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COMPILATION OF CROSS SECTIONS FOR STRANGE PARTICLE PRODUCTION IN π^- p INTERACTIONS

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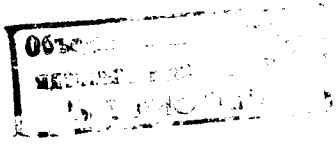

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CONTENTS

§ I INTRODUCTION

Lately the number of publications on strange particle production has become rather large. In order to use the published data efficiently it is necessary to collect and order them. Due to the large number of involved reactions and measured quantities, it is necessary to use the modern system of handling data by electronic computers.

For this reason we started the ordering the existing information on partial cross sections for strange particle production. We present here only cross sections for the interactions of the negative pions with protons, which were published before January 1971.

In the first part some notes (§ 2- 7) explain how to use the compilation.

In order to give a more intuitive view of the variation of the cross section with energy, plots of the cross section versus momentum of the incident pion in a log- log scale are given for the reactions where there are more than 5 data points.

The present paper should be considered as a test and a starting point for a more complete collection of data including also other reactions with strange particle production such as Kp, pp and other measured quantities such as $\frac{d\sigma}{dt}$, $\frac{d\sigma}{dM}$, ...

We plan to bring this compilation up to date every year.

We apologize for all omissions and errors and any corrections or suggestions are welcome.

§ 2 DESCRIPTION OF THE TABLES OF COMPILED REACTIONS

In the following we list the quantities used in the table of cross sections (table 2):

- The date of printing
- The ordering number of the reaction and its title
- Threshold = the threshold energy of the reaction in CMS (GeV); the threshold kinetic energy of the incident particle in lab.syst. (GeV); the threshold momentum of the incident particle in lab.syst. (GeV/c).
- N = The ordering number of cross sections in increasing order with incident pion energy.
- ECMS = The total energy of the system in CMS (GeV)
- DE+ = The positive error of the total energy in CMS (GeV)
- DE- = The negative error of the total energy in CMS (GeV)
- PLAB = The momentum of the incident particle in lab.syst. (GeV/c)
- DP+ = The positive error of the momentum of the incident particle in lab.syst. (GeV/C)
- DP- = The negative error of the momentum of the incident particle in lab.syst. (GeV/c)
- SIGMA = The cross section (microbarns)
- DS+ = The positive error of the cross section (microbarns)
- DS- = The negative error of the cross section (microbarns)
- REFERENCE = The bibliographical reference contains:
  - the first six letters of the first author name
  - four letters for the publication (for the code, see list 2)
  - the volume
  - the page
  - the last two figures of the year

  - the detection method used (see list 3)
- COM = the number of the corresponding comments (see list 4)

REMARKS:

1. If the errors for the variable (eg: energy or cross section) were not given, 0 is printed.

2. If there are no comments, 0 is printed.

3. When the values for cross sections for one experiment were given in a preprint and at the same time in a journal or review, we compiled the data from the review. When for the same experiment more preliminary results were available, we prefered the last results.

4. When in the same experiment, different data refering to the same reaction were published in a review or a journal, all published results are compiled.

5. The errors, in the cross sections calculated from the published results, were obtained by adding the published errors giving overestimates of the errors. We proceeded in this way observing that, generally the given errors were underestimated..

6. Generally, the errors are only statistical, but we introduced the corresponding comment only if the author specified this.

§ 3. THE RULES USED IN "ORDERING"

Rule	Ordering quantity	Order in which the rule acts
A	multiplicity	increasing
B	mass	increasing or decreasing
C	charge	(+,-,0):(+,-):+:-:0:S:I

Explanationsand conventions

1. The notions of "order", "multiplicity", and the cases when rule B acts in increasing or decreasing order will be defined further.

2. We took for the mass the value given in the Rosenfeld tables (1) for a particle or resonance. All the members of the same iso-multiplet were considered having the same mass.

3. (+,-,0) or (+,-) represents a sum over the charge states included in parentheses. S and L refer only to kaons (short-lived and long-lived ones respectively).

4. When we say that "the hierarchy"is AB, we mean that rule A acts first and rule B acts after rule A has been satisfied.

§ 4 TYPES OF COMPILED REACTIONS

Type	Particles in the final state
E = Exclusive	All are detected (for details, see ref.2)
I = Inclusive	Only some are detected (for details, see ref.2)
T = Topological	Only charged (prongs) observed
P = Phenomenological	All with a common "physical" character

All these definitions are rough (especially the last one) For a better understanding of the types of compiled reactions, see § 7.

Of course, the inclusive, topological and phenomenological types are practicaly combined, but in order to simplify the terminology, we have not introduced mixed terms.

§ 5 RULES USED IN WRITING THE TITLES OF THE REACTIONS

For writing the titles of reactions, we introduced the following types of titles:

EI. Exclusive reactions with one baryon

E2. Exclusive reactions with antibaryon production

E3. Exclusive reactions with an intermediate state (resonance)

E4. Exclusive reactions with an intermediate state and a specified final state

T+P. Topological and phenomonological

I. Inclusive reactions.

In writing the title of a reaction, to "order" means to arrange the particles using the given rules, from left to right. In this case the rule B acts decreasingly.

Type	Particle in the title of the reaction	Hierarchy	Examples
EI	Final state	BC	a
E2	Baryons Mesons	arbitrary* BC	b
E3	Intermediate state	BC	c
E4	Intermediate state Final state	BC BC	d
T+P			e
I	Detected particles ...	BC	f

* The arbitrary hierarchy is: light baryon, heavy baryon, antibaryon.

For the symbols for particles and resonances and for conventions, see list 1.

§ 6 ORDERING OF REACTIONS

"To order" the reactions, means to give them consecutive numbers. The rule B acts increasingly. The hierarchy is ABC and has to be satisfied for the first particle in the title, after

this for the second particle and so on (example g).

For reaction	By multiplicity, we mean
E	Number of particles in the final state
T+P	Number of prongs (in title) + number of observed part. (in title)
I	Number of detected particles

Remarks:

1. The states which are superposition of states are ordered by the lightest particle in the superposition (example g).

2. For phenomenological reactions, if more "general" is the character of the reaction, then smaller number is attributed (example i).

3. The threshold enhancement (TE) and the enhancement (EN) are introduced as resonance.

4. ZO is considered as a particle.

§ 7 EXAMPLES

a) PI- P = P K+ K- PI PIO

Explanation: rule B impose the order P, K, PI. Rule C implies the order K+ K- for K, PI- PIO for PI.

b) PI- P = N L AL K+ K- PI+ PI- PIO

Explanation: arbitrary hierarchy for baryons and BC hierarchy for mesons.

c) PI- P = Y(1385)0 K(890)0

d) PI- P = Y(1385)0 K(890)0 = L K+ PI- PIO PIO

e) Examples of phenomenological reactions:

PI- P = STRANGE PARTICLES

PI- P = Y(+,-) ...

Examples of topological reactions:

PI- P = 2 PRONGS KS KS

f) PI- P = L ...

g) The reactions with multiplicity 4 of type EI are ordered

as follows:

x PI- P = P K+ K- PI

x+1 PI- P = P K- KO PIO

x+2 PI- P = P K- KO ZO

For reactions of types E3 and E4, the order is:

x PI- P = L KO PI+ PI-

x+1 PI- P = L K(890)+ PI-

x+2 PI- P = L K(890)+ PI- = L K+ PI- PIO

x+3 PI- P = L K(890)+ PI- = L KO PI+ PI-

For type I, the order is:

x PI- P = KO ...

x+1 PI- P = Y ...

x+2 PI- P = Y(+,-) ...

h) x PI- P = L KO

x+1 PI- P = (L/SO) KO

i) x PI- P = STRANGE PARTICLES

x+1 PI- P = VO ...

x+2 PI- P = 0 PRONGS (L/SO)

Explanation: the number of the reaction is smaller if the "generality" is "higher".

Acknowlegements

We thank A.Stelmakh for his help in data handling at the beginning of this work.

REFERENCES

1. Particle data group, Reviews of Modern Physics, 43 (1971), 1.

2. R.P. Feynman, Physical Review Letters, 23 (1969), 1415.

LIST 1

Symbols for particles and resonances

Mesons

PI	= pion	F	= $F^0(1260)$
K	= kaon	D	= D(1285)
KS	= K_S^0	K(1175)	= $K_A(1175)$
KL	= K_L^0	A2	= $A_2(1300)$
K(725)	= K(725)	K(1320)	= $K^*(1320)$
OM	= $\omega(783)$	K(1400)	= $K_N^*(1420)$
K(890)	= $K^*(890)$	E	= E(1420)
PHI	= $\phi(1019)$	F(1500)	= f(1500)
S(1070)	= $S^*(1070)$	KS KS(1440)	= $K_S^0\ K_S^0$ (1440)
A1	= $A_1(1070)$	G	= g(1650)

Baryons

P	= proton	Y(1700)	= $\Lambda(1700)$
N	= neutron	Y(1820)	= $\Lambda(1820)$
L	= Λ	Y(1385)	= $\Lambda(1385)$
S	= Σ	Z(1300)	= Z(1300)
XI	= Ξ	Z(1950)	= Z(1950)
OM-	= Ω^-	XI(1530)	= $\Xi(1530)$
Y	=hyperon	TE	=Threshold enhancement
Y(1405)	= $\Lambda(1405)$	ZO	= Missing neutrals
Y(1520)	= $\Lambda(1520)$	EN	= Enhancement
Y(1670)	= $\Lambda(1670)$		

Conventions

VO	= Visible decay of a neutral strange particle
N PRONGS	= N charged particles in the final state
(L/SO)	= Λ or Σ°
(K PI)+	= $K^0\pi^+$ and $K^+\pi^0$
PI(+,-)	= π^+ or π^-
...	= Sum over all final states which include the given state
2PI+	= $\pi^+\pi^+$
AL	= $\bar{\Lambda}$
AXI+	= $\bar{\Xi}^+$

LIST 2

Abbreviation

Preprints

BNL	UPTON,N.Y. USA	BROOKHAVEN NAT. LAB.
CERNTCPH	GENEVA, SWITZERLAND	EUROP.ORGANISATION FOR NUCL. RESEARCH
CERNDPH	GENEVA,SWITZERLAND	EUROP.ORGANISATION FOR NUCL. RESEARCH
DUBNA	DUBNA, URSS	JOINT INST.FOR NUCL.RESEARCH
HE	BUCHAREST, ROMANIA	INSTITUTE FOR ATOMIC PHYSICS
SLAC	STANFORD, CAL., USA	STANFORD LIN. ACC.CENTER
WISC	MADISON, WISC., USA	UNIV. OF WISCONSIN

Journals, reviews

BAPS	BULLETIN OF THE AMERICAN PHYSICAL SOCIETY
IAF	IADERNAIA FIZIKA (in russian)
JETF	JURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI(in russian)
LNC	LETTERE NUOVO CIMENTO
NC	NUOVO CIMENTO
NP	NUCLEAR PHYSICS
PL	PHYSICS LETTERS
PR	PHYSICAL REVIEW
PRL	PHYSICAL REVIEW LETTERS
RMP	REVIEWS OF MODERN PHYSICS
RRP	REVUE ROUMAINE DE PHYSIQUE
THES	THESIS

Conference proceedings

CERNCONF	58	1958 ANNUAL INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS AT CERN
KIEVCONF	59	1959 NINTH INTERNATIONAL ANNUAL CONFERENCE ON HIGH ENERGY PHYSICS
ROCHCONF	60	1960 INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS AT ROCHESTER
AIX CONF	61	1961 THE AIX-EN-PROVENCE INTERNATIONAL CONFERENCE ON ELEMENTARY PARTICLES

CERNCONF	62	1962 INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS AT CERN
ATHECONF	63	1963 ATHENS TOPICAL CONFERENCE ON RESONANT PARTICLES
VIENCONF	68	1968 14th INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS VIENNA
KIEVCONF	70	1970 XV INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS KIEV

LIST 3

Measurement techniques

D DEUTERIUM CHAMBER
H HYDROGEN BUBBLE CHAMBER
P PROPANE BUBBLE CHAMBER
T SCINTILLATION COUNTER
S SPARK CHAMBER
V DOUBLE VEE MAGNETIC SPECTROMETER
W DIFFUSION CLOUD CHAMBER
U EMULSION AND HYDROGEN CHAMBER

LIST 4

Comments

1. The errors on the energy (momentum ...) are estimated by us from the indication of the author.

2. The author specifies that the errors of the cross section are only statistical.

6. The data are quoted by the authors from another paper, not found by us.

7. Total production cross section of strange particles without corrections for the pair $K_S^o K_S^o$.

9. Observed only in the state $K^+\pi^-$ with visible Λ and corrected for $K^o\pi^o$.

10. Observed only in the state $K^-K_S^o$ and corrected by the author.

13. The (ΛK^+) mass enhancement is in the range (1.60 - 1.95)

GeV/c^2. It is suggested the interpretation of this enhancement as N(1688).

14. The mass of the (Σ^-K^+). Enhancement is in the range of (I.7 - 2.2)GeV/c^2.

15. It is supposed that the cross section for ($E\widetilde{K}$) = 4 cross section for (K^oK^o).

16. It is supposed that the cross section for (YK^o) = cross section for (YK^+).

18. Upper limit given by the author.

19. It is supposed that the cross section for ($P\widetilde{K}$) = cross section (cross section (K^o...)-1/2 cross section (Y...).

21. The mass of the EN(ΛK^+) = (1.700$\pm$0.025) GeV/c^2. Cut in t_{p-EN} at 0.4(GeV/c^2)^2.

22. Cross section obtained by integration of differential cross section $d\sigma/dt$ over a given interval of t.

23. Cross section obtained by integration of differential cross section $d\sigma/du$ over a given interval of u.

25. Compiled by us from the published data of the author.

26. For details for the determination of the cross section, see the paper.

27. Strange particle cross section determined from events with two visible decays per event, corrected for neutrals (only K^o_s).

28. Strange particle cross section determined from events with a single decay per event, by indirect observation and statistical assumptions.

30. Cross section determinated in the region of mass: (0.988 - I.I00) GeV/c^2 for the K^+K^- system and a given interval of t(t_{min}-0.5(GeV/c^2)^2) (for the third decimal in the cross section, see the paper).

TABLE I

TABLE OF COMPILED REACTIONS

```
 1  -   PI- P = STRANGE PARTICLES
 2  -   PI- P = V0 ...
 3  -   PI- P = 0 PRONGS ( L / S0 )
 4  -   PI- P = K0 ...
 5  -   PI- P = Y ...
 6  -   PI- P = Y(+,-) ...
 7  -   PI- P = ( L / S0 ) ...
 8  -   PI- P = AL ...
 9  -   PI- P = S+ ...
10  -   PI- P = S- ...
11  -   PI- P = XI- ...
12  -   PI- P = OM- ...
13  -   PI- P = 0 PRONGS KS KS
14  -   PI- P = 0 PRONGS ( L / S0 ) KS
15  -   PI- P = K AK ...
16  -   PI- P = K(+,-) KS ...
17  -   PI- P = K(+,-) KL ...
18  -   PI- P = K+ K- ...
19  -   PI- P = K0 AK ...
20  -   PI- P = K0 K0 ...
21  -   PI- P = KS KS ...
22  -   PI- P = KS KL ...
23  -   PI- P = L K0
24  -   PI- P = L K0 ( BACKWARD )
25  -   PI- P = L AS(-,+) ...
26  -   PI- P = L AXI+ ...
27  -   PI- P = L AXI0 ...
28  -   PI- P = ( L / S0 ) K+ ...
29  -   PI- P = ( L / S0 ) K0 ...
30  -   PI- P = ( L / S0 ) K0
31  -   PI- P = ( L / S0 ) KS ...
32  -   PI- P = S(+,-) AL ...
33  -   PI- P = S(+,-) AS(-,+) ...
34  -   PI- P = S+ K+ ...
35  -   PI- P = S+ K0 ...
36  -   PI- P = S+ KS ...
37  -   PI- P = S- K+ ...
38  -   PI- P = S- K+
39  -   PI- P = S- K0 ...
40  -   PI- P = S- KS ...
41  -   PI- P = S0 K0
42  -   PI- P = AY KS ...
43  -   PI- P = Z(1300)+ K-
44  -   PI- P = XI- AS ...
45  -   PI- P = Z(1950)+ K-
46  -   PI- P = 2 PRONGS STRANGE PARTICLES
47  -   PI- P = 2 PRONGS ( L / S0 )
48  -   PI- P = K0 K0 Z0
49  -   PI- P = KS KS Z0
50  -   PI- P = P K- K0
51  -   PI- P = P K- KS
52  -   PI- P = P A1- = P K- K0
53  -   PI- P = P A2- = P K AK
54  -   PI- P = P A2- = P K- K0
55  -   PI- P = P G- = P ( K AK )-
56  -   PI- P = ( P /N ) Y AY ...
57  -   PI- P = ( P / N ) ( A2- / A20 ) = ( P / N ) ( KS K- / KS KS )
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 58  -   PI- P = [illegible] K+ K-
 59  -   P[illegible]- P = [illegible] K0 K0
 60  -   PI- P = [illegible] KS KS
 61  -   PI- P = [illegible] KS KL
 62  -   P[illegible]- P = [illegible] PHI
 63  -   PI- P = N PHI = N K+ K-
 64  -   PI- P = [illegible] TE( K AK ) = N KS KS
 65  -   PI- P = N S(1070) = N KS KS
 66  -   PI- P = N F = N K AK
 67  -   PI- P = N F = N KS KS
 68  -   PI- P = [illegible] A2 = N K AK
 69  -   PI- P = N A2 = N KS KS
 70  -   PI- P = N KSKS(1400) = N KS KS
 71  -   PI- P = [illegible] F(1500) = N K AK
 72  -   PI- P = [illegible] L AL
 73  -   P[illegible]- P = Y K PI
 74  -   P[illegible]- P = Y K(890)
 75  -   P[illegible]- P = L K+ PI-
 76  -   PI- P = L K0 PI0
 77  -   P[illegible]- P = L K0 Z0
 78  -   PI- P = L KS PI0
 79  -   PI- P = L K(890)0
 80  -   PI- P = L K(1400)0 = L ( K PI )0
 81  -   PI- P = ( L / S0 ) K+ PI-
 82  -   PI- P = ( L / S0 ) K0 PI0
 83  -   PI- P = ( L / S0 ) K0 Z0
 84  -   P[illegible]- P = ( L / S0 ) K(890)
 85  -   PI- P = ( L/ S0 ) K(1400)0
 86  -   P[illegible]- P = S(+,-) KS PI(-,+)
 87  -   P[illegible]- P = S+ K0 PI-
 88  -   PI- P = S- (K PI )+
 89  -   PI- P = S- K+ PI0
 90  -   PI- P = S- K+ Z0
 91  -   P[illegible]- P = S- K0 PI+
 92  -   PI- P = S- K(725)+
 93  -   PI- P = S- K(890)+
 94  -   PI- P = S0 K+ PI-
 95  -   P[illegible]- P = S0 K0 PI0
 96  -   P[illegible]- P = S0 K(890)0
 97  -   PI- P = S0 K(890)0= S0 K+ PI-
 98  -   PI- P = S0 K(1400)0
 99  -   P[illegible]- P = SN( L K+ ) PI-
100  -   P - P = SN( L K0 ) PI0
101  -   PI- P = SN( S K )+ PI-
102  -   PI- P = SN( S K )0 PI0
103  -   P[illegible]- P = XI- K K ...
104  -   PI- P = XI- K+ K0
105  -   PI- P = XI0 K0 K0
106  -   P[illegible]- P = Y(1385)- K+
107  -   P[illegible]- P = Y(1385)- K+ = L K+ PI-
108  -   PI- P = Y(1385)0 K0
109  -   PI- P = Y(1385)0 K0 = L K0 PI0
110  -   PI- P = Y(1385)0 K(1400)0
111  -   PI- P = Y(1405) K0
112  -   PI- P = Y(1405) K0 = ( S PI )0 K0
113  -   PI- P = Y(1405) K0 = ( S+ PI- / S- PI+ ) K0
114  -   PI- P = Y(1405) K0 = S+ PI- K0
115  -   P[illegible]- P = Y(1520) K0
116  -   P[illegible]- P = Y(1520) K0 = ( ( P / N ) AK )0 K0
117  -   P[illegible]- P = Y(1520) K0 = ( S PI / P K- ) K0
118  -   PI- P = Y(1520) K0 = ( S PI ) K0
119  -   PI- P = Y(1670) K0 = ( S PI ) K0
120  -   PI- P = Y(1820) K0 = ( N / P K ) K0
121  -   PI- P = 2 PRONGS K0 AK
122  -   PI- P = 2 PRONGS KS KS
123  -   P[illegible]- P = 2 PRONGS ( L / S0 ) KS
124  -   PI- P = P K+ K- PI-
125  -   P[illegible]- P = P K- K0 PI0
126  -   PI- P = P K- K0 Z0
127  -   PI- P = P K0 K0 PI-
128  -   PI- P = P KS KS PI-
129  -   PI- P = P KS KL PI-
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130  -   P- P = P K(890)- K0
131  -   P- P = P ( K AK(890) / AK K(890) )
132  -   P- P = P ( P / N ) K(890) AK
133  -   P- P = P ( P / N ) K(890)(-,0) AK = ( P / N ) K AK PI
134  -   P- P = N K+ K0 PI-
135  -   P- P = N K- K0 PI+
136  -   P- P = N K0 K0 PI0
137  -   P- P = N K0 K0 Z0
138  -   P- P = N KS KS PI0
139  -   P- P = N D = N ( K+ PI- / K- PI+ ) K0
140  -   P- P = N E = N ( K+ PI- / K- PI+ ) K0
141  -   P- P = N F(1500) = N ( K PI ) K0
142  -   P- P = N ( K AK(890) / AK K(890) )
143  -   Y- P = Y K(1170) = Y K PI PI
144  -   Y- P = Y K(890) PI
145  -   Y- P = L K+ PI- PI0
146  -   Y- P = L K+ PI- Z0
147  -   Y- P = L K0 PI+ PI-
148  -   Y- P = L K(890)+ PI-
149  -   Y- P = L K(890)+ PI- = L K+ PI- PI0
150  -   Y- P = L K(890)+ PI- = L K0 PI+ PI-
151  -   PI- P = L K(890)0 PI0 = L ( P PI )0 PI0
152  -   Y- P = L K(890)0 PI0 = L K+ PI- PI0
153  -   PI- P = ( L / S0 ) K+ PI- PI0
154  -   PI- P = ( L / S0 ) K+ PI- Z0
155  -   PI- P = ( L / S0 ) K0 PI+ PI-
156  -   PI- P = ( L / S0 ) K0 2PI0
157  -   PI- P = ( L / S0 ) K0 K0 K0
158  -   PI- P = ( L / S0 ) OM K0
159  -   PI- P = ( L / S0 ) K(890)+ PI-
160  -   PI- P = ( L / S0 ) K(890)+ PI- = ( L / S0 ) K0 PI+ PI-
161  -   PI- P = ( L / S0 ) K(890)+ PI- = ( L / S0 ) K+ PI- PI0
162  -   PI- P = ( L / S0 ) K(890)0 PI0 = ( L / S0 ) K+ PI- PI0
163  -   PI- P = S K(890) PI
164  -   PI- P = S(+,-) KS PI(-,+) PI0
165  -   PI- P = S(+,-) KS PI(-,+) Z0
166  -   PI- P = S+ K+ 2PI-
167  -   PI- P = S+ K0 PI- PI0
168  -   PI- P = S+ K0 PI- Z0
169  -   PI- P = S+ K(890)0 PI-
170  -   PI- P = S- ( K PI )+ Z0
171  -   PI- P = S- K+ PI+ PI-
172  -   PI- P = S- K0 PI+ PI0
173  -   PI- P = S- K0 PI+ Z0
174  -   PI- P = S- K(890)0 PI+
175  -   PI- P = S0 K+ PI- PI0
176  -   PI- P = S0 K0 PI+ PI-
177  -   PI- P = S0 K(890)+ PI-
178  -   PI- P = Y(1385)+ K0 PI-
179  -   PI- P = Y(1385)+ K0 PI- = L K0 PI+ PI-
180  -   PI- P = Y(1385)+ K0 PI- = ( L / S0 ) K0 PI+ PI-
181  -   PI- P = Y(1385)- K+ PI0 = L K+ PI- PI0
182  -   PI- P = Y(1385)- K+ PI0 = ( L / S0 ) K+ PI- PI0
183  -   PI- P = Y(1385)- K0 PI+
184  -   PI- P = Y(1385)- K0 PI+ = L K0 PI+ PI-
185  -   PI- P = Y(1385)- K0 PI+ = ( L / S0 ) K0 PI+ PI-
186  -   PI- P = Y(1385)- K(890)+
187  -   PI- P = Y(1385)- K(890)+ = L ( K PI )+ PI-
188  -   PI- P = Y(1385)- K(890)+ = ( L / S0 ) ( K PI )+ PI-
189  -   PI- P = Y(1385)- K(890)+ = L K+ PI- PI0
190  -   PI- P = Y(1385)- K(890)+ = L K0 PI+ PI-
191  -   PI- P = Y(1385)0 K+ PI-
192  -   PI- P = Y(1385)0 K+ PI- = L K+ PI- PI0
193  -   PI- P = Y(1385)0 K(890)0
194  -   PI- P = Y(1385)0 K(890)0 = L ( K PI )0 PI0
195  -   PI- P = Y(1385)0 K(890)0 = L K+ PI- PI0
196  -   PI- P = Y(1405) K PI
197  -   PI- P = Y(1405) K0 PI0
198  -   PI- P = Y(1405) K(890)0
199  -   PI- P = Y(1405) K(890)0 = ( S PI ) ( K PI )0
200  -   PI- P = Y(1520) ( K PI ) = P K- ( K PI )
201  -   PI- P = Y(1520) ( K PI ) = ( S PI ) ( K PI )
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202  -   PI- P = Y(1520) K0 = ( L PI PI ) K0
203  -   PI- P = Y(1520) K(890)0 = ( S PI ) ( K P  )
204  -   PI- P = Y(1670) K(890)0 = ( S PI ) ( K P  )
205  -   PI- P = XI- K+ K+ PI-
206  -   PI- P = XI- K+ K0 PI0
207  -   PI- P = XI- K0 K0 PI+
208  -   PI- P = XI0 K+ K0 PI-
209  -   PI- P = XI(1530)0 K0 K0 = XI- K0 K0 PI+
210  -   PI- P = 4 PRONGS ( L/ S0 )
211  -   PI- P = P K+ K- PI- PI0
212  -   PI- P = P K+ P0 PI- PI-
213  -   PI- P = P K- K0 PI+ PI-
214  -   PI- P = P K0 K0 PI- PI0
215  -   PI- P = P K0 K0 PI- Z0
216  -   PI- P = P KS KS PI- PI0
217  -   PI- P = N ( K PI )+ K- Z0
218  -   PI- P = N K+ ( K PI )- Z0
219  -   PI- P = N K+ K- PI+ PI-
220  -   PI- P = N K0 K0 PI+ PI-
221  -   PI- P = N KS KS PI+ PI-
222  -   PI- P = L K+ PI+ PI- PI-
223  -   PI- P = L K0 PI+ PI- PI0
224  -   PI- P = L K0 PI+ PI- Z0
225  -   PI- P = ( L/ S0 ) K+ PI+ 2PI-
226  -   PI- P = ( L / S0 ) K0 PI+ PI- PI0
227  -   PI- P = ( L / S0 ) K0 PI+ PI- Z0
228  -   PI- P = S(+,-) KS (3PI)(-,+)
229  -   PI- P = S+ K+ 2PI- PI0
230  -   PI- P = S+ K0 PI+ 2PI-
231  -   PI- P = S- K+ PI+ PI- PI0
232  -   PI- P = S- K0 PI+ PI+ PI-
233  -   PI- P = S0 K+ PI+ 2PI-
234  -   PI- P = S0 K0 PI+ PI- PI0
235  -   PI- P = Y(1385)+ K(890)0 PI-
236  -   PI- P = Y(1385)0 K(890)+ PI-
237  -   PI- P = Y(1405) K(890)+ PI-
238  -   PI- P = 4 PRONGS K0 AK
239  -   PI- P = 4 PRONGS KS KS
240  -   PI- P = 4 PRONGS ( L / S0 ) KS
241  -   PI- P = P K+ K- PI+ 2PI-
242  -   PI- P = P K+ K0 2PI- PI0
243  -   PI- P = P K- K0 PI+ PI- PI0
244  -   PI- P = P K0 K0 PI+ 2PI-
245  -   PI- P = P KS KS PI+ 2PI-
246  -   PI- P = N K+ K0 PI+ 2PI-
247  -   PI- P = N K- K0 2PI+ PI-
248  -   PI- P = N K0 K0 PI+ PI- Z0
249  -   PI- P = L K+ PI+ 2PI- PI0
250  -   PI- P = L K0 2PI+ 2PI-
251  -   PI- P = L K0 PI+ PI- 2PI0
252  -   PI- P = ( L / S0 ) K+ PI+ 2PI- PI0
253  -   PI- P = ( L / S0 ) K+ PI+ 2PI- Z0
254  -   PI- P = ( L / S0 ) K+ K- K0 PI+ PI-
255  -   PI- P = ( L / S0 ) K0 2PI+ 2PI-
256  -   PI- P = ( L / S0 ) ( K PI )+ PI+ 2PI- Z0
257  -   PI- P = S(+,-) KS (3PI)(-,+) PI0
258  -   PI- P = S(+,-) KS (3PI)(-,+) Z0
259  -   PI- P = S+ ( K PI )+ 2PI- Z0
260  -   PI- P = S+ K+ PI+ 3PI-
261  -   PI- P = S+ K0 PI+ 2PI- PI0
262  -   PI- P = S+ K0 PI+ 2PI- Z0
263  -   PI- P = S- ( K PI )+ PI+ PI- Z0
264  -   PI- P = S- K+ 2PI+ 2PI-
265  -   PI- P = S- K0 2PI+ PI- Z0
266  -   PI- P = S- K0 2PI+ PI- PI0
267  -   PI- P = S0 K0 2PI+ 2PI-
268  -   PI- P = 6 PRONGS ( L / S0 )
269  -   PI- P = ( L / S0 ) K0 2PI+ 2PI- PI0
270  -   PI- P = ( L / S0 ) K0 2PI+ 2PI- Z0
271  -   PI- P = S(+,-) KS (5PI)(-,+)
272  -   PI- P = S- K0 3PI+ 2PI-
273  -   PI- P = 6 PRONGS K0 AK
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274 - PI- P = 6 PRONGS KS KS
275 - PI- P = 6 PRONGS (L / S0) KS
276 - PI- P = (L / S0) K0 3PI+ 3PI-
277 - PI- P = S(+,-) KS (5PI)(-,+) PI0
278 - PI- P = S(+,-) KS (5PI)(-,+) Z0
279 - PI- P = S+ K0 2PI+ 3PI- PI0
280 - PI- P = S+ K0 2PI+ 3PI- Z0
281 - PI- P = S- K0 3PI+ 2PI- PI0
282 - PI- P = S- K0 3PI+ 2PI- Z0
283 - PI- P = 8 PRONGS (L / S0)
284 - PI- P = S(+,-) KS (7PI)(-,+)
285 - PI- P = (L / S0) K0 3 PI+ 3PI- PI0
286 - PI- P = (L / S0) K0 3PI+ 3PI- Z0
287 - PI- P = 8 PRONGS K0 AK
288 - PI- P = 8 PRONGS KS KS
289 - PI- P = 8 PRONGS (L / S0) KS
290 - PI- P = L K0 4PI+ 4PI-
291 - PI- P = S(+,-) KS (7PI)(-,+) PI0
292 - PI- P = S(+,-) KS (7PI)(-,+) Z0
293 - PI- P = 10 PRONGS (L / S0)
294 - PI- P = (L / S0) K0 4PI+ 4PI- PI0
295 - PI- P = (L / S0) K0 4PI+ 4PI- Z0

TABLE 2.

TABLE OF CROSS SECTIONS FOR STRANGE PARTICLE PRODUCTION IN $\bar{p}$P INTERACTIONS

01/10/71
REACTION 1 PI- P = STRANGE PARTICLES

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,613			,768			,897	THRESHOLD										
1	1,617	,001	,001	,775	,002	,002	,904	,002	,002	58,00	15,00	15,00	BERTAN	PRL	8	332	62	H 25
2	1,628	,001	,001	,793	,002	,002	,922	,002	,002	140,00	20,00	20,00	BERTAN	PRL	8	332	62	H 25
3	1,631	0,000	0,000	,796	0,000	0,000	,927	-0,000	-0,000	90,00	30,00	30,00	STEINB	CERNCONF		147	5B	P 25
4	1,648	,001	,001	,829	,002	,002	,958	,002	,002	430,00	40,00	40,00	BERTAN	PRL	8	332	62	H 25
5	1,672	,001	,001	,871	,002	,002	1,001	,002	,002	960,00	40,00	40,00	BERTAN	PRL	8	332	62	H 25
6	1,716	,273	,273	,950	,500	,500	1,081	,504	,504	800,00	1000,00	800,00	WALKER	PR	104	526	56	U -0
7	1,721	,005	,005	,960	,010	,010	1,091	,010	,010	1020,00	200,00	200,00	LEIPUN	PR	109	1358	5B	H -0
8	1,721	,005	,005	,960	,010	,010	1,091	,010	,010	1320,00	300,00	300,00	EISLER	NC	10	468	5B	H 25
9	1,726	0,000	0,000	,969	0,000	0,000	1,100	-0,000	-0,000	900,00	180,00	180,00	CRAWFO	BAPS	3	25	5B	H 25
10	1,737	0,000	0,000	,989	0,000	0,000	1,120	-0,000	-0,000	1480,00	200,00	200,00	STEINB	CERNCONF		147	5B	P 25
11	1,932	0,000	0,000	1,370	-0,000	-0,000	1,503	0,000	0,000	900,00	-0,00	-0,00	FOWLER	PR	98	121	55	H 25
12	1,973	0,000	0,000	1,457	0,000	0,000	1,590	-0,000	-0,000	1050,00	30,00	30,00	GOUSSU	NC	A42	606	66	H -0
13	2,102	,089	,089	1,736	,199	,199	1,870	,200	,200	1000,00	-0,00	-0,00	SLAUGH	PR	109	2111	5B	H -0
14	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	1490,00	70,00	70,00	MILLER	PR	B140	360	65	H -0
15	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	-0,000	1560,00	100,00	100,00	GOUSSU	NC	A47	383	67	H -0
16	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	1680,00	200,00	200,00	WANGLE	PR	B137	414	65	H -0
17	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	1530,00	180,00	180,00	WANGLE	PR	B137	414	65	H 7
18	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	2400,00	300,00	300,00	BARTSC	NC	A43	1010	66	H -0
19	3,671	0,000	0,000	6,562	0,000	0,000	6,700	-0,000	-0,000	3000,00	-0,00	-0,00	DICKIN	BAPS	13	612	68	H -0
20	3,696	,152	,152	6,662	,600	,600	6,800	,600	,600	2600,00	350,00	350,00	SOLOVI	KOCHCONF		388	60	P -0
21	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	3420,00	410,00	410,00	BIGI	NC	33	1265	64	H 25
22	5,527	,085	,085	15,661	,500	,500	15,800	,500	,500	3530,00	400,00	400,00	BARTKE	NC	24	876	62	H -0
23	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	4000,00	300,00	300,00	WATERS	NP	B17	445	70	H 26

01/10/71
REACTION 2 PI- P = V0 ...

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,613			,768			,897	THRESHOLD										
1	5,561	,008	,008	15,861	,048	,048	16,000	,048	,048	1600,00	300,00	300,00	BALLAM	SLAC	334		67	H -0
2	6,199	0,000	0,000	19,861	0,000	0,000	20,000	-0,000	-0,000	1600,00	100,00	100,00	BALEA	RRP	14	693	69	H -0

01/10/71
REACTION 3 PI- P = 0 PHONGS (L / S0)

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,613			,768			,897	THRESHOLD										
1	6,199	0,000	0,000	19,861	0,000	0,000	20,000	-0,000	-0,000	10,00	10,00	10,00	BALEA	RRP	15	587	70	H -0

01/10/71
REACTION 4 PI- P = K0...

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,613			,768			,897	THRESHOLD										
1	2,900	,019	,019	3,863	,060	,060	4,000	,060	,060	1580,00	80,00	80,00	BANNIK	DUBN3682			68	P -0
2	4,601	,306	,306	10,661	1,500	1,500	10,800	1,500	1,500	1970,00	350,00	640,00	FERBEL	NC	28	1214	63	H -0
3	5,527	,085	,085	15,661	,500	,500	15,800	,500	,500	2800,00	240,00	240,00	BARTKE	NC	24	876	62	H -0

01/10/71
REACTION 5 PI- P = Y ...

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,613			,768			,897	THRESHOLD										
1	1,721	,005	,005	,960	,010	,010	1,091	,010	,010	1020,00	200,00	200,00	LEIPUN	PR	109	1358	58	H 25
2	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	1160,00	40,00	40,00	MILLER	PR	8140	360	65	H -0
3	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	1145,00	-0,00	-0,00	WANGLE	PR	8137	414	65	H 25
4	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	1130,00	-0,00	-0,00	BARTSC	NC	A43	1010	66	H 25
5	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	1110,00	-0,00	-0,00	BERTAN	PR	130	786	63	H -0
6	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	1450,00	170,00	170,00	BIGI	NC	33	1265	64	H 25
7	5,527	,085	,085	15,661	,500	,500	15,800	,500	,500	1320,00	150,00	150,00	BARTKE	NC	24	876	62	H -0

01/10/71
REACTION 6 PI- P = Y (*,*) ...

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,691			,905			1,035	THRESHOLD										
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	326,00	-0,00	-0,00	WANGLE	PR	8137	414	65	H 25
2	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	270,00	-0,00	-0,00	BARTSC	NC	A43	1010	66	H 25
3	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	300,00	-0,00	-0,00	BERTAN	PR	130	786	63	H 25
4	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	510,00	70,00	70,00	BIGI	NC	33	1265	64	H 16
5	5,527	,085	,085	15,661	,500	,500	15,800	,500	,500	440,00	110,00	110,00	BARTKE	NC	24	876	62	H 25
6	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	316,00	80,00	80,00	WATERS	THESHISC			69	H -0

01/10/71
REACTION 7 PI- P = (L / S0) ...

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,613			,760			,897	THRESHOLD										
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	819,00	-0,00	-0,00	WANGLE	PR	8137	414	65	H 25
2	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	460,00	-0,00	-0,00	BARTSC	NC	A43	1010	66	H -0
3	2,900	,019	,019	3,863	,060	,060	4,000	,060	,060	890,00	50,00	50,00	BANNIK	DUBN3682			68	P -0
4	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	800,00	-0,00	-0,00	BERTAN	PR	130	786	63	H 25
5	3,696	,152	,152	6,662	,600	,600	6,800	,600	,600	800,00	250,00	250,00	SOLOVI	KOCHCONF		388	68	P -0
6	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	940,00	100,00	100,00	BIGI	NC	33	1265	64	H 16
7	4,601	,306	,306	10,661	1,500	1,500	10,800	1,500	1,500	740,00	280,00	180,00	FERBEL	NC	28	1214	63	H 25
8	5,527	,085	,085	15,661	,500	,500	15,800	,500	,500	860,00	100,00	100,00	BARTKE	NC	24	876	62	H -0

9	6,199	0,000	0,000	19,861	0,000	0,000	20,000	-0,000	-0,000	1160;00	310,00	310,00		BALEA	RRP	15	587	78	H	-0
10	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	750;00	82,00	82,00		WATERS	THESWISC			69	H	-0

01/10/71
REACTION 8 PI- P = AL ,,,

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	3,171			4,739			4,877	THRESHOLD											
1	3,619	,130	,130	6,362	,500	,500	6,500	,500	,500	3;00	-0,00	-0,00	KANCHA	JETF	11	976	60	P	-0
2	4,601	,306	,306	10,661	1,500	1,500	10,800	1,500	1,500	50,00	30,00	30,00	FERBEL	NC	28	1214	63	H	18
3	5,527	,085	,065	15,661	,500	,500	15,800	,500	,500	20;00	-0,00	-0,00	BARTKE	NC	24	876	62	H	18
4	6,199	0,000	0,000	19,861	0,000	0,000	20,000	-0,000	-0,000	7;20	-0,00	-0,00	BALEA	HE	66		70	H	-0

01/10/71
REACTION 9 PI- P = S- ,,,

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	1,827			1,159			1,292	THRESHOLD											
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	102,00	-0,00	-0,00	WANGLE	PR	8137	414	65	H	25
2	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	60,00	-0,00	-0,00	BARTSC	NC	A43	1010	66	H	-0
3	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	100,00	-0,00	-0,00	BERTAN	PR	130	786	63	H	25
4	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	200;00	30,00	30,00	BRANDT	CERNTCPH		28	63	H	-0
5	5,527	,085	,085	15,661	,500	,500	15,800	,500	,500	360;00	60,00	60,00	BARTKE	NC	24	876	62	H	-0

01/10/71
REACTION 10 PI- P = S- ,,,

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	1,691			,905			1,035	THRESHOLD											
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	224;00	-0,00	-0,00	WANGLE	PR	8137	414	65	H	25
2	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	210;00	-0,00	-0,00	BARTSC	NC	A43	1010	66	H	-0
3	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	200;00	-0,00	-0,00	BERTAN	PR	130	786	63	H	25
4	3,696	,152	,152	6,662	,600	,600	6,800	,600	,600	100;00	20,00	20,00	SOLOVI	ROCHCONF		388	60	P	4
5	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	340;00	50,00	50,00	BRANDT	CERNTCPH		28	63	H	-0
6	5,527	,085	,085	15,661	,500	,500	15,800	,500	,500	280;00	50,00	50,00	BARTKE	NC	24	876	62	H	-0

01/10/71
REACTION 11 PI- P = XI- ,,,

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	2,313			2,232			2,367	THRESHOLD											
1	2,900	,019	,019	3,863	,060	,060	4,000	,060	,060	1;50	,70	,60	ATAYAN	IRF	7	349	68	P	-0
2	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	5;00	4,00	4,00	BARTSC	NC	A43	1010	66	H	-0
3	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	2;90	1,80	1,00	BUDAGO	DUBN	P1	4784	69	P	-0
4	3,350	0,000	0,000	5,362	0,000	0,000	5,500	-0,000	-0,000	2;30	3,10	1,60	FOWLER	NC	11	428	59	P	-0
5	3,696	,152	,152	6,662	,600	,600	6,800	,600	,600	3;60	2,50	2,10	KANCHA	JETF	40	734	60	P	-0
6	3,989	0,000	0,000	7,862	0,000	0,000	8,000	-0,000	-0,000	10;60	4,40	3,20	KANCHA	JETF	40	734	60	P	-0

7	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	15;50	4,50	4,50		BIQI	NC	33	1265	64	H	-0
8	5,527	,085	,085	15,661	,500	,500	15,800	,500	,500	20;00	-0,00	-0,00		BARTKE	NC	24	876	62	H	18
9	6,199	0,000	0,000	19,861	0,000	0,000	20,000	-0,000	-0,000	9;00	-0,00	-0,00		BALEA	RRP	15	987	70	H	18
10	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	20;00	4,00	4,00		WATERS	NP	B17	445	70	H	27

01/10/71
REACTION 12 PI- P + OM- ,,,

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	3,154			4,682			4,820	THRESHOLD											
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	1;00	-0,00	-0,00	WATERS	BAPS	12	541	67	H	18

01/10/71
REACTION 13 PI- P + 0 PRONGS KS KS

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	1,935			1,377			1,510	THRESHOLD											
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	10;80	2,80	2,80	WATERS	THESWIS			69	H	-0

01/10/71
REACTION 14 PI- P + 0 PRONGS (L / S0) KS

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	1,613			,768			,897	THRESHOLD											
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	8,00	5,00	5,00	WATERS	THESWISC			69	H	-0

01/10/71
REACTION 15 PI- P + K AK ,,,

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	1,927			1,360			1,493	THRESHOLD											
1	2,111	0,000	0,000	1,756	0,000	0,000	1,890	-0,000	+0,000	140;00	-0,00	-0,00	ERWIN	AIX CONF			61	H	-0
2	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	535;00	-0,00	-0,00	WANGLE	PR	B137	414	65	H	25
3	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	1240;00	-0,00	-0,00	BARTSC	NC	A43	1010	66	H	-0
4	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	780;00	-0,00	-0,00	BERTAN	PR	130	786	63	H	25
5	3,696	,152	,152	6,662	,600	,600	6,800	,600	,600	1600;00	245,00	245,00	KANCIA	JETF	40	464	61	P	25
6	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	1970;00	240,00	240,00	BIQI	NC	33	1249	64	H	15
7	5,527	,085	,085	15,661	,500	,500	15,800	,500	,500	2210;00	250,00	250,00	BARTKE	NC	24	876	62	H	19
8	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	2960;00	240,00	240,00	WATERS	NP	B17	445	70	H	26

01/10/71
REACTION 16 PI- P + K(+,-) KS ,,,

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE	COM

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	1,930			1,366			1,499	THRESHOLD						
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	824,00	120,00	120,00	WATERS NP 817 445 70 H	28

01/10/71
REACTION 17 PI- P = K(+,-) KL ...

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	1,930			1,366			1,499	THRESHOLD						
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	824,00	120,00	120,00	WATERS NP 817 445 70 H	-0

01/10/71
REACTION 18 PI- P = K+ K- ...

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	1,927			1,360			1,493	THRESHOLD						
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	652,00	56,00	56,00	WATERS NP 817 445 70 H	28

01/10/71
REACTION 19 PI- P = K0 AK ...

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	1,927			1,360			1,493	THRESHOLD						
1	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	570,00	-0,00	-0,00	BERTAN PR 130 786 63 H	-0
2	3,696	,152	,152	6,662	,600	,600	6,800	,600	,600	1200,00	300,00	300,00	SOLOVI ROCHCONF 388 60 P	-0
3	6,199	0,000	0,000	19,861	0,000	0,000	20,000	-0,000	-0,000	2690,00	520,00	520,00	BALEA RRP 15 587 70 H	-0

01/10/71
REACTION 20 PI- P = K0 K0 ...

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	1,935			1,377			1,510	THRESHOLD						
1	2,900	,019	,019	3,863	,060	,060	4,000	,060	,060	380,00	50,00	50,00	BANNIK DUBN3682 68 P	-0
2	4,601	,306	,306	10,661	1,500	1,500	10,800	1,500	1,500	90,00	70,00	70,00	FERBEL NC 28 1214 63 H	-0
3	6,199	0,000	0,000	19,861	0,000	0,000	20,000	-0,000	-0,000	790,00	320,00	320,00	BALEA RRP 15 587 70 H	-0

01/10/71
REACTION 21 PI- P = KS KS ...

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	1,935			1,377			1,510	THRESHOLD						

1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	163,00	14,00	14,00	WATERS	NP	B17	445	70	H	-0

01/10/71
REACTION 22 PI- P = KS KL ,,,

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	1,935			1,377			1,510	THRESHOLD											
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	326,00	28,00	28,00	WATERS	NP	B17	445	70	H	28

01/10/71
REACTION 23 PI- P = L K0

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	1,613			,768			,897	THRESHOLD											
1	1,617	,001	,001	,775	,002	,002	,904	,002	,002	56,00	15,00	15,00	BERTAN	PRL	8	332	62	H	1
2	1,626	,003	,003	,790	,005	,005	,919	,005	,005	180,00	70,00	70,00	DYCK	PRL	23	50	69	S	-0
3	1,628	,001	,001	,793	,002	,002	,922	,002	,002	140,00	20,00	20,00	BERTAN	PRL	8	332	62	H	1
4	1,631	0,000	0,000	,798	0,000	0,000	,927	-0,000	-0,000	90,00	30,00	30,00	STEINB	CERNCONF		147	58	H	6
5	1,639	,003	,003	,813	,005	,005	,942	,005	,005	300,00	10,00	10,00	DYCK	PRL	23	50	69	S	-0
6	1,648	,001	,001	,829	,002	,002	,958	,002	,002	430,00	40,00	40,00	BERTAN	PRL	8	332	62	H	1
7	1,654	,003	,003	,838	,005	,005	,968	,005	,005	920,00	20,00	20,00	DYCK	PRL	23	50	69	S	-0
8	1,668	,003	,003	,863	,005	,005	,993	,005	,005	590,00	30,00	30,00	DYCK	PRL	23	50	69	S	-0
9	1,672	,002	,002	,871	,003	,003	1,001	,003	,003	360,00	40,00	40,00	BERTAN	PRL	8	332	62	H	1
10	1,683	,001	,001	,890	,001	,001	1,020	,001	,001	670,00	40,00	40,00	KEREN	PR	B133	457	64	H	-0
11	1,684	,006	,006	,892	,010	,010	1,022	,010	,010	950,00	100,00	100,00	KEREN	BAPS	7	468	62	H	-0
12	1,684	,003	,003	,893	,005	,005	1,023	,005	,005	940,00	40,00	40,00	DYCK	PRL	23	50	69	S	-0
13	1,688	0,000	0,000	,900	0,000	0,000	1,030	-0,000	-0,000	1190,00	140,00	140,00	STEINB	KIEVCONF		443	59	H	6
14	1,691	0,000	0,000	,905	0,000	0,000	1,035	-0,000	-0,000	730,00	28,00	28,00	ANDERS	CERNCONF		271	62	H	-0
15	1,694	,005	,005	,910	,009	,009	1,040	,009	,009	590,00	120,00	120,00	EISLER	NC	10	468	58	P	1
16	1,696	,003	,003	,913	,005	,005	1,043	,005	,005	570,00	60,00	60,00	DYCK	PRL	23	50	69	S	-0
17	1,721	,016	,016	,959	,030	,030	1,090	,030	,030	900,00	120,00	120,00	STEINB	KIEVCONF		443	59	H	6
18	1,721	,005	,005	,960	,010	,010	1,091	,010	,010	580,00	120,00	120,00	LEIPUN	PR	109	1358	58	H	-0
19	1,721	,005	,005	,960	,010	,010	1,091	,010	,010	820,00	130,00	130,00	EISLER	NC	10	468	58	H	1
20	1,723	,003	,003	,963	,005	,005	1,094	,005	,005	700,00	60,00	60,00	DYCK	PRL	23	50	69	S	-0
21	1,726	0,000	0,000	,969	0,000	0,000	1,100	-0,000	-0,000	490,00	110,00	110,00	CRAWFO	BAPS	3	25	58	H	-0
22	1,737	0,000	0,000	,989	0,000	0,000	1,120	-0,000	-0,000	680,00	30,00	30,00	STEINB	KIEVCONF		443	59	H	6
23	1,737	0,000	0,000	,989	0,000	0,000	1,120	-0,000	-0,000	850,00	100,00	100,00	STEINB	CERNCONF		147	58	H	6
24	1,742	,011	,011	,998	,020	,020	1,129	,020	,020	592,00	22,00	22,00	BINFOR	PR	183	1134	69	H	-0
25	1,750	,003	,003	1,013	,005	,005	1,144	,005	,005	640,00	70,00	70,00	DYCK	PRL	23	50	69	S	-0
26	1,777	,003	,003	1,063	,005	,005	1,194	,005	,005	580,00	70,00	70,00	DYCK	PRL	23	50	69	S	-0
27	1,790	0,000	0,000	1,088	0,000	0,000	1,220	-0,000	-0,000	520,00	20,00	20,00	STEINB	KIEVCONF		443	59	H	6
28	1,795	0,000	0,000	1,098	0,000	0,000	1,230	-0,000	-0,000	260,00	4,00	4,00	STEINB	CERNCONF			58	P	6
29	1,795	0,000	0,000	1,098	0,000	0,000	1,230	-0,000	-0,000	270,00	4,00	4,00	STEINB	CERNCONF			58	P	6
30	1,796	,010	,010	1,100	,020	,020	1,232	,020	,020	210,00	80,00	80,00	BROWN	PR	108	1036	57	P	-0
31	1,798	,010	,010	1,103	,020	,020	1,235	,020	,020	485,00	35,00	35,00	BINFOR	PR	183	1134	69	H	-0
32	1,819	,010	,010	1,145	,020	,020	1,277	,020	,020	447,00	28,00	28,00	BINFOR	PR	183	1134	69	H	-0
33	1,844	,010	,010	1,194	,020	,020	1,326	,020	,020	367,00	33,00	33,00	BINFOR	PR	183	1134	69	H	-0
34	1,848	,006	,006	1,200	,012	,012	1,332	,012	,012	290,00	50,00	50,00	EISLER	NC	10	468	58	P	1
35	1,898	,006	,006	1,300	,013	,013	1,433	,013	,013	320,00	60,00	60,00	EISLER	NC	10	468	58	P	1
36	1,930	,024	,024	1,367	,050	,050	1,500	,050	,050	334,00	19,00	19,00	DAHL	PR	163	1377	67	H	6
37	1,934	0,000	0,000	1,375	0,000	0,000	1,508	-0,000	-0,000	214,00	23,00	23,00	YODER	PR	132	1778	63	S	-0
38	1,973	0,000	0,000	1,457	0,000	0,000	1,590	-0,000	-0,000	214,00	21,00	21,00	GOUSSU	NC	A42	606	66	H	-0
39	1,985	,024	,024	1,481	,050	,050	1,615	,050	,050	208,00	25,00	25,00	DAHL	PR	163	1377	67	H	-0
40	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	170,00	30,00	30,00	SMITH	ATHECONF		67	63	H	-0
41	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	199,00	12,00	12,00	DAHL	PR	163	1377	67	H	6
42	2,093	,022	,022	1,716	,050	,050	1,850	,050	,050	181,00	12,00	12,00	DAHL	PR	163	1377	67	H	6
43	2,133	,022	,022	1,805	,050	,050	1,940	,050	,050	189,00	15,00	15,00	DAHL	PR	163	1377	67	H	-0

44	2,137	,022	,022	1,815	,050	,050	1,950	,050	,050	182,00	11,00	11,00	DAHL	PR	163	1377	67	H	-0
45	2,150	,022	,022	1,845	,050	,050	1,980	,050	,050	184,00	20,00	20,00	DAHL	PR	163	1377	67	H	-0
46	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	150,00	30,00	30,00	SMITH	ATHECONF		67	63	H	-0
47	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	179,00	15,00	15,00	DAHL	PR	163	1377	67	H	-0
48	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	182,00	17,00	17,00	DAHL	PR	163	1377	67	H	6
49	2,219	,021	,021	2,005	,050	,050	2,140	,050	,050	162,00	20,00	20,00	DAHL	PR	163	1377	67	H	-0
50	2,223	,021	,021	2,015	,050	,050	2,150	,050	,050	192,00	11,00	11,00	DAHL	PR	163	1377	67	H	6
51	2,265	,021	,021	2,115	,050	,050	2,250	,050	,050	172,00	10,00	10,00	DAHL	PR	163	1377	67	H	6
52	2,306	,020	,020	2,215	,050	,050	2,350	,050	,050	174,00	14,00	14,00	DAHL	PR	163	1377	67	H	6
53	2,310	,020	,020	2,225	,050	,050	2,360	,050	,050	110,00	20,00	20,00	SMITH	ATHECONF		67	63	H	-0
54	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	106,00	12,00	12,00	DAHL	PR	163	1377	67	H	-0
55	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	120,00	11,00	11,00	MILLER	PR	B140	360	65	H	-0
56	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	-0,000	90,00	25,00	25,00	GOUSSU	NC	A47	383	67	H	-0
57	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	109,00	15,00	15,00	DAHL	PR	163	1377	67	H	-0
58	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	31,00	14,00	14,00	WANGLE	PR	B137	414	65	H	-0
59	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	84,00	12,00	12,00	DAHL	PR	163	1377	67	H	-0
60	2,604	,018	,018	2,994	,050	,050	3,130	,050	,050	94,00	12,00	12,00	DAHL	PR	163	1377	67	H	-0
61	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	87,00	10,00	10,00	DAHL	PR	163	1377	67	H	-0
62	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	67,00	12,00	12,00	DAHL	PR	163	1377	67	H	-0
63	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	49,00	9,00	9,00	DAHL	PR	163	1377	67	H	-0
64	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	61,30	7,00	7,00	WEISBA	KIEVCONF			70	H	-0
65	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	26,00	8,00	8,00	BUDAGO	KIEVCONF			70	P	-0
66	3,487	0,000	0,000	5,862	0,000	0,000	6,000	-0,000	-0,000	23,50	4,00	4,00	CRENNE	PRL	18	86	67	H	-0
67	3,970	0,000	0,000	7,782	0,000	0,000	7,920	-0,000	-0,000	27,00	-0,00	-0,00	EHRLIC	PR	152	1194	66	H	-0

01/10/71
REACTION 24 PI+ P = L K0 (BACKWARD)

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,613			,768			,897	THRESHOLD											
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	2,00	,45	,45	BEUSCH	NP	B19	546	70	S	23
2	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	,83	,16	,16	PEPIN	PL	B26	35	67	S	23
3	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	,83	,16	,16	BEUSCH	NP	B19	546	70	S	23
4	3,487	0,000	0,000	5,862	0,000	0,000	6,000	-0,000	-0,000	1,50	,50	,50	CRENNE	PRL	18	86	67	H	25
5	3,541	0,000	0,000	6,062	0,000	0,000	6,200	-0,000	-0,000	,50	,12	,12	BEUSCH	NP	B19	546	70	S	23
6	3,747	0,000	0,000	6,862	0,000	0,000	7,000	-0,000	-0,000	,33	,07	,07	PEPIN	PL	B26	35	67	S	23
7	3,747	0,000	0,000	6,862	0,000	0,000	7,000	-0,000	-0,000	,33	,07	,07	BEUSCH	NP	B19	546	70	S	23
8	4,839	0,000	0,000	11,861	0,000	0,000	12,000	-0,000	-0,000	,05	,02	,02	PEPIN	PL	B26	35	67	S	23
9	4,839	0,000	0,000	11,861	0,000	0,000	12,000	-0,000	-0,000	,05	,02	,02	BEUSCH	NP	B19	546	70	S	23

01/10/71
REACTION 25 PI+ P = L (SK +,+) ...

N	ECMS	DE+	DE-	TLAB	DT+	Y+	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	3,243			4,987			5,125	THRESHOLD											
1	6,915	0,000	0,000	24,861	0,00	0,000	25,000	-0,000	-0,000	2,00	1,00	1,00	WATERS	NP	B17	445	70	H	-0

01/10/71
REACTION 26 PI+ P = L AXI+ ...

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	3,870			7,363			7,502	THRESHOLD						

1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000		,70		,70	,70		WATERS	NP	B17	445	70	H	+0		

01/10/71
REACTION 27 PI= P = L AXIO ,,,

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	3,862			7,331			7,470	THRESHOLD											
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000		,70		,70	,70		WATERS	NP	B17	445	70	H	+0		

01/10/71
REACTION 28 PI= P = (L / SO) K+ ,,,

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,749			1,011			1,142	THRESHOLD											
1	2,900	,019	,019	3,863	,060	,060	4,000	,060	,060	370,00	50,00	50,00	BANNIK	DUBN3682			68	P	+0
2	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	422,00	127,00	127,00	BIGI	NC	33	1265	64	H	+0
3	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	350,00	75,00	75,00	WATERS	NP	B17	445	70	H	28

01/10/71
REACTION 29 PI= P = (L / SO) K0 ,,,

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,613			,768			,897	THRESHOLD											
1	2,900	,019	,019	3,863	,060	,060	4,000	,060	,060	520,00	40,00	40,00	BANNIK	DUBN3682			68	P	+0
2	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	472,00	48,00	48,00	BIGI	NC	33	1265	64	H	+0
3	4,601	,306	,306	10,661	1,500	1,500	10,800	1,500	1,500	320,00	80,00	110,00	FEHBEL	NC	28	1214	63	H	+0

01/10/71
REACTION 30 PI= P = (L / SO) K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,613			,768			,897	THRESHOLD											
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	+0,000	117,00	39,00	39,00	WANGLE	PR	B137	414	65	H	25
2	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	+0,000	90,00	+0,00	+0,00	BARTSC	NC	443	1010	66	H	+0
3	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	40,00	+0,00	+0,00	BERTAN	PR	130	786	63	H	+0
4	3,487	0,000	0,000	5,862	0,000	0,000	6,000	-0,000	+0,000	41,00	4,00	4,00	CRENNE	PRL	18	86	67	H	+0
5	3,487	0,000	0,000	5,862	0,000	0,000	6,000	-0,000	+0,000	43,50	6,00	6,00	BERTOL	LNC	2	149	69	S	22
6	3,989	0,000	0,000	7,862	0,000	0,000	8,000	-0,000	+0,000	26,50	4,00	4,00	BERTOL	LNC	2	149	69	S	22
7	3,989	0,000	0,000	7,862	0,000	0,000	8,000	-0,000	+0,000	20,00	6,00	6,00	OZAKI	BNL	1	5185	70	V	22
8	4,435	0,000	0,000	9,861	0,000	0,000	10,000	-0,000	+0,000	20,30	3,00	3,00	BERTOL	LNC	2	149	69	S	22
9	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	26,00	-0,00	-0,00	BIGI	NC	33	1265	64	H	+0
10	4,682	0,000	0,000	11,061	0,000	0,000	11,200	-0,000	+0,000	18,60	3,00	3,00	BERTOL	LNC	2	149	69	S	22
11	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	1,30	-0,00	+0,00	WATERS	THESWISC			69	H	18

01/10/71

REACTION 31 PI+ P + (L / S0) KS ,,,

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	1,613			,768			,897	THRESHOLD						
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	200,00	17,00	17,00	WATERS NP B17 445 70 H	28

01/10/71
REACTION 32 PI+ P + S(+,-) AL ,,,

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	3,384			5,485			5,622	THRESHOLD						
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	4,70	1,50	1,50	WATERS NP B17 445 70 H	+0

01/10/71
REACTION 33 PI+ P + S(+,-) AS(+,+) ,,,

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	3,318			5,249			5,387	THRESHOLD						
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	1,00	,60	,60	WATERS NP B17 445 70 H	+0

01/10/71
REACTION 34 PI+ P + S+ K+ ,,,

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	1,962			1,433			1,567	THRESHOLD						
1	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	92,00	41,00	41,00	BIGI NC 33 1265 64 H	+0
2	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	86,00	18,00	18,00	WATERS NP B17 445 70 H	28

01/10/71
REACTION 35 PI+ P + S+ K0 ,,,

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	1,827			1,159			1,292	THRESHOLD						
1	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	97,00	17,00	17,00	BIGI NC 33 1265 64 H	+0

01/10/71
REACTION 36 PI+ P + S+ KS ,,,

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM

	1,827			1,159			1,292	THRESHOLD											
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	=0,000	=0,000	43,00	9,00	9,00	WATERS	NP	B17	445	70	H	28

01/10/71
REACTION 37 P1= P = S= K= ,,,

N	ECMS	DE=	DE-	TLAB	DT=	DT-	PLAB	DP=	DP-	SIGMA	DS=	DS-	REFERENCE						COM
	1,691			,905			1,035	THRESHOLD											
1	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	101,00	52,00	52,00	BIGI	NC	33	1265	64	H	=0
2	6,915	0,000	0,000	24,861	0,000	0,000	25,000	=0,000	=0,000	72,00	12,00	12,00	WATERS	NP	B17	445	70	H	28

01/10/71
REACTION 38 P1= P = S= K=

N	ECMS	DE=	DE-	TLAB	DT=	DT-	PLAB	DP=	DP-	SIGMA	DS=	DS-	REFERENCE						COM
	1,691			,905			1,035	THRESHOLD											
1	1,691	,002	,002	,905	,004	,004	1,035	,004	,004	20,00	12,00	5,00	WOLF	RMP	33	439	61	H	25
2	1,692	,002	,002	,906	,004	,004	1,036	,004	,004	64,00	20,00	20,00	WOLF	RMP	33	439	61	H	25
3	1,692	,002	,002	,907	,004	,004	1,037	,004	,004	64,00	20,00	20,00	WOLF	RMP	33	439	61	H	25
4	1,693	,002	,002	,909	,004	,004	1,039	,004	,004	40,00	16,00	16,00	WOLF	RMP	33	439	61	H	25
5	1,694	,002	,002	,910	,004	,004	1,040	,004	,004	64,00	20,00	20,00	WOLF	RMP	33	439	61	H	25
6	1,694	,002	,002	,911	,004	,004	1,041	,004	,004	86,00	24,00	24,00	WOLF	RMP	33	439	61	H	25
7	1,695	,002	,002	,912	,004	,004	1,042	,004	,004	56,00	20,00	20,00	WOLF	RMP	33	439	61	H	25
8	1,696	,002	,002	,914	,004	,004	1,044	,004	,004	92,00	20,00	20,00	WOLF	RMP	33	439	61	H	25
9	1,697	,002	,002	,915	,004	,004	1,045	,004	,004	68,00	20,00	20,00	WOLF	RMP	33	439	61	H	25
10	1,697	,002	,002	,916	,004	,004	1,046	,004	,004	100,00	28,00	28,00	WOLF	RMP	33	439	61	H	25
11	1,698	,002	,002	,917	,004	,004	1,047	,004	,004	84,00	24,00	24,00	WOLF	RMP	33	439	61	H	25
12	1,698	,002	,002	,918	,004	,004	1,048	,004	,004	124,00	24,00	24,00	WOLF	RMP	33	439	61	H	25
13	1,699	,002	,002	,919	,004	,004	1,049	,004	,004	116,00	24,00	24,00	WOLF	RMP	33	439	61	H	25
14	1,700	,002	,002	,921	,004	,004	1,051	,004	,004	104,00	24,00	24,00	WOLF	RMP	33	439	61	H	25
15	1,700	,002	,002	,922	,004	,004	1,052	,004	,004	100,00	24,00	24,00	WOLF	RMP	33	439	61	H	25
16	1,701	,002	,002	,923	,004	,004	1,053	,004	,004	100,00	24,00	24,00	WOLF	RMP	33	439	61	H	25
17	1,721	,005	,005	,960	,010	,010	1,091	,010	,010	90,00	40,00	40,00	LEIPUN	PR	109	1358	58	H	=0
18	1,721	,005	,005	,960	,010	,010	1,091	,010	,010	250,00	70,00	70,00	EISLER	NC	10	468	58	H	1
19	1,737	0,000	0,000	,989	0,000	0,000	1,120	=0,000	=0,000	220,00	30,00	30,00	STEINB	CERNCONF		147	58	H	=0
20	1,741	,005	,005	,997	,010	,010	1,128	,010	,010	218,00	11,00	11,00	GOOD	PR	183	1142	69	H	=0
21	1,764	0,000	0,000	1,039	0,000	0,000	1,170	=0,000	=0,000	231,00	6,30	6,30	DOYLE	PR	165	1482	68	H	=0
22	1,791	0,000	0,000	1,090	=0,000	=0,000	1,222	0,000	0,000	200,00	24,00	24,00	KRAEME	CERNCONF		273	62	D	=0
23	1,791	,005	,005	1,090	,010	,010	1,222	,010	,010	270,00	28,00	28,00	CRAWFO	PRL	3	394	59	H	=0
24	1,796	,010	,010	1,100	,020	,020	1,232	,020	,020	170,00	40,00	40,00	BROWN	PR	108	1036	57	P	=0
25	1,798	,005	,005	1,103	,009	,009	1,235	,009	,009	235,00	17,00	17,00	GOOD	PR	183	1142	69	H	=0
26	1,819	,008	,008	1,145	,015	,015	1,277	,015	,015	209,00	14,00	14,00	GOOD	PR	183	1142	69	H	=0
27	1,844	,008	,008	1,193	,015	,015	1,325	,015	,015	245,00	21,00	21,00	GOOD	PR	183	1142	69	H	=0
28	1,846	,006	,006	1,200	,012	,012	1,332	,012	,012	130,00	30,00	30,00	EISLER	NC	10	468	58	P	1
29	1,898	,006	,006	1,300	,013	,013	1,433	,013	,013	230,00	40,00	40,00	EISLER	NC	10	468	58	P	1
30	1,930	,024	,024	1,367	,050	,050	1,500	,050	,050	242,00	14,00	14,00	DAHL	PR	163	1377	67	H	6
31	1,973	0,000	0,000	1,457	0,000	0,000	1,590	=0,000	=0,000	262,00	16,00	16,00	GOUSSU	NC	A42	606	66	H	=0
32	1,985	,024	,024	1,481	,050	,050	1,615	,050	,050	180,00	22,00	22,00	DAHL	PR	163	1377	67	H	=0
33	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	130,00	20,00	20,00	SMITH	ATHECONF		67	63	H	=0
34	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	153,00	9,00	9,00	DAHL	PR	163	1377	67	H	6
35	2,093	,022	,022	1,716	,050	,050	1,850	,050	,050	99,00	8,00	8,00	DAHL	PR	163	1377	67	H	6
36	2,133	,022	,022	1,805	,050	,050	1,940	,050	,050	98,00	10,00	10,00	DAHL	PR	163	1377	67	H	=0
37	2,137	,022	,022	1,815	,050	,050	1,950	,050	,050	99,00	7,00	7,00	DAHL	PR	163	1377	67	H	6
38	2,150	,022	,022	1,845	,050	,050	1,980	,050	,050	90,00	10,00	10,00	DAHL	PR	163	1377	67	H	=0
39	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	63,00	8,00	8,00	SMITH	ATHECONF		67	63	H	=0
40	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	78,00	9,00	9,00	DAHL	PR	163	1377	67	H	6
41	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	87,00	8,00	8,00	DAHL	PR	163	1377	67	H	=0

42	2,219	,021	,021	2,865	,050	,050	2,245	,050	,050	35,00	10,00	10,00	DAHL	PR	163	1377	67	M	-0
43	2,243	,021	,021	2,815	,050	,050	2,150	,050	,050	55,00	5,00	5,00	DAHL	PR	163	1377	67	M	6
44	2,265	,021	,021	2,115	,050	,050	2,250	,050	,050	57,00	5,00	5,00	DAHL	PR	163	1377	67	M	6
45	2,306	,020	,020	2,215	,050	,050	2,350	,050	,050	55,00	7,00	7,00	DAHL	PR	163	1377	67	M	6
46	2,340	,020	,020	2,225	,050	,050	2,360	,050	,050	37,00	5,00	5,00	SMITH	ATHECONF		67	63	M	-0
47	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	30,00	5,00	5,00	DAHL	PR	163	1377	67	M	-0
48	2,444	,011	,011	2,550	,025	,025	2,700	,050	,050	35,00	5,00	5,00	MILLER	PR	3140	360	65	M	-0
49	2,483	0,000	0,000	2,704	,000	0,000	2,750	+0,000	+0,000	22,00	10,00	10,00	SMITH	NC	A47	383	67	M	-0
50	2,505	,019	,019	2,730	,050	,050	2,860	,050	,050	22,00	7,00	7,00	DAHL	PR	163	1377	67	M	-0
51	2,525	0,000	0,000	2,621	,000	0,000	3,000	+0,000	+0,000	15,00	5,00	5,00	HAROLD	PR	B137	414	55	M	-0
52	2,560	,018	,018	2,837	,050	,05	3,010	,050	,050	22,00	4,00	4,00	DAHL	PR	163	1377	67	M	-0
53	2,604	,018	,018	2,8[illegible]	,050	,050	3,130	,050	,050	15,00	3,00	3,00	DAHL	PR	163	1377	67	M	-0
54	2,652	,018	,018	3,072	,050	,050	3,210	,050	,050	14,00	2,00	2,00	DAHL	PR	163	1377	67	M	-0
55	2,664	,016	,016	3,753	,050	,050	3,890	,050	,050	8,00	2,00	2,00	DAHL	PR	163	1377	67	M	-0
56	2,900	0,000	0,000	3,853	,000	0,000	4,000	+0,000	+0,000	9,00	3,00	3,00	BARTOS	NC	A43	1010	64	M	-0
57	2,951	,016	,016	4,022	,050	,050	4,160	,050	,050	4,50	1,50	1,50	DAHL	PR	163	1377	67	M	-0
58	3,207	0,000	0,000	4,843	0,000	0,000	5,000	+0,000	+0,000	4,00	2,10	2,10	WEISS	KIEVCONF			70	M	-0

01/10/71
REACTION 39 [illegible]

N	EQNS	DE*	DE-	TLAB	DT*	D*	PLAB	DP*	DP-	SIGMA	DS*	DS-	REFERENCE						COM
	1,835			1,[illegible]			1,307	THRESHOLD											
1	4,445	,127	,127	4,[illegible]	,000	,[illegible]	10,000	,000	,000	150,00	54,00	24,00	BIGI	NC	33	1265	64	M	-0

01/10/71
REACTION 40 P+ P = P+ K+ ...

N	EQNS	DE*	DE-	TLAB	DT*	D*	PLAB	DP*	DP-	SIGMA	DS*	DS-	REFERENCE						COM
	1,835			1,[illegible]			1,307	THRESHOLD											
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	+0,000	+0,000	56,00	6,00	6,00	WATERS	NP	B17	445	70	M	-0

01/10/71
REACTION 41 P+ P = S0 K0

N	EQNS	DE*	DE-	TLAB	DT*	D*	PLAB	DP*	DP-	SIGMA	DS*	DS-	REFERENCE						COM
	1,590			,904			1,034	THRESHOLD											
1	1,721	,005	,005	,960	,010	,010	1,091	,010	,010	350,00	90,00	90,00	LAIPON	PR	109	1358	58	M	-0
2	1,721	,005	,005	,960	,010	,010	1,091	,010	,010	250,00	100,00	100,00	EISLER	NC	10	468	58	M	1
3	1,726	0,000	0,000	,969	0,000	0,000	1,100	+0,000	+0,000	190,00	40,00	40,00	CRAWFO	BAPS	3	25	58	M	-0
4	1,737	0,000	0,000	,989	0,000	0,000	1,120	+0,000	+0,000	410,00	70,00	70,00	STEINB	CERNCONF		147	58	M	6
5	1,742	,011	,011	,995	,020	,020	1,129	,020	,020	262,00	15,00	15,00	BINFOR	PR	183	1134	69	M	-0
6	1,764	0,000	0,000	1,039	0,000	0,000	1,170	+0,000	+0,000	247,00	10,00	10,00	ANDERS	PR	152	1139	66	M	-0
7	1,791	,005	,005	1,090	,010	,010	1,222	,010	,010	390,00	37,00	37,00	CRAWFO	PRL	3	394	59	M	-0
8	1,796	,010	,010	1,100	,020	,020	1,232	,020	,020	150,00	60,00	60,00	BROWN	PR	108	1036	57	P	1
9	1,798	,010	,010	1,103	,020	,020	1,235	,020	,020	264,00	25,00	25,00	BINFOR	PR	183	1134	69	M	-0
10	1,819	,010	,010	1,145	,020	,020	1,277	,020	,020	249,00	20,00	20,00	BINFOR	PR	183	1134	69	M	-0
11	1,831	,051	,051	1,168	,099	,099	1,300	,100	,100	220,00	20,00	20,00	CROLIU	PR	155	1455	67	S	-0
12	1,844	,010	,010	1,194	,020	,020	1,326	,020	,020	209,00	25,00	25,00	BINFOR	PR	183	1134	69	M	-0
13	1,848	,006	,006	1,200	,012	,012	1,332	,012	,012	120,00	40,00	40,00	EISLER	NC	10	468	58	P	1
14	1,898	,006	,006	1,300	,013	,013	1,433	,013	,013	240,00	60,00	60,00	EISLER	NC	10	468	58	P	1
15	1,930	,024	,024	1,367	,050	,050	1,500	,050	,050	167,00	22,00	22,00	DAHL	PR	163	1377	67	M	6

16	1,934	0,000	0,000	1,375	0,000	0,000	1,508	-0,000	-0,000	177,00	-0,00	-0,00	YODER	PR	132	1778	63	S -0
17	1,973	0,000	0,000	1,457	0,000	0,000	1,590	-0,000	-0,000	178,00	22,00	22,00	GOUSSU	NC	A42	606	66	M -0
18	1,985	,024	,024	1,481	,050	,050	1,615	,050	,050	111,00	20,00	20,00	DAHL	PR	163	1377	67	M -0
19	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	96,00	12,00	12,00	SMITH	ATHECONF		67	63	M -0
20	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	110,00	14,00	14,00	DAHL	PR	163	1377	67	M 6
21	2,093	,022	,022	1,716	,050	,050	1,850	,050	,050	140,00	17,00	17,00	DAHL	PR	163	1377	67	M 6
22	2,133	,022	,022	1,805	,050	,050	1,940	,050	,050	126,00	15,00	15,00	DAHL	PR	163	1377	67	M -0
23	2,137	,022	,022	1,815	,050	,050	1,950	,050	,050	94,00	13,00	13,00	DAHL	PR	163	1377	67	M 6
24	2,150	,022	,022	1,845	,050	,050	1,980	,050	,050	116,00	15,00	15,00	DAHL	PR	163	1377	67	M -0
25	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	90,00	12,00	12,00	SMITH	ATHECONF		67	63	M -0
26	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	123,00	21,00	21,00	DAHL	PR	163	1377	67	M 6
27	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	113,00	18,00	18,00	DAHL	PR	163	1377	67	M -0
28	2,219	,021	,021	2,005	,050	,050	2,140	,050	,050	100,00	20,00	20,00	DAHL	PR	163	1377	67	M -0
29	2,223	,021	,021	2,015	,050	,050	2,150	,050	,050	114,00	13,00	13,00	DAHL	PR	163	1377	67	M 6
30	2,265	,021	,021	2,115	,050	,050	2,250	,050	,050	105,00	12,00	12,00	DAHL	PR	163	1377	67	M 6
31	2,306	,020	,020	2,215	,050	,050	2,350	,050	,050	113,00	18,00	18,00	DAHL	PR	163	1377	67	M 6
32	2,310	,020	,020	2,225	,050	,050	2,360	,050	,050	90,00	12,00	12,00	SMITH	ATHECONF		67	63	M -0
33	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	81,00	12,00	12,00	DAHL	PR	163	1377	67	M -0
34	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	85,00	12,00	12,00	MILLER	PR	B140	360	65	M -0
35	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	-0,000	95,00	25,00	25,00	GOUSSU	NC	A47	383	67	M -0
36	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	93,00	25,00	25,00	DAHL	PR	163	1377	67	M -0
37	2,564	0,000	0,000	2,801	0,000	0,000	2,940	-0,000	-0,000	88,00	23,00	23,00	WANGLE	PR	B137	414	65	M -0
38	2,960	,018	,018	2,874	,050	,050	3,010	,050	,050	74,00	12,00	12,00	DAHL	PR	163	1377	67	M -0
39	2,604	,018	,018	2,994	,050	,050	3,130	,050	,050	41,00	10,00	10,00	DAHL	PR	163	1377	67	M -0
40	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	50,00	6,00	6,00	DAHL	PR	163	1377	67	M -0
41	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	37,00	8,00	8,00	DAHL	PR	163	1377	67	M -0
42	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	42,00	8,00	8,00	DAHL	PR	163	1377	67	M -0
43	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	44,90	7,10	7,10	REISHA	KIEVCONF			70	M -0
44	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	17,00	7,00	7,00	BUDAGO	KIEVCONF			70	P -0
45	3,487	0,000	0,000	5,862	0,000	0,000	6,000	-0,000	-0,000	17,50	4,00	4,00	CRENNE	PRL	18	86	67	M -0
46	3,970	0,000	0,000	7,782	0,000	0,000	7,920	-0,000	-0,000	5,00	-0,00	-0,00	EHRLIC	PR	152	1194	66	M -0

01/10/71
REACTION 42 PI- P = AY KS ...

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	3,493			5,882			6,020	THRESHOLD										
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	5,50	2,00	2,00	WATERS	NP	B17	445	70	M -0

01/10/71
REACTION 43 PI- P = Z(1300)- K-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,794			1,096			1,227	THRESHOLD										
1	3,989	0,000	0,000	7,862	0,000	0,000	8,000	-0,000	-0,000	,20	,30	,10	ANDERS	PL	B29	136	69	S 18

01/10/71
REACTION 44 PI- P = XI- AS ...

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	3,956			7,721			7,859	THRESHOLD										
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	,40	,40	,40	WATERS	NP	B17	445	70	M -0

01/10/71
REACTION 45 PI- P = Z(1950)+ K+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,444			2,564			2,700	THRESHOLD						
1	3,989	0,000	0,000	7,862	0,000	0,000	8,000	-0,000	+0,000	1,40	1,90	,50	ANDERS PL 829 136 69 S	18

01/10/71
REACTION 46 PI- P = 2 PRONGS STRANGE PARTICLES

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	1,893			1,290			1,423	THRESHOLD						
1	2,269	0,000	0,000	2,125	0,000	0,000	2,260	-0,000	+0,000	750,00	40,00	40,00	REYNOL PR 184 1424 69 M	+0

01/10/71
REACTION 47 PI- P = 2 PRONGS (L / S0)

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	1,749			1,011			1,142	THRESHOLD						
1	6,199	0,000	0,000	19,861	0,000	0,000	20,000	-0,000	+0,000	290,00	150,00	150,00	BALEA RRP 15 587 70 M	+0

01/10/71
REACTION 48 PI- P = K0 K0 Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,070			1,665			1,799	THRESHOLD						
1	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	190,00	+0,00	+0,00	BERTAN PR 130 786 63 M	10

01/10/71
REACTION 49 PI- P = KS KS Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,070			1,665			1,799	THRESHOLD						
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	6,00	3,00	3,00	MILLER PR 8140 360 69 M	+0

01/10/71
REACTION 50 PI- P = P K- K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,930			1,366			1,499	THRESHOLD											
1	1,973	0,000	0,000	1,457	0,000	0,000	1,590	+0,000	+0,000	2,00	2,00	2,00	GOUSSU	NC	A42	606	66	M	+0
2	1,985	,024	,024	1,481	,050	,050	1,615	,050	,050	1,60	1,60	1,60	DAHL	PR	163	1377	67	M	+0
3	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	3,00	1,00	1,00	SMITH	ATHECONF		67	63	M	+0
4	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	11,80	5,30	5,30	DAHL	PR	163	1377	67	M	6
5	2,093	,022	,022	1,716	,050	,050	1,850	,050	,050	42,00	10,00	10,00	DAHL	PR	163	1377	67	M	6
6	2,133	,022	,022	1,805	,050	,050	1,940	,050	,050	30,00	6,00	6,00	DAHL	PR	163	1377	67	M	+0
7	2,137	,022	,022	1,815	,050	,050	1,950	,050	,050	38,00	9,00	9,00	DAHL	PR	163	1377	67	M	6
8	2,150	,022	,022	1,845	,050	,050	1,980	,050	,050	31,00	8,00	8,00	DAHL	PR	163	1377	67	M	+0
9	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	30,00	9,00	9,00	SMITH	ATHECONF		67	63	M	+0
10	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	35,00	6,00	6,00	DAHL	PR	163	1377	67	M	+0
11	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	40,00	13,00	13,00	DAHL	PR	163	1377	67	M	6
12	2,219	,021	,021	2,005	,050	,050	2,140	,050	,050	30,00	12,00	12,00	DAHL	PR	163	1377	67	M	+0
13	2,223	,021	,021	2,015	,050	,050	2,150	,050	,050	33,00	8,00	8,00	DAHL	PR	163	1377	67	M	6
14	2,265	,021	,021	2,115	,050	,050	2,250	,050	,050	70,00	11,00	11,00	DAHL	PR	163	1377	67	M	6
15	2,300	,020	,020	2,205	,050	,050	2,350	,050	,050	77,00	16,00	16,00	DAHL	PR	163	1377	67	M	6
16	2,310	,020	,020	2,225	,050	,050	2,360	,050	,050	30,00	3,00	3,00	SMITH	ATHECONF		67	63	M	+0
17	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	52,00	9,00	9,00	DAHL	PR	163	1377	67	M	+0
18	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	81,00	13,00	13,00	MILLER	PR	B140	360	65	M	+0
19	2,463	0,000	0,000	2,614	0,000	0,000	2,750	+0,000	+0,000	78,00	16,00	16,00	GOUSSU	NC	A42	383	67	M	+0
20	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	90,00	20,00	20,00	DAHL	PR	163	1377	67	M	+0
21	2,556	0,000	0,000	2,864	0,000	0,000	3,000	+0,000	+0,000	66,00	16,00	16,00	WANGLE	PR	B137	414	65	M	+0
22	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	85,00	14,00	14,00	DAHL	PR	163	1377	67	M	+0
23	2,604	,018	,018	2,994	,050	,050	3,130	,050	,050	54,00	8,00	8,00	DAHL	PR	163	1377	67	M	+0
24	2,629	,018	,018	3,063	,050	,050	3,200	,050	,050	65,10	5,30	5,30	CHUNG	PRL	18	100	67	M	+0
25	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	83,00	7,00	7,00	DAHL	PR	163	1377	67	M	+0
26	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	80,00	13,00	13,00	DAHL	PR	163	1377	67	M	+0
27	2,900	0,000	0,000	3,863	0,000	0,000	4,000	+0,000	+0,000	98,00	250,00	250,00	BARTSC	NC	A43	1010	66	M	+0
28	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	54,00	9,00	9,00	DAHL	PR	163	1377	67	M	+0
29	2,964	,016	,016	4,063	,050	,050	4,200	,050	,050	65,70	7,90	7,90	CHUNG	PRL	18	100	67	M	+0
30	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	20,00	+0,00	+0,00	BERTAN	PR	130	786	63	M	+0
31	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	91,80	12,20	12,20	WEISHA	KIEVCONF			70	M	+0
32	3,970	0,000	0,000	7,782	0,000	0,000	7,920	+0,000	+0,000	29,00	+0,00	+0,00	EHRLIC	PR	152	1194	66	M	+0

01/10/71

REACTION 51 P1+ P = P K+ KS

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,930			1,366			1,499	THRESHOLD											
1	3,487	0,000	0,000	5,862	0,000	0,000	6,000	-0,000	+0,000	10,00	+0,00	+0,00	CRENNE	PL	B28	136	68	M	+0

01/10/71

REACTION 52 P1+ P = P A1+ = P K+ K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,008			1,530			1,664	THRESHOLD											
1	2,202	,106	,106	1,965	,249	,249	2,100	,250	,250	0,00	1,40	1,40	DAHL	PR	163	1377	67	M	+0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	0,00	,90	,90	DAHL	PR	163	1377	67	M	+0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	0,00	,70	,70	DAHL	PR	163	1377	67	M	+0

01/10/71

REACTION 53 PI- P = P A2- = P K AK

N	ECMS	DF+	DF-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,238			2,051			2,186	THRESHOLD											
1	2,900	,065	,065	3,863	,200	,200	4,000	,200	,200	20,00	5,00	5,00	CHUNG	PRL	15	325	65	H	10
2	6,204	0,000	0,000	19,891	0,000	0,000	20,030	-0,000	-0,000	,10	-0,00	-0,00	FOLEY	PRL	26	413	71	V	10

01/10/71
REACTION 54 PI- P = P A2- = P K- K0

N	ECMS	DF+	DF-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,238			2,051			2,186	THRESHOLD											
1	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	18,20	4,00	4,00	DAHL	PR	163	1377	67	H	-0
2	2,629	,018	,018	3,063	,050	,050	3,200	,050	,050	18,00	4,00	4,00	CHUNG	PRL	18	100	67	H	-0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	17,10	4,70	4,70	DAHL	PR	163	1377	67	H	-0
4	2,964	,016	,016	4,063	,050	,050	4,200	,050	,050	17,00	5,00	5,00	CHUNG	PRL	18	100	67	H	-0
5	5,595	0,000	0,000	15,061	0,000	0,000	16,200	-0,000	-0,000	2,00	1,50	1,50	DEUTSC	CERN	DPH	43	70	H	-0

01/10/71
REACTION 55 PI- P = P G- = P (K AK)-

N	ECMS	DF+	DF-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,608			3,007			3,143	THRESHOLD											
1	3,487	0,000	0,000	5,862	0,000	0,000	6,000	-0,000	-0,000	4,80	-0,00	-0,00	CRENNE	PL	B28	136	68	H	-0

01/10/71
REACTION 56 PI- P = (P / N) Y AY ...

N	ECMS	DF+	DF-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	3,171			4,739			4,877	THRESHOLD											
1	4,435	,127	,127	9,861	,600	,600	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	NC	33	1265	64	H	-0
2	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	16,00	5,00	5,00	WATERS	NP	817	445	70	H	27

01/10/71
REACTION 57 PI- P = (P / N) (A2- / A20) = (P / N) (KS K- / KS KS)

N	ECMS	DF+	DF-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,238			2,051			2,186	THRESHOLD											
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	24,00	7,00	7,00	WEISBA	KIEVCONF			70	H	-0

01/10/71
REACTION 58 PI- P = N K+ K-

N	EGMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,927			1,360			1,493	THRESHOLD										
1	1,973	0,000	0,000	1,457	0,000	0,000	1,590	-0,000	+0,000	11,00	6,00	6,00	GOUSSU	NC	A42	606	66	M -0
2	2,113	,201	,201	1,761	,454	,454	1,895	,455	,455	39,00	10,00	10,00	DAHL	PR	163	1377	67	M 6
3	2,202	0,000	0,000	1,965	0,000	0,000	2,100	-0,000	+0,000	139,00	14,00	14,00	BOYD	PR	166	145	68	M 26
4	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	84,00	47,00	47,00	MILLER	PR	B140	360	65	M -0
5	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	+0,000	250,00	90,00	90,00	GOUSSU	NC	A47	383	67	M -0
6	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	+0,000	56,00	29,00	29,00	WANGLE	PR	B137	414	65	M -0
7	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	195,00	60,00	60,00	DAHL	PR	163	1377	67	M 6
8	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	370,00	130,00	130,00	DAHL	PR	163	1377	67	M -0
9	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	+0,000	124,00	72,00	72,00	BARTSC	NC	A43	1010	66	M -0
10	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	110,00	+0,00	+0,00	BERTAN	PR	130	786	63	M -0
11	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	+0,000	118,50	50,70	50,70	WEISBA	KIEVCONF			70	M -0

REACTION 59 PI+ P = N K0 K0

N	EGMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,935			1,377			1,510	THRESHOLD										
1	1,973	0,000	0,000	1,457	0,000	0,000	1,590	-0,000	+0,000	41,00	16,00	16,00	GOUSSU	NC	A42	606	66	M -0
2	2,760	,023	,023	1,556	,050	,050	1,690	,050	,050	29,00	11,00	11,00	SMITH	ATHECONF		67	63	M -0
3	2,161	,021	,021	1,915	,050	,050	2,050	,050	,050	65,00	18,00	18,00	SMITH	ATHECONF		67	63	M -0
4	2,310	,020	,020	2,225	,050	,050	2,360	,050	,050	99,00	18,00	18,00	SMITH	ATHECONF		67	63	M -0
5	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	+0,000	108,00	35,00	35,00	GOUSSU	NC	A47	383	67	M -0
6	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	+0,000	176,00	62,00	62,00	BARTSC	NC	A43	1010	66	M -0
7	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	71,00	18,00	18,00	BUDAGO	KIEVCONF			70	P -0
8	3,970	0,000	0,000	7,782	0,000	0,000	7,926	-0,000	+0,000	52,00	+0,00	+0,00	EHRLIC	PR	152	1194	66	M -0

01/10/71

REACTION 60 PI+ P = N K0 K0

N	EGMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,935			1,377			1,510	THRESHOLD										
1	1,973	0,000	0,000	1,457	0,000	0,000	1,590	-0,000	+0,000	10,00	4,00	4,00	GOUSSU	NC	A42	606	66	M -0
2	1,985	,024	,024	1,481	,050	,050	1,615	,050	,050	4,30	2,60	2,60	DAHL	PR	163	1377	67	M -0
3	2,020	,023	,023	1,554	,050	,050	1,690	,050	,050	12,70	5,00	5,00	DAHL	PR	163	1377	67	M 6
4	2,093	,022	,022	1,710	,050	,050	1,850	,050	,050	7,10	3,50	3,50	DAHL	PR	163	1377	67	M 6
5	2,133	,022	,022	1,800	,050	,050	1,940	,050	,050	10,00	3,10	3,10	DAHL	PR	163	1377	67	M -0
6	2,137	,022	,022	1,815	,050	,050	1,950	,050	,050	15,60	5,00	5,00	DAHL	PR	163	1377	67	M 6
7	2,150	,022	,022	1,845	,050	,050	1,980	,050	,050	21,00	6,00	6,00	DAHL	PR	163	1377	67	M -0
8	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	16,10	6,00	6,00	DAHL	PR	163	1377	67	M -0
9	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	23,00	9,00	9,00	DAHL	PR	163	1377	67	M 6
10	2,219	,021	,021	2,005	,050	,050	2,140	,050	,050	28,00	11,00	11,00	DAHL	PR	163	1377	67	M -0
11	2,243	,021	,021	2,015	,050	,050	2,150	,050	,050	21,50	5,00	5,00	DAHL	PR	163	1377	67	M 6
12	2,265	,021	,021	2,115	,050	,050	2,250	,050	,050	33,00	7,00	7,00	DAHL	PR	163	1377	67	M -0
13	2,306	,020	,020	2,215	,050	,050	2,350	,050	,050	38,00	9,00	9,00	DAHL	PR	163	1377	67	M 6
14	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	30,00	6,00	6,00	DAHL	PR	163	1377	67	M -0
15	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	33,00	7,00	7,00	MILLER	PR	B140	360	65	M -0
16	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	+0,000	47,00	9,00	9,00	GOUSSU	NC	A47	383	67	M -0
17	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	58,00	14,00	14,00	DAHL	PR	163	1377	67	M -0
18	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	+0,000	52,00	13,00	13,00	WANGLE	PR	B137	414	65	M -0
19	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	40,00	8,00	8,00	DAHL	PR	163	1377	67	M -0
20	2,604	,090	,090	2,994	,250	,250	3,130	,250	,250	49,00	7,00	7,00	DAHL	PR	163	1377	67	M 6

21	2,629	,018	,018	3,063	,050	,050	3,200	,050	,050	45,30	4,10	4,10	CHUNG	PRL	18	100	67	M	-0
22	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	45,00	5,00	5,00	DAHL	PR	163	1377	67	M	-0
23	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	42,00	8,00	8,00	DAHL	PR	163	1377	67	M	-0
24	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	44,00	15,00	15,00	BARTSC	NC	A43	1010	66	M	-0
25	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	32,00	6,00	6,00	DAHL	PR	163	1377	67	M	-0
26	2,964	,016	,016	4,063	,050	,050	4,200	,050	,050	36,60	5,10	5,10	CHUNG	PRL	18	100	67	M	-0
27	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	22,20	5,10	5,10	WEISBA	KIEVCONF			70	M	-0
28	3,487	0,000	0,000	5,862	0,000	0,000	6,000	-0,000	-0,000	10,00	-0,00	-0,00	CRENNE	PL	R28	136	68	M	-0
29	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	3,70	2,10	2,10	WATERS	THESWISC			69	M	-0

01/10/71
REACTION 61 PI- P = N KS KL

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,935			1,377			1,510	THRESHOLD											
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	23,00	10,00	10,00	MILLER	PR	8140	360	65	M	-0

01/10/71
REACTION 62 PI- P = N PHI

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,959			1,425			1,559	THRESHOLD											
1	1,999	,054	,054	1,511	,115	,115	1,645	,115	,115	29,00	15,00	15,00	DAHL	PR	163	1377	67	M	-0
2	2,159	,111	,111	1,865	,254	,254	2,000	,255	,255	30,00	8,00	8,00	DAHL	PR	163	1377	67	M	-0
3	2,202	0,000	0,000	1,965	0,000	0,000	2,100	-0,000	-0,000	19,00	9,00	8,00	BOYD	PR	166	1458	68	M	-0
4	2,215	0,000	0,000	1,995	0,000	0,000	2,130	-0,000	-0,000	24,00	8,00	8,00	BOLLIN	NC	A60	541	69	T	-0
5	2,407	,029	,029	2,469	,075	,075	2,605	,075	,075	0,00	9,00	9,00	DAHL	PR	163	1377	67	M	-0
6	2,893	,090	,090	2,964	,250	,250	3,100	,250	,250	6,00	8,00	8,00	DAHL	PR	163	1377	67	M	-0
7	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	15,00	20,00	20,00	DAHL	PR	163	1377	67	M	-0
8	4,649	0,000	0,000	10,901	0,000	0,000	11,040	-0,000	-0,000	,13	,03	,03	HYAMS	NP	B22	189	70	S	30

01/10/71
REACTION 63 PI- P = N PHI = N K+ K-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,959			1,425			1,559	THRESHOLD											
1	2,202	0,000	0,000	1,965	0,000	0,000	2,100	-0,000	-0,000	9,00	4,50	4,00	BOYD	PR	166	1458	68	M	-0
2	2,215	0,000	0,000	1,995	0,000	0,000	2,130	-0,000	-0,000	11,40	3,60	3,60	BOLLIN	NC	A60	541	69	T	-0

01/10/71
REACTION 64 PI- P = N TE (K AK) = N KS KS

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,000			1,512			1,645	THRESHOLD											
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	7,90	2,00	2,00	DAHL	PR	163	1377	67	M	-0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	7,50	2,50	2,50	DAHL	PR	163	1377	67	M	-0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	9,00	3,80	3,80	DAHL	PR	163	1377	67	M	-0

01/10/71
REACTION 65 PI= P + N S(1070) + N KS KS

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,000			1,512			1,645	THRESHOLD											
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	4,60	1,60	1,00	BEUSCH	PL	B25	357	67	S	-0
2	3,487	0,000	0,000	5,862	0,000	0,000	6,000	-0,000	-0,000	1,50	-0,00	-0,00	CRENNE	PRL	16	1025	66	H	-0
3	3,747	0,000	0,000	6,862	0,000	0,000	7,000	-0,000	-0,000	1,80	,60	,60	BEUSCH	PL	B25	357	67	S	-0
4	4,839	0,000	0,000	11,861	0,000	0,000	12,000	-0,000	-0,000	,55	,16	,12	BEUSCH	PL	B25	357	67	S	-0

01/10/71
REACTION 66 PI= P + N F + N K AK

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,200			1,959			2,094	THRESHOLD											
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	88,00	33,00	33,00	WANGLE	PR	B137	414	65	H	-0

01/10/71
REACTION 67 PI= P + N F + N KS KS

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,200			1,959			2,094	THRESHOLD											
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	4,45	1,20	1,20	BEUSCH	PL	B25	357	67	S	-0
2	3,747	0,000	0,000	6,862	0,000	0,000	7,000	-0,000	-0,000	1,80	,60	,60	BEUSCH	PL	B25	357	67	S	-0
3	4,839	0,000	0,000	11,861	0,000	0,000	12,000	-0,000	-0,000	,68	,21	,27	BEUSCH	PL	B25	357	67	S	-0

01/10/71
REACTION 68 PI= P + N A2 + N K AK

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,240			2,054			2,189	THRESHOLD											
1	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	36,20	10,00	10,00	DAHL	PR	163	1377	67	H	-0
2	2,629	,018	,018	3,063	,050	,050	3,200	,050	,050	38,00	10,00	10,00	CHUNG	PRL	18	100	67	H	-0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	17,60	9,00	9,00	DAHL	PR	163	1377	67	H	-0
4	2,964	,016	,016	4,063	,050	,050	4,200	,050	,050	18,00	9,00	9,00	CHUNG	PRL	18	100	67	H	-0

01/10/71
REACTION 69 PI= P + N A2 + N KS KS

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,240			2,054			2,189	THRESHOLD						

1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	+0,000	3,40	1,50	1,00		BEUSCH	PL	A25	357	67	S	=0
2	3,747	0,000	0,000	6,862	0,000	0,000	7,000	+0,000	+0,000	2,00	,90	,70		BEUSCH	PL	A25	357	67	S	=0
3	4,839	0,000	0,000	11,861	0,000	0,000	12,000	+0,000	+0,000	,41	,33	,24		BEUSCH	PL	A25	357	67	S	=0

01/10/71
REACTION 70 PI- P = N KSKS(1440) = N AS KS

N	ECMS	DE-	DE+	TLAB	DT-	DT+	PLAB	DP-	DP+	SIGMA	DS-	DS+	REFERENCE						COM
	2,760			2,795			2,534	THRESHOLD											
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	1,10	,60	,50	BEUSCH	PL	A25	357	67	S	=0
2	3,747	0,000	0,000	6,862	0,000	0,000	7,000	+0,000	+0,000	1,10	,60	,70	BEUSCH	PL	A25	357	67	S	=0
3	4,839	0,000	0,000	11,861	0,000	0,000	12,000	+0,000	+0,000	,40	,21	,14	BEUSCH	PL	A25	357	67	S	=0

01/10/71
REACTION 71 PI- P = N F(1500) = N K AK

N	ECMS	DE-	DE+	TLAB	DT-	DT+	PLAB	DP-	DP+	SIGMA	DS-	DS+	REFERENCE						COM
	2,454			2,500			2,725	THRESHOLD											
1	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	0,00	4,00	4,00	DAHL	PR	163	1377	67	H	=0
2	2,900	,081	,081	3,463	,250	,250	4,000	,250	,250	0,00	5,50	5,50	DAHL	PR	163	1377	67	H	=0

01/10/71
REACTION 72 PI- P = N L AL

N	ECMS	DE-	DE+	TLAB	DT-	DT+	PLAB	DP-	DP+	SIGMA	DS-	DS+	REFERENCE						COM
	3,171			4,739			4,677	THRESHOLD											
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	,08	+0,00	+0,00	BEUSCH	PL	A28	211	68	S	=0
2	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	2,30	1,50	1,50	BUDAGO	KIEVCONF			70	P	=0
3	3,747	0,000	0,000	6,862	0,000	0,000	7,000	+0,000	+0,000	,27	,07	,07	BEUSCH	PL	A28	211	68	S	=0
4	4,839	0,000	0,000	11,861	0,000	0,000	12,000	+0,000	+0,000	,12	,05	,05	BEUSCH	PL	A28	211	68	S	=0

01/10/71
REACTION 73 PI- P = Y K PI

N	ECMS	DE-	DE+	TLAB	DT-	DT+	PLAB	DP-	DP+	SIGMA	DS-	DS+	REFERENCE						COM
	1,748			1,010			1,141	THRESHOLD											
1	2,463	,006	,006	2,614	,015	,015	2,750	,015	,015	1400,00	100,00	100,00	DAHL	NC	A49	1	67	H	=0

01/10/71
REACTION 74 PI- P = Y K(890)

N	ECMS	DE-	DE+	TLAB	DT-	DT+	PLAB	DP-	DP+	SIGMA	DS-	DS+	REFERENCE	COM

	2,004			1,525				1,658	THRESHOLD														
1	2,900	0,000	0,000	3,863	0,000	0,000		4,000	-0,000	-0,000	108,00	28,00	28,00		BARTSC	NC	A43	1010	66	W	-0		

01/10/71
REACTION 75 PI- P = L K- PI-

N	ECMS	DE-	DE+	TLAB	DT-	DT+	PLAB	DP-	DP+	SIGMA	DS-	DS+	REFERENCE						COM
	1,749			1,811			1,142	THRESHOLD											
1	1,798	,010	,010	1,103	,020	,020	1,235	,020	,020	0,00	6,00	6,00	BINFOR	PR	183	1134	69	W	-0
2	1,819	,010	,010	1,145	,020	,020	1,277	,020	,020	0,00	5,00	5,00	BINFOR	PR	183	1134	69	W	-0
3	1,844	,010	,010	1,194	,020	,020	1,326	,020	,020	4,00	11,00	2,80	BINFOR	PR	183	1134	69	W	-0
4	1,930	,024	,024	1,367	,050	,050	1,500	,050	,050	64,00	9,00	9,00	DAHL	PR	163	1377	67	W	6
5	1,973	0,000	0,000	1,457	0,000	0,000	1,590	-0,000	-0,000	75,00	10,00	10,00	GOUSSU	NC	A42	606	66	W	-0
6	1,980	,024	,024	1,481	,050	,050	1,615	,050	,050	86,00	13,10	13,10	DAHL	PR	163	1377	67	W	-0
7	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	69,00	9,00	9,00	SMITH	ATHECONF		67	63	W	-0
8	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	76,00	8,00	8,00	DAHL	PR	163	1377	67	W	6
9	2,093	,022	,022	1,716	,050	,050	1,850	,050	,050	96,00	10,00	10,00	DAHL	PR	163	1377	67	W	6
10	2,133	,022	,022	1,805	,050	,050	1,940	,050	,050	140,00	13,00	13,00	DAHL	PR	163	1377	67	W	-0
11	2,137	,022	,022	1,815	,050	,050	1,950	,050	,050	104,00	9,00	9,00	DAHL	PR	163	1377	67	W	-0
12	2,150	,022	,022	1,845	,050	,050	1,980	,050	,050	143,00	23,00	23,00	DAHL	PR	163	1377	67	W	-0
13	2,153	,033	,033	1,850	,075	,075	1,985	,075	,075	72,00	12,00	12,00	COLLEY	PR	128	1930	62	P	1
14	2,161	,021	,021	1,915	,050	,050	2,050	,050	,050	140,00	20,00	20,00	SMITH	ATHECONF		67	63	W	-0
15	2,161	,021	,021	1,915	,050	,050	2,050	,050	,050	152,00	14,00	14,00	DAHL	PR	163	1377	67	W	-0
16	2,161	,021	,021	1,915	,050	,050	2,050	,050	,050	170,00	17,00	17,00	DAHL	PR	163	1377	67	W	6
17	2,219	,021	,021	2,005	,050	,050	2,140	,050	,050	116,00	20,00	20,00	DAHL	PR	163	1377	67	W	-0
18	2,223	,021	,021	2,015	,050	,050	2,150	,050	,050	118,00	9,00	9,00	DAHL	PR	163	1377	67	W	6
19	2,265	,021	,021	2,115	,050	,050	2,250	,050	,050	106,00	8,00	8,00	DAHL	PR	163	1377	67	W	6
20	2,306	,020	,020	2,215	,050	,050	2,350	,050	,050	145,00	14,00	14,00	DAHL	PR	163	1377	67	W	6
21	2,310	,020	,020	2,225	,050	,050	2,360	,050	,050	100,00	10,00	10,00	SMITH	ATHECONF		67	63	W	-0
22	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	115,00	13,00	13,00	DAHL	PR	163	1377	67	W	-0
23	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	97,00	10,00	10,00	MILLER	PR	B140	360	65	W	-0
24	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	-0,000	117,00	20,00	20,00	GOUSSU	NC	A47	383	67	W	-0
25	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	138,00	20,00	20,00	DAHL	PR	163	1377	67	W	-0
26	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	114,00	14,00	14,00	DAHL	PR	163	1377	67	W	-0
27	2,604	,018	,018	2,994	,050	,050	3,130	,050	,050	97,00	10,00	10,00	DAHL	PR	163	1377	67	W	-0
28	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	95,00	8,00	8,00	DAHL	PR	163	1377	67	W	-0
29	2,664	,016	,016	3,753	,050	,050	3,890	,050	,050	99,00	13,00	13,00	DAHL	PR	163	1377	67	W	-0
30	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	88,00	11,00	11,00	DAHL	PR	163	1377	67	W	-0
31	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	64,50	7,50	7,50	WEISBA	KIEVCONF			70	W	-0
32	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	53,00	10,00	10,00	BUDAGO	KIEVCONF			70	P	-0
33	3,487	0,000	0,000	5,862	0,000	0,000	6,000	-0,000	-0,000	17,00	1,00	1,00	CRENNE	PRL	19	1212	67	W	-0
34	3,970	0,000	0,000	7,782	0,000	0,000	7,920	-0,000	-0,000	26,00	-0,00	-0,00	EHRLIC	PR	152	1194	66	W	-0
35	5,566	0,000	0,000	16,061	0,000	0,000	16,200	-0,000	-0,000	8,00	1,50	1,50	DEUTSC	CERN	DPH	43	70	W	-0

01/10/71
REACTION 75 PI- P = L K0 PI0

N	ECMS	DE-	DE+	TLAB	DT-	DT+	PLAB	DP-	DP+	SIGMA	DS-	DS+	REFERENCE						COM
	1,745			1,810			1,141	THRESHOLD											
1	1,798	,010	,010	1,103	,020	,020	1,235	,020	,020	4,00	17,00	3,00	BINFOR	PR	183	1134	69	W	-0
2	1,819	,010	,010	1,145	,020	,020	1,277	,020	,020	4,00	19,00	2,00	BINFOR	PR	183	1134	69	W	-0
3	1,844	,010	,010	1,194	,020	,020	1,326	,020	,020	15,00	23,00	11,70	BINFOR	PR	183	1134	69	W	-0
4	1,930	,024	,024	1,367	,050	,050	1,500	,050	,050	56,00	16,00	16,00	DAHL	PR	163	1377	67	W	6
5	1,973	0,000	0,000	1,457	0,000	0,000	1,590	-0,000	-0,000	160,00	26,00	26,00	GOUSSU	NC	A42	606	66	W	-0
6	1,986	,024	,024	1,481	,050	,050	1,615	,050	,050	91,00	22,00	22,00	DAHL	PR	163	1377	67	W	-0
7	2,120	,023	,023	1,556	,050	,050	1,690	,050	,050	77,00	18,00	18,00	SMITH	ATHECONF		67	63	W	-0
8	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	123,00	20,00	20,00	DAHL	PR	163	1377	67	W	6

9	2,093	,022	,022	1,716	,050	,050	1,850	,050	,050	192,00	27,00	27,00		DAHL	PR	163	1377	67	M	6
10	2,133	,022	,022	1,805	,050	,050	1,940	,050	,050	155,00	26,00	26,00		DAHL	PR	163	1377	67	M	-0
11	2,137	,022	,022	1,815	,050	,050	1,950	,050	,050	171,00	23,00	23,00		DAHL	PR	163	1377	67	M	6
12	2,150	,022	,022	1,845	,050	,050	1,980	,050	,050	163,00	36,00	36,00		DAHL	PR	163	1377	67	M	-0
13	2,161	,021	,021	1,915	,050	,050	2,050	,050	,050	120,00	20,00	20,00		SMITH		ATHECONF		67	M	-0
14	2,161	,021	,021	1,915	,050	,050	2,050	,050	,050	182,00	34,00	34,00		DAHL	PR	163	1377	67	M	6
15	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	164,00	26,00	26,00		DAHL	PR	163	1377	67	M	-0
16	2,219	,021	,021	2,005	,050	,050	2,140	,050	,050	88,00	28,00	28,00		DAHL	PR	163	1377	67	M	-0
17	2,223	,021	,021	2,015	,050	,050	2,150	,050	,050	174,00	21,00	21,00		DAHL	PR	163	1377	67	M	6
18	2,265	,021	,021	2,115	,050	,050	2,250	,050	,050	131,00	17,00	17,00		DAHL	PR	163	1377	67	M	6
19	2,306	,020	,020	2,215	,050	,050	2,350	,050	,050	187,00	29,00	29,00		DAHL	PR	163	1377	67	M	6
20	2,310	,020	,020	2,225	,050	,050	2,360	,050	,050	120,00	20,00	20,00		SMITH		ATHECONF		67	M	-0
21	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	91,00	16,00	16,00		DAHL	PR	163	1377	67	M	-0
22	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	132,00	18,00	18,00		MILLER	PR	B140	360	65	M	-0
23	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	-0,000	180,00	40,00	40,00		GOUSSU	NC	A47	383	67	M	-0
24	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	128,00	32,00	32,00		DAHL	PR	163	1377	67	M	-0
25	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	121,00	24,00	24,00		DAHL	PR	163	1377	67	M	-0
26	2,604	,018	,018	2,994	,050	,050	3,130	,050	,050	76,00	15,00	15,00		DAHL	PR	163	1377	67	M	-0
27	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	97,00	15,00	15,00		DAHL	PR	163	1377	67	M	-0
28	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	98,00	21,00	21,00		DAHL	PR	163	1377	67	M	-0
29	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	68,00	15,00	15,00		DAHL	PR	163	1377	67	M	-0
30	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	75,40	12,90	12,90		WEISBA		KIEVCONF		70	M	-0
31	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	72,00	16,00	16,00		BUDAGO		KIEVCONF		70	P	-0
32	3,970	0,000	0,000	7,782	0,000	0,000	7,920	-0,000	-0,000	37,00	-0,00	-0,00		EMRLIC	PR	152	1194	66	M	-0

01/10/71
REACTION 77 PI- P = L K0 Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,883			1,271			1,404	THRESHOLD											
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	116,00	18,00	18,00	MILLER	PR	B140	360	65	M	-0
2	3,970	0,000	0,000	7,782	0,000	0,000	7,920	-0,000	-0,000	59,00	-0,00	-0,00	EMRLIC	PR	152	1194	66	M	-0

01/10/71
REACTION 78 PI- P = L KS PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,748			1,010			1,141	THRESHOLD											
1	3,487	0,000	0,000	5,862	0,000	0,000	6,000	-0,000	-0,000	4,00	,50	,50	CRENNE	PRL	19	1212	67	M	-0

01/10/71
REACTION 79 PI- P = L K(890)0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,006			1,525			1,658	THRESHOLD											
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	98,40	7,40	7,40	DAHL	PR	163	1377	67	M	-0
2	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	53,00	8,00	8,00	MILLER	PR	B140	360	65	M	-0
3	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	-0,000	70,00	15,00	15,00	GOUSSU	NC	A47	383	67	M	-0
4	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	63,00	5,60	5,60	DAHL	PR	163	1377	67	M	-0
5	2,900	,081	,081	3,863	,230	,250	4,000	,250	,250	63,10	7,70	7,70	DAHL	PR	163	1377	67	M	-0
6	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	43,00	7,00	7,00	WEISBA		KIEVCONF		70	M	-0

01/10/71
REACTION 80 PI- P = L K(1400)0 = L (K PI)0

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE					COM
	2,516			2,753			2,890	THRESHOLD										
1	2,900	,065	,065	3,863	,200	,200	4,000	,200	,200	7,00	2,00	2,00	CHUNG	PRL	15	325	65	H 9
2	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	24,90	5,80	5,80	WEISBA	KIEVCONF			70	H -0

01/10/71
REACTION 81 PI- P = (L / SO) K- PI-

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE					COM
	1,749			1,011			1,142	THRESHOLD										
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	136,00	21,00	21,00	WANGLE	PR	B137	414	65	H -0
2	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	133,00	21,00	21,00	BARTSC	NC	A43	1010	66	H -0
3	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	30,00	-0,00	-0,00	BERTAN	PR	130	786	63	H -0

01/10/71
REACTION 82 PI- P = (L / SO) K0 PI0

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE					COM
	1,748			1,010			1,141	THRESHOLD										
1	1,964	,012	,012	1,437	,025	,025	1,570	,025	,025	160,00	30,00	30,00	ALITTI	AIX CONF		375	61	H -0
2	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	141,00	33,00	33,00	WANGLE	PR	B137	414	65	H -0
3	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	88,00	33,00	33,00	BARTSC	NC	A43	1010	66	H -0
4	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	120,00	-0,00	-0,00	BERTAN	PR	130	786	63	H -0
5	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	11,00	-0,00	-0,00	BIGI	NC	33	1265	64	H -0
6	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	3,40	2,70	2,70	WATERS	THESWIS			69	H -0

01/10/71
REACTION 83 PI- P = (L / SO) K0 Z0

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE					COM
	1,883			1,271			1,404	THRESHOLD										
1	2,900	,019	,019	3,863	,060	,060	4,000	,060	,060	290,00	20,00	20,00	BANNIK	DUBN3682			68	P -0
2	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	88,00	31,00	31,00	BARTSC	NC	A43	1010	66	H -0
3	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	90,00	-0,00	-0,00	BERTAN	PR	130	786	63	H -0
4	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	72,00	-0,00	-0,00	BIGI	NC	33	1265	64	H -0
5	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	4,60	3,20	3,20	WATERS	THESWIS			69	H -0

01/10/71
REACTION 84 PI- P = (L / SO) K (890)

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE					COM

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,006			1,525			1,658	THRESHOLD										
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	+0,000	67,00	14,00	14,00	WANGLE	PR	B137	414	65	M +0
2	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	4,00	+0,00	+0,00	WATERS	THESWISC			69	M 18

01/10/71
REACTION 85 PI+ P = (L / S0) K(1400)0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,516			2,753			2,890	THRESHOLD										
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	3,00	+0,00	+0,00	WATERS	THESWISC			69	M 18

01/10/71
REACTION 86 PI+ P = S(+,+) KS PI(+,+)

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,827			1,159			1,292	THRESHOLD										
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	3,40	6,70	6,70	WATERS	THESWISC			69	M 25

01/10/71
REACTION 87 PI+ P = S+ KU PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,827			1,159			1,292	THRESHOLD										
1	1,930	,024	,024	1,367	,050	,050	1,500	,050	,050	3,40	1,90	,90	DAHL	PR	163	1377	67	M 6
2	1,973	0,000	0,000	1,457	0,000	0,000	1,590	+0,000	+0,000	10,00	3,00	3,00	GOUSSU	NC	A42	606	66	M +0
3	1,985	,024	,024	1,481	,050	,050	1,615	,050	,050	17,20	5,30	5,30	DAHL	PR	163	1377	67	M +0
4	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	19,00	4,00	4,00	SMITH	ATHECONF		67	63	M +0
5	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	19,30	3,90	3,90	DAHL	PR	163	1377	67	M 6
6	2,093	,022	,022	1,716	,050	,050	1,850	,050	,050	34,00	5,00	5,00	DAHL	PR	163	1377	67	M 6
7	2,115	,053	,053	1,766	,120	,120	1,900	,120	,120	16,00	5,00	5,00	MARCH	PL	3	99	62	M .1
8	2,133	,022	,022	1,805	,050	,050	1,940	,050	,050	41,00	7,00	7,00	DAHL	PR	163	1377	67	M +0
9	2,137	,022	,022	1,815	,050	,050	1,950	,050	,050	31,00	5,00	5,00	DAHL	PR	163	1377	67	M 6
10	2,150	,022	,022	1,845	,050	,050	1,980	,050	,050	44,00	9,00	9,00	DAHL	PR	163	1377	67	M +0
11	2,153	,033	,033	1,850	,075	,075	1,985	,075	,075	34,00	9,00	9,00	COLLEY	PR	128	1930	69	P 1
12	2,164	,021	,021	1,873	,050	,050	2,000	,050	,050	25,00	5,00	5,00	SMITH	ATHECONF		67	63	M +0
13	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	41,00	8,00	8,00	DAHL	PR	163	1377	67	M 6
14	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	39,00	6,00	6,00	DAHL	PR	163	1377	67	M +0
15	2,202	0,000	0,000	1,965	0,000	0,000	2,100	-0,000	+0,000	38,00	10,00	10,00	MARCH	PL	3	99	62	M +0
16	2,219	,021	,021	2,005	,050	,050	2,140	,050	,050	33,00	14,00	14,00	DAHL	PR	163	1377	67	M +0
17	2,223	,021	,021	2,015	,050	,050	2,150	,050	,050	52,00	6,00	6,00	DAHL	PR	163	1377	67	M 6
18	2,265	,021	,021	2,115	,050	,050	2,250	,050	,050	62,00	6,00	6,00	DAHL	PR	163	1377	67	M 6
19	2,306	,020	,020	2,215	,05	,050	2,350	,050	,050	65,00	9,00	9,00	DAHL	PR	163	1377	67	M 6
20	2,310	,020	,020	2,225	,050	,050	2,360	,050	,050	37,00	5,00	5,00	SMITH	ATHECONF		67	63	M +0
21	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	39,00	7,00	7,00	DAHL	PR	163	1377	67	M +0
22	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	51,00	7,00	7,00	MILLER	PR	B140	360	65	M +0
23	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	+0,000	39,00	10,00	10,00	GOUSSU	NC	A47	383	67	M +0
24	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	37,00	11,00	11,00	DAHL	PR	163	1377	67	M +0
25	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	+0,000	44,00	11,00	11,00	WANGLE	PR	B137	414	65	M +0
26	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	50,00	9,00	9,00	DAHL	PR	163	1377	67	M +0
27	2,604	,018	,018	2,994	,050	,050	3,130	,050	,050	47,00	7,00	7,00	DAHL	PR	163	1377	67	M +0

28	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	43,00	5,00	5,00		DAHL	PR	163	1377	67	M	-0
29	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	42,00	8,00	8,00		DAHL	PR	163	1377	67	M	-0
30	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	21,00	7,00	7,00		BARTSC	NC	A43	1010	66	M	-0
31	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	40,00	7,00	7,00		DAHL	PR	163	1377	67	M	-0
32	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	30,00	-0,00	-0,00		BEHTAN	PR	130	786	63	M	-0
33	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	58,40	9,20	9,20		WEISBA	KIEVCONF			70	M	-0
34	3,970	0,000	0,000	7,782	0,000	0,000	7,920	-0,000	-0,000	5,00	-0,00	-0,00		EHRLIC	PR	152	1194	66	M	-0
35	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	0,00	-0,00	-0,00		BIGI	NC	33	1265	64	M	-0

01/10/71

REACTION 88 PI- P = S- (K PI)-

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	1,826			1,158			1,290	THRESHOLD											
1	2,111	0,000	0,000	1,756	0,000	0,000	1,890	-0,000	-0,000	170,00	30,00	30,00	ERWIN	AIX CONF			61	M	-0

01/10/71

REACTION 89 PI- P = S- K- PI0

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	1,826			1,158			1,290	THRESHOLD											
1	1,930	,024	,024	1,367	,050	,050	1,500	,050	,050	8,90	2,70	2,70	DAHL	PR	163	1377	67	M	6
2	1,973	0,000	0,000	1,457	0,000	0,000	1,590	-0,000	-0,000	15,00	4,00	4,00	GOUSSU	NC	A42	606	66	M	-0
3	1,985	,024	,024	1,481	,050	,050	1,615	,050	,050	13,20	3,10	3,10	DAHL	PR	163	1377	67	M	-0
4	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	17,00	4,00	4,00	SMITH	ATHECONF		67	63	M	-0
5	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	21,00	3,00	3,00	DAHL	PR	163	1377	67	M	6
6	2,093	,022	,022	1,716	,050	,050	1,850	,050	,050	38,00	5,00	5,00	DAHL	PR	163	1377	67	M	6
7	2,115	,053	,053	1,766	,120	,120	1,900	,120	,120	30,00	7,00	7,00	MARCH	PL	3	99	62	M	1
8	2,133	,022	,022	1,805	,050	,050	1,940	,050	,050	51,00	6,00	6,00	DAHL	PR	163	1377	67	M	-0
9	2,137	,022	,022	1,815	,050	,050	1,950	,050	,050	44,00	5,00	5,00	DAHL	PR	163	1377	67	M	6
10	2,150	,022	,022	1,845	,050	,050	1,980	,050	,050	50,00	9,00	9,00	DAHL	PR	163	1377	67	M	-0
11	2,161	,021	,021	1,915	,050	,050	2,050	,050	,050	45,00	8,00	8,00	SMITH	ATHECONF		67	63	M	-0
12	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	51,00	8,00	8,00	DAHL	PR	163	1377	67	M	6
13	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	52,00	6,00	6,00	DAHL	PR	163	1377	67	M	-0
14	2,202	0,000	0,000	1,965	0,000	0,000	2,100	-0,000	-0,000	32,00	7,00	7,00	MARCH	PL	3	99	62	M	-0
15	2,219	,021	,021	2,005	,050	,050	2,140	,050	,050	44,00	10,00	10,00	DAHL	PR	163	1377	67	M	-0
16	2,223	,021	,021	2,015	,050	,050	2,150	,050	,050	51,00	5,00	5,00	DAHL	PR	163	1377	67	M	6
17	2,265	,021	,021	2,115	,050	,050	2,250	,050	,050	56,00	5,00	5,00	DAHL	PR	163	1377	67	M	6
18	2,306	,020	,020	2,215	,050	,050	2,350	,050	,050	59,00	7,00	7,00	DAHL	PR	163	1377	67	M	6
19	2,310	,020	,020	2,225	,050	,050	2,360	,050	,050	37,00	5,00	5,00	SMITH	ATHECONF		67	63	M	-0
20	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	35,00	5,00	5,00	DAHL	PR	163	1377	67	M	-0
21	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	40,00	6,00	6,00	MILLER	PR	8140	360	65	M	-0
22	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	-0,000	42,00	10,00	10,00	GOUSSU	NC	A47	383	67	M	-0
23	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	27,00	6,00	6,00	DAHL	PR	163	1377	67	M	-0
24	2,556	,018	,018	2,864	,050	,050	3,000	,050	,050	48,00	9,00	9,00	DAHL	PR	163	1377	67	M	-0
25	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	40,00	6,00	6,00	DAHL	PR	163	1377	67	M	-0
26	2,604	,018	,018	2,994	,050	,050	3,130	,050	,050	29,00	4,00	4,00	DAHL	PR	163	1377	67	M	-0
27	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	28,00	3,00	3,00	DAHL	PR	163	1377	67	M	-0
28	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	34,00	5,00	5,00	DAHL	PR	163	1377	67	M	-0
29	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	12,00	5,00	5,00	BARTSC	NC	A43	1010	66	M	-0
30	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	28,00	4,00	4,00	DAHL	PR	163	1377	67	M	-0
31	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	60,00	-0,00	-0,00	BEHTAN	PR	130	786	63	M	-0
32	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	26,90	3,70	3,70	WEISBA	KIEVCONF			70	M	-0

01/10/71

REACTION 90 P1+ P + S+ K+ Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,761			1,431			1,564	THRESHOLD										
1	2,444	,011	,011	2,564	,026	,028	2,700	,028	,028	3,00	2,00	2,00	MILLER	PR	B140	360	65	H -0

01/10/71
REACTION 91 P1+ P + S+ K0 P1+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,835			1,175			1,307	THRESHOLD										
1	1,930	,024	,024	1,367	,050	,050	1,500	,050	,050	11,50	3,20	3,20	DAHL	PR	163	1377	67	H 6
2	1,973	0,000	0,000	1,457	0,000	0,000	1,590	-0,000	+0,000	21,00	5,00	5,00	GOUSSU	NC	A42	606	66	H -0
3	1,985	,024	,024	1,481	,050	,050	1,615	,050	,050	22,00	4,10	4,10	DAHL	PR	163	1377	67	H -0
4	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	36,00	5,00	5,00	SMITH	ATHECONF		67	63	H -0
5	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	52,00	6,00	6,00	DAHL	PR	163	1377	67	H 6
6	2,093	,022	,022	1,716	,050	,050	1,850	,050	,050	63,00	7,00	7,00	DAHL	PR	163	1377	67	H 6
7	2,115	,053	,053	1,766	,120	,120	1,900	,120	,120	52,00	9,00	9,00	MARCH	PL	3	99	62	H 1
8	2,133	,022	,022	1,805	,050	,050	1,940	,050	,050	110,00	9,00	9,00	DAHL	PR	163	1377	67	H -0
9	2,137	,022	,022	1,815	,050	,050	1,950	,050	,050	94,00	7,00	7,00	DAHL	PR	163	1377	67	H 6
10	2,150	,022	,022	1,845	,050	,050	1,980	,050	,050	100,00	13,00	13,00	DAHL	PR	163	1377	67	H -0
11	2,153	,033	,033	1,850	,075	,075	1,985	,075	,075	51,00	12,00	12,00	COLLEY	PR	128	1930	62	P 1
12	2,161	,021	,021	1,915	,050	,050	2,050	,050	,050	85,00	10,00	10,00	SMITH	ATHECONF		67	63	H -0
13	2,161	,021	,021	1,915	,050	,050	2,050	,050	,050	123,00	9,00	9,00	DAHL	PR	163	1377	67	H -0
14	2,161	,021	,021	1,915	,050	,050	2,050	,050	,050	120,00	12,00	12,00	DAHL	PR	163	1377	67	H 6
15	2,202	0,000	0,000	1,965	0,000	0,000	2,100	-0,000	+0,000	77,00	14,00	14,00	MARCH	PL	3	99	62	H -0
16	2,219	,021	,021	2,005	,050	,050	2,140	,050	,050	110,00	16,00	16,00	DAHL	PR	163	1377	67	H -0
17	2,223	,021	,021	2,015	,050	,050	2,150	,050	,050	133,00	8,00	8,00	DAHL	PR	163	1377	67	H 6
18	2,265	,021	,021	2,115	,050	,050	2,250	,050	,050	144,00	8,00	8,00	DAHL	PR	163	1377	67	H 6
19	2,306	,020	,020	2,215	,050	,050	2,350	,050	,050	138,00	11,00	11,00	DAHL	PR	163	1377	67	H 6
20	2,310	,020	,020	2,225	,050	,050	2,360	,050	,050	95,00	14,00	14,00	SMITH	ATHECONF		67	63	H -0
21	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	85,00	7,00	7,00	DAHL	PR	163	1377	67	H -0
22	2,444	,011	,011	2,564	,026	,028	2,700	,028	,028	118,00	10,00	10,00	MILLER	PR	B140	360	65	H -0
23	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	+0,000	84,00	20,00	20,00	GOUSSU	NC	A47	383	67	H -0
24	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	73,00	11,00	11,00	DAHL	PR	163	1377	67	H -0
25	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	+0,000	91,00	14,00	14,00	WANGLE	PR	B137	414	65	H -0
26	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	86,00	9,00	9,00	DAHL	PR	163	1377	67	H -0
27	2,604	,018	,018	2,994	,050	,050	3,130	,050	,050	69,00	6,00	6,00	DAHL	PR	163	1377	67	H -0
28	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	75,00	5,00	5,00	DAHL	PR	163	1377	67	H -0
29	2,804	,016	,016	3,753	,050	,050	3,890	,050	,050	80,00	7,00	7,00	DAHL	PR	163	1377	67	H -0
30	2,900	0,000	0,000	3,867	0,000	0,000	4,000	-0,000	+0,000	69,00	22,00	22,00	BARTSC	NC	A43	1010	66	H -0
31	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	44,00	5,00	5,00	DAHL	PR	163	1377	67	H -0
32	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	40,00	-0,00	+0,00	BERTAN	PR	130	786	63	H -0
33	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	+0,000	67,00	7,80	7,80	WEISHA	KIEVCONF			70	H -0
34	3,970	0,000	0,000	7,782	0,000	0,000	7,920	-0,000	+0,000	6,00	-0,00	+0,00	EHRLIC	PR	152	1194	66	H -0
35	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	9,00	-0,00	+0,00	BIGI	NC	33	1265	64	H -0

01/10/71
REACTION 92 P1+ P + S+ K(725)+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,922			1,350			1,483	THRESHOLD										
1	2,148	,033	,033	1,840	,075	,075	1,975	,075	,075	6,00	2,00	2,00	MILLER	PL	5	278	63	H -0
2	2,271	,039	,039	2,130	,095	,095	2,265	,095	,095	3,00	1,00	1,00	MILLER	PL	5	278	63	H -0

01/10/71
REACTION 93 PI- P = S- K(890)+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,067			1,703			1,837	THRESHOLD						
1	2,146	,033	,033	1,840	,075	,075	1,975	,075	,075	20,00	2,00	2,00	MILLER PL 5 278 63 H	-0
2	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	45,30	3,20	3,20	DAHL PR 163 1377 67 H	-0
3	2,271	,039	,039	2,130	,095	,095	2,265	,095	,095	30,00	2,00	2,00	MILLER PL 5 278 63 H	-0
4	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	50,00	6,00	6,00	MILLER PR B140 360 65 H	-0
5	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	23,10	2,70	2,70	DAHL PR 163 1377 67 H	-0
6	2,905	,081	,081	3,863	,250	,250	4,000	,250	,250	8,80	2,10	2,10	DAHL PR 163 1377 67 H	-0
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01/10/71
REACTION 94 PI- P = S) K+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	1,826			1,158			1,290	THRESHOLD						
1	1,95[illegible]	,024	,024	1,367	,050	,050	1,500	,050	,050	7,10	2,90	2,90	DAHL PR 163 1377 67 H	6
2	1,97[illegible]	[illegible]	,000	1,457	0,000	0,000	1,590	-0,000	-0,000	15,00	4,00	4,00	GOUSSU NC A42 606 66 H	-0
3	1,985	,024	,024	1,481	,050	,050	1,615	,050	,050	13,80	3,50	3,50	DAHL PR 163 1377 67 H	-0
4	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	10,00	3,00	3,00	SMITH ATHECONF 67 63 H	-0
5	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	11,10	3,00	3,00	DAHL PR 163 1377 67 H	6
6	2,093	,022	,022	1,716	,050	,050	1,850	,050	,050	30,00	5,00	5,00	DAHL PR 163 1377 67 H	6
7	2,115	,053	,053	1,766	,120	,120	1,900	,120	,120	47,00	12,00	12,00	MARCH PL 3 99 62 H	1
8	2,133	,022	,022	1,805	,050	,050	1,940	,050	,050	62,00	7,00	7,00	DAHL PR 163 1377 67 H	-0
9	2,137	,022	,022	1,815	,050	,050	1,950	,050	,050	67,00	7,00	7,00	DAHL PR 163 1377 67 H	6
10	2,15[illegible]	,022	,022	1,845	,050	,050	1,980	,050	,050	56,00	10,00	10,00	DAHL PR 163 1377 67 H	-0
11	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	48,00	9,00	9,00	SMITH ATHECONF 67 63 H	-0
12	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	68,00	11,00	11,00	DAHL PR 163 1377 67 H	6
13	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	66,00	7,00	7,00	DAHL PR 163 1377 67 H	-0
14	2,202	0,000	0,000	1,965	0,000	0,000	2,100	-0,000	-0,000	39,00	8,00	8,00	MARCH PL 3 99 62 H	-0
15	2,21[illegible]	,021	,021	2,005	,050	,050	2,140	,050	,050	63,00	13,00	13,00	DAHL PR 163 1377 67 H	-0
16	2,22[illegible]	,021	,021	2,015	,050	,050	2,150	,050	,050	78,00	7,00	7,00	DAHL PR 163 1377 67 H	6
17	2,26[illegible]	,021	,021	2,115	,050	,050	2,250	,050	,050	57,00	7,00	7,00	DAHL PR 163 1377 67 H	6
18	2,30[illegible]	,020	,020	2,215	,050	,050	2,350	,050	,050	67,00	10,00	10,00	DAHL PR 163 1377 67 H	6
19	2,31[illegible]	,020	,020	2,225	,050	,050	2,360	,050	,050	56,00	6,00	6,00	SMITH ATHECONF 67 63 H	-0
20	2,4[illegible]	,019	,019	2,474	,050	,050	2,610	,050	,050	53,00	7,00	7,00	DAHL PR 163 1377 67 H	-0
21	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	75,00	9,00	9,00	MILLER PR B140 360 65 H	-0
22	2,46[illegible]	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	-0,000	59,00	10,00	10,00	GOUSSU NC A47 383 67 H	-0
23	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	56,00	11,00	11,00	DAHL PR 163 1377 67 H	-0
24	2,56[illegible]	,018	,018	2,874	,050	,050	3,010	,050	,050	54,00	8,00	8,00	DAHL PR 163 1377 67 H	-0
25	[illegible]	,018	,018	2,994	,050	,050	3,130	,050	,050	46,00	6,00	6,00	DAHL PR 163 1377 67 H	-0
26	[illegible]	,018	,018	3,073	,050	,050	3,210	,050	,050	41,00	4,00	4,00	DAHL PR 163 1377 67 H	-0
27	[illegible]	,016	,016	3,753	,050	,050	3,890	,050	,050	43,00	7,00	7,00	DAHL PR 163 1377 67 H	-0
28	[illegible]	,016	,016	4,023	,050	,050	4,160	,050	,050	32,00	5,00	5,00	DAHL PR 163 1377 67 H	-0
29	[illegible]	[illegible]	[illegible]	4,862	0,000	0,000	5,000	-0,000	-0,000	31,00	4,60	4,60	WEISBA KIEVCONF 70 H	-0
30	[illegible]	,029	,029	4,962	,100	,100	5,100	,100	,100	28,00	11,00	11,00	BUDAGO KIEVCONF 70 P	-0
31	[illegible]	[illegible]	[illegible]	14,861	0,000	0,000	15,000	-0,000	-0,000	1,00	,50	,50	DEUTSC CERN DPH 43 70 H	-0

01/10/71
REACTION 95 PI- P = S0 K0 PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,825			1,157			1,289	THRESHOLD											
1	1,973	0,000	0,000	1,457	0,000	0,000	1,590	-0,000	+0,000	34,00	11,00	11,00	GOUSSU	NC	A42	606	66	H	+0
2	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	38,00	14,00	14,00	BUDAGO	KIEVCONF			70	P	+0

01/10/71
REACTION 96 PI+ P = S0 K(890)0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,082			1,692			1,826	THRESHOLD											
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	49,40	4,40	4,40	DAHL	PR	163	1377	67	H	+0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	36,40	3,60	3,80	DAHL	PR	163	1377	67	H	+0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	23,10	4,50	4,30	DAHL	PR	163	1377	67	H	+0
4	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	+0,000	14,10	3,20	3,20	WEISBA	KIEVCONF			70	H	+0

01/10/71
REACTION 97 PI+ P = S0 K(890)0 = S0 K+ PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,082			1,692			1,826	THRESHOLD											
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	52,00	8,00	8,00	MILLER	PR	B140	360	65	H	+0
2	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	+0,000	18,00	6,00	6,00	GOUSSU	NC	A47	383	67	H	+0

01/10/71
REACTION 98 PI+ P = S0 K(1400)0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,593			2,963			3,099	THRESHOLD											
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	+0,000	3,80	1,40	1,40	WEISBA	KIEVCONF			70	H	+0

01/10/71
REACTION 99 PI+ P = EN(L K+) PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,840			1,184			1,317	THRESHOLD											
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	+0,000	6,50	1,80	1,80	WEISBA	KIEVCONF			70	H	13
2	3,487	0,000	0,000	5,862	0,000	0,000	6,000	-0,000	+0,000	2,60	,50	,50	CRENNE	PRL	19	1212	67	H	21

01/10/71
REACTION 100 PI+ P = EN(L K0) PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,825			1,157			1,289	THRESHOLD											
1	1,973	0,000	0,000	1,457	0,000	0,000	1,590	-0,000	+0,000	34,00	11,00	11,00	GOUSSU	NC	A42	606	66	H	=0
2	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	38,00	14,00	14,00	BUDAGO	KIEVCONF			70	P	=0

01/10/71
REACTION 96 PI+ P = S0 K(890)0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,082			1,692			1,826	THRESHOLD											
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	49,40	4,40	4,40	DAHL	PR	163	1377	67	H	=0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	36,40	3,80	3,80	DAHL	PR	163	1377	67	H	=0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	23,10	4,30	4,30	DAHL	PR	163	1377	67	H	=0
4	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	+0,000	14,10	3,20	3,20	WEISHA	KIEVCONF			70	H	=0

01/10/71
REACTION 97 PI+ P = S0 K(890)0 = S0 K+ PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,082			1,692			1,826	THRESHOLD											
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	52,00	8,00	8,00	MILLER	PR	B140	360	65	H	=0
2	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	+0,000	18,00	6,00	6,00	GOUSSU	NC	A47	383	67	H	=0

01/10/71
REACTION 98 PI+ P = S0 K(1400)0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,593			2,963			3,099	THRESHOLD											
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	+0,000	3,80	1,40	1,40	WEISHA	KIEVCONF			70	H	=0

01/10/71
REACTION 99 PI+ P = ENT(L K+) PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,840			1,184			1,317	THRESHOLD											
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	+0,000	6,50	1,80	1,80	WEISHA	KIEVCONF			70	H	13
2	3,487	0,000	0,000	5,862	0,000	0,000	6,000	-0,000	+0,000	2,60	,50	,50	CRENNE	PRL	19	1212	67	H	21

01/10/71
REACTION 100 PI+ P = ENT(L K0) PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,840			1,184			1,317	THRESHOLD											
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	3,70	2,50	2,50	WEISBA	KIEVCONF			70	H	-0
2	3,487	0,000	0,000	5,862	0,000	0,000	6,000	-0,000	-0,000	,20	,20	,20	CRENNE	PRL	19	1212	67	H	-0

01/10/71
REACTION 101 PI- P = ENI S K)+ PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,840			1,184			1,317	THRESHOLD											
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	4,50	1,50	1,50	WEISBA	KIEVCONF			70	H	14

01/10/71
REACTION 102 PI- P = ENI S K)0 PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,835			1,175			1,308	THRESHOLD											
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	12,00	4,00	4,00	WEISBA	KIEVCONF			70	H	14
2	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	5,50	-0,00	-0,00	WEISBA	PL	825	302	67	H	14

01/10/71
REACTION 103 PI- P = XI- K K ,,,

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,313			2,232			2,367	THRESHOLD											
1	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	15,50	4,50	4,50	BIGI	NC	33	1265	64	H	-0

01/10/71
REACTION 104 PI- P = XI- K+ K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,313			2,232			2,367	THRESHOLD											
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	1,00	1,00	1,00	WANGLE	PR	B137	414	65	H	-0
2	2,629	,018	,018	3,063	,050	,050	3,200	,050	,050	1,90	,50	,50	DAHL	PR	163	1377	67	H	-0
3	2,900	,016	,016	3,863	,050	,050	4,000	,050	,050	1,80	,90	,90	DAHL	PR	163	1377	67	H	-0
4	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	15,00	5,00	5,00	BERTAN	PR	130	786	63	H	-0

01/10/71
REACTION 105 PI- P = XI0 K0 K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,310			2,225			2,361	THRESHOLD											
1	2,629	,018	,018	3,063	,050	,050	3,200	,050	,050	0,00	1,00	1,00	DAHL	PR	163	1377	67	M	=0
2	2,980	,016	,016	3,863	,050	,050	4,000	,050	,050	0,00	2,40	2,40	DAHL	PR	163	1377	67	M	=0

01/10/71
REACTION 106 PI- P = Y(1385)- K+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,879			1,262			1,395	THRESHOLD											
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	11,00	5,00	5,00	WANGLE	PR	B137	414	65	M	=0

01/10/71
REACTION 107 PI- P = Y(1385)- K+ = L K+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,879			1,262			1,395	THRESHOLD											
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	42,80	4,00	4,00	DAHL	PR	163	1377	67	M	=0
2	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	16,00	3,00	3,00	MILLER	PR	B140	360	65	M	=0
3	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	5,00	1,00	1,00	DAHL	PR	163	1377	67	M	=0
4	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	1,90	1,90	1,90	DAHL	PR	163	1377	67	M	=0
5	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	2,40	1,20	1,20	WEISBA	KIEVCONF			70	M	=0

01/10/71
REACTION 108 PI- P = Y(1385)0 K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,883			1,270			1,403	THRESHOLD											
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	18,00	11,00	11,00	WANGLE	PR	B137	414	65	M	=0
2	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	3,00	3,00	3,00	WATERS	THESWISC			69	M	=0

01/10/71
REACTION 109 PI- P = Y(1385)0 K0 = L K0 PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,883			1,270			1,403	THRESHOLD											
1	1,934	,005	,005	1,375	,011	,011	1,508	,011	,011	70,00	11,00	11,00	CURTIS	PR	132	1771	63	S	1
2	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	61,60	10,00	10,00	DAHL	PR	163	1377	67	M	=0
3	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	62,00	13,00	13,00	MILLER	PR	B140	360	65	M	=0
4	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	28,90	7,00	7,00	DAHL	PR	163	1377	67	M	=0
5	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	13,00	5,40	5,40	DAHL	PR	163	1377	67	M	=0
6	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	12,80	5,00	5,00	WEISBA	KIEVCONF			70	M	=0

01/10/71
REACTION 110 PI- P = Y(1385)0 K(1400)0

	2,310			2,225			2,361	THRESHOLD													
1	2,629	,018	,018	3,863	,050	,050	3,200	,050	,050	0,00	1,40	1,00	DAHL	PR	163	1377	67	H	-0		
2	2,900	,016	,016	3,863	,050	,050	4,000	,050	,050	0,00	2,40	2,40	DAHL	PR	163	1377	67	H	-0		

01/10/71
REACTION 106 PI- P = Y(1385)- K+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,879			1,262			1,395	THRESHOLD											
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	11,00	5,00	5,00	WANGLE	PR	8137	414	65	H	-0

01/10/71
REACTION 107 PI- P = Y(1385)- K+ = L K- PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,879			1,262			1,395	THRESHOLD											
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	42,80	4,00	4,00	DAHL	PR	163	1377	67	H	-0
2	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	16,00	3,00	3,00	MILLER	PR	8140	360	65	H	-0
3	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	5,00	1,00	1,00	DAHL	PR	163	1377	67	H	-0
4	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	1,90	1,90	1,90	DAHL	PR	163	1377	67	H	-0
5	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	2,40	1,20	1,20	WEISBA	KIEVCONF			70	H	-0

01/10/71
REACTION 108 PI- P = Y(1385)0 K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,883			1,270			1,403	THRESHOLD											
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	18,00	11,00	11,00	WANGLE	PR	8137	414	65	H	-0
2	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	3,00	3,00	3,00	WATERS	THESWISC			69	H	-0

01/10/71
REACTION 109 PI- P = Y(1385)0 K0 = L K0 PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,883			1,270			1,403	THRESHOLD											
1	1,934	,005	,005	1,375	,011	,011	1,508	,011	,011	70,00	11,00	11,00	CURTIS	PR	132	1771	63	S	1
2	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	61,60	10,00	10,00	DAHL	PR	163	1377	67	H	-0
3	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	62,00	13,00	13,00	MILLER	PR	8140	360	65	H	-0
4	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	28,90	7,00	7,00	DAHL	PR	163	1377	67	H	-0
5	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	13,00	5,40	5,40	DAHL	PR	163	1377	67	H	-0
6	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	12,80	5,00	5,00	WEISBA	KIEVCONF			70	H	-0

01/10/71
REACTION 110 PI- P = Y(1385)0 K(1400)0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,705			3,514			3,651	THRESHOLD											
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	3,00	-0,00	+0,00	WATERS	THESWISC			69	M	1B

01/10/71
REACTION 111 PI- P = Y(1405) K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,903			1,310			1,443	THRESHOLD											
	[illegible]			[illegible]			[illegible]			11,00	11,00	11,00	WANGLE	PR	8137	414	65	M	+0

01/10/71
REACTION 112 PI- P = Y(1405) K0 = (S PI) 0 K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,903			1,310			1,443	THRESHOLD											
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	51,00	4,70	4,70	DAHL	PR	163	1377	67	M	+0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	37,40	3,70	3,70	DAHL	PR	163	1377	67	M	+0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	30,30	4,00	4,60	DAHL	PR	163	1377	67	M	+0
4	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	+0,000	23,50	4,60	4,80	WEISBA	KIEV ONF			70	M	+0
5	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	2,00	-0,00	-0,00	WATERS	THESWISC			69	M	1B

01/10/71
REACTION 113 PI- P = Y(1405) K0 = (S+ PI- / S- PI+) K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,903			1,310			1,443	THRESHOLD											
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	37,00	4,00	4,00	MILLER	PR	8140	360	65	M	+0

01/10/71
REACTION 114 PI- P = Y(1405) K0 = S+ PI- K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,903			1,310			1,443	THRESHOLD											
1	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	+0,000	40,00	-0,00	-0,00	GOSSE	NC	447	383	67	M	+0

01/10/71
REACTION 115 PI- P = Y(1520) K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,018			1,551			1,685	THRESHOLD											
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	49,00	6,00	6,00	DAHL	PR	163	1377	67	M	=0
2	2,556	0,000	0,000	2,864	0,000	0,000	3,000	=0,000	=0,000	60,00	20,00	20,00	WANGLE	PR	B137	414	65	M	=0
3	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	47,00	7,00	7,00	DAHL	PR	163	1377	67	M	=0
4	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	28,00	7,00	7,00	DAHL	PR	163	1377	67	M	=0

01/10/71
REACTION 116 PI- P = Y(1520) K0 = ((P / N) AK)0 K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,018			1,551			1,685	THRESHOLD											
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	20,80	5,00	5,00	DAHL	PR	163	1377	67	M	=0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	24,20	5,00	5,00	DAHL	PR	163	1377	67	M	=0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	12,20	6,00	6,00	DAHL	PR	163	1377	67	M	=0

01/10/71
REACTION 117 PI- P = Y(1520) K0 = (S PI / P K-) K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,018			1,551			1,685	THRESHOLD											
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	42,00	7,00	7,00	MILLER	PR	B140	360	65	M	=0

01/10/71
REACTION 118 PI- P = Y(1520) K0 = (S PI) K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,018			1,551			1,685	THRESHOLD											
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	23,70	2,70	2,70	DAHL	PR	163	1377	67	M	=0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	18,70	2,10	2,10	DAHL	PR	163	1377	67	M	=0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	14,00	3,60	3,60	DAHL	PR	163	1377	67	M	=0
4	3,207	0,000	0,000	4,862	0,000	0,00	5,000	=0,000	=0,000	3,40	2,00	2,00	WEISBA	KIEVCONF			70	M	=0

01/10/71
REACTION 119 PI- P = Y(1670) K0 = (S PI) K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,168			1,885			2,020	THRESHOLD											
1	2,285	,020	,020	2,165	,050	,050	2,300	,050	,050	12,00	=0,00	=0,00	DAHL	PR	163	1377	67	M	=0

01/10/71
REACTION 120 PI- P = Y(1820) K0 = (N / P K) K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,318			2,244			2,379	THRESHOLD											
1	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	2,60	2,00	2,00	DAHL	PR	163	1377	67	H	=0
2	2,900	,061	,061	3,863	,250	,250	4,000	,250	,250	20,00	6,00	6,00	DAHL	PR	163	1377	67	H	=0

01/10/71
REACTION 121 PI+ P = 2 PRONGS K0 AK

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,065			1,653			1,787	THRESHOLD											
1	6,199	0,000	0,000	19,861	0,000	0,000	20,000	-0,000	+0,000	560,00	240,00	240,00	BALEA	WRP	5	587	70	H	=0

01/10/71
REACTION 122 PI+ P = 2 PRONGS KS KS

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,073			1,672			1,806	THRESHOLD											
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	52,00	5,00	5,60	WATERS	THESWIS			69	H	=0

01/10/71
REACTION 123 PI+ P = 2 PRONGS (L / S0) KS

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,893			1,290			1,423	THRESHOLD											
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	64,20	11,00	11,00	WATERS	THESWISC			69	H	=0

01/10/71
REACTION 124 PI+ P = P K+ K+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,065			1,655			1,789	THRESHOLD											
1	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	3,00	2,00	2,60	DAHL	PR	163	1377	67	H	=0
2	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	12,00	9,00	9,00	MILLER	PR	B140	360	65	H	=0
3	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	21,00	13,00	13,00	DAHL	PR	163	1377	67	H	=0
4	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	+0,000	28,00	20,00	20,00	WANGLF	PR	B137	414	65	H	=0
5	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	25,00	13,00	13,00	DAHL	PR	163	1377	67	H	=0
6	2,604	,090	,090	2,994	,250	,250	3,130	,250	,250	27,00	10,00	10,00	DAHL	PR	163	1377	67	H	6
7	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	38,00	10,00	10,00	DAHL	PR	163	1377	67	H	=0
8	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	63,00	20,00	20,00	DAHL	PR	163	1377	67	H	=0
9	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	+0,000	105,00	52,00	52,00	BARTSC	NC	A43	1010	66	H	=0
10	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	13,00	4,00	4,00	DAHL	PR	163	1377	67	H	=0
11	3,103	,051	,051	4,517	,170	,170	4,650	,170	,170	90,00	-0,00	-0,00	BERTAN	PR	130	786	63	H	=0
12	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	+0,000	123,20	35,70	35,70	WEISBA	KIEVCONF			70	H	=0
13	5,595	0,000	0,000	16,061	0,000	0,000	16,200	-0,000	+0,000	60,00	5,00	5,00	DEUTSC	CERN DPH		43	70	H	=0
14	5,968	0,000	0,000	18,361	0,000	0,000	18,500	-0,000	+0,000	27,50	8,50	8,50	HARRIN	KIEVCONF			70	H	=0

01/10/71
REACTION 125 PI- P = P K- K0 PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,065			1,653			1,787	THRESHOLD											
1	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	1,50	1,10	1,10	DAHL	PR	163	1377	67	H	=0
2	2,219	,021	,021	2,005	,050	,050	2,140	,050	,050	4,60	4,00	4,60	DAHL	PR	163	1377	67	H	=0
3	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	5,20	2,60	2,60	DAHL	PR	163	1377	67	H	=0
4	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	12,00	5,00	5,00	MILLER	PR	B140	360	65	H	=0
5	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	=0,000	30,00	10,00	10,00	GOUSSU	NC	A47	383	67	H	=0
6	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	25,00	10,00	10,00	DAHL	PR	163	1377	67	H	=0
7	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	=0,000	32,00	11,00	11,00	WANGLE	PR	B137	414	65	H	=0
8	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	28,00	7,00	7,00	DAHL	PR	163	1377	67	H	=0
9	2,604	,090	,090	2,994	,250	,250	3,130	,250	,250	23,00	5,00	5,00	DAHL	PR	163	1377	67	H	6
10	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	35,00	5,00	5,00	DAHL	PR	163	1377	67	H	=0
11	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	35,00	8,00	8,00	DAHL	PR	163	1377	67	H	=0
12	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	=0,000	64,00	21,00	21,00	BARTSC	NC	A43	1010	66	H	=0
13	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	75,00	20,00	20,00	DAHL	PR	163	1377	67	H	=0
14	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	90,00	=0,00	=0,00	BERTAN	PR	130	786	63	H	=0
15	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	=0,000	69,00	9,80	9,80	WEISBA	KIEVCONF			70	H	=0
16	4,682	0,000	0,000	11,061	0,000	0,000	11,200	-0,000	=0,000	70,00	17,00	17,00	PELOSI	VIENCONF			68	H	=0
17	5,595	0,000	0,000	16,061	0,000	0,000	16,200	-0,000	=0,000	49,00	6,00	6,00	DEUTSC	CERN DPH		43	70	H	=0

01/10/71
REACTION 126 PI- P = P K- K0 Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,200			1,960			2,095	THRESHOLD											
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	2,00	2,00	2,00	MILLER	PR	B140	360	65	H	=0

01/10/71
REACTION 127 PI- P = P K0 K0 PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,073			1,672			1,806	THRESHOLD											
1	2,444	0,000	0,000	2,564	0,000	0,000	2,700	-0,000	=0,000	20,00	0,00	0,00	GOUSSU	NC	A47	383	67	H	=0
2	2,900	0,000	0,000	3,863	0,000	0,000	4,000	=0,000	=0,000	51,00	14,00	14,00	BARTSC	NC	A43	1010	66	H	=0
3	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	20,00	=0,00	=0,00	BERTAN	PR	130	786	63	H	=0
4	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	=0,000	41,80	1,80	1,80	WEISBA	KIEVCONF			70	H	=0
5	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	21,00	9,00	9,00	BUDAGO	KIEVCONF			70	P	=0
6	3,970	0,000	0,000	7,782	0,000	0,000	7,920	-0,000	=0,000	41,00	=0,00	=0,00	EHRLIC	PR	152	1194	66	H	=0
7	4,682	0,000	0,000	11,061	0,000	0,000	11,200	-0,000	=0,000	48,00	15,00	15,00	PELOSI	VIENCONF			68	H	=0
8	5,595	0,000	0,000	16,061	0,000	0,000	16,200	-0,000	=0,000	57,00	14,00	14,00	DEUTSC	CERN DPH		43	70	H	=0

01/10/71
REACTION 128 PI- P = P K- K- PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM

	2,073			1,672			1,806	THRESHOLD												
1	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	2,10	1,60	1,60	DAHL	PR	163	1377	67	H	-0	
2	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	4,00	2,00	2,00	MILLER	PR	B140	360	65	H	-0	
3	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	10,00	5,00	5,00	WANGLE	PR	B137	414	65	H	-0	
4	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	6,10	2,60	2,80	DAHL	PR	163	1377	67	H	-0	
5	2,604	,090	,090	2,994	,250	,250	3,130	,250	,250	3,90	2,00	2,00	DAHL	PR	163	1377	67	H	6	
6	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	8,60	2,10	2,10	DAHL	PR	163	1377	67	H	-0	
7	2,864	,016	,016.	3,753	,050	,050	3,890	,050	,050	12,00	4,00	4,00	DAHL	PR	163	1377	67	H	-0	
8	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	16,00	9,00	9,00	BARTSC	NC	A43	1010	66	H	-0	
9	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	18,00	5,00	5,00	DAHL	PR	163	1377	67	H	-0	
10	5,595	0,000	0,000	16,061	0,000	0,000	16,200	-0,000	-0,000	24,00	5,00	5,00	DEUTSC	CERN	DPH	43	70	H	-0	

01/10/71
REACTION 129 PI- P = P KS KL PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,073			1,672			1,806	THRESHOLD											
1	2,219	,021	,021	2,005	,050	,050	2,140	,050	,050	2,50	2,50	2,50	DAHL	PR	163	1377	67	H	-0
2	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	3,10	1,40	1,40	DAHL	PR	163	1377	67	H	-0
3	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	2,00	2,00	2,00	MILLER	PR	B140	360	65	H	-0
4	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	9,00	5,00	5,00	DAHL	PR	163	1377	67	H	-0
5	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	9,00	4,00	4,00	WANGLE	PR	B137	414	65	H	-0
6	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	13,40	3,80	3,80	DAHL	PR	163	1377	67	H	-0
7	2,604	,090	,090	2,994	,250	,250	3,130	,250	,250	21,00	4,00	4,00	DAHL	PR	163	1377	67	H	6
8	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	14,20	2,70	2,70	DAHL	PR	163	1377	67	H	-0
9	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	32,00	6,00	6,00	DAHL	PR	163	1377	67	H	-0
10	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	20,00	10,00	10,00	BARTSC	NC	A43	1010	66	H	-0
11	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	14,00	5,00	5,00	DAHL	PR	163	1377	67	H	-0
12	5,595	0,000	0,000	16,061	0,000	0,000	16,200	-0,000	-0,000	9,00	10,00	10,00	DEUTSC	CERN	DPH	43	70	H	-0

01/10/71
REACTION 130 PI- P = P K(890)- K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,326			2,264			2,400	THRESHOLD											
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	13,00	9,00	9,00	WATERS	THESWIS			69	H	-0

01/10/71
REACTION 131 PI- P = P (K AK(890) / AK K(890))

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,326			2,264			2,400	THRESHOLD											
1	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	22,00	8,00	8,00	DAHL	PR	163	1377	67	H	-0
2	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	20,00	9,00	9,00	DAHL	PR	163	1377	67	H	-0
3	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	24,00	7,00	7,00	WEISBA	KIEVCONF			70	H	-0

01/10/71
REACTION 132 PI- P = (P / N) K(890) AK

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,326			2,264			2,400	THRESHOLD											
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	+0,000	103,00	48,00	48,00	BARTSC	NC	A43	1010	66	M	+0

01/10/71
REACTION 133 PI+ P = (P / N) K(890)(+,0) AK = (P / N) K AK PI

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,322			2,255			2,390	THRESHOLD											
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	+0,000	85,00	36,00	36,00	BARTSC	NC	A43	1010	66	M	+0

01/10/71
REACTION 134 PI+ P = N K+ K0 PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,071			1,666			1,800	THRESHOLD											
1	2,150	,022	,022	1,845	,050	,050	1,980	,050	,050	1,30	1,30	1,30	DAHL	PR	163	1377	67	M	+0
2	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	,73	,73	,73	DAHL	PR	163	1377	67	M	+0
3	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	16,60	4,80	4,80	DAHL	PR	163	1377	67	M	+0
4	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	20,00	7,00	7,00	MILLER	PR	B140	360	65	M	+0
5	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	+0,000	24,00	7,00	7,00	GOUSSU	NC	A47	383	67	M	+0
6	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	69,00	13,00	13,00	DAHL	PR	163	1377	67	M	+0
7	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	+0,000	7,00	5,00	5,00	WANGLE	PR	B137	414	65	M	+0
8	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	67,00	8,00	8,00	DAHL	PR	163	1377	67	M	+0
9	2,604	,090	,090	2,994	,250	,250	3,130	,250	,250	31,00	6,00	6,00	DAHL	PR	163	1377	67	M	6
10	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	45,00	6,00	6,00	DAHL	PR	163	1377	67	M	+0
11	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	74,00	15,00	15,00	DAHL	PR	163	1377	67	M	+0
12	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	+0,000	78,00	23,00	23,00	BARTSC	NC	A43	1010	66	M	+0
13	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	64,00	12,00	12,00	DAHL	PR	163	1377	67	M	+0
14	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	70,00	+0,00	+0,00	BERTAN	PR	130	786	63	M	+0
15	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	+0,000	76,40	9,80	9,80	WEISBA	KIEVCONF			70	M	+0
16	5,555	0,000	0,000	16,061	0,000	0,000	16,200	-0,000	+0,000	27,00	4,00	4,00	DEUTSC	CERN DPH		43	70	M	+0

01/10/71
REACTION 135 PI+ P = N K+ K0 PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,071			1,666			1,800	THRESHOLD											
1	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	14,00	4,40	4,40	DAHL	PR	163	1377	67	M	+0
2	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	9,00	5,00	5,00	MILLER	PR	B140	360	65	M	+0
3	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	+0,000	18,00	7,00	7,00	GOUSSU	NC	A47	383	67	M	+0
4	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	21,00	9,00	9,00	DAHL	PR	163	1377	67	M	+0
5	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	+0,000	18,00	8,00	8,00	WANGLE	PR	B137	414	65	M	+0
6	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	31,00	7,00	7,00	DAHL	PR	163	1377	67	M	+0
7	2,604	,090	,090	2,994	,250	,250	3,130	,250	,250	23,00	5,00	5,00	DAHL	PR	163	1377	67	M	6
8	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	36,00	5,00	5,00	DAHL	PR	163	1377	67	M	+0
9	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	71,00	14,00	14,00	DAHL	PR	163	1377	67	M	+0
10	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	+0,000	101,00	25,00	25,00	BARTSC	NC	A43	1010	66	M	+0
11	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	69,00	13,00	13,00	DAHL	PR	163	1377	67	M	+0

12	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	90,00	*0,00	*0,00		BERTAN	PR	130	786	63	H	*0
13	3,207	0,000	0,000	4,862	0,000	0,000	5,000	*0,000	*0,000	93,00	8,00	8,00		WEISBA	KIEVCONF			70	H	*0
14	5,595	0,000	0,000	16,061	0,000	0,000	16,200	*0,000	*0,000	32,00	4,00	4,00		DEUTSC	CERN DPH		43	70	H	*0

01/10/71
REACTION 136 PI- P = N K0 K0 PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,070			1,665			1,799	THRESHOLD										
1	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	84,00	18,00	18,00	BUDAGO	KIEVCONF			70	P *0

01/10/71
REACTION 137 PI- P = N K0 K0 Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,205			1,973			2,108	THRESHOLD										
1	2,900	,019	,019	3,863	,060	,060	4,000	,060	,060	140,00	30,00	30,00	BANNIK	DUBN3682			68	P *0
2	2,900	0,000	0,000	3,863	0,000	0,000	4,000	*0,000	*0,000	43,00	96,00	43,00	BARTSC	NC	A43	1010	66	H *0
3	3,970	0,000	0,000	7,782	0,000	0,000	7,920	*0,000	*0,000	70,00	*0,00	*0,00	EHRLIC	PR	152	1194	66	H *0

01/10/71
REACTION 138 PI- P = N KS KS PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,070			1,665			1,799	THRESHOLD										
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	*0,000	*0,000	17,00	7,00	7,00	WANGLE	PR	B137	414	65	H *0

01/10/71
REACTION 139 PI- P = N B = N (K+ PI- / K- PI-) K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,165			1,787			1,921	THRESHOLD										
1	2,392	,025	,025	2,429	,065	,065	2,565	,065	,065	7,50	4,00	4,00	DAHL	PR	163	1377	67	H *0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	7,00	2,00	2,00	DAHL	PR	163	1377	67	H *0
3	2,900	,061	,061	3,863	,250	,250	4,000	,250	,250	10,00	4,00	4,00	DAHL	PR	163	1377	67	H *0

01/10/71
REACTION 140 PI- P = N E = N (K+ PI- / K- PI) K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,360			2,348			2,484	THRESHOLD										
1	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	17,00	5,00	5,00	DAHL	PR	163	1377	67	H *0

2	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	3,00	2,00	2,00		DAHL	PR	163	1377	67	H	=0			

01/10/71
REACTION 141 PI- P = N F(1500) = N (K PI) K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,454			2,589			2,725	THRESHOLD											
1	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	0,00	1,00	1,00	DAHL	PR	163	1377	67	H	=0
2	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	0,00	1,50	1,50	DAHL	PR	163	1377	67	H	=0

01/10/71
REACTION 142 PI- P = N (K AK(890) / AK K(890))

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,323			2,258			2,393	THRESHOLD											
1	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	32,00	8,00	8,00	DAHL	PR	163	1377	67	H	=0
2	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	15,00	5,00	5,00	DAHL	PR	163	1377	67	H	=0
3	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	22,00	6,00	6,00	WEISBA	KIEVCONF			70	H	=0

01/10/71
REACTION 143 PI- P = Y K(1175) = Y K PI PI

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,291			2,177			2,313	THRESHOLD											
1	2,444	,019	,019	2,564	,050	,050	2,700	,050	,050	20,00	10,00	10,00	MILLER	PL	15		74	65	H	=0

01/10/71
REACTION 144 PI- P = Y K(890) PI

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,141			1,823			1,958	THRESHOLD											
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	105,00	33,00	33,00	BARTSC	NC	443	1010	66	H	=0

01/10/71
REACTION 145 PI- P = L K+ PI- PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,884			1,273			1,405	THRESHOLD											
1	1,965	,024	,024	1,481	,050	,050	1,615	,050	,050	1,40	1,40	1,40	DAHL	PR	163	1377	67	H	=0
2	2,020	,023	,023	1,556	,050	,050	1,690	,050	,050	,80	,80	,80	DAHL	PR	163	1377	67	H	=0
3	2,093	,022	,022	1,716	,050	,050	1,850	,050	,050	7,20	2,60	2,60	DAHL	PR	163	1377	67	H	6
4	2,133	,022	,022	1,805	,050	,050	1,940	,050	,050	8,00	2,00	2,00	DAHL	PR	163	1377	67	H	=0

5	2,137	,022	,022	1,815	,050	,050	1,950	,050	,050	7,00	2,40	2,40		DAHL	PR	163	1377	67	M -0
6	2,150	,022	,022	1,845	,050	,050	1,980	,050	,050	10,10	2,90	2,90		DAHL	PR	163	1377	67	M -0
7	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	19,00	6,00	6,00		DAHL	PR	163	1377	67	M 6
8	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	12,40	2,40	2,40		DAHL	PR	163	1377	67	M -0
9	2,219	,021	,021	2,005	,050	,050	2,140	,050	,050	10,50	4,80	4,80		DAHL	PR	163	1377	67	M -0
10	2,223	,021	,021	2,015	,050	,050	2,150	,050	,050	21,00	4,00	4,00		DAHL	PR	163	1377	67	M 6
11	2,265	,021	,021	2,115	,050	,050	2,250	,050	,050	38,00	5,00	5,00		DAHL	PR	163	1377	67	M 6
12	2,306	,020	,020	2,215	,050	,050	2,350	,050	,050	40,00	7,00	7,00		DAHL	PR	163	1377	67	M 6
13	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	57,00	8,00	8,00		DAHL	PR	163	1377	67	M -0
14	2,444	,019	,019	2,564	,050	,050	2,700	,050	,050	75,00	9,00	9,00		MILLER	PL	15	74	65	M -0
15	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	77,00	9,00	9,00		MILLER	PR	B140	360	65	M -0
16	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	-0,000	86,00	15,00	15,00		GOUSSU	NC	A47	383	67	M -0
17	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	65,00	11,00	11,00		DAHL	PR	163	1377	67	M -0
18	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	86,00	11,00	11,00		DAHL	PR	163	1377	67	M -0
19	2,604	,090	,090	2,994	,250	,250	3,130	,250	,250	74,00	8,00	8,00		DAHL	PR	163	1377	67	M 6
20	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	93,00	8,00	8,00		DAHL	PR	163	1377	67	M -0
21	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	103,00	13,00	13,00		DAHL	PR	163	1377	67	M -0
22	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	103,00	13,00	13,00		DAHL	PR	163	1377	67	M -0
23	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	131,00	11,70	11,70		WEISBA	KIEVCONF			70	M -0
24	3,246	,029	,029	4,962	,100	,100	5,100	,100	,100	91,00	20,00	20,00		BUDAGO	KIEVCONF			70	P -0
25	5,595	0,000	0,000	16,061	0,000	0,000	16,200	-0,000	-0,000	24,00	3,00	3,00		DEUTSC	CERN DPH		43	70	M -0

01/10/71
REACTION 146 PI- P → L K+ PI- Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,019			1,553			1,687	THRESHOLD											
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	14,00	4,00	4,00	MILLER	PR	B140	360	65	M	-0

01/10/71
REACTION 147 PI- P → L K0 PI+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,893			1,290			1,423	THRESHOLD											
1	1,965	,024	,024	1,481	,050	,050	1,615	,050	,050	1,10	1,10	1,10	DAHL	PR	163	1377	67	M	-0
2	2,020	,023	,023	1,556	,050	,050	1,692	,050	,050	1,70	1,20	1,20	DAHL	PR	163	1377	67	M	-0
3	2,093	,022	,022	1,714	,050	,05	1,850	,050	,050	5,30	2,20	2,20	DAHL	PR	163	1377	67	M	6
4	2,133	,022	,022	1,805	,050	,050	1,940	,050	,050	9,70	2,30	2,30	DAHL	PR	163	1377	67	M	-0
5	2,137	,022	,022	1,815	,050	,05	1,950	,050	,050	15,70	3,40	3,40	DAHL	PR	163	1377	67	M	6
6	2,150	,022	,022	1,845	,050	,050	1,980	,050	,050	11,50	3,10	3,10	DAHL	PR	163	1377	67	M	-0
7	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	21,00	6,00	6,00	DAHL	PR	163	1377	67	M	6
8	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	22,00	3,00	3,00	DAHL	PR	163	1377	67	M	-0
9	2,219	,021	,021	2,005	,050	,050	2,140	,050	,050	9,90	5,10	5,10	DAHL	PR	163	1377	67	M	-0
10	2,223	,021	,021	2,015	,050	,050	2,150	,050	,050	48,00	5,00	5,00	DAHL	PR	163	1377	67	M	6
11	2,265	,021	,021	2,115	,050	,05	2,250	,050	,050	46,00	5,00	5,00	DAHL	PR	163	1377	67	M	6
12	2,306	,020	,020	2,215	,050	,050	2,350	,050	,050	74,00	9,00	9,00	DAHL	PR	163	1377	67	M	6
13	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	59,10	7,00	7,00	DAHL	PR	163	1377	67	M	-0
14	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	83,00	9,00	9,00	MILLER	PR	B140	360	65	M	-0
15	2,444	,019	,019	2,564	,050	,050	2,700	,050	,050	81,00	9,00	9,00	MILLER	PL	15	74	65	M	-0
16	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	-0,000	97,00	15,00	15,00	GOUSSU	NC	A47	383	67	M	-0
17	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	93,00	15,00	15,00	DAHL	PR	163	1377	67	M	-0
18	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	72,00	17,00	17,00	WANGLE	PR	B137	414	65	M	-0
19	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	113,00	12,00	12,00	DAHL	PR	163	1377	67	M	-0
20	2,604	,090	,090	2,994	,250	,250	3,130	,250	,250	84,00	8,00	8,00	DAHL	PR	163	1377	67	M	6
21	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	104,00	8,00	8,00	DAHL	PR	163	1377	67	M	-0
22	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	142,00	14,00	14,00	DAHL	PR	163	1377	67	M	-0
23	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	96,00	10,00	10,00	DAHL	PR	163	1377	67	M	-0

24	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	117,00	12,60	12,60		WEISBA	KIEVCONF			70	M	=0	
25	3,238	,029	,029	4,962	,100	,100	5,100	,100	,100	61,00	8,00	8,00		BUDAGO	KIEVCONF			70	P	=0	
26	3,978	0,000	0,000	7,782	0,000	0,000	7,920	-0,000	-0,000	33,00	-0,00	-0,00		EHRLIC	PR	152	1194	66	M	=0	
27	5,565	0,000	0,000	16,061	0,000	0,000	16,200	-0,000	-0,000	25,00	7,00	7,00		DEUTSC	CERN	DPH	43	70	M	=0	

01/10/71
REACTION 148 PI- P = L K(890)- PI-

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE					COM
	2,145			1,833			1,968	THRESHOLD										
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	4,00	1,00	1,00	MILLER	PR	B140	360	65	M =0
2	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	10,00	5,60	5,60	WEISBA	KIEVCONF			70	M =0

01/10/71
REACTION 149 PI- P = L K(890)- PI- = L K- PI- PIO

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE					COM
	2,145			1,833			1,968	THRESHOLD										
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	0,00	1,60	1,60	DAHL	PR	163	1377	67	M =0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	10,10	2,80	2,80	DAHL	PR	163	1377	67	M =0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	9,00	3,50	3,50	DAHL	PR	163	1377	67	M =0

01/10/71
REACTION 150 PI- P = L K(890)- PI- = L K0 PI- PI-

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE					COM
	2,145			1,833			1,968	THRESHOLD										
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	0,00	1,10	1,10	DAHL	PR	163	1377	67	M =0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	11,10	3,10	3,10	DAHL	PR	163	1377	67	M =0
3	2,900	,081	,081	3,863	,250	,250	,000	,250	,250	11,90	4,40	4,40	DAHL	PR	163	1377	67	M =0

01/10/71
REACTION 151 PI- P = L K(890)0 PI0 = L (K PI)0 PI0

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE					COM
	2,141			1,823			1,958	THRESHOLD										
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	0,00	1,60	1,60	DAHL	PR	163	1377	67	M =0
2	2,466	,099	,099	2,364	,250	,250	2,500	,250	,250	0,00	1,60	1,60	DAHL	PR	163	1377	67	M =0
3	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	12,00	2,00	2,00	MILLER	PR	B140	360	65	M =0
4	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	22,00	4,40	4,40	DAHL	PR	163	1377	67	M =0
5	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	28,60	7,30	7,30	DAHL	PR	163	1377	67	M =0

01/10/71
REACTION 152 PI- P = L K(890)0 PI0 = L K- PI- PIO

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,141			1,823			1,958	THRESHOLD											
1	2,463	0,000	0,000	2,814	0,000	0,000	2,750	-0,000	+0,000	53,00	+0,00	+0,00	GOUSSU	NC	A47	383	67	H	+0
2	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	32,60	5,50	5,50	WEISBA	KIEVCONF			70	H	+0

01/10/71
REACTION 153 PI+ P = (L / S0) K+ PI- PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,884			1,273			1,405	THRESHOLD											
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	+0,000	91,00	16,00	16,00	WANGLE	PR	B137	414	65	H	+0
2	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	+0,000	93,00	17,00	17,00	BARTSC	NC	A43	1010	66	H	+0
3	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	130,00	+0,00	+0,00	BERTAN	PR	130	786	63	H	+0
4	4,482	0,000	0,000	11,861	0,000	0,000	11,200	-0,000	+0,000	39,00	10,00	10,00	PELOSI	VIENCONF			68	H	+0

01/10/71
REACTION 154 PI+ P = (L / S0) K+ PI- P0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,019			1,553			1,687	THRESHOLD											
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	+0,000	45,00	23,00	23,00	BARTSC	NC	A43	1010	66	H	+0
2	2,900	,019	,019	3,863	,060	,060	4,000	,060	,060	310,00	40,00	40,00	BANNIK	DUBN3682			68	P	+0

01/10/71
REACTION 155 PI+ P = (L / S0) K0 PI+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,893			1,293			1,423	THRESHOLD											
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	+0,000	124,00	14,00	14,00	KUZNET	IAF	10	577	69	P	+0
2	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	+0,000	223,00	30,00	30,00	BARTSC	NC	A43	1010	66	H	+0
3	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	200,00	+0,00	+0,00	BERTAN	PR	130	786	63	H	+0
4	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	34,00	+0,00	+0,00	BIGI	NC	33	1265	64	H	+0
5	4,482	0,000	0,000	11,861	0,000	0,000	11,200	-0,000	+0,000	111,00	30,00	30,00	PELOSI	VIENCONF			68	H	+0
6	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	6,00	2,70	2,70	WATERS	THESIS			69	H	25

01/10/71
REACTION 156 PI+ P = (L / S0) K0 PPI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,883			1,271			1,404	THRESHOLD											
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	+0,000	110,00	26,00	26,00	WANGLE	PR	B137	414	65	H	+0

01/10/71
REACTION 157 PI- P = (L / S0) K0 K0 K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,609			3,009			3,145	THRESHOLD						
1	3,246	,029	,029	4,962	,100	,100	5,100	,100	,100	38,00	26,00	26,00	BUDAGO KIEVCONF 70 H +0	

01/10/71
REACTION 158 PI- P = (L / S0) OM K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,396			2,441			2,577	THRESHOLD						
1	2,556	0,000	0,000	2,464	0,000	0,000	3,000	-0,000	-0,000	24,00	12,00	12,00	WANGLE PR 8137 414 65 H +0	

01/10/71
REACTION 159 PI- P = (L / S0) K(890)+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,145			1,833			1,968	THRESHOLD						
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	2,00	2,00	2,00	WATERS THESWISC 69 H +0	

01/10/71
REACTION 160 PI- P = (L / S0) K(890)+ PI- = (L / S0) K+ PI- PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,145			1,833			1,968	THRESHOLD						
1	2,900	0,000	0,000	3,663	0,000	0,000	4,000	-0,000	-0,000	3,40	4,20	4,20	KUZNET IAF 10 577 69 P +0	

01/10/71
REACTION 161 PI- P = (L / S0) K(890)+ PI- = (L / S0) K0 PI+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,145			1,833			1,968	THRESHOLD						
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	12,90	4,20	4,20	KUZNET IAF 10 577 69 P +0	

01/10/71
REACTION 162 PI- P = (L / S0) K(890)0 PI0 = (L / S0) K+ PI- PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,141			1,823			1,958	THRESHOLD						
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	34,50	5,90	5,90	KUZNET IAF 10 577 69 P	-0

01/10/71
REACTION 163 PI- P = S K(890) PI

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,222			2,013			2,148	THRESHOLD						
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	15,80	3,50	3,50	WEISBA KIEVCONF 70 H	-0

01/10/71
REACTION 164 PI- P = S(+,-) KS PI(-,+) PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	1,962			1,432			1,565	THRESHOLD						
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	10,80	6,00	6,00	WATERS THESWISC 69 H	25

01/10/71
REACTION 165 PI- P = S(+,-) KS PI(-,+) 70

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,097			1,724			1,858	THRESHOLD						
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	10,40	5,60	5,60	WATERS THESWISC 69 H	25

01/10/71
REACTION 166 PI- P = S+ K+ 2PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	1,962			1,433			1,567	THRESHOLD						
1	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	3,20	1,40	1,40	DAHL PR 163 1377 67 H	-0
2	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	7,50	2,80	2,80	DAHL PR 163 1377 67 H	-0
3	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	14,00	3,00	3,00	MILLER PR B140 360 65 H	-0
4	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	-0,000	4,00	4,00	4,00	GOUSSU NC A47 383 67 H	-0
5	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	15,00	6,00	6,00	WANGLE PR B137 414 65 H	-0
6	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	13,80	4,10	4,10	DAHL PR 163 1377 67 H	-0
7	2,604	,090	,090	2,994	,250	,250	3,130	,250	,250	8,00	3,00	3,00	DAHL PR 163 1377 67 H	6
8	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	16,00	3,00	3,00	DAHL PR 163 1377 67 H	-0
9	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	24,00	6,00	6,00	DAHL PR 163 1377 67 H	-0
10	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	7,00	4,00	4,00	BARTSC NC A43 1010 66 H	-0
11	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	25,00	5,00	5,00	DAHL PR 163 1377 67 H	-0
12	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	24,20	5,40	5,40	WEISBA KIEVCONF 70 H	-0

01/10/71
REACTION 167 PI- P = S+ K0 PI- PI0

N	ECMS	DF+	DF+	TLAB	DT+	DT+	PLAB	DP+	DP+	SIGMA	DS+	DS+	REFERENCE						COM
	1,962			1,432			1,565	THRESHOLD											
1	2,400	.019	.019	2,474	.050	.050	2,610	.050	.050	8,20	3,00	3,40	DAHL	PR	163	1377	67	H	=0
2	2,444	.021	.021	2,564	.028	.028	2,700	.028	.028	17,00	6,00	6,00	MILLER	PR	B140	360	65	H	=0
3	2,468	.021	.021	2,614	0,000	0,000	2,750	=0,000	=0,000	36,00	11,00	11,00	GOUSSU	NC	A47	383	67	H	=0
4	2,505	.019	.019	2,724	.050	.050	2,860	.050	.050	17,00	9,10	9,10	DAHL	PR	163	1377	67	H	=0
5	2,524	.020	.020	2,864	0,000	0,000	3,000	=0,000	=0,000	41,00	17,00	17,00	WANGLE	PR	B137	414	65	H	=0
6	2,557	.018	.018	2,774	.050	.050	3,010	.050	.050	38,00	10,00	10,00	DAHL	PR	163	1377	67	H	=0
7	2,614	.024	.024	2,994	.250	.250	3,130	.250	.250	23,00	6,00	6,00	DAHL	PR	163	1377	67	H	6
8	2,632	.018	.018	3,073	.050	.050	3,210	.050	.050	27,00	5,00	5,00	DAHL	PR	163	1377	67	H	=0
9	2,854	.018	.018	3,753	.050	.050	3,890	.050	.050	34,00	9,00	9,00	DAHL	PR	163	1377	67	H	=0
10	2,900	0,000	0,000	3,863	0,000	0,000	4,000	=0,000	=0,000	8,00	8,00	8,00	BARTSC	NC	A43	1010	66	H	=0
11	2,951	.016	.016	4,023	.050	.050	4,160	.050	.050	36,00	8,00	8,00	DAHL	PR	163	1377	67	H	=0
12	4,247	0,000	0,000	4,862	0,000	0,000	5,000	=0,000	=0,000	24,60	5,60	5,60	WEISBA	KIEVCONF			70	H	=0
13	4,435	.127	.127	9,561	.600	.600	10,000	.600	.600	16,00	=0,00	=0,00	BIGI	NC	33	1265	64	H	=0

01/10/71
REACTION 1X8 PI+ P = S+ K0 PI+ ZO

N	ECMS	DF+	DF+	TLAB	DT+	DT+	PLAB	DP+	DP+	SIGMA	DS+	DS+	REFERENCE						COM
	2,897			1,724			1,858	THRESHOLD											
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	=0,000	=0,000	7,00	8,00	7,00	BARTSC	NC	A43	1010	66	H	=0
2	4,970	0,000	0,000	7,782	0,000	0,000	7,920	=0,000	=0,000	15,00	=0,00	=0,00	EHRLIC	PR	152	1194	66	H	=0
3	4,435	.127	.127	9,861	.600	.600	10,000	.600	.600	24,00	=0,00	=0,00	BIGI	NC	33	1265	64	H	=0

01/10/71
REACTION 1X9 PI+ P = S+ K(890)0 PI+

N	ECMS	DF+	DF+	TLAB	DT+	DT+	PLAB	DP+	DP+	SIGMA	DS+	DS+	REFERENCE						COM
	2,219			2,088			2,140	THRESHOLD											
1	2,444	.011	.011	2,564	.028	.028	2,700	.028	.028	5,00	2,00	2,00	MILLER	PR	B140	360	65	H	=0

01/10/71
REACTION 170 PI+ P = S+ (K PI) + ZO

N	ECMS	DF+	DF+	TLAB	DT+	DT+	PLAB	DP+	DP+	SIGMA	DS+	DS+	REFERENCE						COM
	2,896			1,722			1,857	THRESHOLD											
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	=0,000	=0,000	0,00	19,00	19,00	BARTSC	NC	A43	1010	66	H	=0

01/10/71
REACTION 171 PI+ P = S+ K+ PI+ PI+

N	ECMS	DF+	DF+	TLAB	DT+	DT+	PLAB	DP+	DP+	SIGMA	DS+	DS+	REFERENCE						COM
	2,827			1,650			1,783	THRESHOLD											

N	ECMS	DP+	DP-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
1	2,161	,021	,021	1,915	,050	,050	2,050	,050	,050	2,60	,60	,60	DAHL	PR	163	1377	67	H -0
2	2,219	,021	,021	2,005	,050	,050	2,140	,050	,050	4,20	2,50	2,50	DAHL	PR	163	1377	67	H -0
3	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	10,30	2,20	2,20	DAHL	PR	163	1377	67	H -0
4	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	12,00	3,00	3,00	MILLER	PR	B140	360	65	H -0
5	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	-0,000	30,00	6,00	6,00	GOUSSU	NC	A47	383	67	H -0
6	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	18,30	4,80	4,80	DAHL	PR	163	1377	67	H -0
7	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	29,00	7,00	7,00	WANGLE	PR	B137	414	65	H -0
8	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	14,50	2,90	2,90	DAHL	PR	163	1377	67	H -0
9	2,604	,090	,090	2,994	,250	,250	3,130	,250	,250	17,00	3,00	3,00	DAHL	PR	163	1377	67	H 6
10	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	17,00	2,00	2,00	DAHL	PR	163	1377	67	H -0
11	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	20,00	4,00	4,00	DAHL	PR	163	1377	67	H -0
12	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	24,00	8,00	8,00	BARTSC	NC	A43	1010	66	H -0
13	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	20,00	3,00	3,00	DAHL	PR	163	1377	67	H -0
14	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	20,00	-0,00	-0,00	BEWTAN	PR	130	786	63	H -0
15	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	26,10	3,90	3,90	WEISBA	KIEVCONF			70	H -0

01/10/71
REACTION 172 PI+ P = S+ K0 PI+ PI0

N	ECMS	DP+	DP-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	1,970			1,449			1,582	THRESHOLD										
1	2,161	,021	,021	1,915	,050	,050	2,050	,050	,050	1,70	1,20	1,20	DAHL	PR	163	1377	67	H -0
2	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	11,50	4,20	4,20	DAHL	PR	163	1377	67	H -0
3	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	22,00	7,00	7,00	MILLER	PR	B140	360	65	H -0
4	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	-0,000	10,00	5,00	5,00	GOUSSU	NC	A47	383	67	H -0
5	2,505	,019	,019	2,724	,050	,050	2,860	,050	,050	25,00	10,00	10,00	DAHL	PR	163	1377	67	H -0
6	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	33,00	11,00	11,00	WANGLE	PR	B137	414	65	H -0
7	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	29,00	8,00	8,00	DAHL	PR	163	1377	67	H -0
8	2,604	,090	,090	2,994	,250	,250	3,130	,250	,250	32,00	7,00	7,00	DAHL	PR	163	1377	67	H 6
9	2,632	,018	,018	3,073	,050	,050	3,210	,050	,050	30,00	5,00	5,00	DAHL	PR	163	1377	67	H -0
10	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	30,00	8,00	8,00	DAHL	PR	163	1377	67	H -0
11	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	71,00	25,00	25,00	BARTSC	NC	A43	1010	66	H -0
12	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	55,00	11,00	11,00	DAHL	PR	163	1377	67	H -0
13	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	23,20	3,90	3,90	WEISBA	KIEVCONF			70	H -0
14	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	34,00	-0,00	-0,00	BIGI	NC	33	1265	64	H -0

01/10/71
REACTION 173 PI+ P = S+ K0 PI+ N

N	ECMS	DP+	DP-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,505			1,742			1,876	THRESHOLD										
1	3,970	0,000	0,000	7,782	0,000	0,000	7,920	-0,000	-0,000	24,00	-0,00	-0,00	EHRLIC	PR	152	1194	66	H -0
2	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	32,00	-0,00	-0,00	BIGI	NC	33	1265	64	H -0

01/10/71
REACTION 174 PI+ P = S+ K(892)0 PI+

N	ECMS	DP+	DP-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,247			2,024			2,159	THRESHOLD										
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	5,00	2,00	2,00	MILLER	PR	B140	360	65	H -0

01/10/71
REACTION 175 PI- P = S0 K+ PI- PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,961			1,430			1,563	THRESHOLD											
1	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	-0,000	30,00	10,00	10,00	GOUSSU	NC	A47	383	67	H	-0
2	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	21,00	14,00	14,00	BUDAGO	KIEVCONF			70	P	-0

01/10/71
REACTION 176 PI- P = S0 K0 PI+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	1,969			1,448			1,582	THRESHOLD											
1	2,181	,021	,021	1,915	,050	,050	2,050	,050	,050	3,90	2,30	2,30	DAHL	PR	163	1377	67	H	-0
2	2,409	,019	,019	2,474	,050	,050	2,610	,050	,050	9,90	4,50	4,50	DAHL	PR	163	1377	67	H	-0
3	2,444	,019	,019	2,564	,050	,050	2,700	,050	,050	31,00	7,00	7,00	MILLER	PL	15	74	65	H	-0
4	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	32,00	7,00	7,00	MILLER	PR	B140	360	65	H	-0
5	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	-0,000	20,00	6,00	6,00	GOUSSU	NC	A47	383	67	H	-0
6	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	86,00	19,00	19,00	WANGLE	PR	B137	414	65	H	-0
7	2,560	,018	,018	2,874	,050	,050	3,010	,050	,050	41,00	11,00	11,00	DAHL	PR	163	1377	67	H	-0
8	2,604	,090	,090	2,994	,250	,250	3,130	,250	,250	38,00	8,00	8,00	DAHL	PR	163	1377	67	H	6
9	2,652	,018	,018	3,073	,050	,050	3,210	,050	,050	17,00	4,00	4,00	DAHL	PR	163	1377	67	H	-0
10	2,864	,016	,016	3,753	,050	,050	3,890	,050	,050	38,00	11,00	11,00	DAHL	PR	163	1377	67	H	-0
11	2,951	,016	,016	4,023	,050	,050	4,160	,050	,050	46,00	11,00	11,00	DAHL	PR	163	1377	67	H	-0
12	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	34,60	5,40	5,40	WEISBA	KIEVCONF			70	H	-0
13	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	30,00	17,00	17,00	BUDAGO	KIEVCONF			70	P	-0
14	3,970	0,000	0,000	7,782	0,000	0,000	7,920	-0,000	-0,000	13,00	-0,00	-0,00	EHRLIC	PR	152	1194	66	H	-0
15	5,595	0,000	0,000	16,061	0,000	0,000	16,200	-0,000	-0,000	5,00	2,00	2,00	DEUTSC	CERN	DPH	43	70	H	-0

01/10/71
REACTION 177 PI- P = S0 K(8901)+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,222			2,012			2,147	THRESHOLD											
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	6,00	2,00	2,00	MILLER	PR	B140	360	65	H	-0

01/10/71
REACTION 178 PI- P = Y(1385)+ K0 PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,022			1,861			1,695	THRESHOLD											
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	4,00	1,00	1,00	MILLER	PR	B140	360	65	H	-0
2	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	2,50	2,50	2,50	WATERS	THESWISC			69	H	-0

01/10/71
REACTION 179 PI- P = Y(1385)+ K0 PI+ = L K0 PI+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,022			1,561			1,695	THRESHOLD											
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	2,90	1,10	1,10	DAHL	PR	163	1377	67	M	=0
2	2,403	0,000	0,000	2,614	0,000	0,000	2,750	=0,000	=0,000	22,00	=0,00	=0,00	GOUSSU	NC	A47	383	67	M	=0
3	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	15,10	2,20	2,20	DAHL	PR	163	1377	67	M	=0
4	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	11,90	3,40	3,40	DAHL	PR	163	1377	67	M	=0
5	3,207	0,000	0,000	4,862	0,000	0,000	5,000	=0,000	=0,000	12,50	2,50	2,50	WEISBA	KIEVCONF			70	M	=0

01/10/71
REACTION 180 PI- P = Y(1385)- K0 PI+ = (L / S0) K0 PI- PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,022			1,561			1,695	THRESHOLD											
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	=0,000	=0,000	15,30	4,70	4,70	KUZNET	IAF	10	577	69	P	=0

01/10/71
REACTION 181 PI- P = Y(1385)- K+ PI0 = L K+ PI- PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,014			1,542			1,676	THRESHOLD											
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	0,00	1,10	1,10	DAHL	PR	163	1377	67	M	=0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	5,50	2,80	2,80	DAHL	PR	163	1377	67	M	=0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	13,50	3,60	3,60	DAHL	PR	163	1377	67	M	=0
4	3,207	0,000	0,000	4,862	0,000	0,000	5,000	=0,000	=0,000	0,00	1,60	1,60	WEISBA	KIEVCONF			70	M	=0

01/10/71
REACTION 182 PI- P = Y(1385)- K+ PI0 = (L / S0) K+ PI- PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,014			1,542			1,676	THRESHOLD											
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	=0,000	=0,000	5,40	3,60	3,60	KUZNET	IAF	10	577	69	P	=0

01/10/71
REACTION 183 PI- P = Y(1385)- K0 PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,022			1,561			1,695	THRESHOLD											
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	8,00	2,00	2,00	MILLER	PR	8140	360	65	M	=0

01/10/71
REACTION 184 PI- P = Y(1385)- K0 PI+ = L K0 PI- PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,062			1,561			1,695	THRESHOLD										
1	2,139	,108	,108	1,865	,249	,249	2,000	,250	,250	0,00	1,10	1,10	DAHL	PR	163	1377	67	M +0
2	2,463	0,000	0,000	2,614	0,000	0,000	2,750	-0,000	+0,000	22,00	+0,00	+0,00	GOUSSU	NC	447	383	67	M +0
3	2,593	,090	,090	2,564	,250	,250	3,100	,250	,250	16,10	3,20	3,20	DAHL	PR	163	1377	67	M +0
4	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	10,80	3,40	3,40	DAHL	PR	163	1377	67	M +0
5	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	+0,000	8,80	2,10	2,10	WEISBA	KIEVCONF			70	M +0

01/10/71
REACTION 185 PI+ P = Y(1385)+ K0 PI+ + (L / S0) K0 PI+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,062			1,561			1,695	THRESHOLD										
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	+0,000	12,90	4,20	4,20	KUZNET	IAF	10	577	69	P +0

01/10/71
REACTION 186 PI+ P = Y(1385)+ K(890)+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,275			2,139			2,275	THRESHOLD										
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	10,00	2,00	2,00	MILLER	PR	B140	360	65	M +0
2	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	+0,000	10,00	+0,00	+0,00	WANGLE	PR	B137	414	65	M +0
3	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	2,00	-0,00	+0,00	WATERS	THESWISC			69	M 18

01/10/71
REACTION 187 PI- P = Y(1385)+ K(890)+ + L (K PI)+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,275			2,139			2,275	THRESHOLD										
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	+0,000	0,00	2,50	2,50	WEISBA	KIEVCONF			70	M +0

01/10/71
REACTION 188 PI- P = Y(1385)+ K(890)+ + (L / S0) (K PI)+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,275			2,139			2,275	THRESHOLD										
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	+0,000	4,60	3,10	3,10	KUZNET	IAF	10	577	69	P +0

01/10/71
REACTION 189 PI+ P = Y(1385)+ K(890)+ + L K+ PI+ PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,275			2,139			2,275	THRESHOLD											
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	4,10	1,00	1,00	DAHL	PR	163	1377	67	H	=0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	5,50	1,90	1,90	DAHL	PR	163	1377	67	H	=0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	0,00	3,30	3,30	DAHL	PR	163	1377	67	H	=0

01/10/71
REACTION 190 PI+ P = Y(1385)+ K(890)+ + L K0 PI+ PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,275			2,139			2,275	THRESHOLD											
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	7,90	1,40	1,40	DAHL	PR	163	1377	67	H	=0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	10,10	3,10	3,10	DAHL	PR	163	1377	67	H	=0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	0,00	1,10	1,10	DAHL	PR	163	1377	67	H	=0

01/10/71
REACTION 191 PI+ P = Y(1385)0 K+ PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,018			1,552			1,686	THRESHOLD											
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	3,00	1,00	1,00	MILLER	PR	B140	360	65	H	=0

01/10/71
REACTION 192 PI+ P = Y(1385)0 K+ PI+ = L K+ PI+ PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,018			1,552			1,686	THRESHOLD											
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	1,30	1,50	1,50	DAHL	PR	163	1377	67	H	=0
2	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	3,00	1,00	1,00	MILLER	PR	B140	360	65	H	=0
3	2,463	0,000	0,000	2,614	0,000	0,000	2,750	+0,000	+0,000	26,00	+0,00	+0,00	GOUSSU	NC	447	383	67	H	=0
4	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	11,00	2,90	2,90	DAHL	PR	163	1377	67	H	=0
5	2,900	0,000	0,000	3,863	0,000	0,000	4,000	+0,000	+0,000	5,00	3,50	3,50	KUZNET	IAF	10	577	69	P	=0
6	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	9,00	3,50	3,50	DAHL	PR	163	1377	67	H	=0
7	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	9,10	2,10	2,10	WEISBA	KIEVCONF			70	H	=0

01/10/71
REACTION 193 PI+ P = Y(1385)0 K(890)0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,275			2,139			2,275	THRESHOLD											
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	10,00	2,00	2,00	MILLER	PR	B140	360	65	H	=0
2	2,556	0,000	0,000	2,864	0,000	0,000	3,000	+0,000	+0,000	30,00	13,00	13,00	WANGLE	PR	B137	414	65	H	=0

01/10/71
REACTION 194 PI- P = Y(1385)0 K(890)0 = L (K PI)0 PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,275			2,139			2,275	THRESHOLD										
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	6,80	2,40	2,40	DAHL	PR	163	1377	67	H =0
2	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	10,00	2,00	2,00	MILLER	PR	B140	360	65	H =0
3	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	24,00	4,50	4,50	DAHL	PR	163	1377	67	H =0
4	2,900	,061	,061	3,863	,250	,250	4,000	,250	,250	23,60	5,60	5,60	DAHL	PR	163	1377	67	H =0

01/10/71
REACTION 195 PI- P = Y(1385)0 K(890)0 = L K+ PI- PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,275			2,139			2,275	THRESHOLD										
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	4,10	3,70	3,70	KUZNET	IAF	10	577	69	P =0
2	3,247	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	5,50	2,00	2,00	WEISBA	KIEVCONF			70	H =0

01/10/71
REACTION 196 PI- P = Y(1405) K PI

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,038			1,594			1,728	THRESHOLD										
1	3,247	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	7,90	2,40	2,40	WEISBA	KIEVCONF			70	H =0

01/10/71
REACTION 197 PI- P = Y(1405) K0 PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,038			1,594			1,728	THRESHOLD										
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	6,00	3,00	3,00	MILLER	PR	B140	360	65	H =0

01/10/71
REACTION 198 PI- P = Y(1405) K(890)0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,295			2,188			2,323	THRESHOLD										
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	16,00	5,00	5,00	MILLER	PR	B140	360	65	H =0
2	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	40,00	13,00	13,00	WANGLE	PR	B137	414	65	H =0
3	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	3,00	-0,00	-0,00	WATERS	THESWISC			69	H 18

01/10/71
REACTION 199 PI- P = Y(1405) K(890)0 = (S PI) (K PI)0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,295			2,188			2,323	THRESHOLD											
1	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	13,00	2,00	2,00	DAHL	PR	163	1377	67	H	=0
2	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	16,00	3,00	3,00	DAHL	PR	163	1377	67	H	=0

01/10/71
REACTION 200 PI- P = Y(1520) (K PI) = P K- (K PI)

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,153			1,851			1,986	THRESHOLD											
1	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	9,00	1,00	1,00	DAHL	PR	163	1377	67	H	=0
2	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	11,00	5,00	5,00	DAHL	PR	163	1377	67	H	=0

01/10/71
REACTION 201 PI- P = Y(1520) (K PI) = (S PI) (K PI)

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,153			1,851			1,986	THRESHOLD											
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	5,30	1,90	1,90	WEISBA	KIEVCONF			70	H	=0

01/10/71
REACTION 202 PI- P = Y(1520) K0 = (L PI PI) K0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,018			1,551			1,685	THRESHOLD											
1	2,159	,108	,108	1,865	,249	,249	2,000	,250	,250	2,80	1,00	1,00	DAHL	PR	163	1377	67	H	=0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	4,40	1,50	1,50	DAHL	PR	163	1377	67	H	=0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	2,90	1,60	1,60	DAHL	PR	163	1377	67	H	=0
4	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	4,10	1,30	1,30	WEISBA	KIEVCONF			70	H	=0

01/10/71
REACTION 203 PI- P = Y(1520) K(890)0 = (S PI) (K PI)

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,410			2,476			2,612	THRESHOLD											
1	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	7,00	1,00	1,00	DAHL	PR	163	1377	67	H	=0
2	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	6,00	1,00	1,00	DAHL	PR	163	1377	67	H	=0
3	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	7,90	2,30	2,30	WEISBA	KIEVCONF			70	H	=0

01/10/71
REACTION 204 PI- P = Y(1670) P(90010 = (S PI) (K PI)

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,560			2,874			3,010	THRESHOLD											
1	2,593	,040	,040	2,964	,250	,250	3,100	,250	,250	3,00	1,00	1,00	DAHL	PR	163	1377	67	H	=0
2	2,900	,061	,061	3,863	,250	,250	4,100	,250	,250	3,00	1,00	1,00	DAHL	PR	163	1377	67	H	=0

01/10/71
REACTION 205 PI- P = XI- K+ K+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,502			2,718			2,854	THRESHOLD											
1	2,629	,018	,018	3,063	,050	,050	3,200	,050	,050	0,00	,00	,00	DAHL	PR	163	1377	67	H	=0
2	2,900	,016	,016	3,863	,050	,050	4,000	,050	,050	,50	,40	,40	DAHL	PR	163	1377	67	H	=0

01/10/71
REACTION 206 PI- P = XI- K+ K0 P10

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,448			2,574			2,710	THRESHOLD											
1	2,629	,018	,018	3,063	,050	,050	3,200	,050	,050	,20	,20	,20	DAHL	PR	163	1377	67	H	=0
2	2,900	,016	,016	3,863	,050	,050	4,000	,050	,050	,60	,50	,50	DAHL	PR	163	1377	67	H	=0

01/10/71
REACTION 207 PI- P = XI- K0 K0 PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,496			2,597			2,733	THRESHOLD											
1	2,629	,018	,018	3,063	,050	,050	3,200	,050	,050	,20	,10	,10	DAHL	PR	163	1377	67	H	=0
2	2,900	,016	,016	3,863	,050	,050	4,000	,050	,050	2,30	1,00	1,00	DAHL	PR	163	1377	67	H	=0

01/10/71
REACTION 208 PI- P = XI0 K+ K0 PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,446			2,569			2,705	THRESHOLD											
1	2,629	,018	,018	3,063	,050	,050	3,200	,050	,050	0,00	,00	,30	DAHL	PR	163	1377	67	H	=0
2	2,900	,016	,016	3,863	,050	,050	4,000	,050	,050	0,00	,00	,80	DAHL	PR	163	1377	67	H	=0

01/10/71
REACTION 209 PI- P = X1(1530)0 K0 K0 = XI- K0 K0 PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,526			2,780			2,917		THRESHOLD										
1	2,629	,018	,018	3,063	,050	,050	3,200	,050	,050	,25	,18	,18	DAHL	PR	163	1377	67	M	=0
2	2,900	,016	,016	3,863	,050	,050	4,000	,050	,050	1,40	,70	,70	DAHL	PR	163	1377	67	M	=0

01/10/71
REACTION 210 PI- P = 4 PRONGS (L / S0)

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,628			1,573			1,707		THRESHOLD										
1	4,199	0,000	0,000	14,861	0,000	0,000	20,000	+0,000	+0,000	860,00	220,00	220,00	BALEA	RRP	15	587	70	M	=0

01/10/71
REACTION 211 PI- P = P K+ K- PI- P10

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,200			1,961			2,096		THRESHOLD										
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	+0,000	+0,000	76,00	54,00	54,00	BARTSC	NC	A43	1010	66	M	=0
2	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	57,70	16,00	16,00	WEISBA	KIEVCONF			70	M	=0

01/10/71
REACTION 212 PI- P = P K+ K0 PI- PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,209			1,962			2,117		THRESHOLD										
1	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	2,00	,75	,75	DAHL	PR	163	1377	67	M	=0
2	2,900	,061	,061	3,863	,250	,250	4,000	,250	,250	9,70	2,60	2,60	DAHL	PR	163	1377	67	M	=0
3	2,900	0,000	0,000	3,863	0,000	0,000	4,000	+0,000	+0,000	12,00	6,00	6,00	BARTSC	NC	A43	1010	66	M	=0
4	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	19,90	4,40	4,40	WEISBA	KIEVCONF			70	M	=0

01/10/71
REACTION 213 PI- P = P K- K0 PI+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,209			1,982			2,117		THRESHOLD										
1	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	2,30	,80	,80	DAHL	PR	163	1377	67	M	=0
2	2,900	,061	,061	3,863	,250	,250	4,000	,250	,250	15,80	3,40	3,40	DAHL	PR	163	1377	67	M	=0
3	3,103	,051	,051	4,312	,170	,170	4,650	,170	,170	20,00	+0,00	+0,00	BERTAN	PR	130	786	63	M	=0
4	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	39,90	6,20	6,20	WEISBA	KIEVCONF			70	M	=0

01/10/71

REACTION 214 PI- P = P K0 K0 PI- PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,208			1,980			2,115	THRESHOLD										
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	20,00	20,00	20,00	BARTSC	NC	A43	1010	66	H -0
2	3,256	,029	,029	4,962	,100	,100	5,100	,100	,100	7,00	7,00	7,00	BUDAGO	KIEVCONF			70	P -0
3	3,970	0,000	0,000	7,782	0,000	0,000	7,920	-0,000	-0,000	43,00	-0,00	-0,00	EHRLIC	PR	152	1194	66	H -0

01/10/71
REACTION 215 PI- P = P K0 K0 PI- Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,343			2,308			2,443	THRESHOLD										
1	3,970	0,000	0,000	7,782	0,000	0,000	7,920	-0,000	-0,000	36,00	-0,00	-0,00	EHRLIC	PR	152	1194	66	H -0

01/10/71
REACTION 216 PI- P = P KS KS PI- PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,208			1,980			2,115	THRESHOLD										
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	3,00	3,00	3,00	WANGLE	PR	8137	414	65	H -0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	1,00	,60	,60	DAHL	PR	163	1377	67	H -0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	5,00	2,30	2,30	DAHL	PR	163	1377	67	H -0
4	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	9,10	2,10	2,10	WEISBA	KIEVCONF			70	H -0

01/10/71
REACTION 217 PI- P = N (K PI)+ K- Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,332			2,280			2,415	THRESHOLD										
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	0,00	57,00	57,00	BARTSC	NC	A43	1010	66	H -0

01/10/71
REACTION 218 PI- P = N K+ (K PI)- Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,341			2,301			2,437	THRESHOLD										
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	156,00	115,00	115,00	BARTSC	NC	A43	1010	66	H -0

01/10/71
REACTION 219 PI- P = N K+ K- PI+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,206			1,975			2,118	THRESHOLD											
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	+0,000	+0,000	71,00	35,00	35,00	BARTSC	NC	A43	1010	66	H	-0
2	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	50,00	+0,00	+0,00	BERTAN	PR	130	786	63	H	-0
3	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	92,70	38,40	38,40	WEISBA	KIEVCONF			70	H	-0

01/10/71
REACTION 220 PI+ P = N MU K0 PI+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,214			1,994			2,129	THRESHOLD											
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	+0,000	+0,000	64,00	37,00	37,00	BARTSC	NC	A43	1010	66	H	-0
2	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	55,00	15,00	15,00	BUDAGO	KIEVCONF			70	P	-0
3	3,970	0,000	0,000	7,782	0,000	0,000	7,920	+0,000	+0,000	36,00	-0,00	+0,00	EHRLIC	PR	152	1194	66	H	-0

01/10/71
REACTION 221 PI+ P = N KS KS PI+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,214			1,994			2,129	THRESHOLD											
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	+0,000	+0,000	3,00	3,00	3,00	WANGLE	PR	B137	414	65	H	-0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	,64	,46	,46	DAHL	PR	163	1377	67	H	-0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	6,00	2,50	2,50	DAHL	PR	163	1377	67	H	-0
4	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	15,20	3,30	3,30	WEISBA	KIEVCONF			70	H	-0
5	5,595	0,000	0,000	15,861	0,000	0,000	16,200	+0,000	+0,000	4,00	1,00	1,00	DEUTSC	CERN DPH		43	70	H	-0

01/10/71
REACTION 222 PI+ P = L K+ PI+ PI+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,028			1,573			1,707	THRESHOLD											
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	2,00	1,00	1,00	MILLER	PR	B140	360	65	H	-0
2	2,556	0,000	0,000	2,864	0,000	0,000	3,000	+0,000	+0,000	5,00	3,00	3,00	WANGLE	PR	B137	414	65	H	-0
3	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	10,10	1,30	1,30	DAHL	PR	163	1377	67	H	-0
4	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	30,00	3,80	3,80	DAHL	PR	163	1377	67	H	-0
5	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	47,20	5,60	5,60	WEISBA	KIEVCONF			70	H	-0

01/10/71
REACTION 223 PI+ P = L K0 PI+ PI+ PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,024			1,563			1,697	THRESHOLD											
1	2,444	,011	,011	2,564	,028	,028	2,700	,028	,028	11,00	4,00	4,00	MILLER	PR	B140	360	65	H	-0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	38,00	5,00	5,00	DAHL	PR	163	1377	67	H	-0

3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	70,00	11,00	11,00		DAHL	PR	163	1377	67	H	=0
4	3,207	0,000	0,000	4,862	0,000	0,000	5,000	=0,000	=0,000	109,30	15,50	15,50		WEISBA	KIEVCONF			70	H	=0
5	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	57,00	20,00	20,00		BUDAGO	KIEVCONF			70	P	=0
6	3,970	0,000	0,000	7,782	0,000	0,000	7,920	=0,000	=0,000	104,00	=0,00	=0,00		EHRLIC	PR	152	1194	66	H	=0
7	5,595	0,000	0,000	16,861	0,000	0,000	16,200	=0,000	=0,000	75,00	11,00	11,00		DEUTSC	CERN	DPH	43	70	H	=0

01/10/71
REACTION 224 PI- P = L K0 PI+ PI= Z0

N	ECMS	DE-	DE+	TLAB	DT-	DT+	PLAB	DP-	DP+	SIGMA	DS-	DS+	REFERENCE					COM
	2,159			1,864			1,999	THRESHOLD										
1	3,970	0,000	0,000	7,782	0,000	0,000	7,920	=0,000	=0,000	104,00	=0,00	=0,00	EHRLIC	PR	152	1194	66	H =0

01/10/71
REACTION 225 PI- P = (L / S0) K+ PI- 2PI-

N	ECMS	DE-	DE+	TLAB	DT-	DT+	PLAB	DP-	DP+	SIGMA	DS-	DS+	REFERENCE					COM
	2,028			1,573			1,707	THRESHOLD										
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	=0,000	=0,000	33,00	10,00	10,00	BARTSC	NC	A43	1010	66	H =0
2	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	10,00	=0,00	=0,00	BERTAN	PR	130	786	63	H =0

01/10/71
REACTION 226 PI- P = (L / S0) K0 PI+ PI- PI0

N	ECMS	DE-	DE+	TLAB	DT-	DT+	PLAB	DP-	DP+	SIGMA	DS-	DS+	REFERENCE					COM
	2,028			1,572			1,706	THRESHOLD										
1	2,556	0,000	0,000	2,864	0,000	0,000	3,000	=0,000	=0,000	60,00	20,00	20,00	WANGLE	PR	B137	414	65	H =0
2	2,900	0,000	0,000	3,863	0,000	0,000	4,000	=0,000	=0,000	63,00	26,00	26,00	BARTSC	NC	A43	1010	66	H =0
3	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	53,00	=0,00	=0,00	BIGI	NC	33	1265	64	H =0
4	6,915	0,000	0,000	24,861	0,000	0,000	25,000	=0,000	=0,000	21,80	6,00	6,00	WATERS	THESWIS			69	H 25

01/10/71
REACTION 227 PI- P = (L / S0) K0 PI+ PI- Z0

N	ECMS	DE-	DE+	TLAB	DT-	DT+	PLAB	DP-	DP+	SIGMA	DS-	DS+	REFERENCE					COM
	2,163			1,873			2,008	THRESHOLD										
1	2,900	,019	,019	3,863	,060	,060	4,000	,060	,060	210,00	30,00	30,00	BANNIK	DUBN3682			68	P =0
2	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	129,00	=0,00	=0,00	BIGI	NC	33	1265	64	H =0
3	6,915	0,000	0,000	24,861	0,000	0,000	25,000	=0,000	=0,000	34,80	6,40	6,40	WATERS	THESWIS			69	H 25

01/10/71
REACTION 228 PI- P = S(+,+) KS (3PI)(+,+)

N	ECMS	DE-	DE+	TLAB	DT-	DT+	PLAB	DP-	DP+	SIGMA	DS-	DS+	REFERENCE					COM

	2,106			1,745			1,879	THRESHOLD														
1	6,815	0,000	0,000	24,861	0,000	0,000	25,000	+0,000	+0,000	12,80	6,20	6,20	WATERS	THESWISC		69	H	25				

01/10/71
REACTION 229 P1+ P = S+ K+ 2P1+ P10

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,097			1,725			1,860	THRESHOLD											
1	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	1,70	,40	,40	DAHL	PR	163	1377	67	H	+0
2	2,900	0,000	0,000	3,863	0,000	0,000	4,000	+0,000	+0,000	5,00	3,00	3,00	BARTSC	NC	443	1010	66	H	+0
3	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	5,30	1,20	1,20	DAHL	PR	163	1377	67	H	+0
4	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	10,00	+0,00	+0,00	BERTAN	PR	130	786	63	H	+0
5	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	28,70	4,00	4,00	WEISSA	KIEVCONF			70	H	+0

01/10/71
REACTION 230 P1+ P = S+ K0 P1+ 2P1+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,106			1,745			1,879	THRESHOLD											
1	2,536	0,000	0,000	2,864	0,000	0,000	3,000	+0,000	+0,000	2,00	1,00	1,00	WANGLE	PR	B137	414	65	H	+0
2	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	,80	,30	,30	DAHL	PR	163	1377	67	H	+0
3	2,900	0,000	0,000	3,863	0,000	0,000	4,000	+0,000	+0,000	2,00	2,00	2,00	BARTSC	NC	443	1010	66	H	+0
4	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	3,70	1,00	1,00	DAHL	PR	163	1377	67	H	+0
5	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	20,00	+0,00	+0,00	BERTAN	PR	130	786	63	H	+0
6	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	28,60	5,60	5,60	WEISSA	KIEVCONF			70	H	+0
7	4,445	,127	,127	9,861	,600	,600	10,000	,600	,600	5,00	+0,00	+0,00	BIGI	NC	33	1265	64	H	+0

01/10/71
REACTION 231 P1+ P = S+ K+ P1+ P1+ P10

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,105			1,743			1,877	THRESHOLD											
1	2,444	,311	,311	2,564	,028	,028	2,700	,028	,028	4,00	2,00	2,00	MILLEP	PR	B140	368	65	H	+0
2	2,536	0,000	0,000	2,864	0,000	0,000	3,000	+0,000	+0,000	5,00	3,00	3,00	WANGLE	PR	B137	414	65	H	+0
3	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	5,50	,80	,80	DAHL	PR	163	1377	67	H	+0
4	2,900	0,000	0,000	3,863	0,000	0,000	4,000	+0,000	+0,000	11,00	5,00	5,00	BARTSC	NC	443	1010	66	H	+0
5	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	16,20	2,20	2,20	DAHL	PR	163	1377	67	H	+0
6	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	40,00	+0,00	+0,00	BERTAN	PR	130	786	63	H	+0
7	3,207	0,000	0,000	4,862	0,000	0,000	5,000	+0,000	+0,000	56,40	6,10	6,10	WEISSA	KIEVCONF			70	H	+0

01/10/71
REACTION 232 P1+ P = S+ K0 P1+ P1+ P1+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,114			1,762			1,897	THRESHOLD											

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
1	2,444	,011	,011	2,964	,028	,028	2,700	,028	,028	4,00	2,00	2,00	MILLER	PR	B140	360	65	H -0
2	2,556	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	3,00	2,00	2,00	WANGLE	PR	B137	414	65	H -0
3	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	2,90	,60	,60	DAHL	PR	163	1377	67	H -0
4	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	13,20	2,00	2,00	DAHL	PR	163	1377	67	H -0
5	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	11,00	5,00	5,00	BARTSC	NC	A43	1010	66	H -0
6	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	10,00	-0,00	-0,00	BERTAN	PR	130	786	63	H -0
7	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	26,90	3,70	3,70	WEISBA	KIEVCONF			70	H -0
8	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	9,00	-0,00	-0,00	BIGI	NC	33	1265	64	H -0

01/10/71
REACTION 233 PI- P = S0 K+ PI- 2PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,100			1,732			1,867	THRESHOLD										
1	2,593	,090	,090	2,964	,250	,250	3,100	,250	,250	2,10	,60	,60	DAHL	PR	163	1377	67	H -0
2	2,900	,081	,081	3,863	,250	,250	4,000	,250	,250	7,30	1,60	1,60	DAHL	PR	163	1377	67	H -0
3	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	15,00	2,80	2,80	WEISBA	KIEVCONF			70	H -0

01/10/71
REACTION 234 PI- P = S0 K0 PI+ PI- PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,104			1,741			1,876	THRESHOLD										
1	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	27,00	12,00	12,00	BUDAGO	KIEVCONF			70	P -0

01/10/71
REACTION 235 PI- P = Y(1385)+ K(890)0 PI+

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,415			2,488			2,624	THRESHOLD										
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	9,60	6,80	6,80	WATERS	THESWISC			69	H -0

01/10/71
REACTION 236 PI- P = Y(1385)0 K(890)+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,415			2,488			2,624	THRESHOLD										
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	4,20	3,00	3,00	WATERS	THESWISC			69	H -0

01/10/71
REACTION 237 PI- P = Y(1405) K(890)+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM

```
  2,435               2,540                   2,676     THRESHOLD
1 5,915 0,000 0,000  24,861  0,000  0,000  25,000 -0,000 -0,000     6,70    6,70    6,70          WATERS  THESWIS          69  H   -0

   01/10/71
  REACTION  236            PI- P = 4 PRONGS K0 AK

N  ECMS   DE+   DE-    TLAB    DT+    DT-    PLAB    DP+    DP-    SIGMA    DS+    DS-               REFERENCE                COM

  2,344               2,309                   2,445     THRESHOLD
1 6,199 0,000 0,000  19,861  0,000  0,000  20,000 -0,000 -0,000  1140,00 360,00 360,00          BALEA   RRP    5    587  70  H   -0

   01/10/71
  REACTION  239            PI- P = 4 PRONGS KS KS

N  ECMS   DE+   DE-    TLAB    DT+    DT-    PLAB    DP+    DP-    SIGMA    DS+    DS-               REFERENCE                COM

  2,323               2,331                   2,466     THRESHOLD
1 5,915 0,000 0,000  24,861  0,000  0,000  25,000 -0,000 -0,000    61,00   10,00   10,00          WATERS  THESWIS          69  H   -0

   01/10/71
  REACTION  240            PI- P = 4 PRONGS ( L / S0 ) KS

N  ECMS   DE+   DE-    TLAB    DT+    DT-    PLAB    DP+    DP-    SIGMA    DS+    DS-               REFERENCE                COM

  2,172               1,895                   2,029     THRESHOLD
1 5,915 0,000 0,000  24,861  0,000  0,000  25,000 -0,000 -0,000    81,80   13,60   13,60          WATERS  THESWISC         70  H   -0

   01/10/71
  REACTION  241            PI- P = P K+ K- PI+ 2PI-

N  ECMS   DE+   DE-    TLAB    DT+    DT-    PLAB    DP+    DP-    SIGMA    DS+    DS-               REFERENCE                COM

  2,345               2,311                   2,446     THRESHOLD
1 3,207 0,000 0,000   4,862  0,000  0,000   5,000 -0,000 -0,000    20,10    9,10    9,10          WEISBA  KIEVCONF         70  H   -0

   01/10/71
  REACTION  242            PI- P = P K+ K- 2PI- PI0

N  ECMS   DE+   DE-    TLAB    DT+    DT-    PLAB    DP+    DP-    SIGMA    DS+    DS-               REFERENCE                COM

  2,344               2,309                   2,445     THRESHOLD
1 3,207 0,000 0,000   4,862  0,000  0,000   5,000 -0,000 -0,000     1,40    1,20    1,20          WEISBA  KIEVCONF         70  H   -0

   [illegible]
```

REACTION 243 PI+ P = P K+ K0 PI+ PI- PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,344			2,309			2,445	THRESHOLD										
1	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	40,00	-0,00	-0,00	BERTAN PR	130	786	63	M	-0
2	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	19,90	4,40	4,40	WEISBA KIEVCONF			70	M	-0

01/10/71
REACTION 244 PI+ P = P K0 K0 PI+ 2PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,353			2,331			2,466	THRESHOLD										
1	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	30,00	-0,00	-0,00	BERTAN PR	130	786	63	M	-0

01/10/71
REACTION 245 PI+ P = P KS K0 PI+ 2PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,353			2,331			2,466	THRESHOLD										
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	11,50	3,30	3,30	WEISBA KIEVCONF			70	M	-0

01/10/71
REACTION 246 PI+ P = N K+ K0 PI+ 2PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,350			2,324			2,460	THRESHOLD										
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	9,20	2,90	2,90	WEISBA KIEVCONF			70	M	-0

01/10/71
REACTION 247 PI+ P = N K+ K0 2PI+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,350			2,324			2,460	THRESHOLD										
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	13,10	3,40	3,40	WEISBA KIEVCONF			70	M	-0

01/10/71
REACTION 248 PI+ P = N K0 K0 PI+ PI- ZO

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM

	2,484			2,670			2,606	THRESHOLD											
1	3,970	0,000	0,000	7,782	0,000	0,000	7,920	-0,000	-0,000	45,00	-0,00	-0,00	EHRLIC	PR	152	1194	66	M	-0

01/10/71
REACTION 249 PI- P = L K- PI- 2PI- PI0

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE					COM
	2,163			1,875			2,010	THRESHOLD										
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	38,00	4,80	4,80	WEISBA	KIEVCONF			70	M -0

01/10/71
REACTION 250 PI- P = L K0 2PI- 2PI-

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE					COM
	2,172			1,895			2,029	THRESHOLD										
1	2,954	0,000	0,000	2,864	0,000	0,000	3,000	-0,000	-0,000	1,00	1,00	1,00	WANGLE	PR 8137	414	65	M	-0
2	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	20,10	3,30	3,30	WEISBA	KIEVCONF			70	M -0

01/10/71
REACTION 251 PI- P = L K0 PI- PI- 2PI0

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE					COM
	2,165			1,873			2,008	THRESHOLD										
1	3,236	,029	,029	4,962	,100	,100	5,100	,100	,100	25,00	18,00	18,00	BUDAGO	KIEVCONF			70	P -0

01/10/71
REACTION 252 PI- P = (L / S0) K- PI- 2PI- PI0

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE					COM
	2,163			1,875			2,010	THRESHOLD										
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	12,00	6,00	6,00	BARTSC	NC A43	1010	66	M	-0
2	3,103	,151	,151	4,512	,170	,170	4,650	,170	,170	50,00	-0,00	-0,00	BERTAN	PR 130	786	63	M	-0

01/10/71
REACTION 253 PI- P = (L / S0) K- PI- 2PI- Z0

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE					COM
	2,298			2,196			2,331	THRESHOLD										
1	2,900	,019	,919	3,863	,060	,060	4,000	,060	,060	60,00	10,00	10,00	BANNIK	DUBN3682			68	P -0

01/10/71
REACTION 254 PI- P = (L / S0) K+ K+ K0 PI+ PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,880			3,402			3,939	THRESHOLD										
1	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	10,00	-0,00	+0,00	BERTAN	PR	130	786	63	M +0

01/10/71
REACTION 255 PI- P = (L / S0) K0 2PI+ 2PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,172			1,895			2,029	THRESHOLD										
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	+0,000	+0,000	3,00	3,00	3,00	BARTSC	NC	A43	1010	66	M +0
2	3,103	,051	,051	4,512	,170	,170	4,650	,170	,170	20,00	-0,00	+0,00	BERTAN	PR	130	786	63	M +0
3	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	8,00	-0,00	+0,00	BIGI	NC	33	1265	64	M +0
4	6,915	0,000	0,000	24,861	0,000	0,000	25,000	+0,000	+0,000	2,80	1,20	1,20	WATERS	THESWIS			69	M 25

01/10/71
REACTION 256 PI- P = (L / S0) (K PI) + PI+ 2PI- Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,438			2,548			2,684	THRESHOLD										
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	+0,000	+0,000	2,00	8,00	2,00	BARTSC	NC	A43	1010	66	M +0

01/10/71
REACTION 257 PI- P = S(+,+) K5 (3PI)(+,+) PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,241			2,057			2,193	THRESHOLD										
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	+0,000	+0,000	45,20	19,40	19,40	WATERS	THESWISC			69	M 25

01/10/71
REACTION 258 PI- P = S(+,+) K5 (3PI)(+,+) Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,376			2,390			2,525	THRESHOLD										
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	+0,000	+0,000	41,40	8,90	8,90	WATERS	THESWISC			69	M 25

01/10/71
REACTION 259 PI- P = S+ (K PI) + 2PI+ Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,367			2,368			2,504	THRESHOLD						
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	5,00	4,00	4,00	BARTSC NC A43 1010 66 H	-0

01/10/71
REACTION 260 PI- P = S+ K+ PI- 3PI+

N	ECMS	DP+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,242			2,059			2,194	THRESHOLD						
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	2,80	1,80	1,80	WEISBA KIEVCONF 70 H	-0

01/10/71
REACTION 261 PI- P = S+ K0 PI- 2PI+ Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,376			2,390			2,525	THRESHOLD						
1	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	8,00	-0,00	-0,00	BIGI NC 33 1265 64 H	-0

01/10/71
REACTION 262 PI- P = S+ K0 PI+ 2PI- PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,241			2,057			2,193	THRESHOLD						
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	2,60	1,40	1,40	WEISBA KIEVCONF 70 H	-0
2	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	31,00	-0,00	-0,00	BIGI NC 33 1265 64 H	-0

01/10/71
REACTION 263 PI- P = S- (K PI) + PI+ PI- Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,375			2,388			2,524	THRESHOLD						
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	7,00	4,00	4,00	BARTSC NC A43 1010 66 H	-0

01/10/71
REACTION 264 PI- P = S- K+ 2PI+ 2PI-

N	ECMS	DP+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,249			2,078			2,213	THRESHOLD						
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	2,30	,90	,90	WEISBA KIEVCONF 70 H	-0

01/10/71
REACTION 265 PI- P = S- K0 2PI+ PI- Z0

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	2,384			2,410			2,545	THRESHOLD											
1	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	22,00	-0,00	-0,00	BIGI	NC	33	1265	64	H	-0

01/10/71
REACTION 266 PI- P = S- K0 2PI+ PI- PI0

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	2,249			2,076			2,211	THRESHOLD											
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	5,00	1,80	1,80	WEISBA	KIEVCONF			70	H	-0
2	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	29,00	-0,00	-0,00	BIGI	NC	33	1265	64	H	-0

01/10/71
REACTION 267 PI- P = S0 K0 2PI+ 2PI-

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	2,249			2,076			2,211	THRESHOLD											
1	3,207	0,000	0,000	4,862	0,000	0,000	5,000	-0,000	-0,000	4,30	1,90	1,90	WEISBA	KIEVCONF			70	H	-0

01/10/71
REACTION 268 PI- P = 6 PRONGS (L / S0)

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	2,311			2,228			2,364	THRESHOLD											
1	6,199	0,000	0,000	19,861	0,000	0,000	20,000	-0,000	-0,000	260,00	150,00	150,00	BALEA	RRP	15	587	70	H	-0

01/10/71
REACTION 269 PI- P = (L / S0) K0 2PI+ 2PI- PI0

N	ECMS	DE-	DE-	TLAB	DT-	DT-	PLAB	DP-	DP-	SIGMA	DS-	DS-	REFERENCE						COM
	2,307			2,217			2,352	THRESHOLD											
1	2,900	0,000	0,000	3,863	0,000	0,000	4,000	-0,000	-0,000	10,00	10,00	10,00	BARTSC	NC	A43	1010	66	H	-0
2	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	65,00	-0,00	-0,00	BIGI	NC	33	1265	64	H	-0
3	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	25,00	6,20	6,20	WATERS	THESWIS			69	H	-0

01/10/71
REACTION 270 PI- P = (L / S0) K0 2PI+ 2PI- Z0

N	ECMS	DE*	DE*	TLAB	DT*	DT*	PLAB	DP*	DP*	SIGMA	DS*	DS*	REFERENCE					
	2,442			2,558			2,694	THRESHOLD										
1	2,900	,019	,019	3,863	,060	,060	4,000	,060	,060	30,00	10,00	10,00	BANNIK	DUBN3682			68	P +0
2	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	63,00	-0,00	+0,00	BIGI	NC	33	1265	64	H +0
3	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	50;20	4,20	4,20	WATERS	THESWIS			69	H +0

01/10/71
REACTION 271 PI- P = S(*,*) KS (5PI)(*,*)

N	ECMS	DE*	DE*	TLAB	DT*	DT*	PLAB	DP*	DP*	SIGMA	DS*	DS*	REFERENCE					
	2,365			2,413			2,549	THRESHOLD										
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	6,20	3,90	3,90	WATERS	THESWISC			69	H 25

01/10/71
REACTION 272 PI- P = S- K0 3PI+ 2PI-

N	ECMS	DE*	DE*	TLAB	DT*	DT*	PLAB	DP*	DP*	SIGMA	DS*	DS*	REFERENCE					
	2,393			2,433			2,569	THRESHOLD										
1	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	0,00	-0,00	+0,00	BIGI	NC	33	1265	64	H +0

01/10/71
REACTION 273 PI- P = 6 PRONGS K0 AA

N	ECMS	DE*	DE*	TLAB	DT*	DT*	PLAB	DP*	DP*	SIGMA	DS*	DS*	REFERENCE					
	2,823			3,048			3,185	THRESHOLD										
1	6,199	0,000	0,000	19,861	0,000	0,000	20,000	-0,000	+0,000	710,00	250,00	250,00	BALEA	RPP	5	587	70	H +0

01/10/71
REACTION 2 - PI- P = 6 PRONGS KS KS

N	ECMS	DE*	DE*	TLAB	DT*	DT*	PLAB	DP*	DP*	SIGMA	DS*	DS*	REFERENCE					
	2,632			3,073			3,209	THRESHOLD										
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	32,60	7,70	7,70	WATERS	THESWIS			69	H +0

01/10/71
REACTION 275 PI- P = 6 PRONGS (L / S0) KS

N	ECMS	DE*	DE*	TLAB	DT*	DT*	PLAB	DP*	DP*	SIGMA	DS*	DS*	REFERENCE					

	2,451			2,582			2,718	THRESHOLD											
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	40,20	8,00	8,00		WATERS	THESWISC		70	H	-0

01/10/71
REACTION 276 PI- P = (L / SU) K0 3PI+ 3PI-

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,451			2,582			2,718	THRESHOLD										
1	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	0,00	-0,00	-0,00	BIGI	NC	33	1265	64 H	-0
2	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	2,00	1,40	1,40	WATERS	THESWIS			69 H	-0

01/10/71
REACTION 277 PI- P = S(-,-) KS (5PI)(-,-) PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,520			2,766			2,902	THRESHOLD										
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	26,80	8,80	8,80	WATERS	THESWISC			69 H	25

01/10/71
REACTION 278 PI- P = S(+,-) KS (5PI)(-,+) Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,655			3,138			3,275	THRESHOLD										
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	25,80	8,20	8,20	WATERS	THESWISC			69 H	25

01/10/71
REACTION 279 PI- P = S+ K0 2PI+ 3PI- PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,520			2,766			2,902	THRESHOLD										
1	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	10,00	-0,00	-0,00	BIGI	NC	33	1265	64 H	-0

01/10/71
REACTION 280 PI- P = S+ K0 2PI+ 3PI- Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE					COM
	2,655			3,138			3,275	THRESHOLD										
1	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	3,00	-0,00	-0,00	BIGI	NC	33	1265	64 H	-0

01/10/71

REACTION 281 PI- P = S- K0 3PI+ 2PI- PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,528			2,787			2,923	THRESHOLD											
1	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	6,00	-0,00	-0,00	BIGI	NC	33	1265	64	M	-0

01/10/71
REACTION 282 PI- P = S- K0 3PI+ 2PI- Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	[illegible]			[illegible]			[illegible]	THRESHOLD											
1	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	15,00	-0,00	-0,00	BIGI	NC	33	1265	64	M	-0

01/10/71
REACTION 283 PI- P = 8 PRONGS (L / S0)

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,587			2,947			3,083	THRESHOLD											
1	6,199	0,000	0,000	19,861	0,000	0,000	20,000	-0,000	+0,000	30,00	20,00	20,00	BALEA	KRP	15	587	70	M	-0

01/10/71
REACTION 284 PI- P = S(+,+) KS(7PI)(+,+)

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,664			3,164			3,301	THRESHOLD											
1	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	+0,000	0,00	1,20	1,20	WATERS	THESWISC			69	M	25

01/10/71
REACTION 285 PI- P = (L / S0) K0 3PI+ 3PI- PI0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE						COM
	2,586			2,945			3,081	THRESHOLD											
1	4,435	,127	,127	9,861	,600	,600	10,000	,600	,600	5,00	-0,00	-0,00	BIGI	NC	33	1265	64	M	-0
2	6,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	10,40	3,10	3,10	WATERS	THESWIS			69	M	-0

01/10/71
REACTION 286 PI- P = (L / S0) K0 3PI+ 3PI- Z0

N	ECMS	DE+	DE-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM

```
  2,721             3,327                      3,463     THRESHOLD
1 4,435  ,127  ,127  9,861   ,600   ,600  10,000   ,600   ,600     5,00  -0,00  -0,00          BIGI    NC    33  1265  64  H   -0
2 6,915 0,000 0,000 24,861  0,000  0,000  25,000 -0,000 -0,000    27,00   3,90   3,90          WATERS  THESWIS             69  H   -0
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  01/10/71
  REACTION  287           PI- P = 8 PRONGS K0 AK
------------------------------------------------------------------------------------------------------------------------------------
N  ECMS   DE+   DE-    TLAB    DT+    DT-    PLAB    DP+    DP-    SIGMA    DS+    DS-              REFERENCE                 COM
------------------------------------------------------------------------------------------------------------------------------------
  2,902             3,871                      4,008     THRESHOLD
1 6,199 0,000 0,000 19,861  0,000  0,000  20,000 -0,000 -0,000   160,00  10,00  10,00          BALEA   RRP     5   587  70  H   -0
------------------------------------------------------------------------------------------------------------------------------------

************************************************************************************************************************************
  01/10/71
  REACTION  288           PI- P = 8 PRONGS KS KS
------------------------------------------------------------------------------------------------------------------------------------
N  ECMS   DE+   DE-    TLAB    DT+    DT-    PLAB    DP+    DP-    SIGMA    DS+    DS-              REFERENCE                 COM
------------------------------------------------------------------------------------------------------------------------------------
  2,413             2,465                      2,621     THRESHOLD
1 6,915 0,000 0,000 24,861  0,000  0,000  25,000 -0,000 -0,000     4,60   4,10   4,10          WATERS  THESWIS             69  H   -0
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  01/10/71
  REACTION  289           PI- P = 8 PRONGS ( L / S0 ) KS
------------------------------------------------------------------------------------------------------------------------------------
N  ECMS   DE+   DE-    TLAB    DT+    DT-    PLAB    DP+    DP-    SIGMA    DS+    DS-              REFERENCE                 COM
------------------------------------------------------------------------------------------------------------------------------------
  2,232             2,037                      2,172     THRESHOLD
1 6,915 0,000 0,000 24,861  0,000  0,000  25,000 -0,000 -0,000     5,60   5,00   5,00          WATERS  THESWISC            70  H   -0
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************************************************************************************************************************************
  01/10/71
  REACTION  290           PI- P = L KU 4PI+ 4PI-
------------------------------------------------------------------------------------------------------------------------------------
N  ECMS   DE+   DE-    TLAB    DT+    DT-    PLAB    DP+    DP-    SIGMA    DS+    DS-              REFERENCE                 COM
------------------------------------------------------------------------------------------------------------------------------------
  [illegible]       [illegible]                [illegible] THRESHOLD
1 6,915 0,000 0,000 24,861  0,000  0,000  25,000 -0,000 -0,000     0,00    ,80    ,80          WATERS  THESWIS             69  H   -0
------------------------------------------------------------------------------------------------------------------------------------

************************************************************************************************************************************
  01/10/71
  REACTION  291           PI- P = S(+,-) KS(7PI)(+,+) PI0
------------------------------------------------------------------------------------------------------------------------------------
N  ECMS   DE+   DE-    TLAB    DT+    DT-    PLAB    DP+    DP-    SIGMA    DS+    DS-              REFERENCE                 COM
------------------------------------------------------------------------------------------------------------------------------------
  2,799             3,557                      3,694     THRESHOLD
1 6,915 0,000 0,000 24,861  0,000  0,000  25,000 -0,000 -0,000     8,40   4,50   4,50          WATERS  THESWISC            69  H   25
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  01/10/71
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REACTION 292 PI- P = S(+,-),KS(2PI)(+,+) 70

N	FCMS	DF+	DF-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,984		3,970				4,107	THRESHOLD						
1	0,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	4,20	3,60	3,20	WATERS THESWISC 69 M 25	

01/10/71
REACTION 293 PI- P = 10 PRONGS (L / SU)

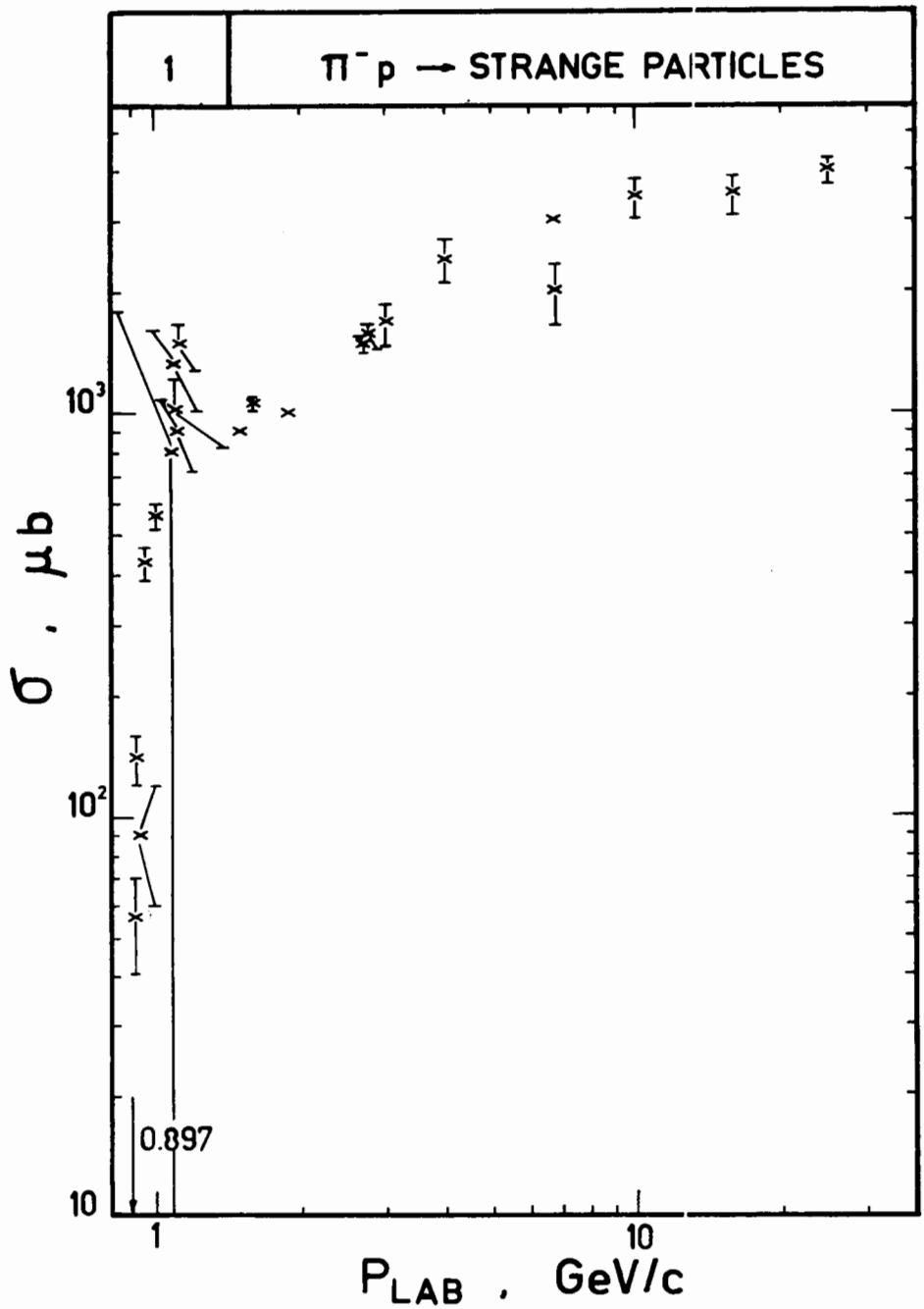
N	FCMS	DF+	DF-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,760		3,342				3,479	THRESHOLD						
1	0,199	0,000	0,000	19,861	0,000	0,000	20,000	-0,000	-0,000	10,00	10,00	10,00	BALEA HRP 15 587 70 M +0	

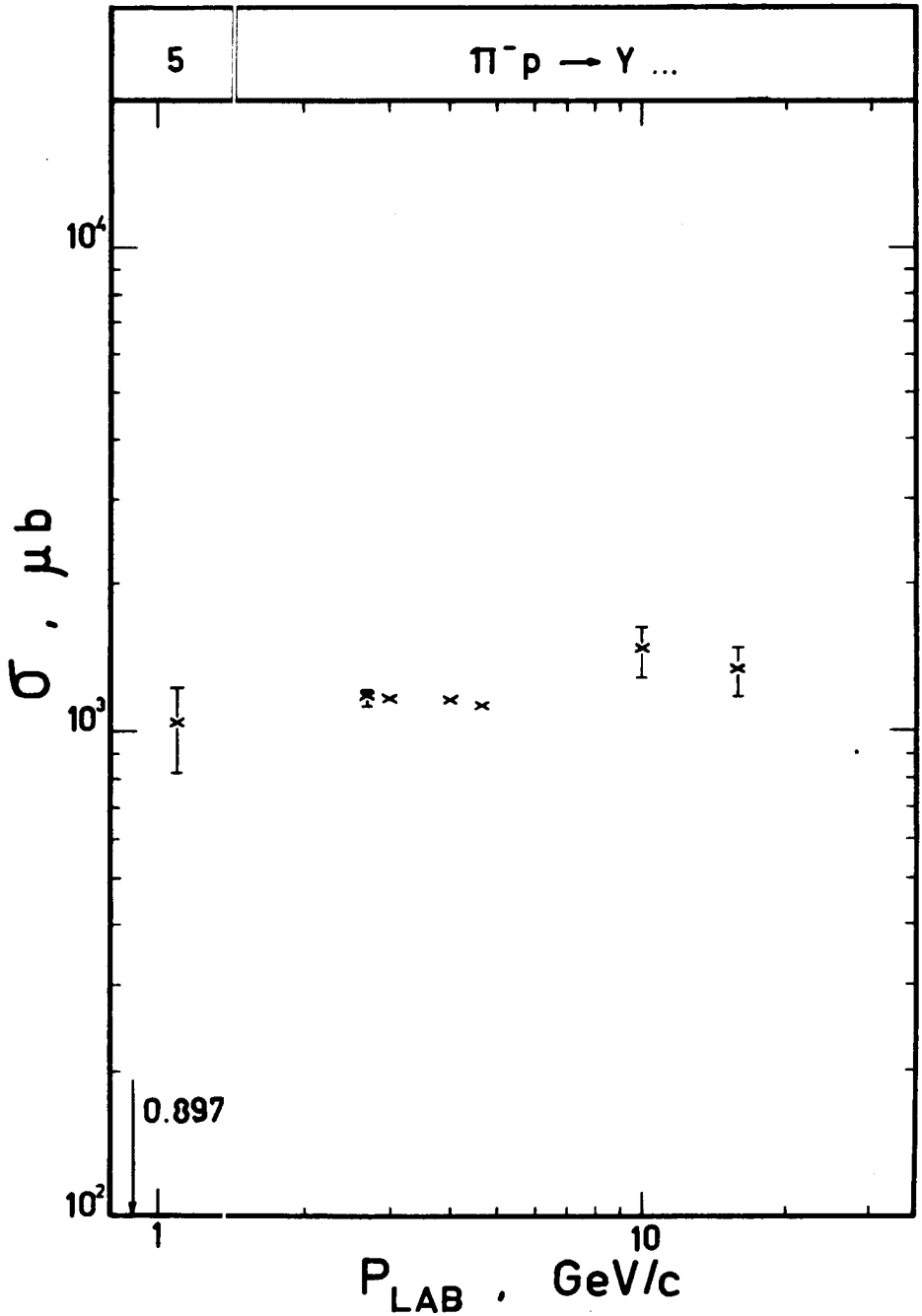
01/10/71
REACTION 294 PI- P = (L / SU) K0 4PI+ 4PI- PI0

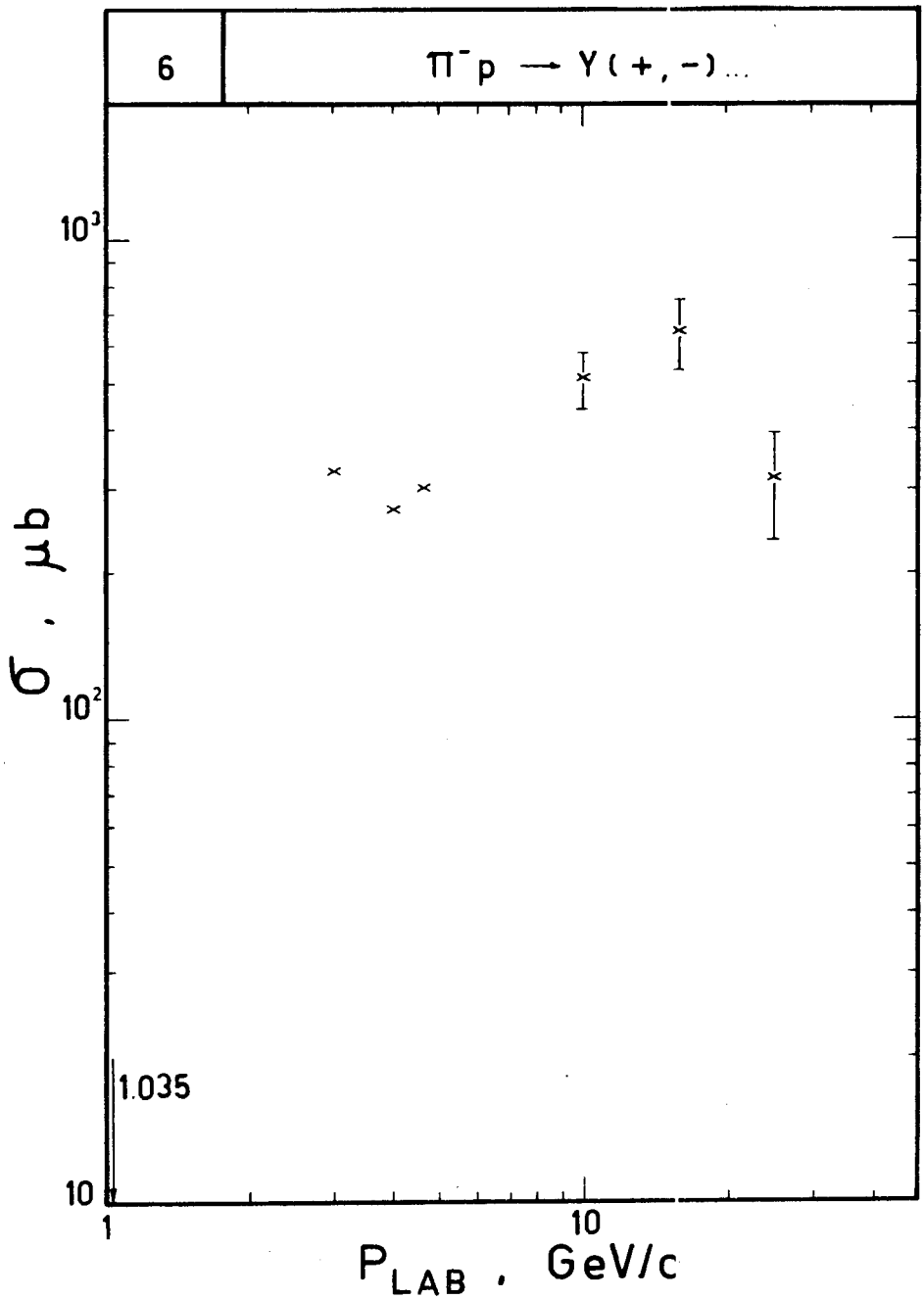
N	FCMS	DF+	DF-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	2,865		3,756				3,893	THRESHOLD						
1	0,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	2,40	2,00	2,00	WATERS THESWIS 69 M 25	

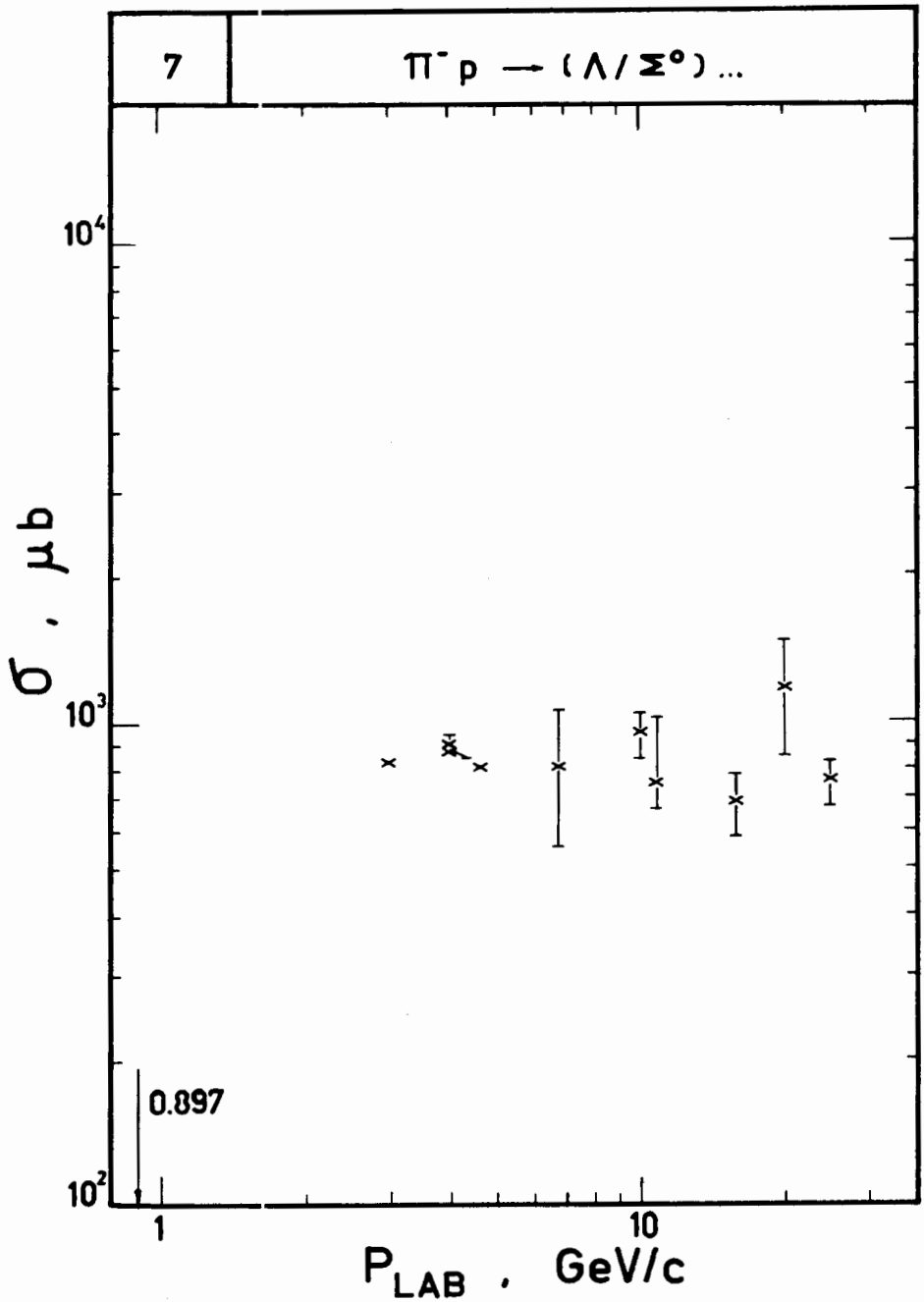
01/10/71
REACTION 295 PI- P = (L / SU) K0 4PI+ 4PI- 2U

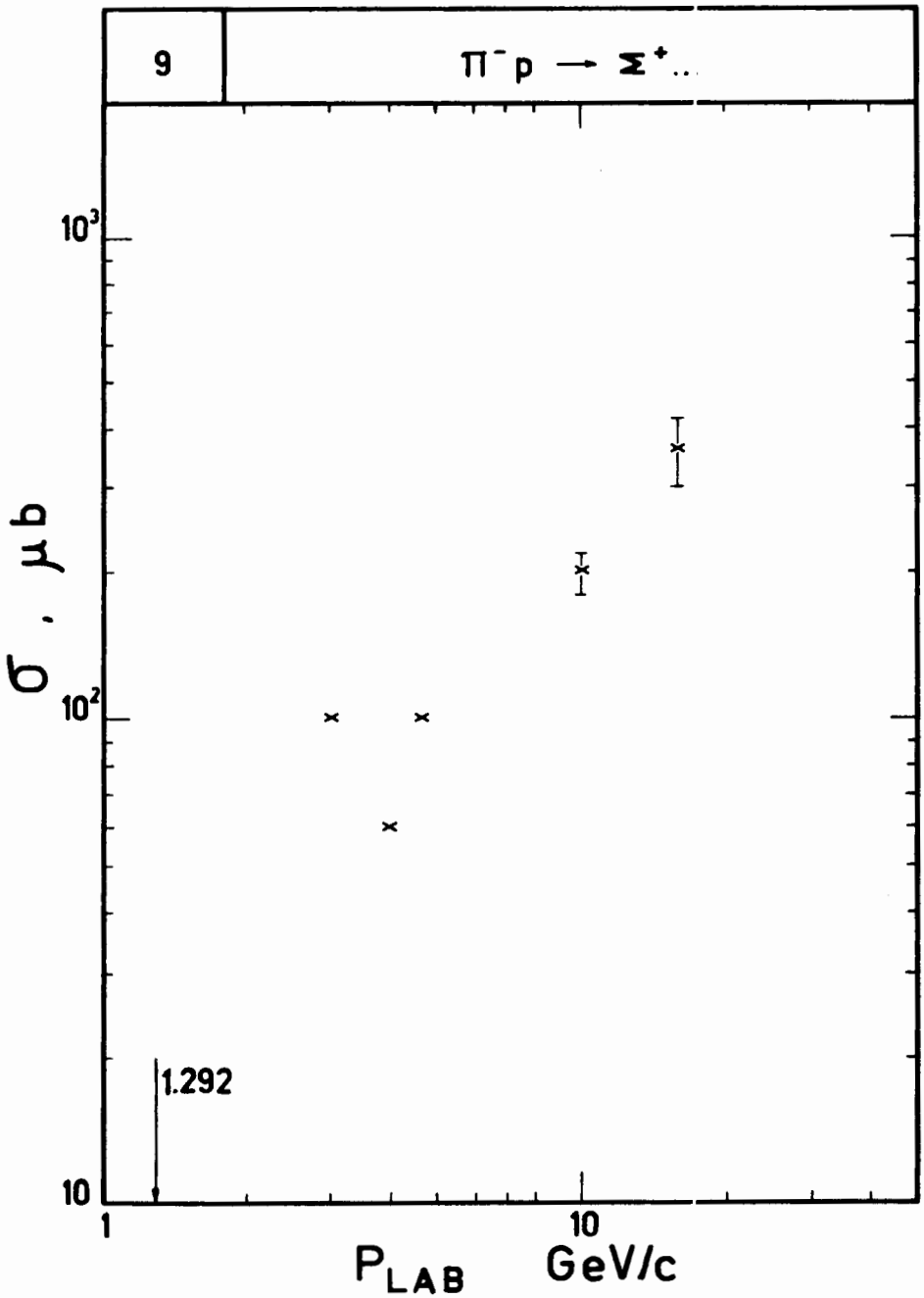
N	FCMS	DF+	DF-	TLAB	DT+	DT-	PLAB	DP+	DP-	SIGMA	DS+	DS-	REFERENCE	COM
	3,000		4,178				4,315	THRESHOLD						
1	0,915	0,000	0,000	24,861	0,000	0,000	25,000	-0,000	-0,000	2,80	2,00	2,00	WATERS THESWIS 69 M 25	

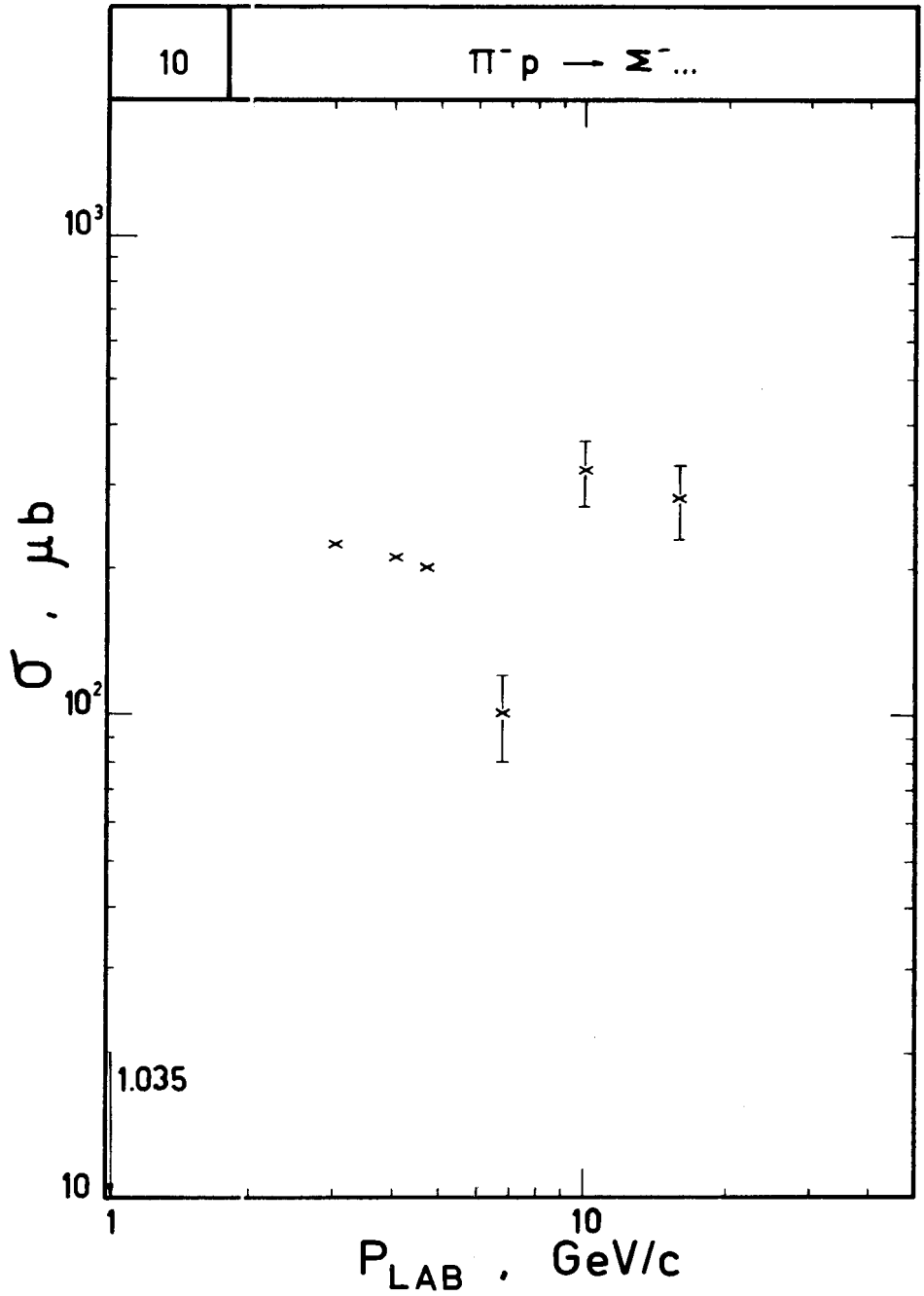

1
π⁻p → STRANGE PARTICLES
10³
10²
10
σ , μb
0.897
1
10
P_LAB , GeV/c

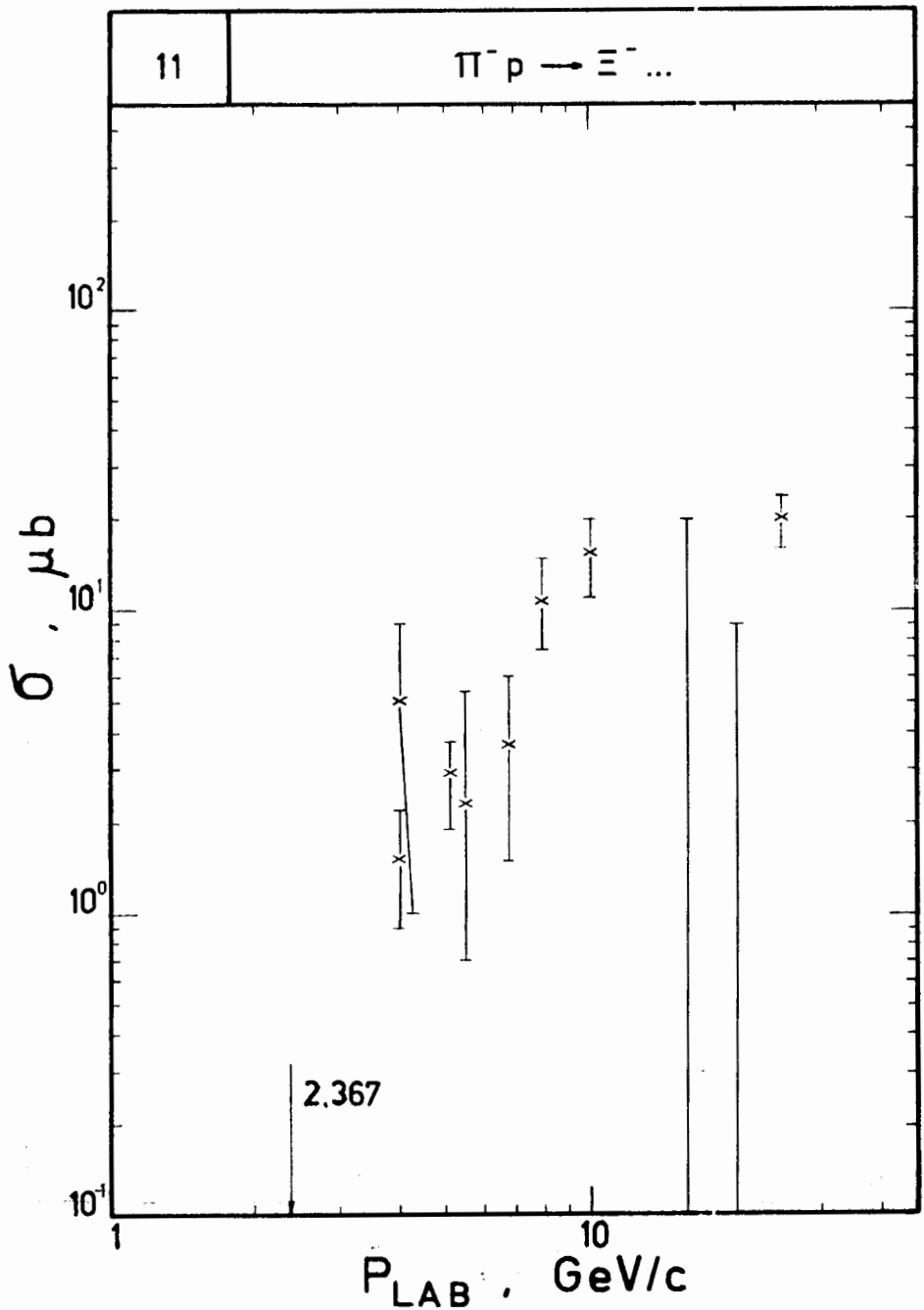

5
π⁻p → Y ...
10⁴
10³
10²
σ , μb
0.897
1
10
P_LAB , GeV/c

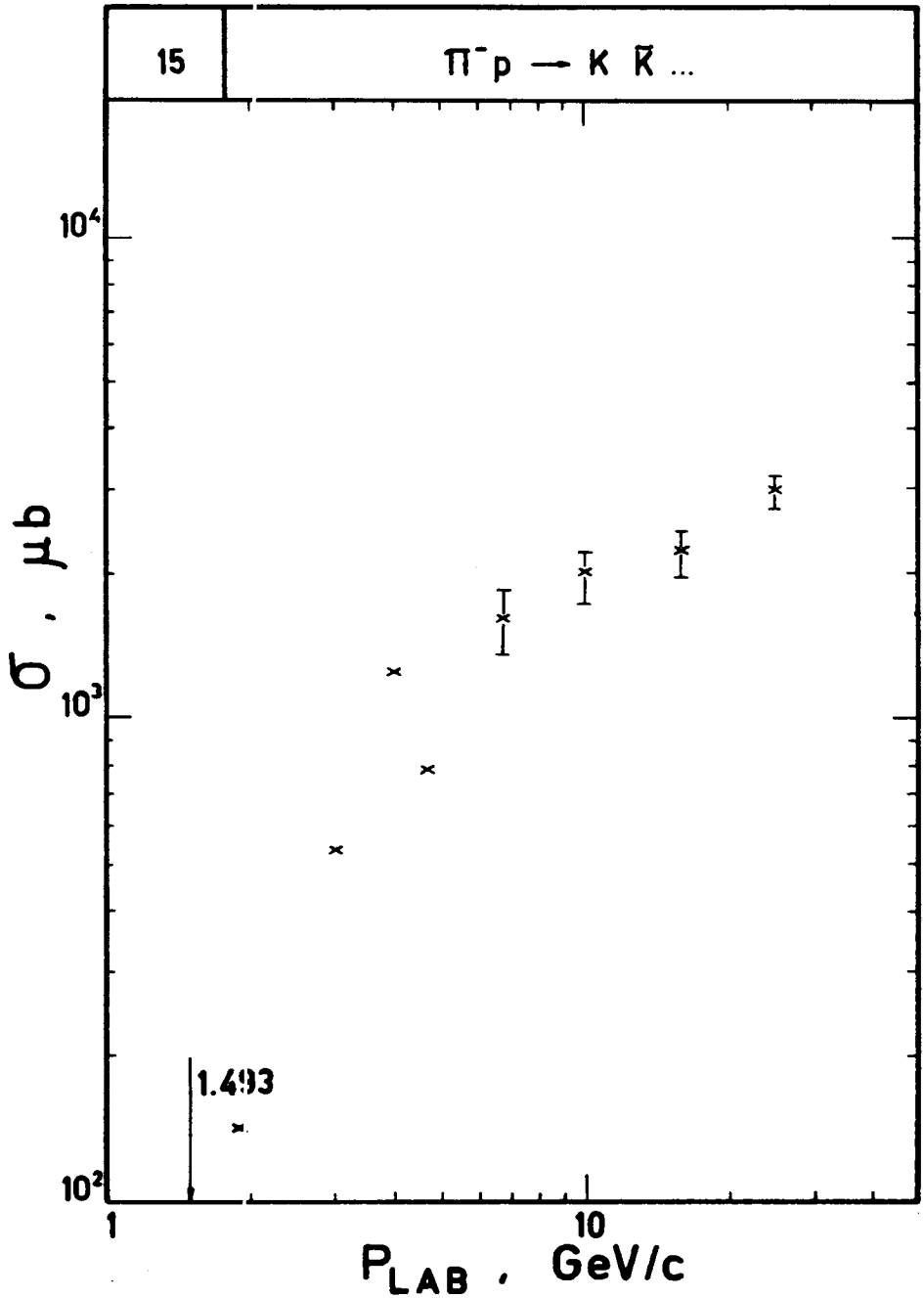

6
$\pi^- p \rightarrow Y(+,-)\ldots$
10^3
10^2
10
σ , μb
1.035
1
10
P_{LAB} , GeV/c

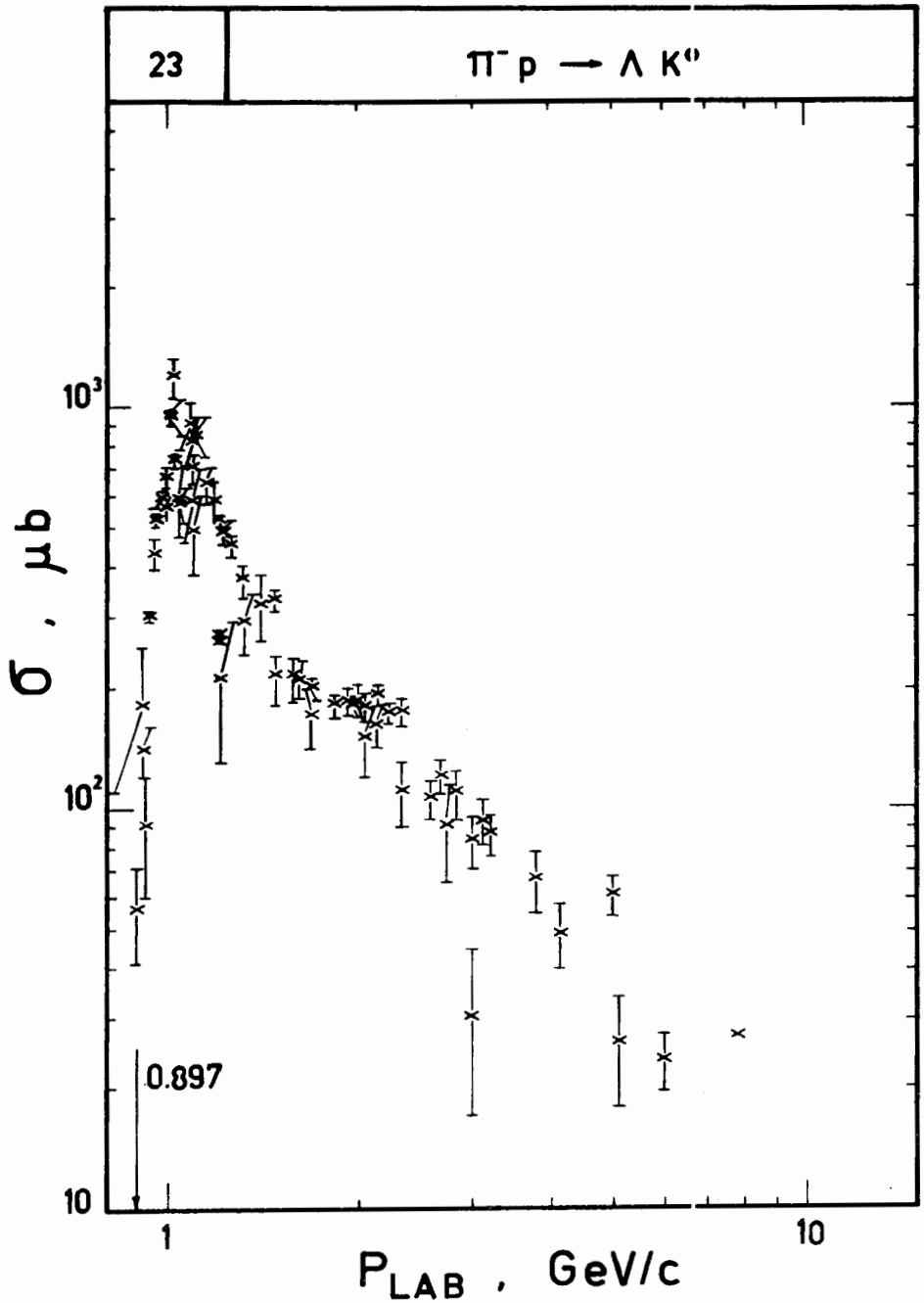

7
π⁻ p → (Λ / Σ°) ...
10⁴
10³
10²
σ , μb
0.897
1
10
P_LAB , GeV/c

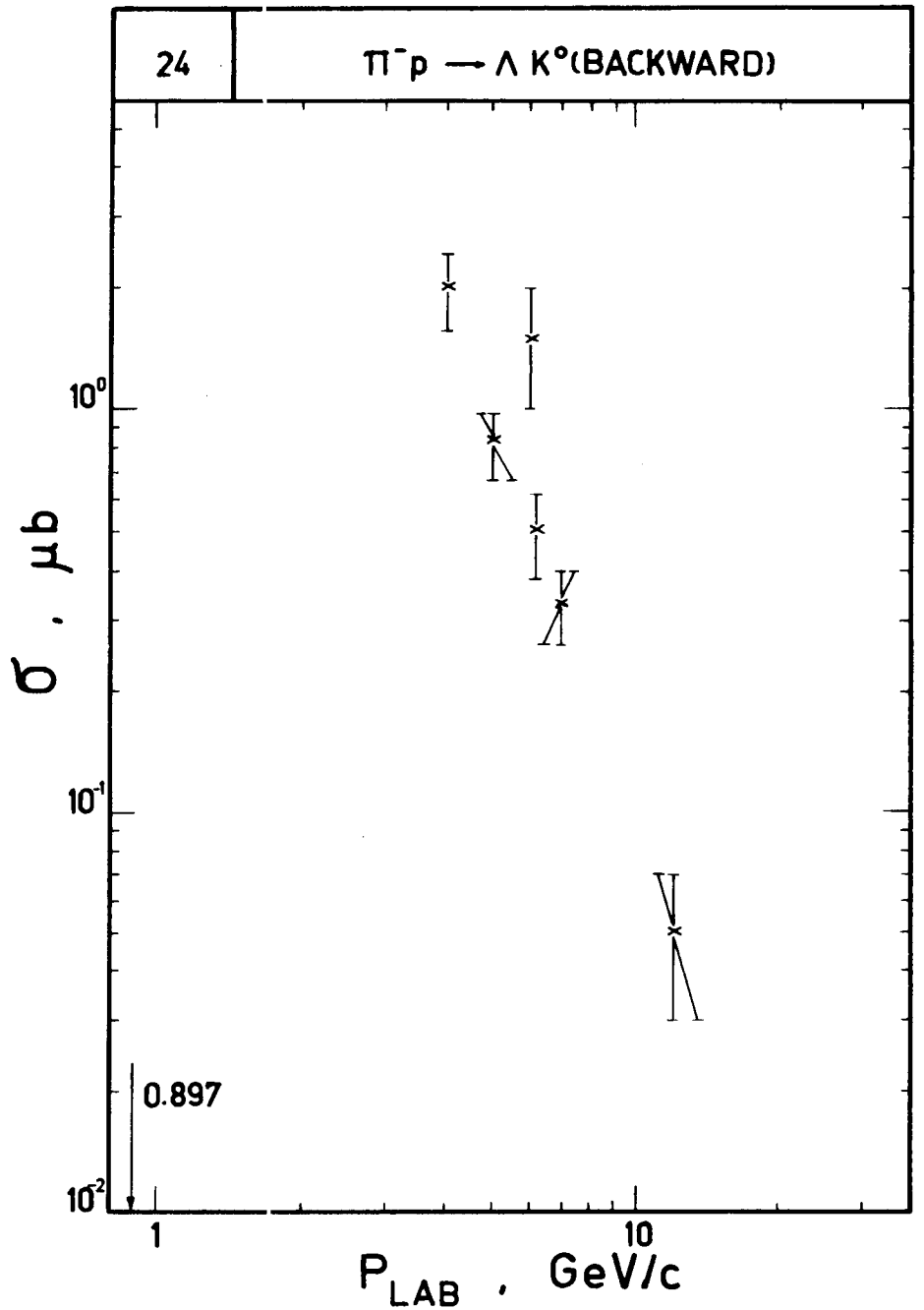

9
$\pi^- p \rightarrow \Sigma^+ ..$
10^3
10^2
10
σ , μb
1.292
1
10
P_{LAB} GeV/c

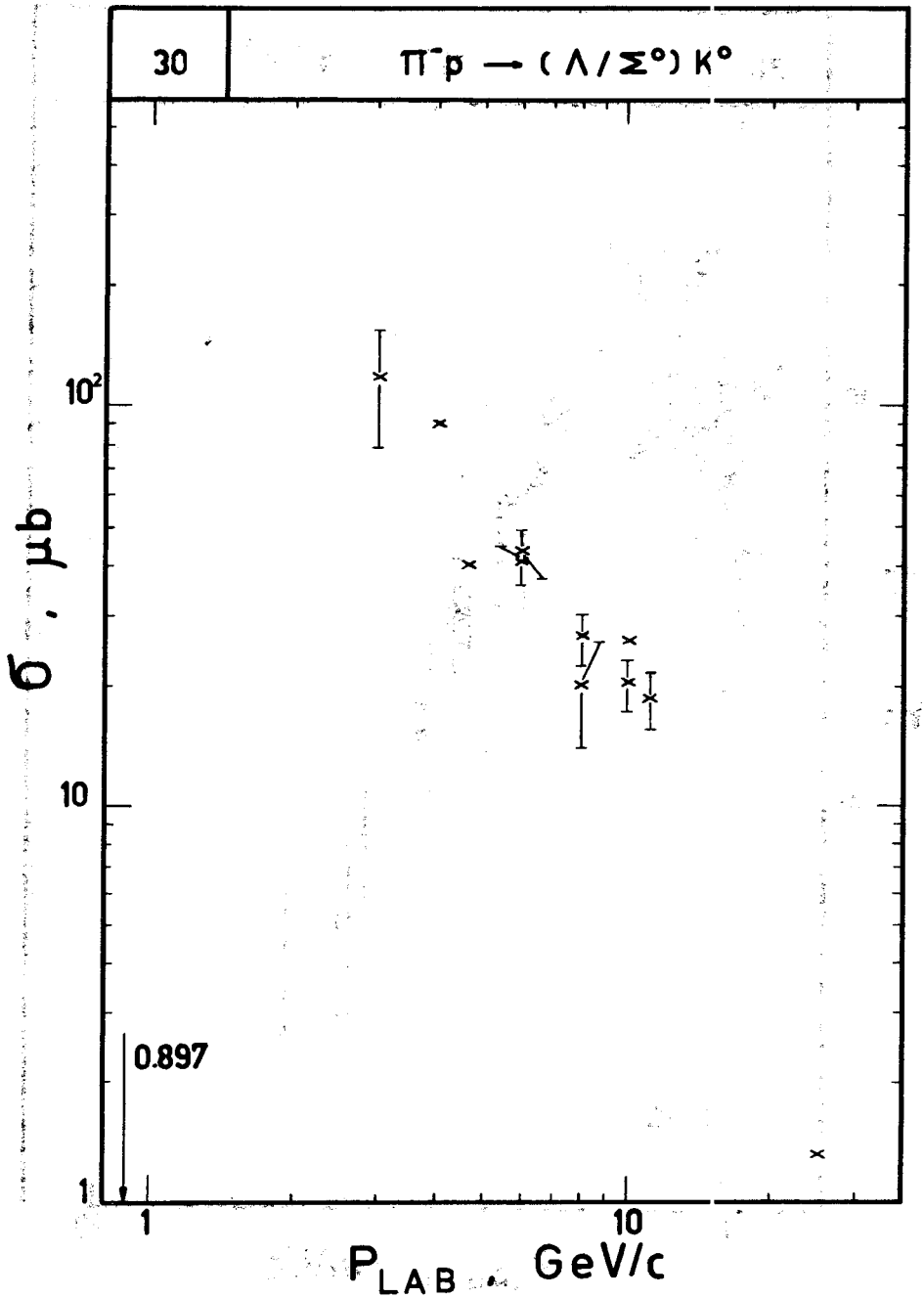

10
$\pi^- p \rightarrow \Sigma^- \ldots$
10^3
10^2
10
σ , μb
1.035
1
10
P_{LAB} , GeV/c

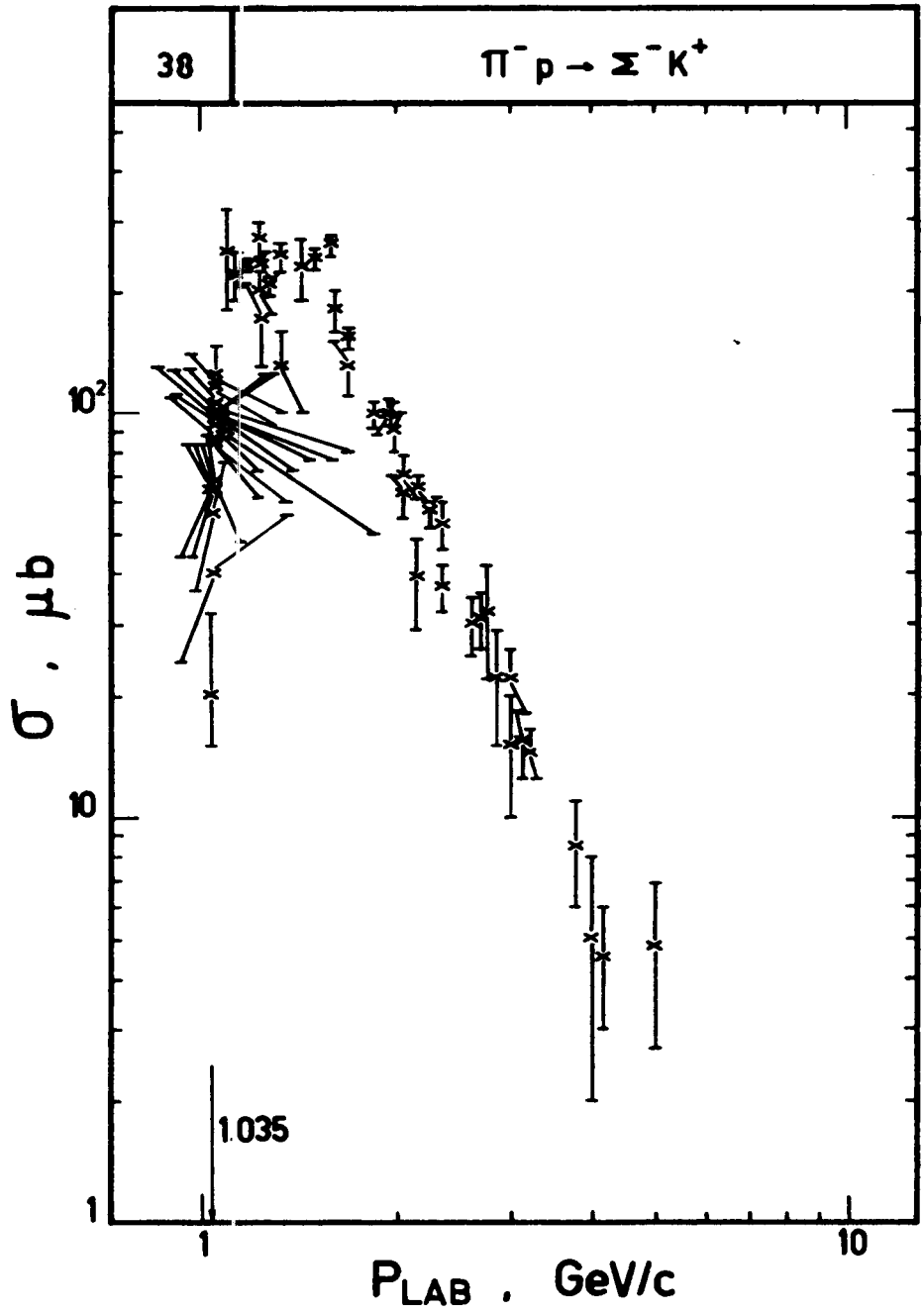

11
$\pi^- p \rightarrow \Xi^- \ldots$
10^2
10^1
10^0
10^{-1}
σ , μb
2.367
1
10
P_{LAB} , GeV/c

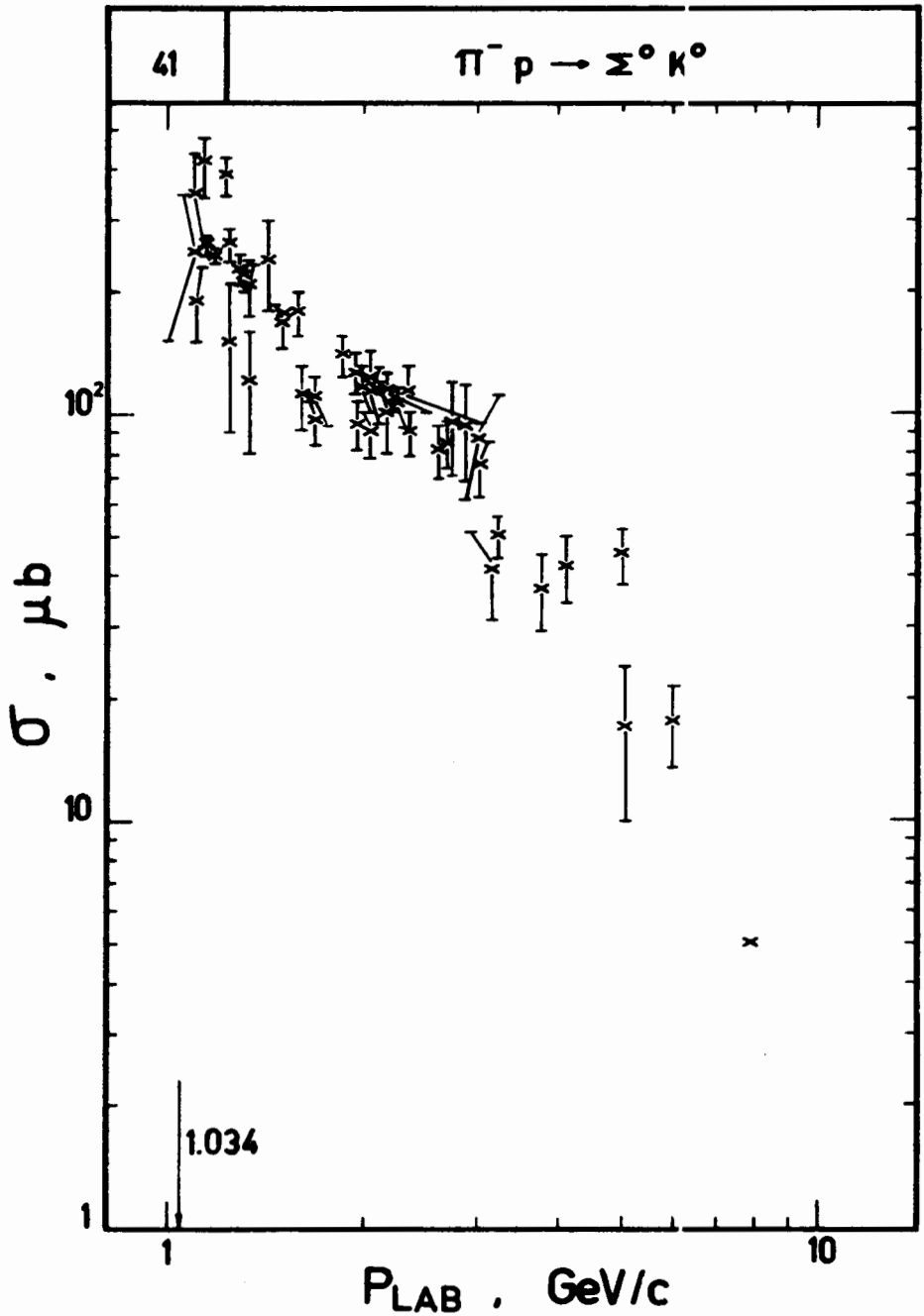

15
$\pi^- p \rightarrow K \bar{K} \ldots$
10^4
10^3
10^2
σ , μb
1.493
1
10
P_{LAB} , GeV/c

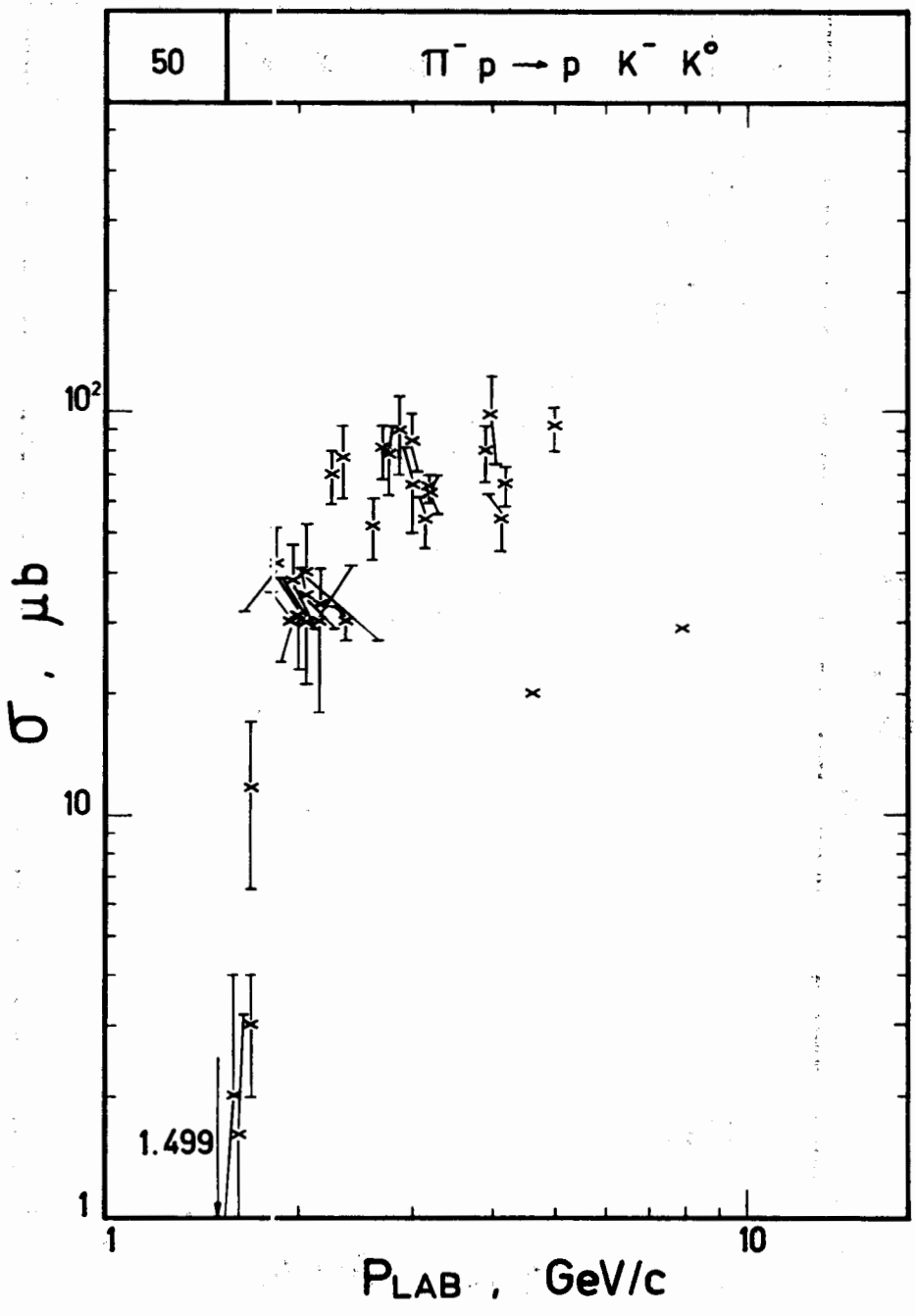

23
π⁻ p → Λ K⁰
10³
10²
10
σ , μb
0.897
1
10
P_LAB , GeV/c

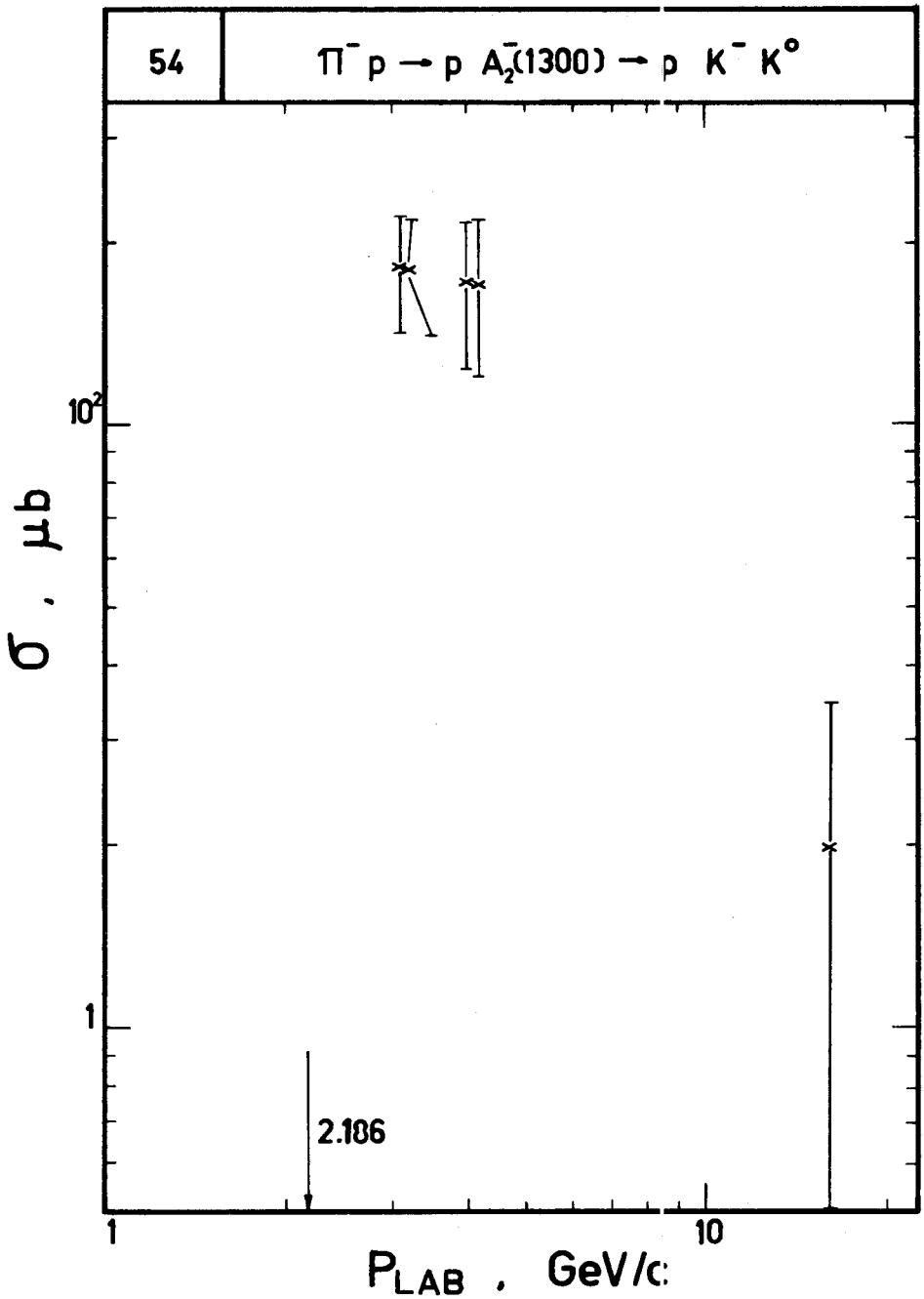

24
π⁻p → Λ K°(BACKWARD)
10⁰
10⁻¹
10⁻²
σ , μb
0.897
1
10
P_LAB , GeV/c

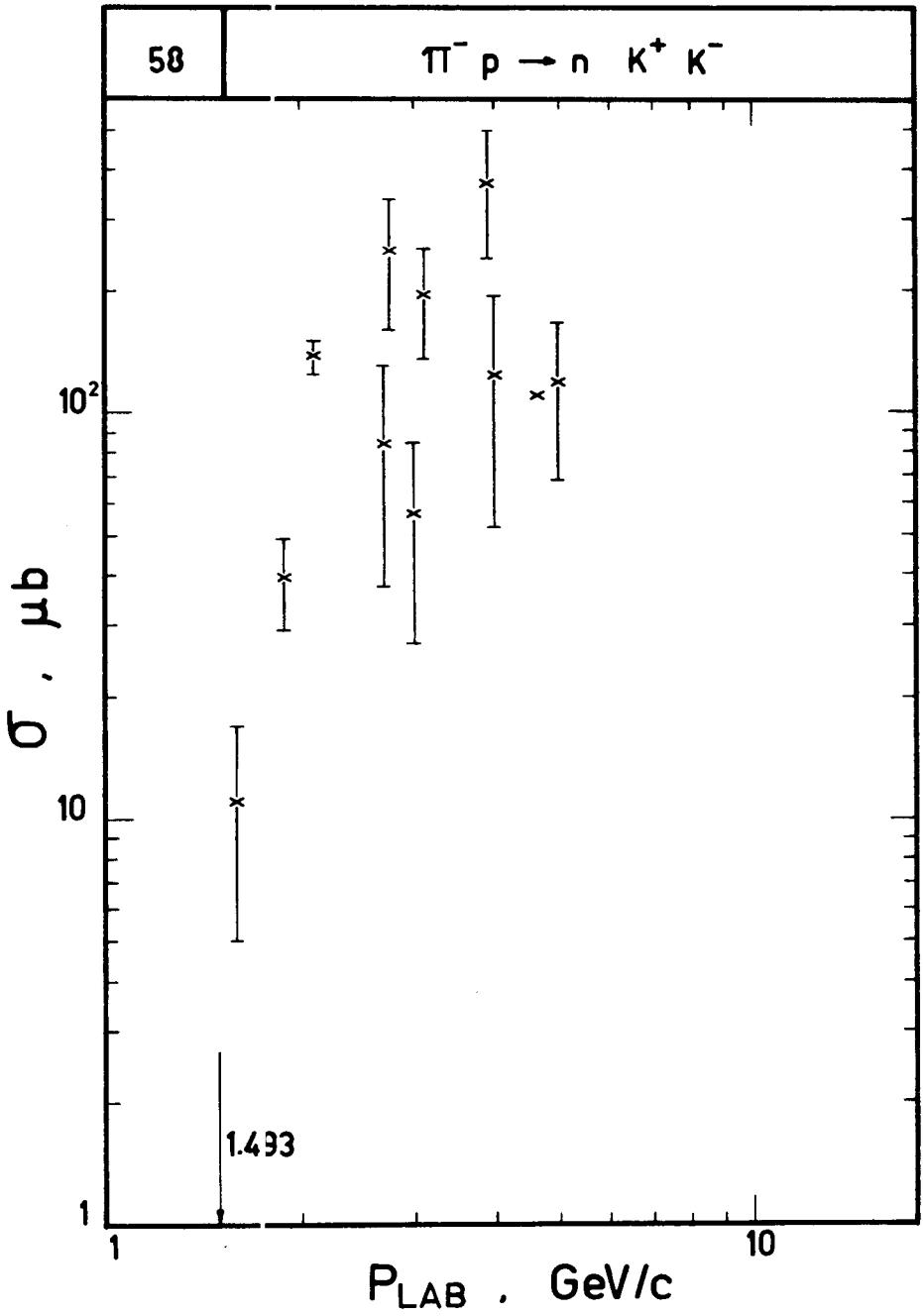

30
π⁻p → (Λ / Σ°) K°
10²
10
1
σ , μb
0.897
1
10
P LAB GeV/c

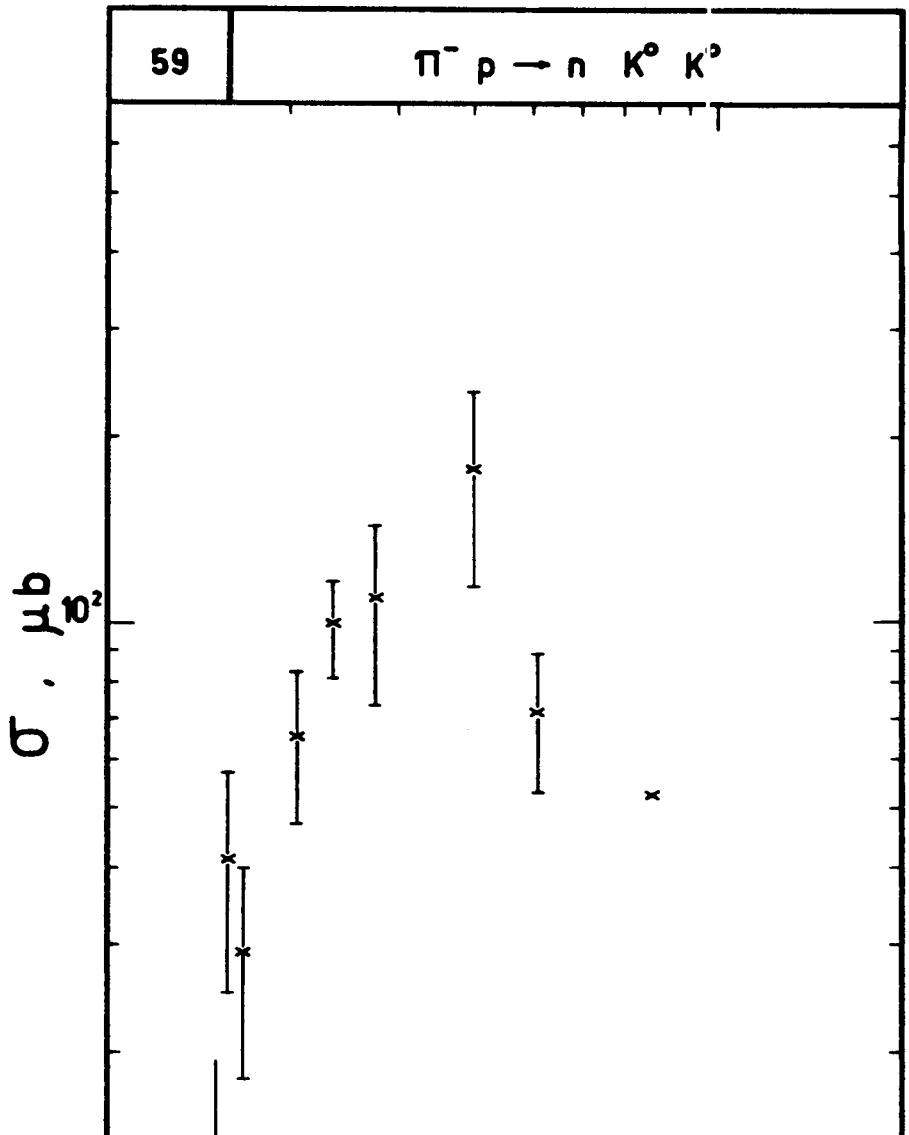

38
$\pi^- p \rightarrow \Sigma^- K^+$
10^2
10
1
σ , μb
1.035
1
10
P_{LAB} , GeV/c

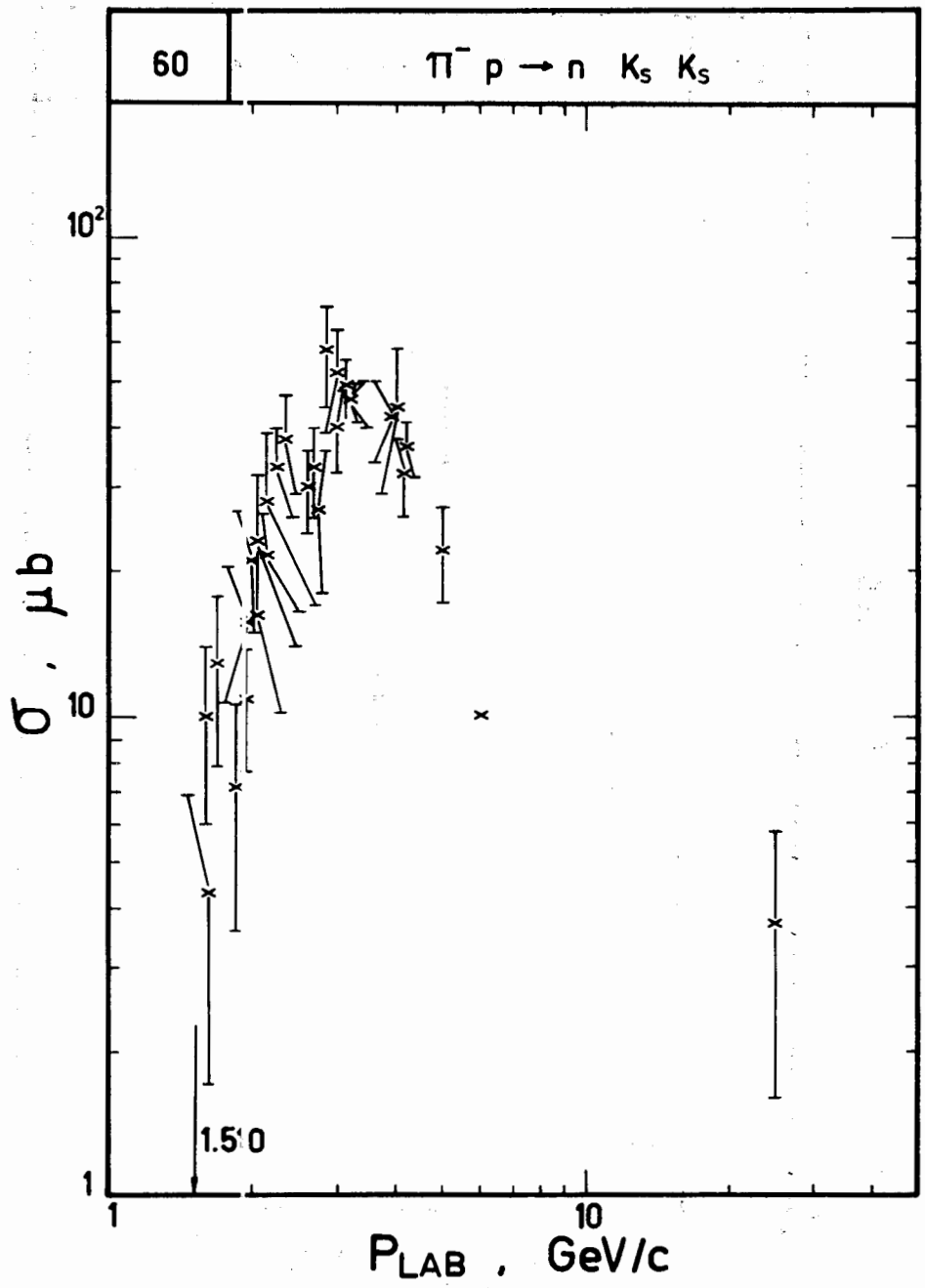

41
$\pi^- p \rightarrow \Sigma^0 K^0$
10^2
10
1
σ , μb
1.034
1
10
P_{LAB} , GeV/c

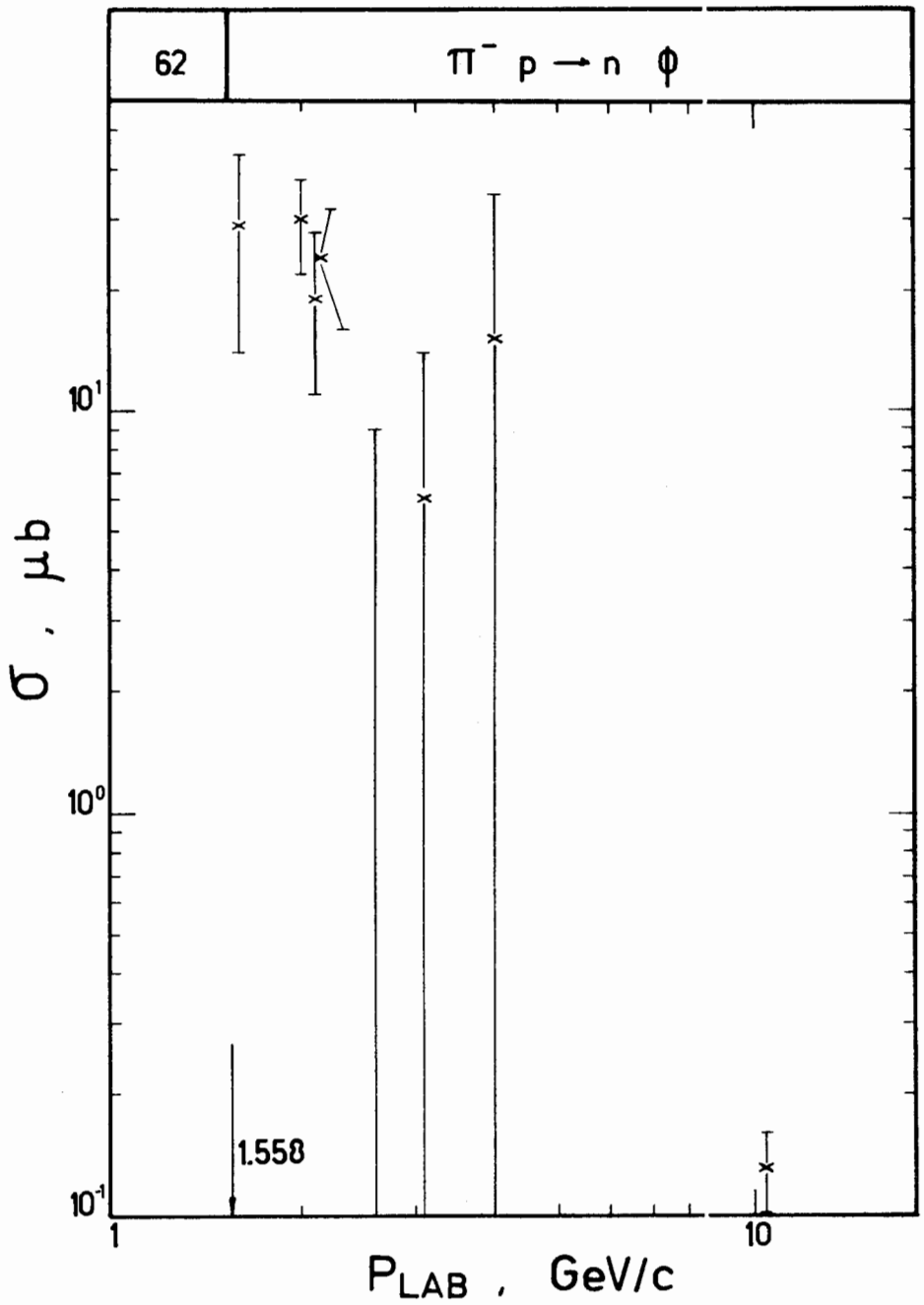

50
$\pi^- p \rightarrow p\ K^-\ K^\circ$
10^2
10
1
σ , μb
1.499
1
10
P_{LAB} , GeV/c

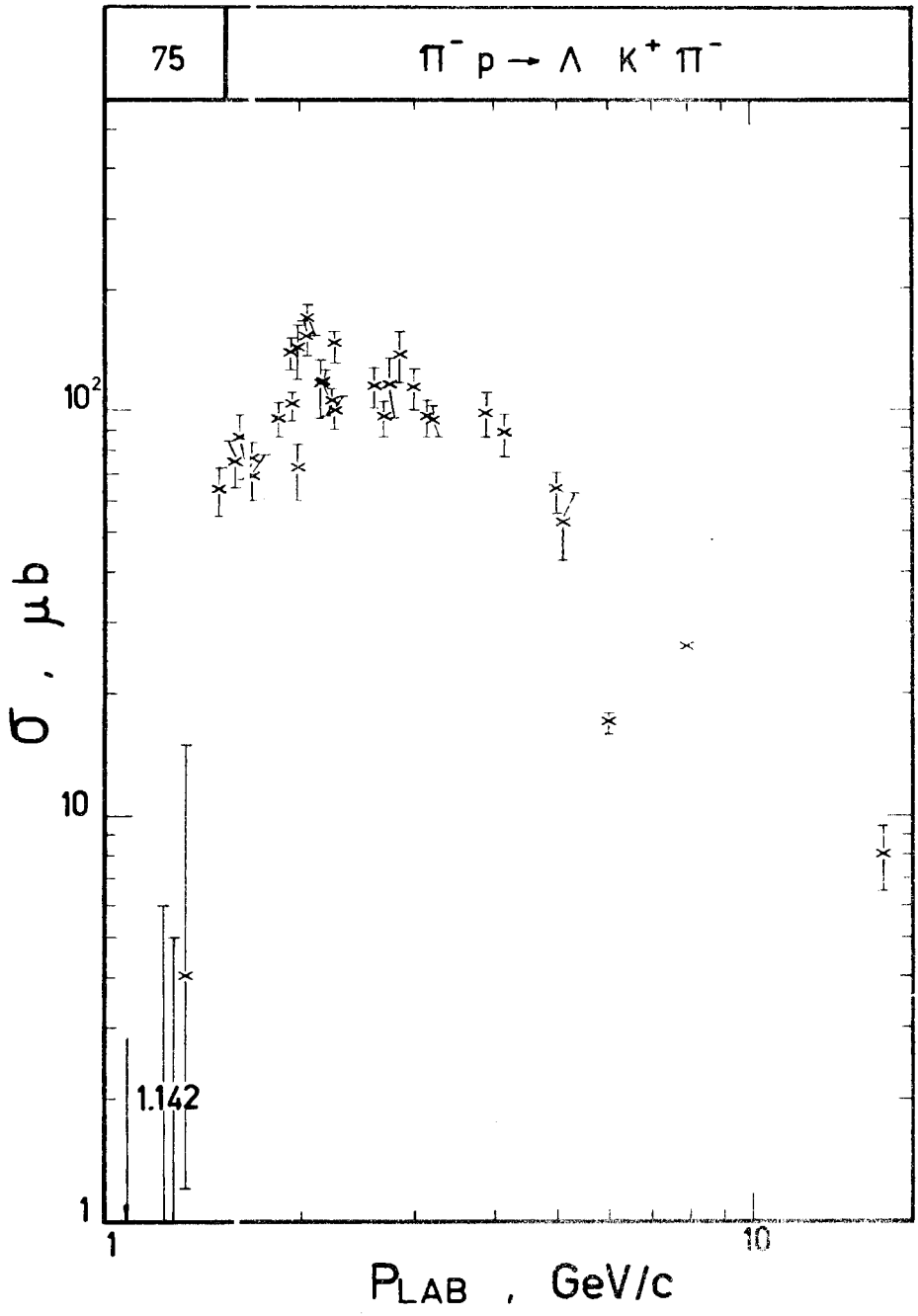

54
$\pi^- p \rightarrow p\ A_2^-(1300) \rightarrow p\ K^- K^\circ$
10^2
1
σ , μb
2.186
1
10
P_{LAB} , GeV/c

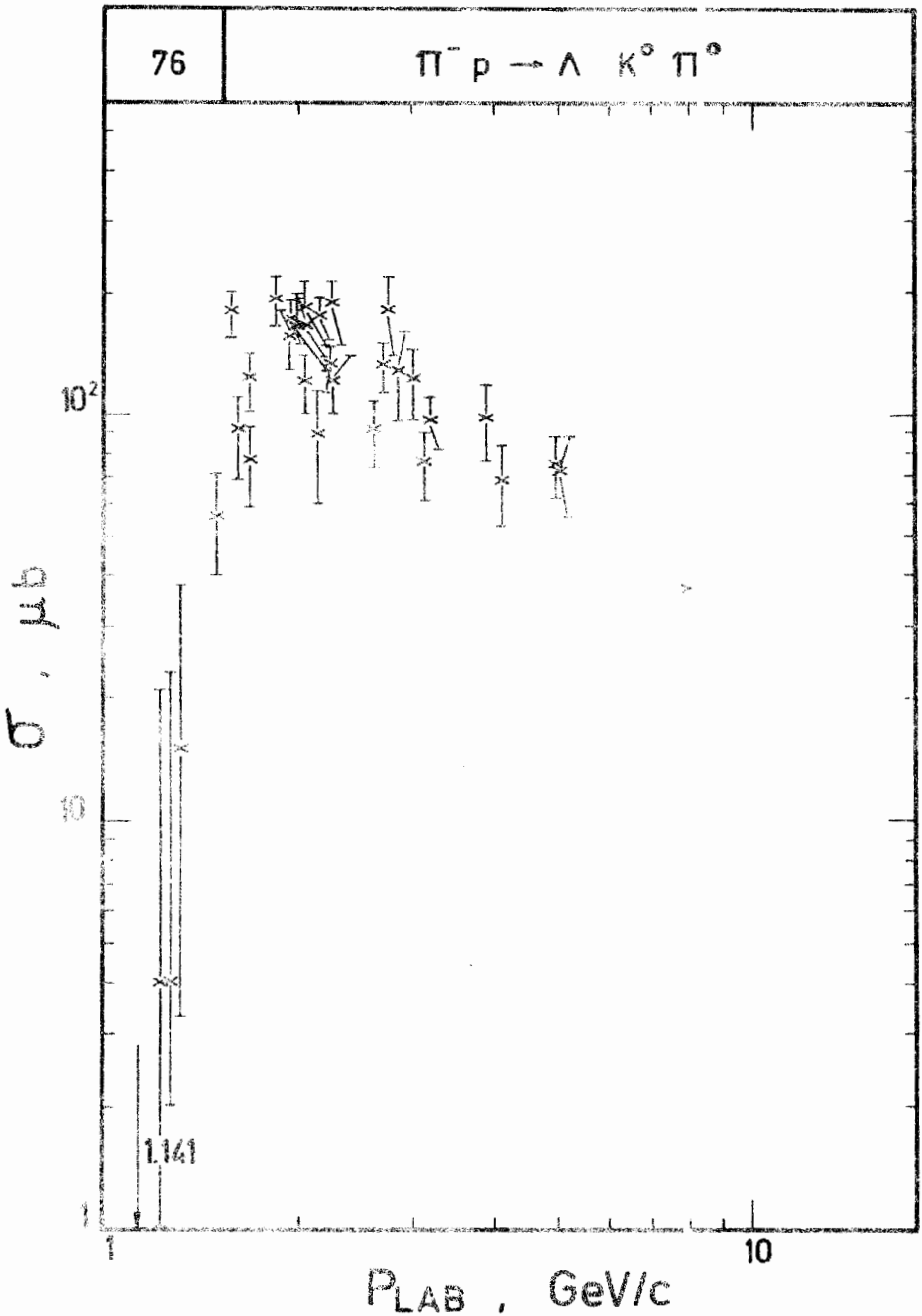

58
π⁻ p → n K⁺ K⁻
σ , μb
10²
10
1
1.493
1
10
P_LAB , GeV/c

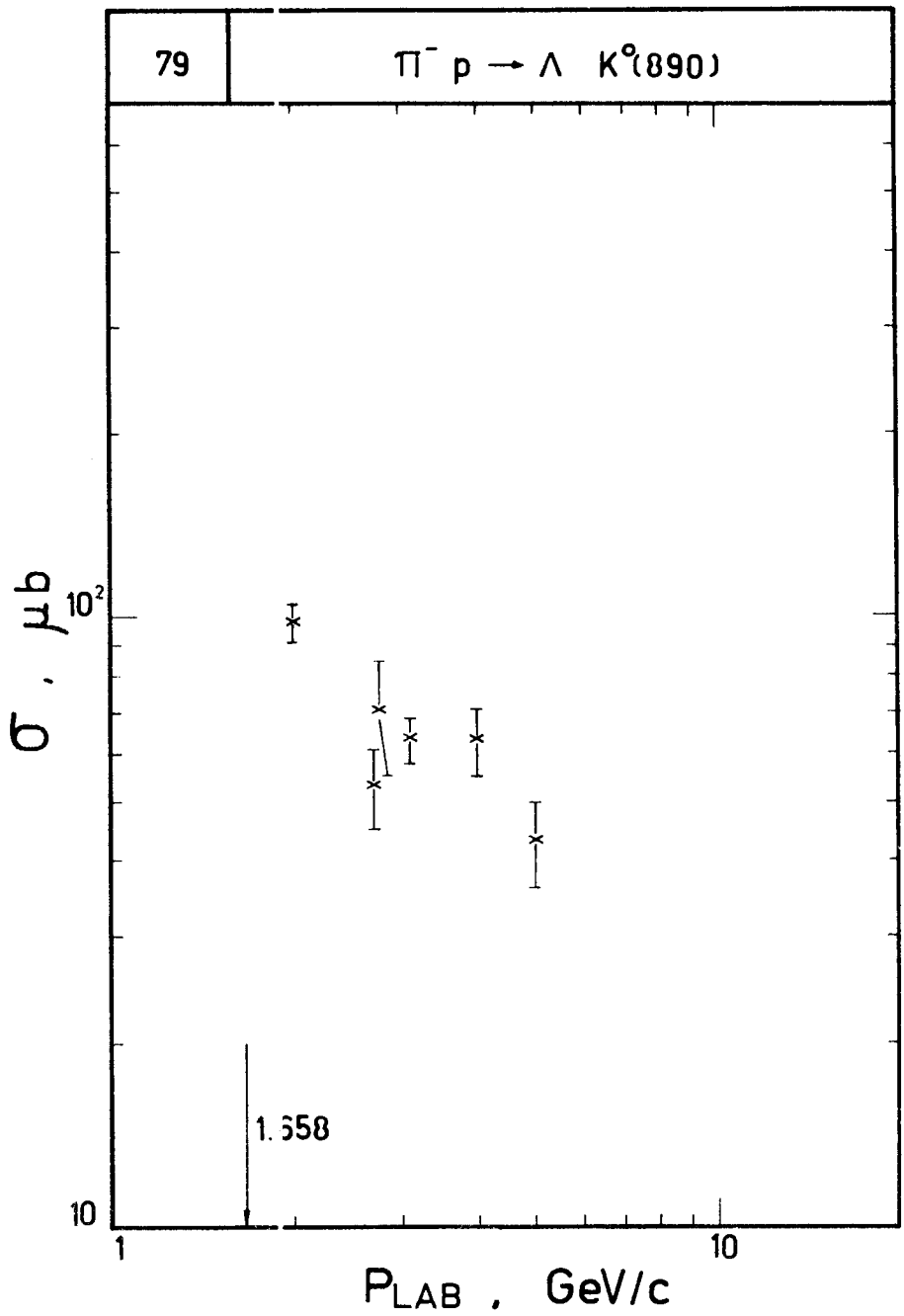

59
π⁻ p → n K° K°
σ , μb
10²
10
1.510
1
10
P_LAB , GeV/c

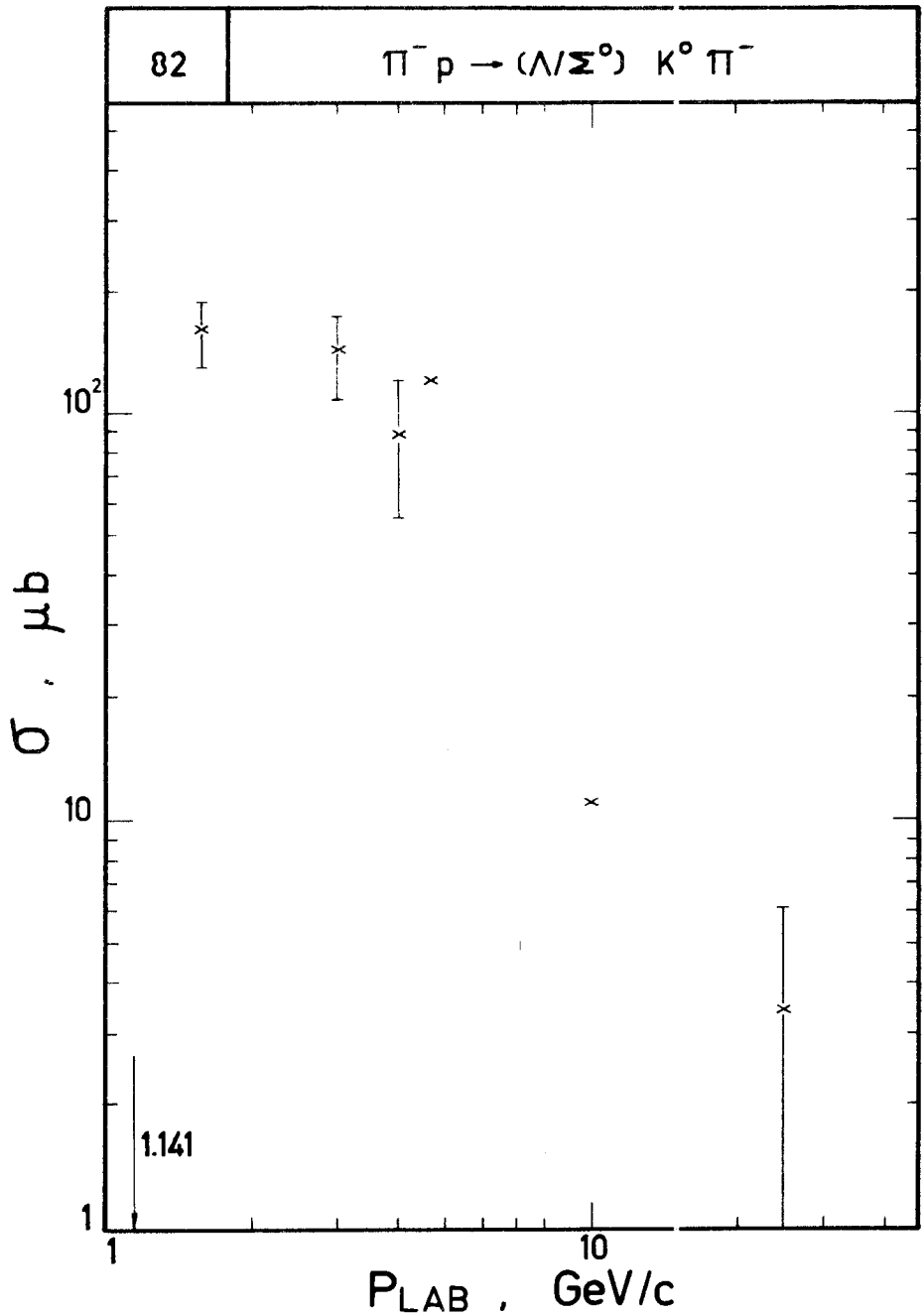

60
π⁻ p → n Ks Ks
10²
10
1
σ , μb
1.5 0
1
10
P_LAB , GeV/c

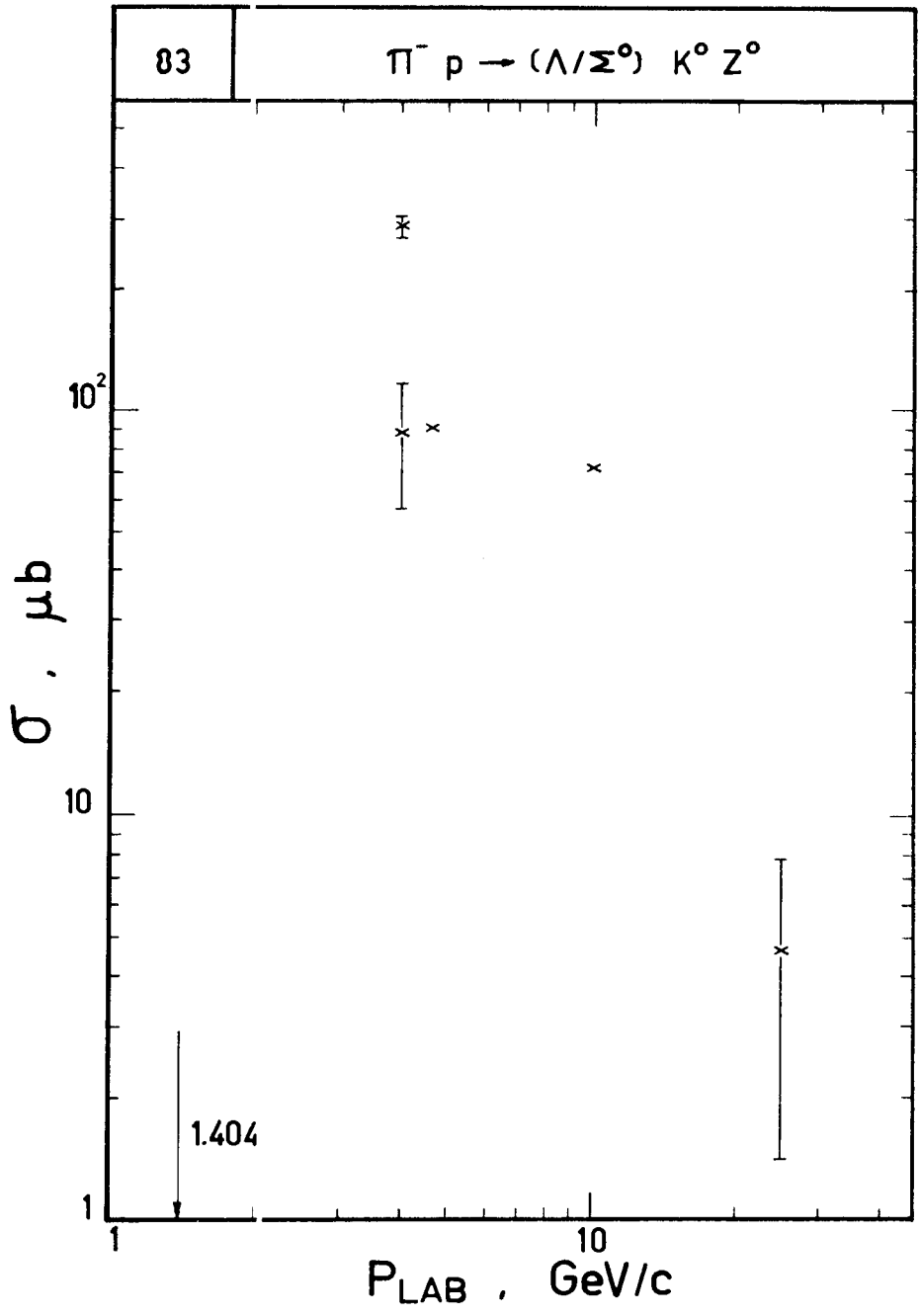

62
$\pi^- p \rightarrow n \phi$
10^1
10^0
10^{-1}
σ , μb
1.558
1
10
P_{LAB} , GeV/c

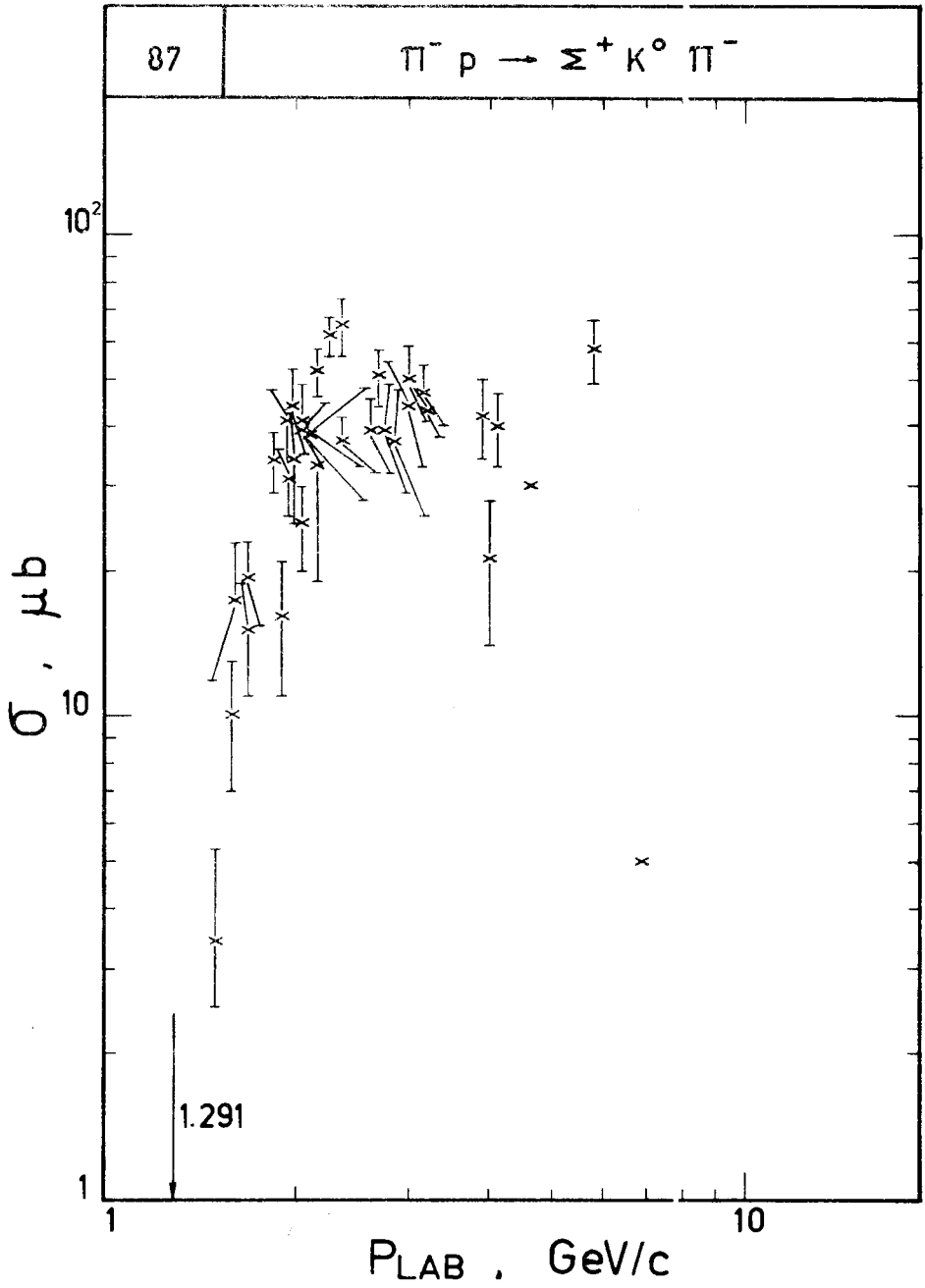

75
π⁻ p → Λ K⁺ π⁻
10²
10
1
σ , μb
1.142
1
10
P_LAB , GeV/c

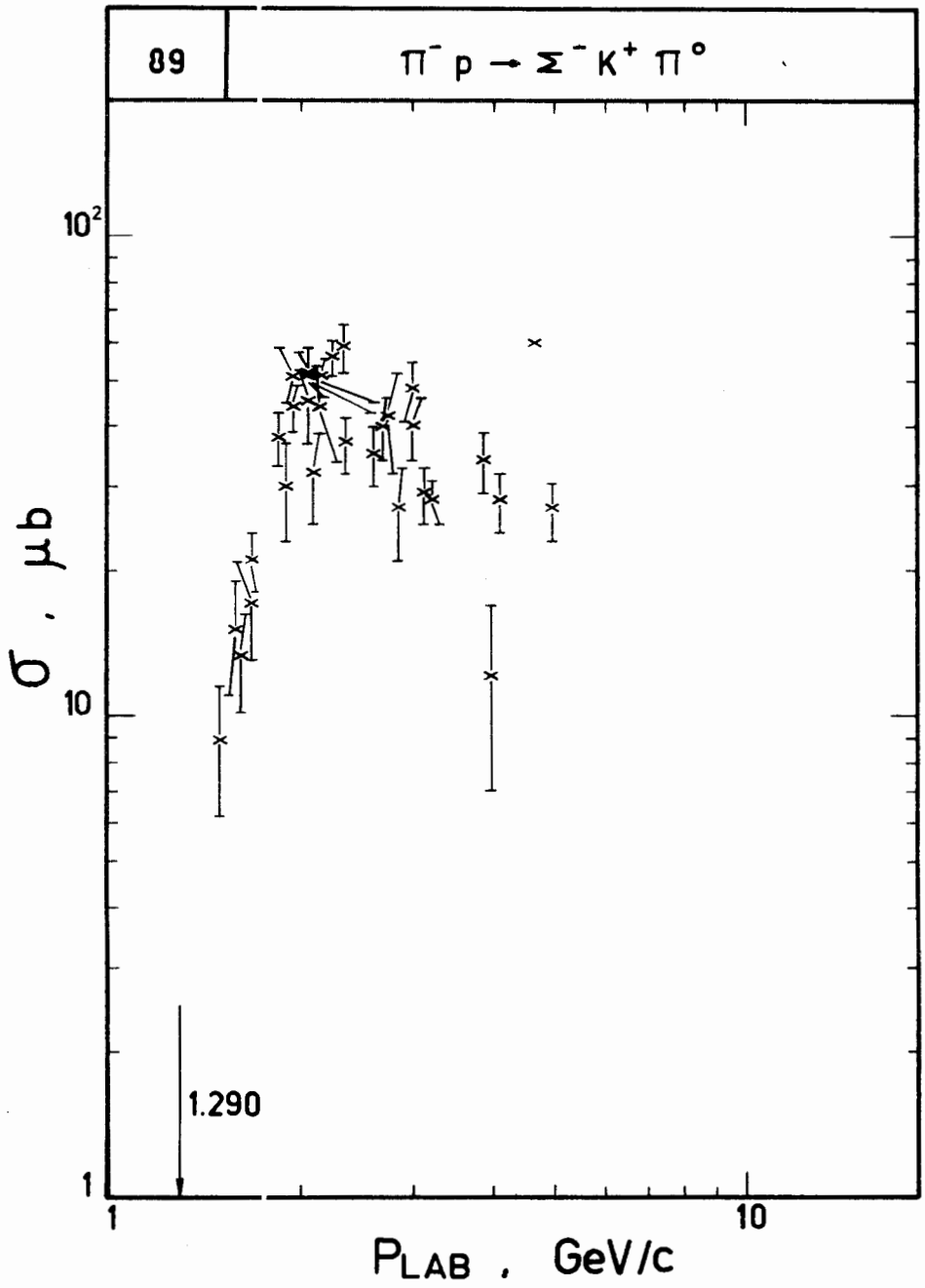

76
π⁻ p → Λ K° π°
10²
10
1
σ , μb
1.141
1
10
P_LAB , GeV/c

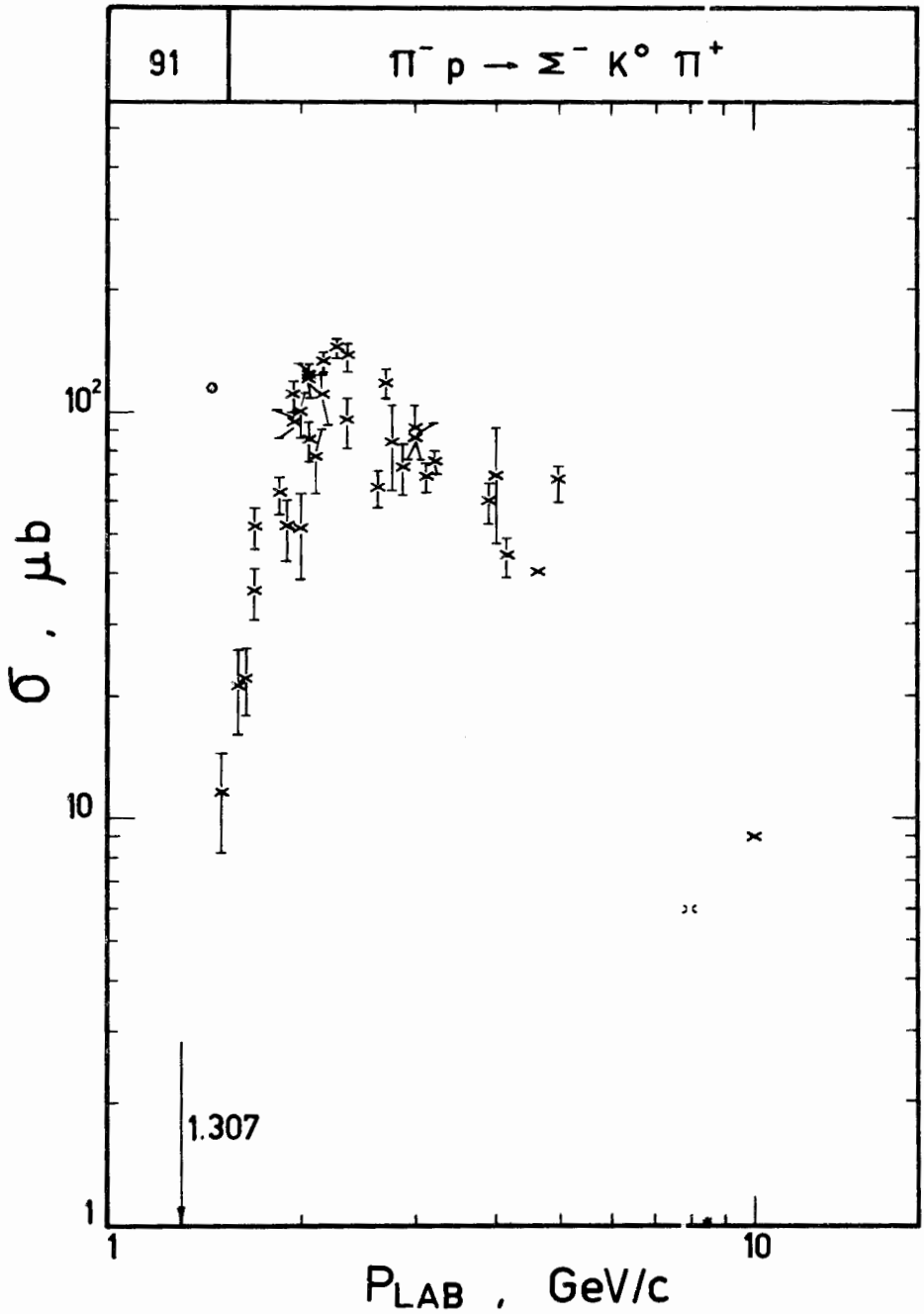

79
π⁻ p → Λ K°(890)
σ , μb
10²
10
1
10
1.658
P_LAB , GeV/c

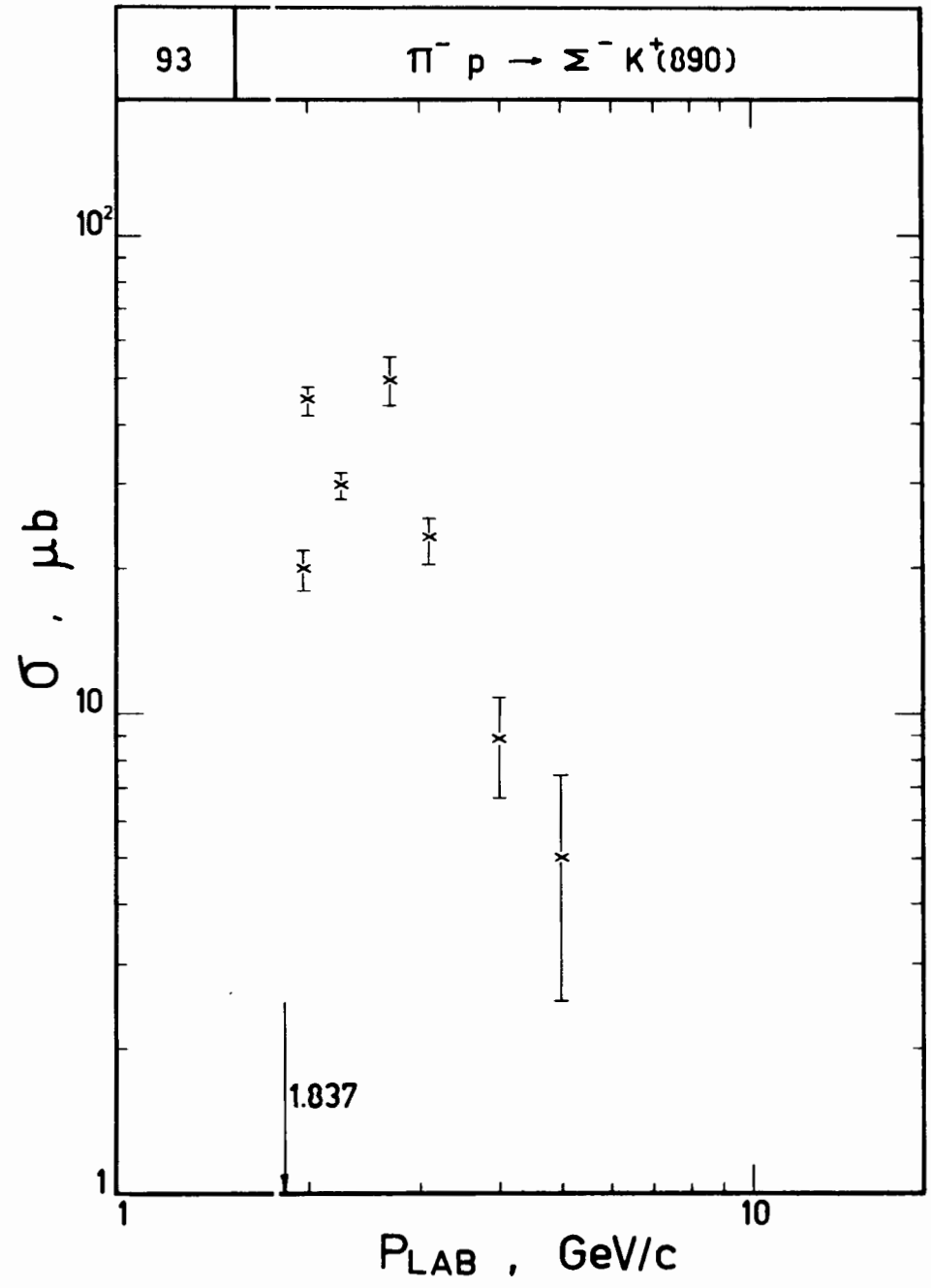

82
$\pi^- p \rightarrow (\Lambda/\Sigma^0)\ K^0\ \pi^-$
10^2
10
1
σ , μb
1.141
1
10
P_{LAB} , GeV/c

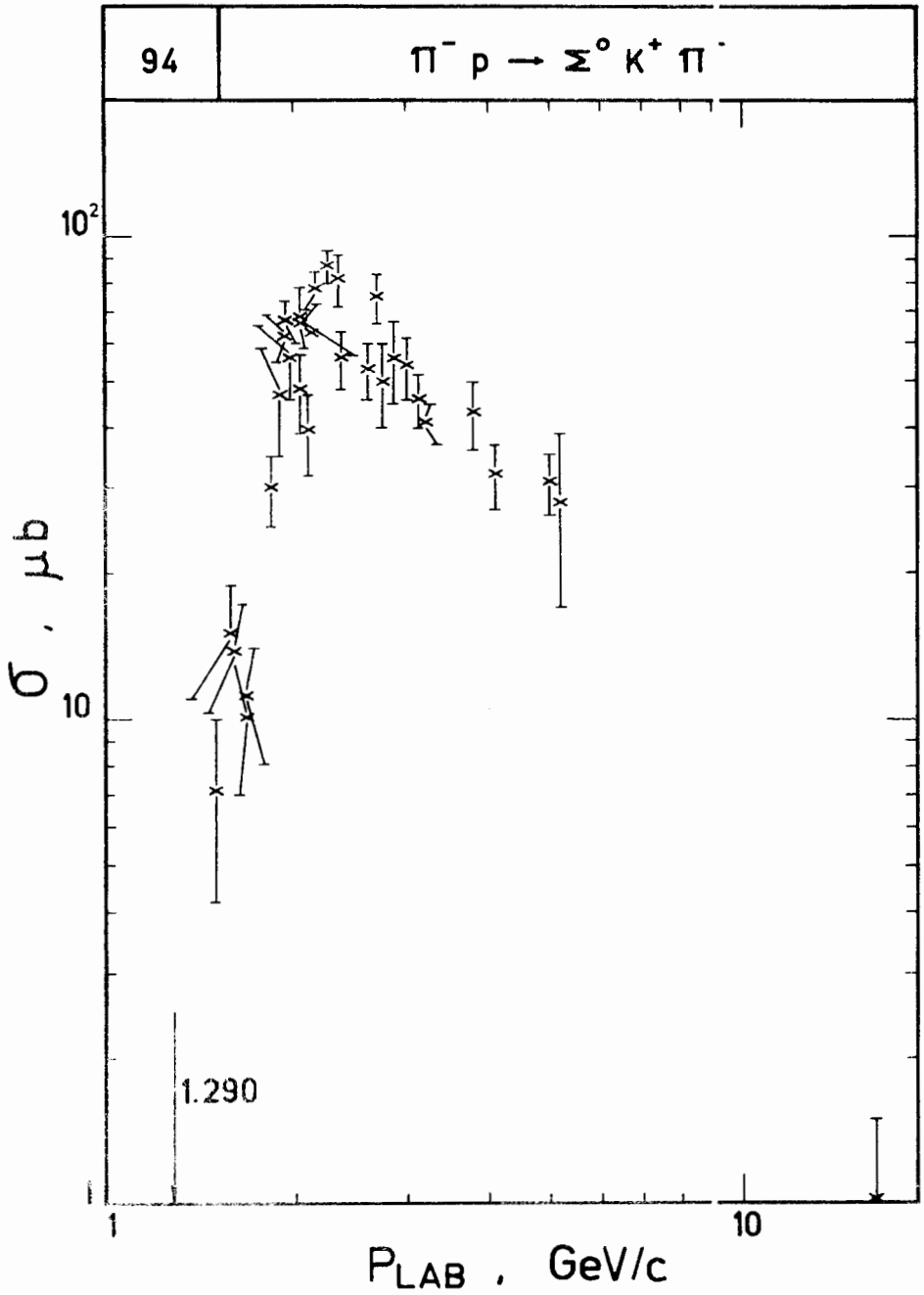

83
π⁻ p → (Λ/Σ°) K° Z°
10²
10
1
σ , μb
1.404
1
10
P_LAB , GeV/c

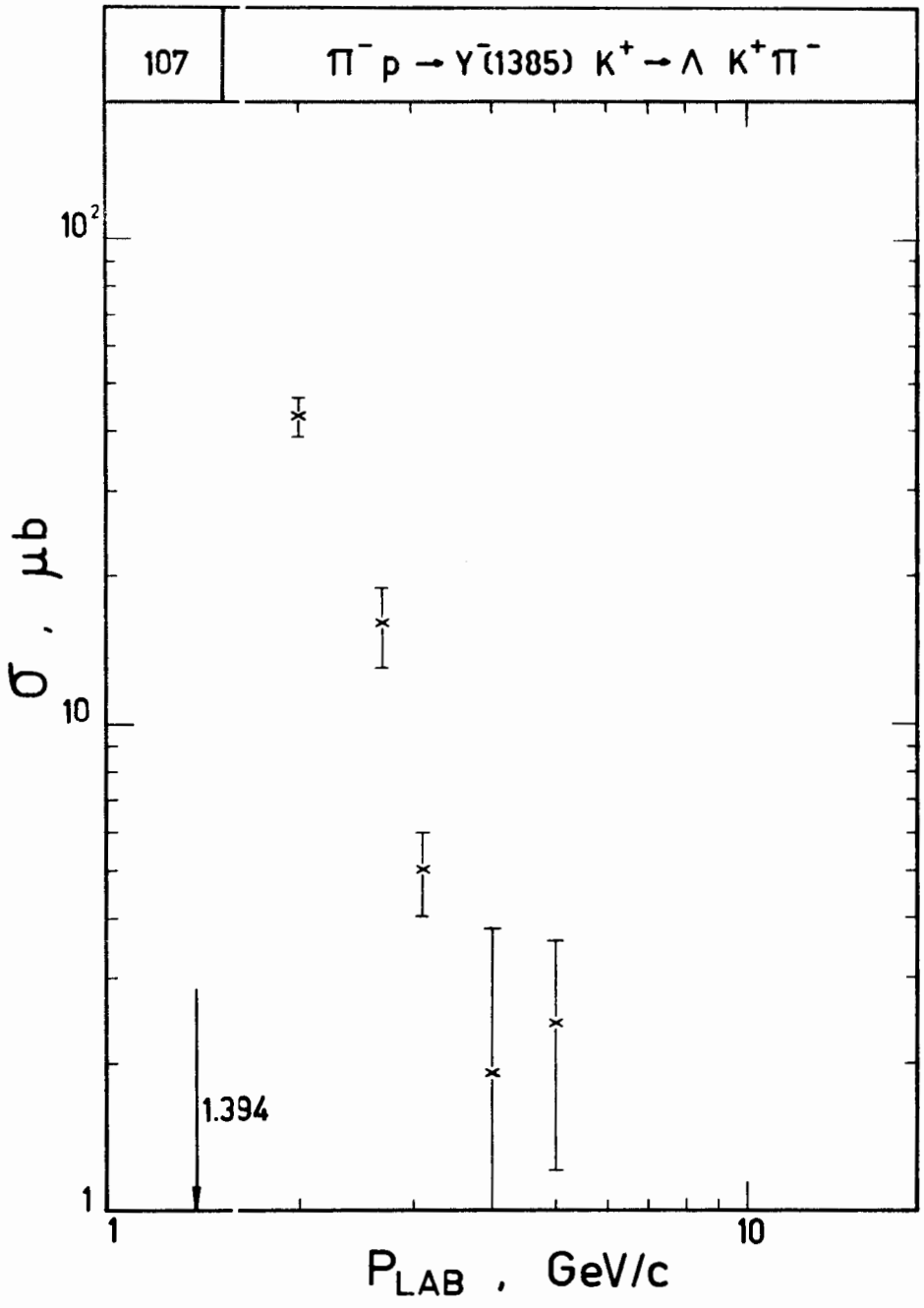

87
$\pi^- p \rightarrow \Sigma^+ K^\circ \pi^-$
10^2
10
1
σ , μb
1.291
1
10
P_{LAB} , GeV/c

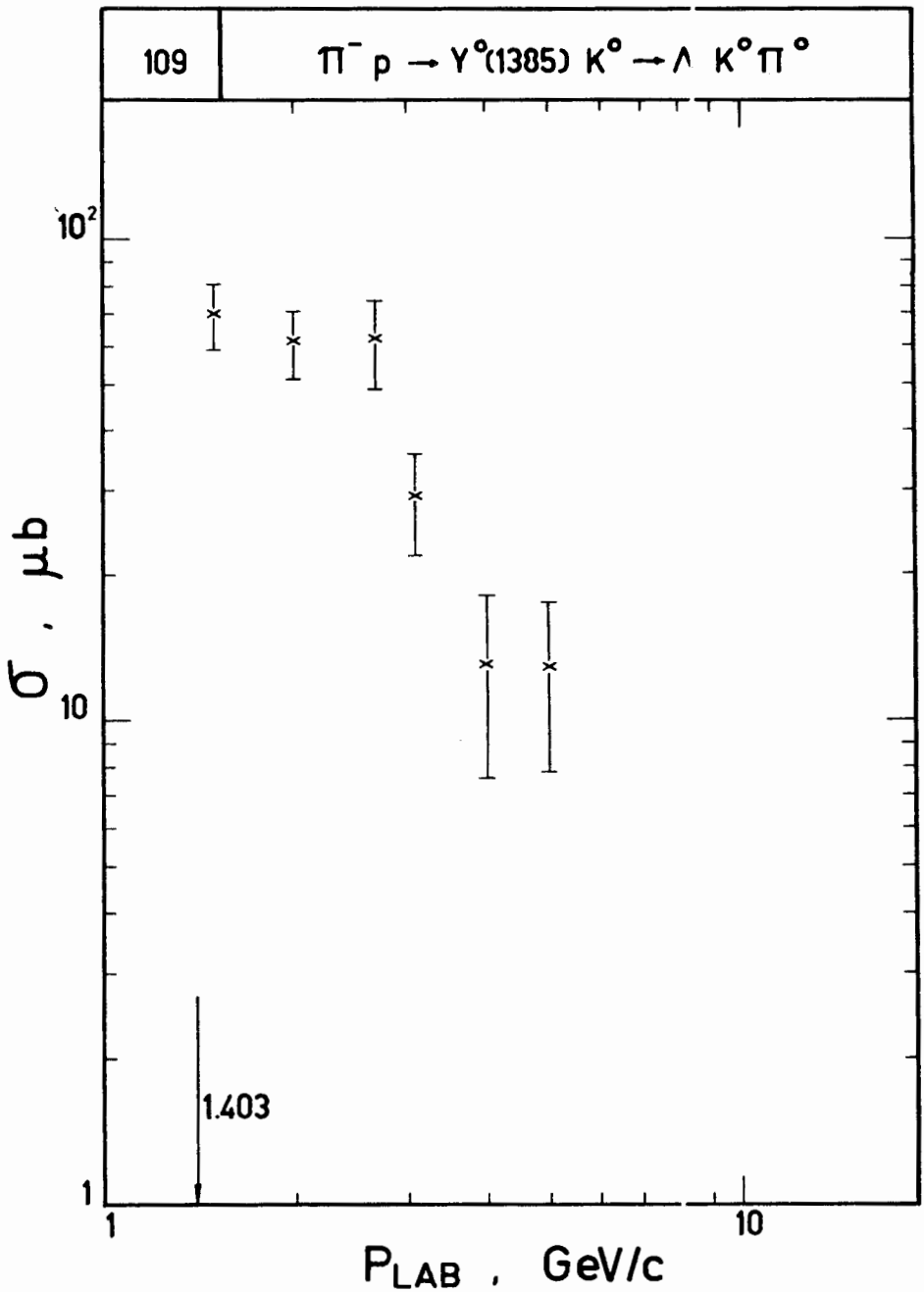

89
$\pi^- p \rightarrow \Sigma^- K^+ \pi^\circ$
10^2
10
1
σ , μb
1.290
1
10
P_{LAB} , GeV/c

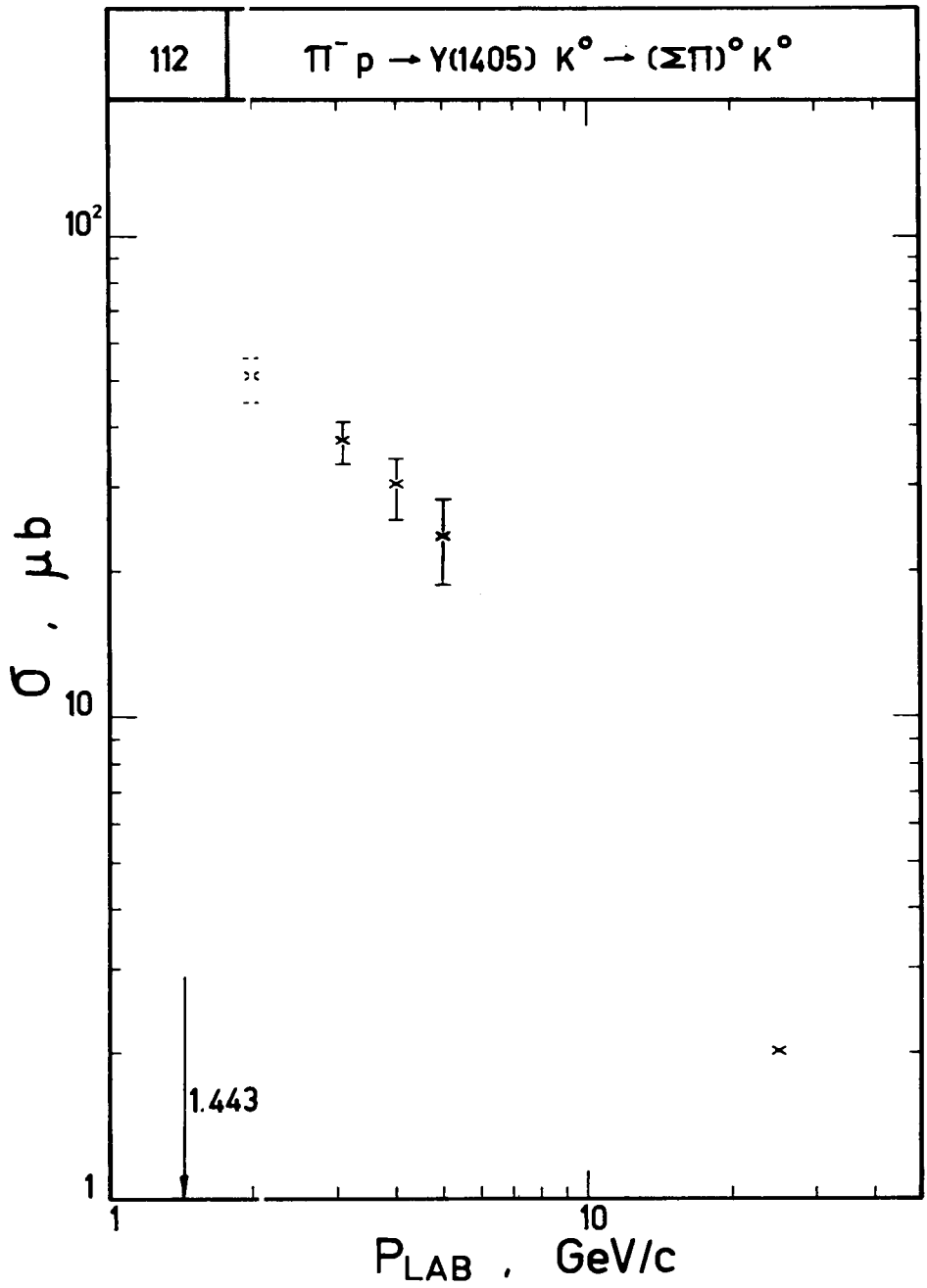

91
$\pi^- p \rightarrow \Sigma^- K^\circ \pi^+$
10^2
10
1
σ , μb
1.307
1
10
P_{LAB} , GeV/c

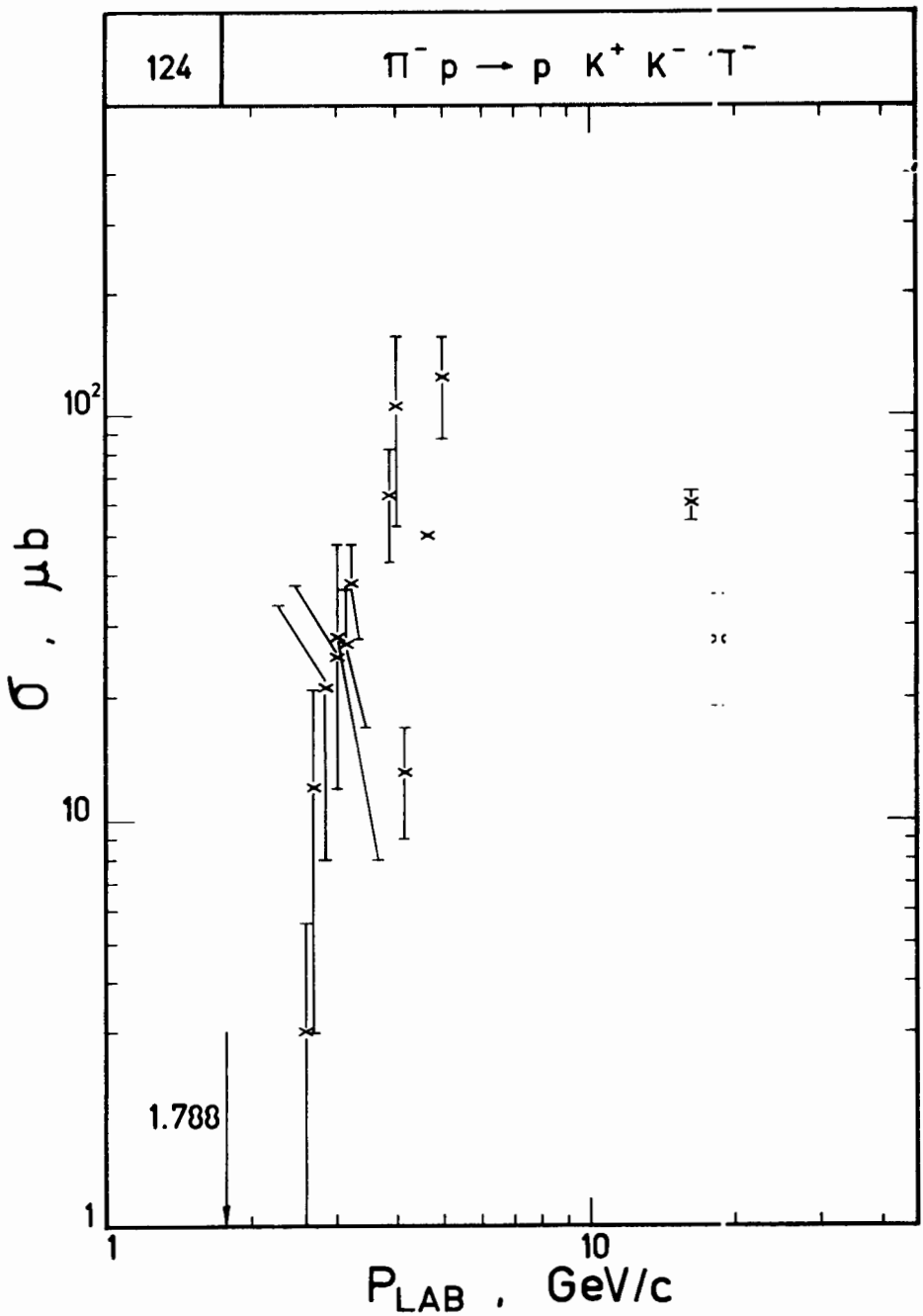

93
$\pi^- p \rightarrow \Sigma^- K^+(890)$
10^2
10
1
σ , μb
1.837
1
10
P_{LAB} , GeV/c

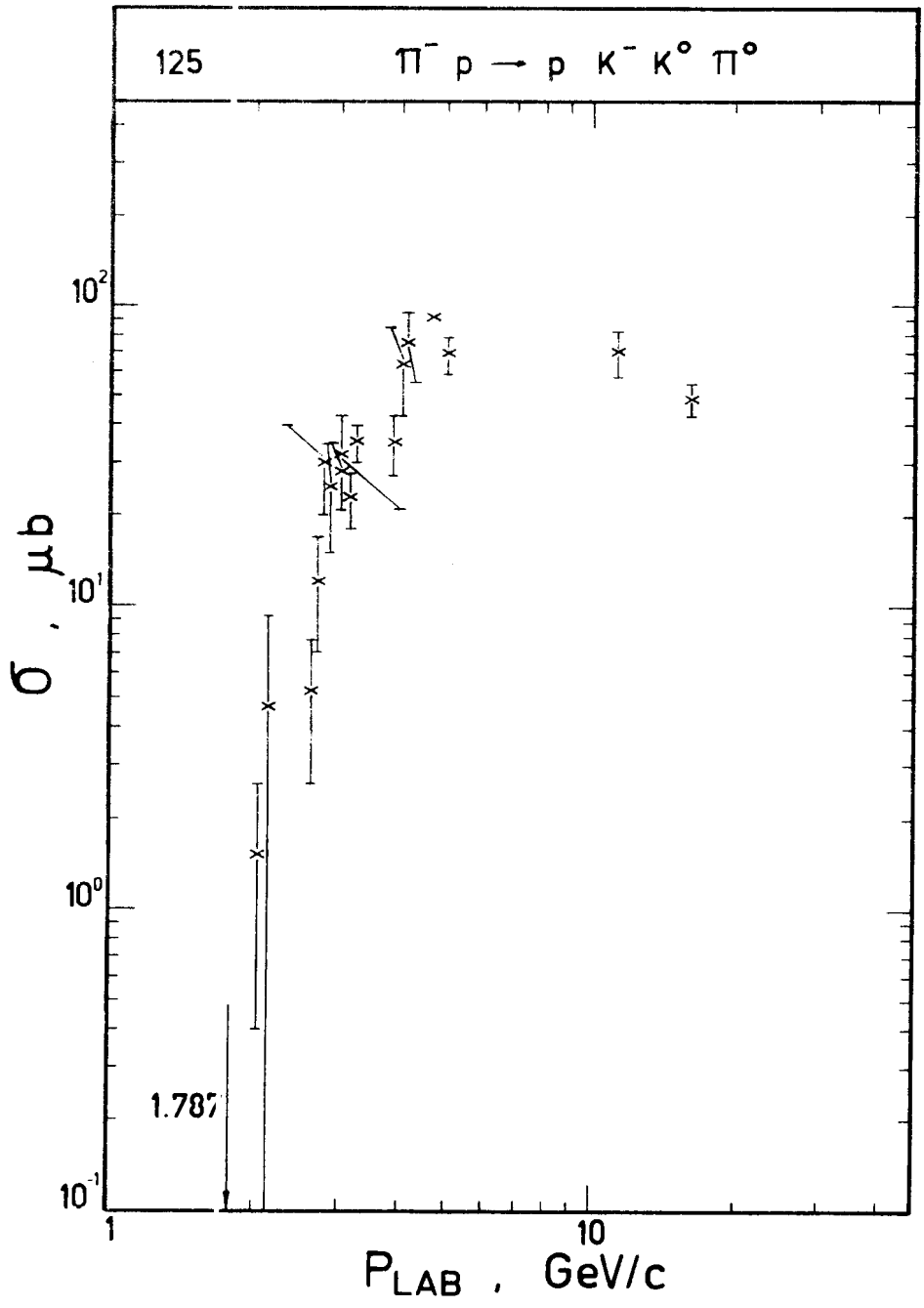

94
π⁻ p → Σ° K⁺ π⁻
10²
10
σ , μb
1.290
1
10
P_LAB , GeV/c

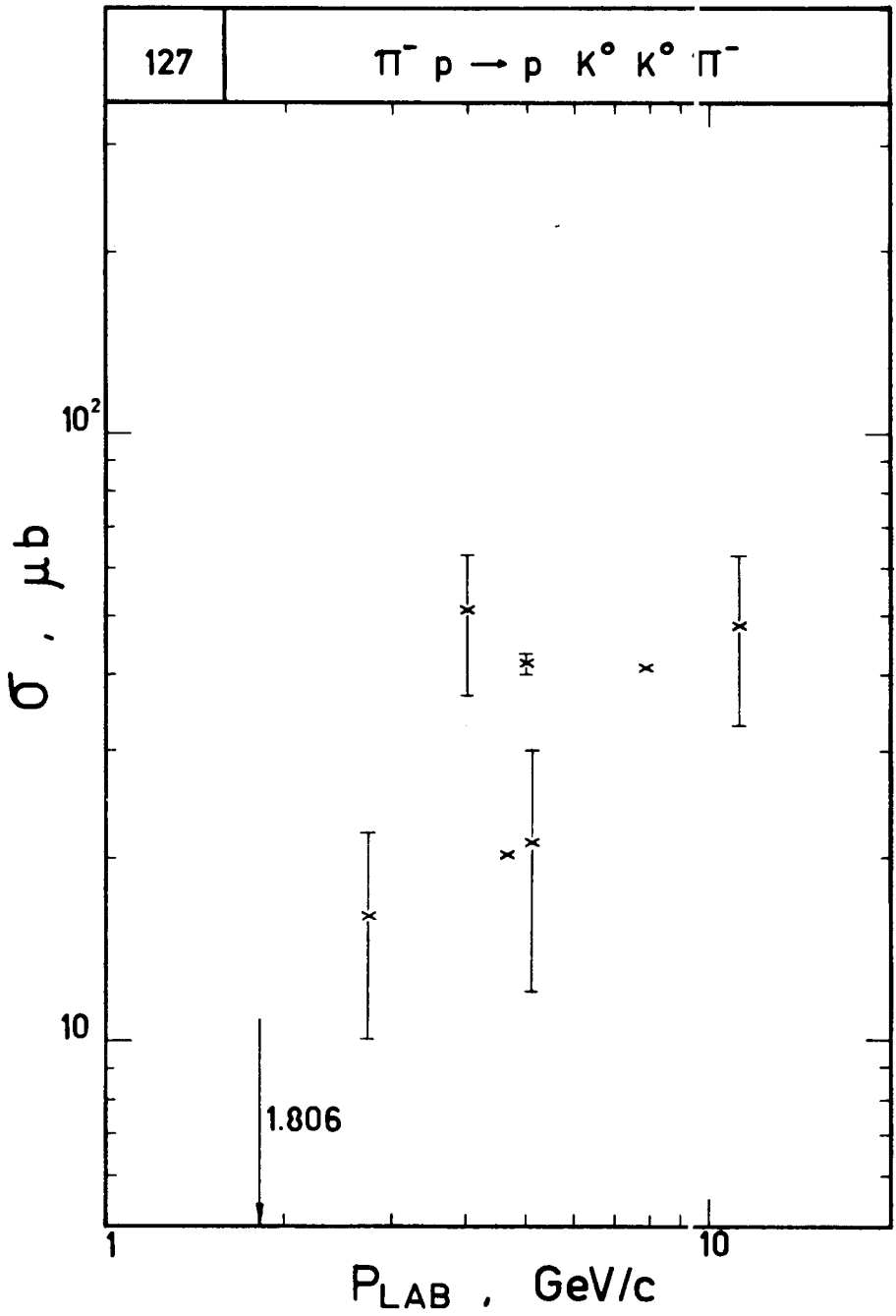

107
$\pi^- p \rightarrow Y^-(1385)\ K^+ \rightarrow \Lambda\ K^+\pi^-$
10^2
10
1
σ , μb
1.394
1
10
P_{LAB} , GeV/c

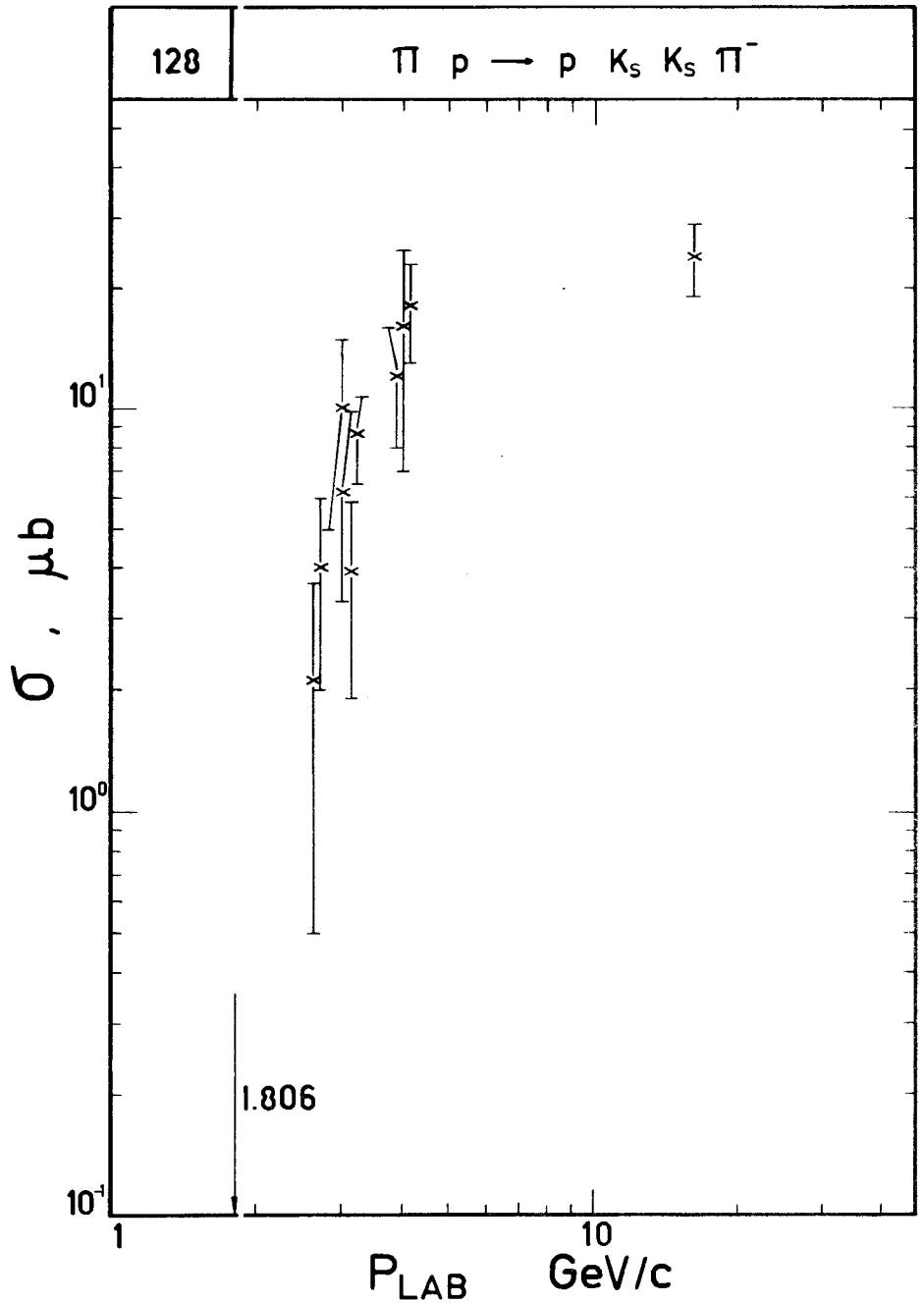

109
π⁻ p → Y°(1385) K° → Λ K°π°
10²
10
1
σ , μb
1.403
1
10
P_LAB , GeV/c

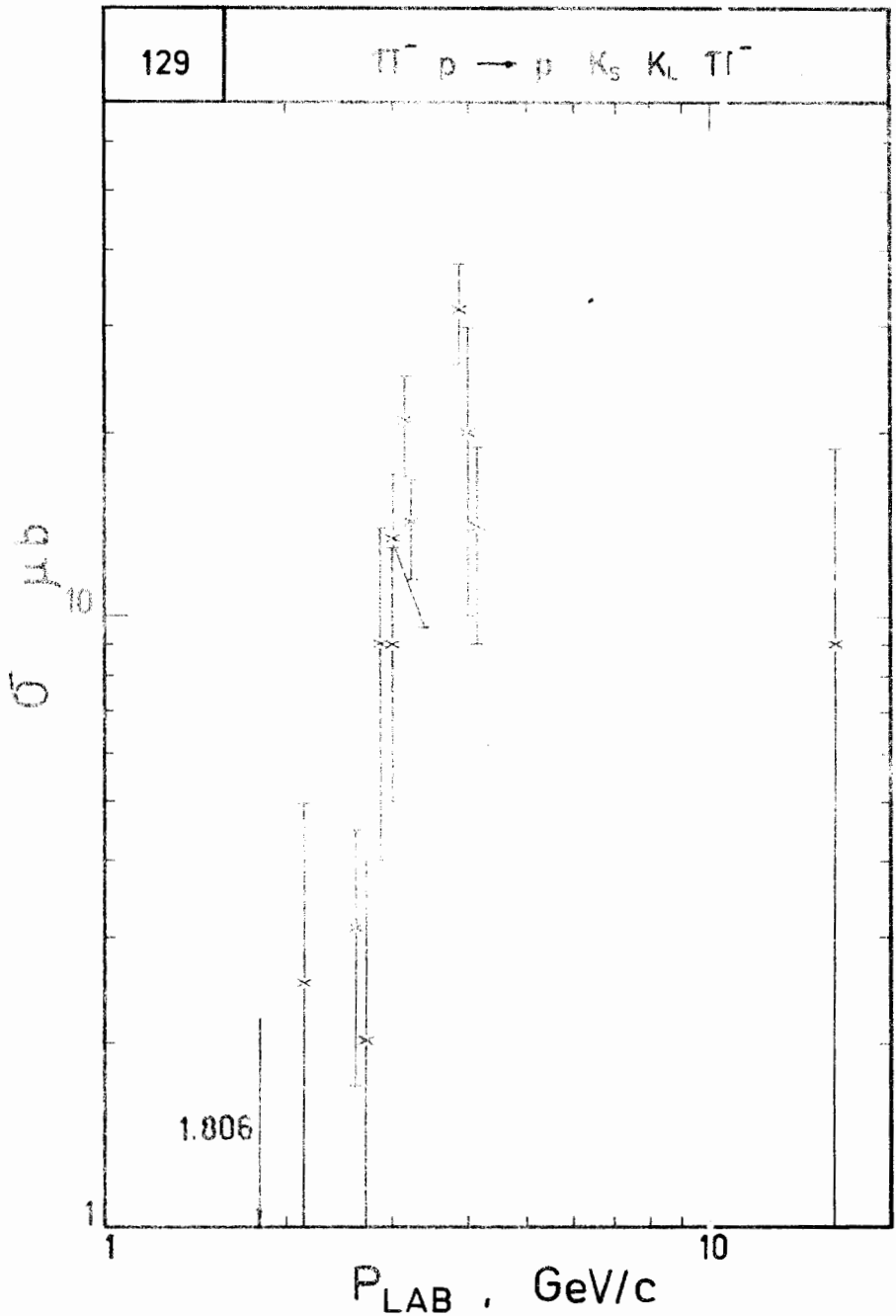

112
π⁻ p → Y(1405) K° → (Σπ)° K°
10²
10
1
σ , μb
1.443
1
10
P_LAB , GeV/c

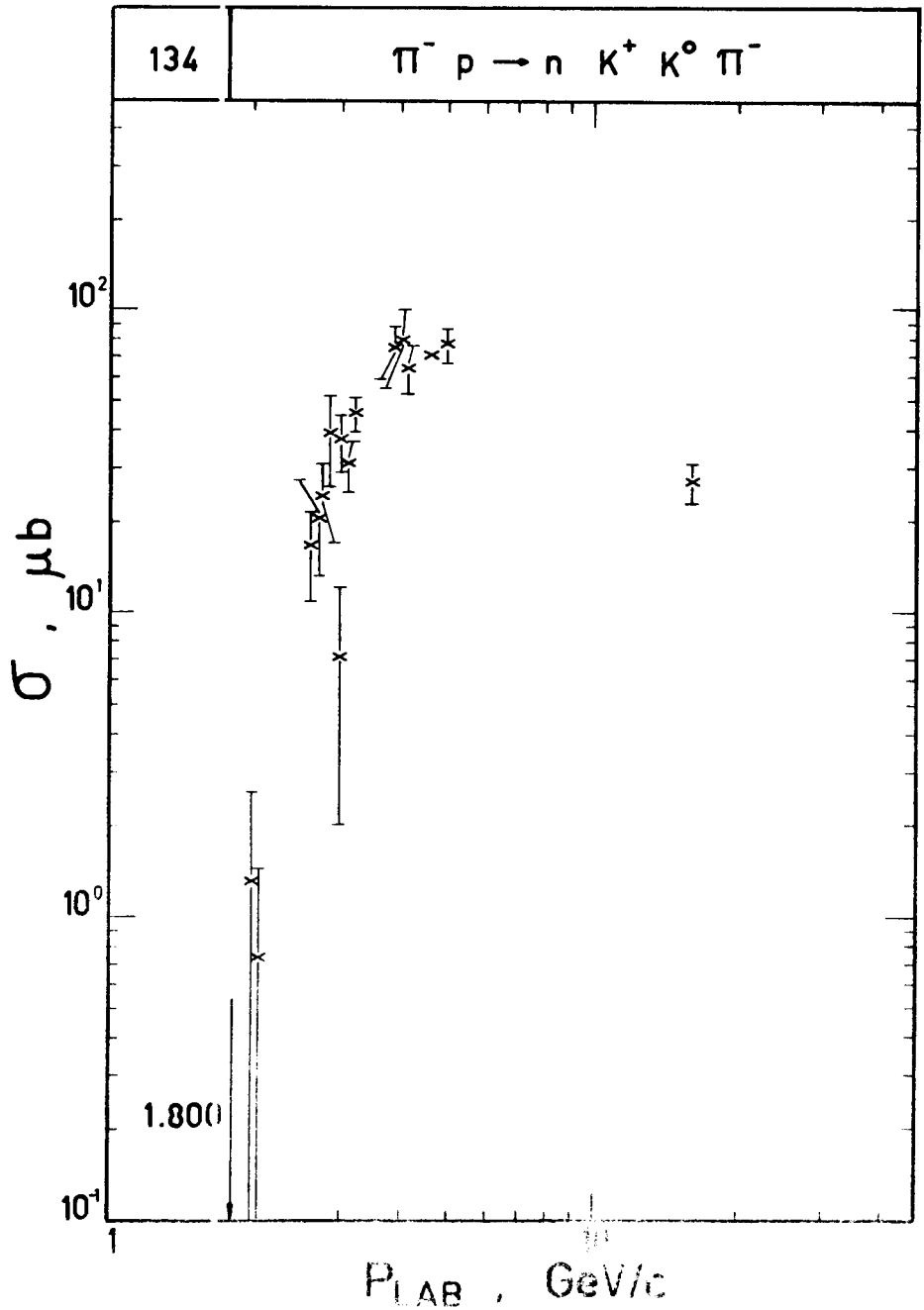

124
$\pi^- p \rightarrow p\ K^+\ K^-\ \pi^-$
10^2
10
1
σ , μb
1.788
1
10
P_{LAB} , GeV/c

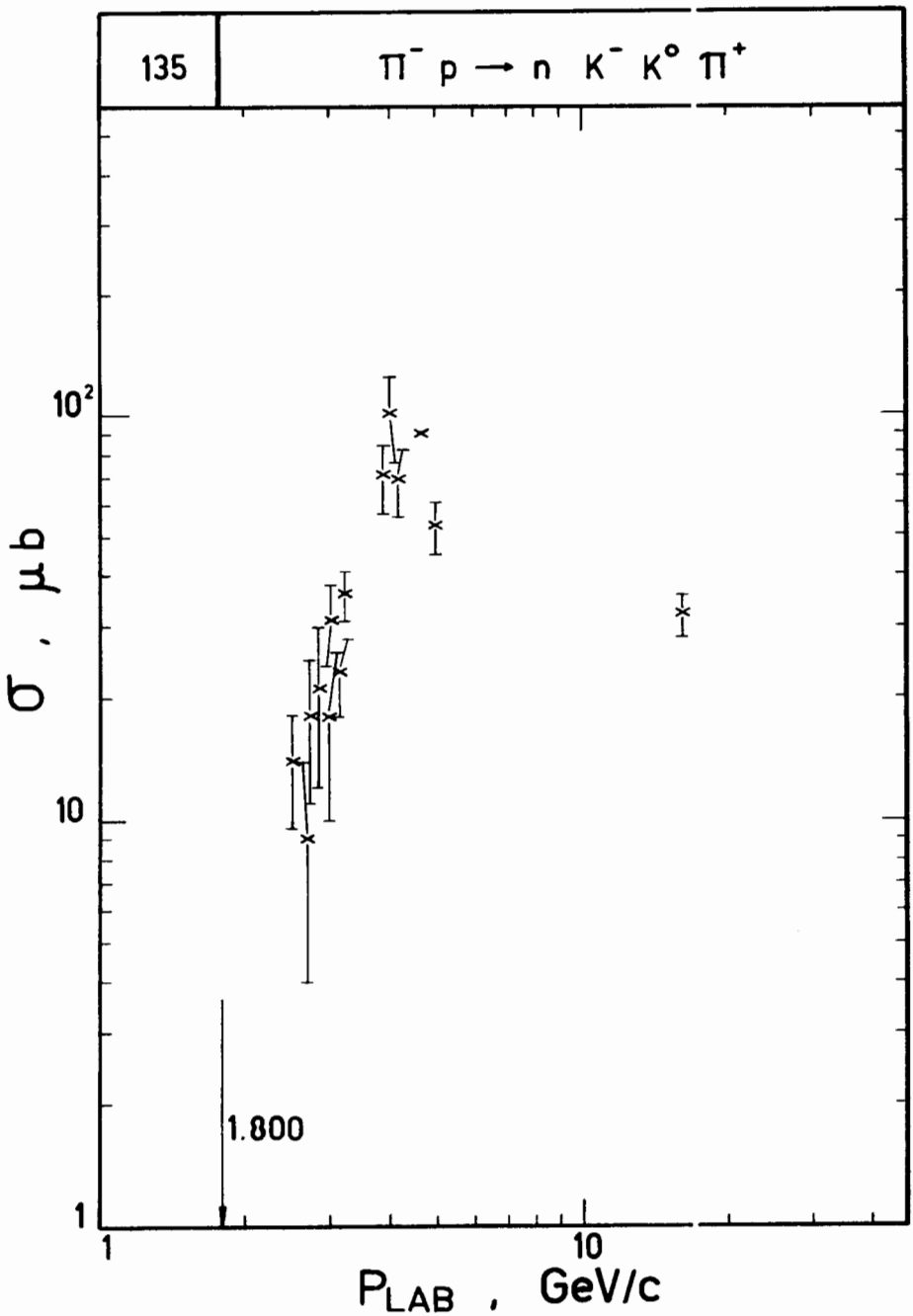

125
π⁻ p → p K⁻ K° π°
σ , μb
10²
10¹
10⁰
10⁻¹
1.787
1
10
P_LAB , GeV/c

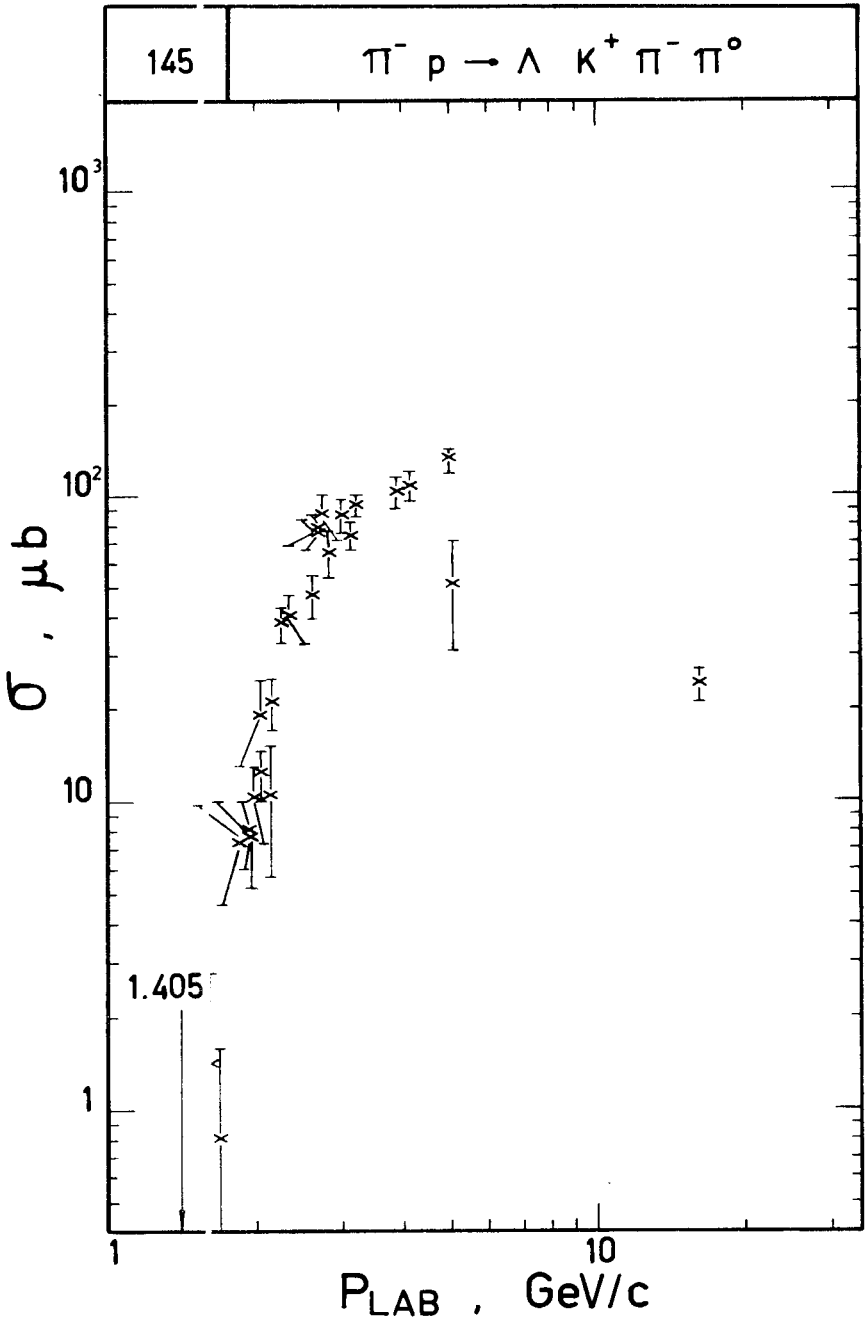

127
π⁻ p → p K° K° π⁻
10²
10
σ , μb
1.806
1
10
P_LAB , GeV/c

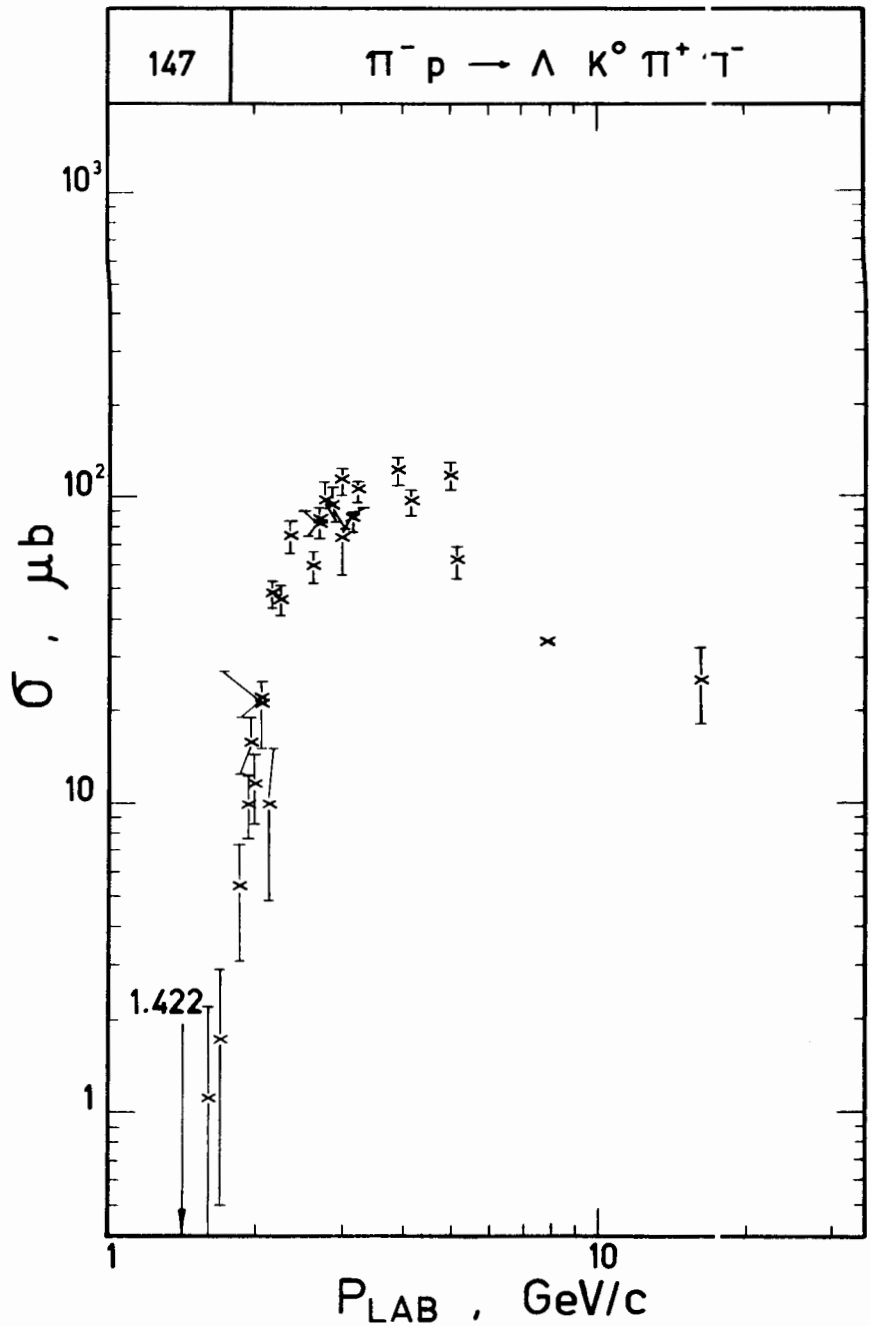

128
π p → p K_s K_s π⁻
σ , μb
10¹
10⁰
10⁻¹
1.806
1
10
P_LAB GeV/c

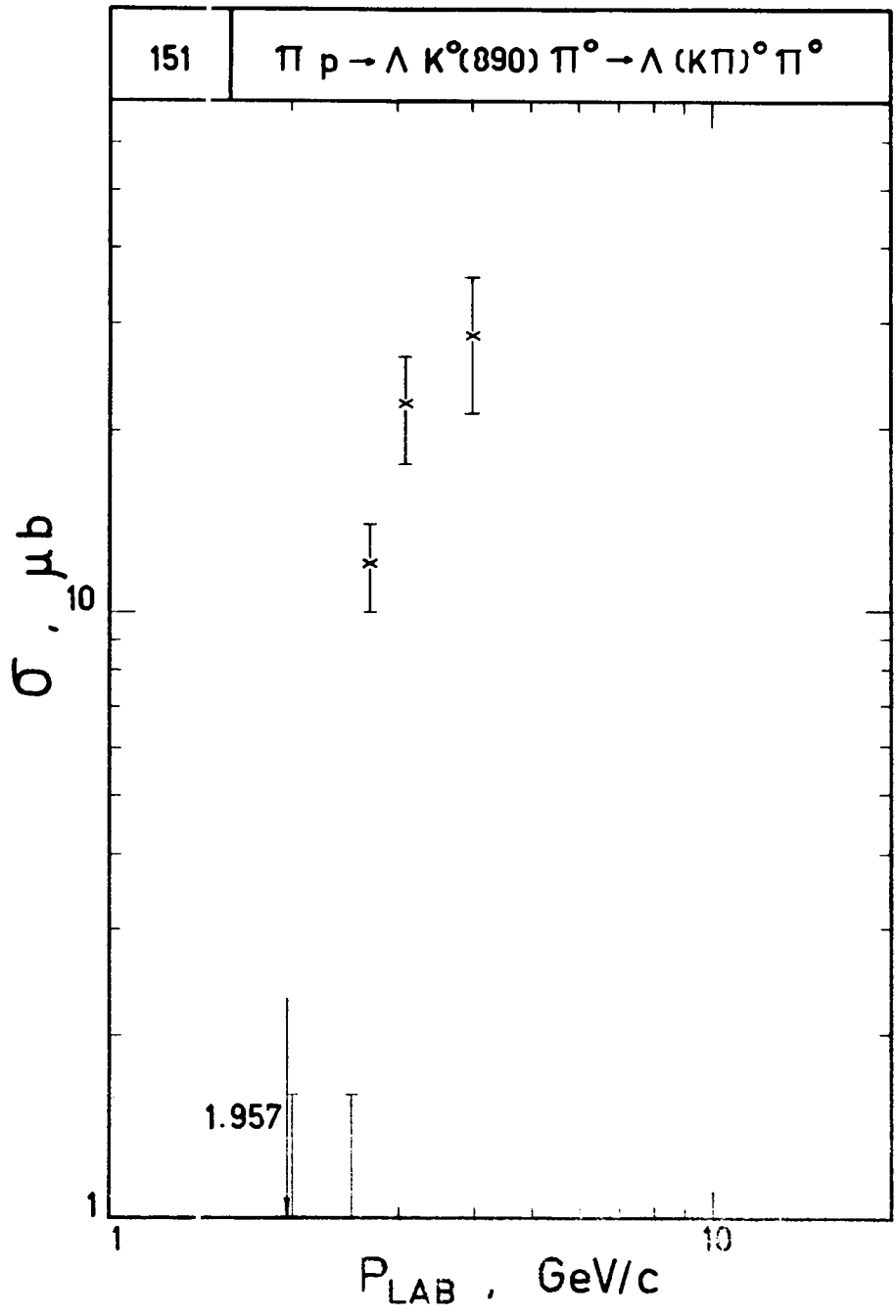

129
π⁻ p → p K_S K_L π⁻
σ μb
10
1
1.806
1
10
P_LAB , GeV/c

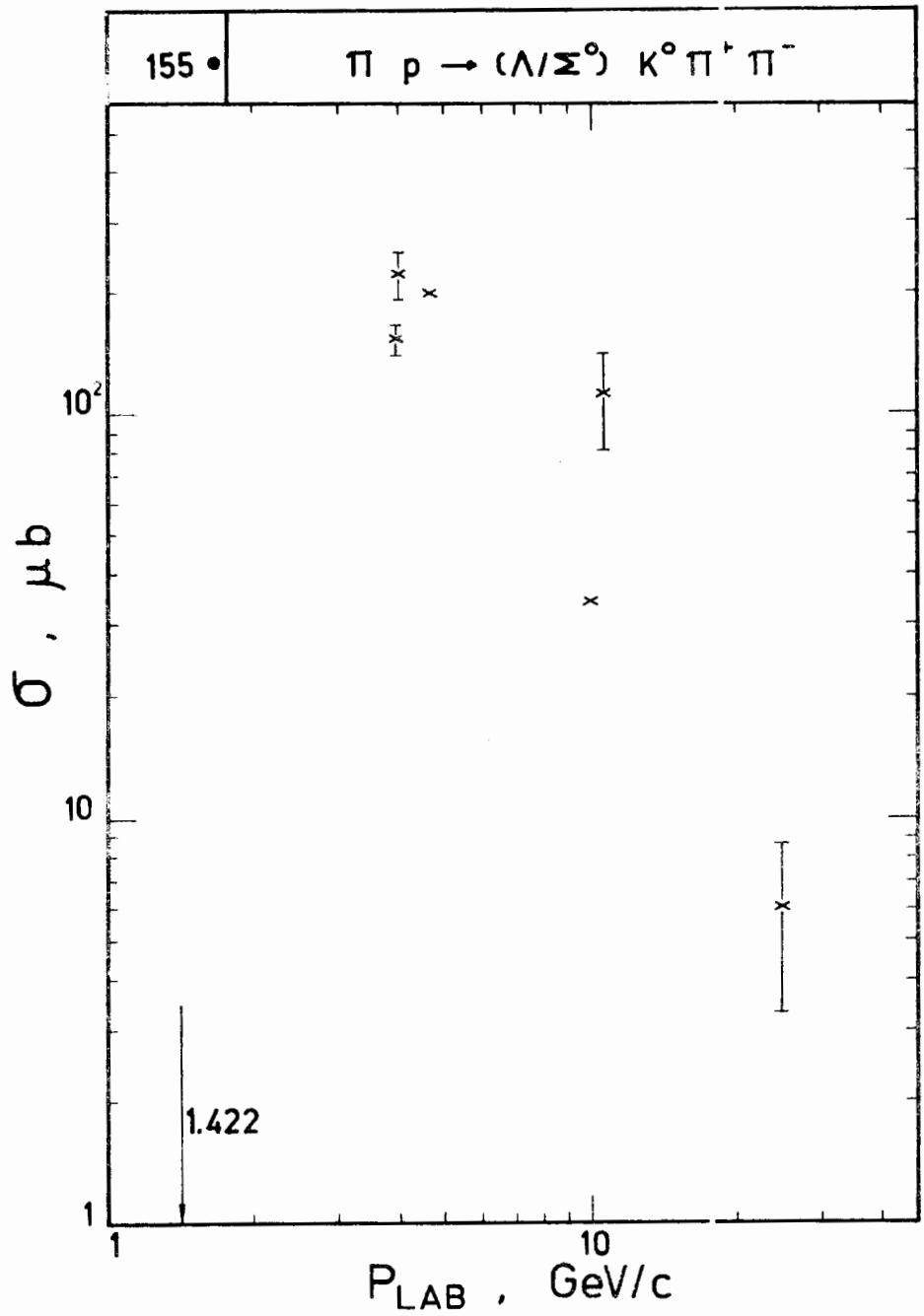

134
π⁻ p → n K⁺ K° π⁻
σ , μb
10²
10¹
10⁰
10⁻¹
1.800
1
P LAB , GeV/c

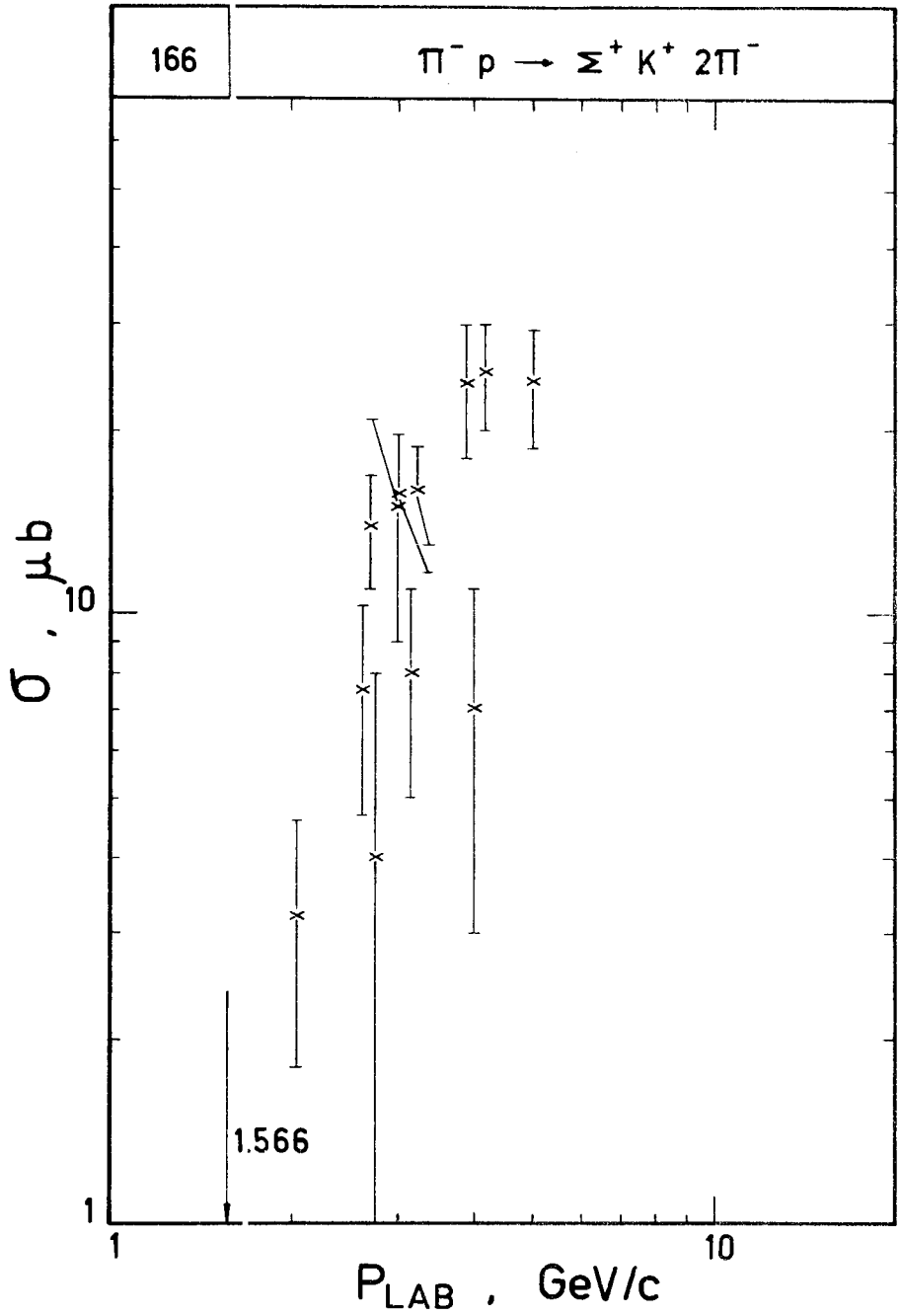

135
π⁻ p → n K⁻ K° π⁺
10²
10
1
σ , μb
1.800
1
10
P_LAB , GeV/c

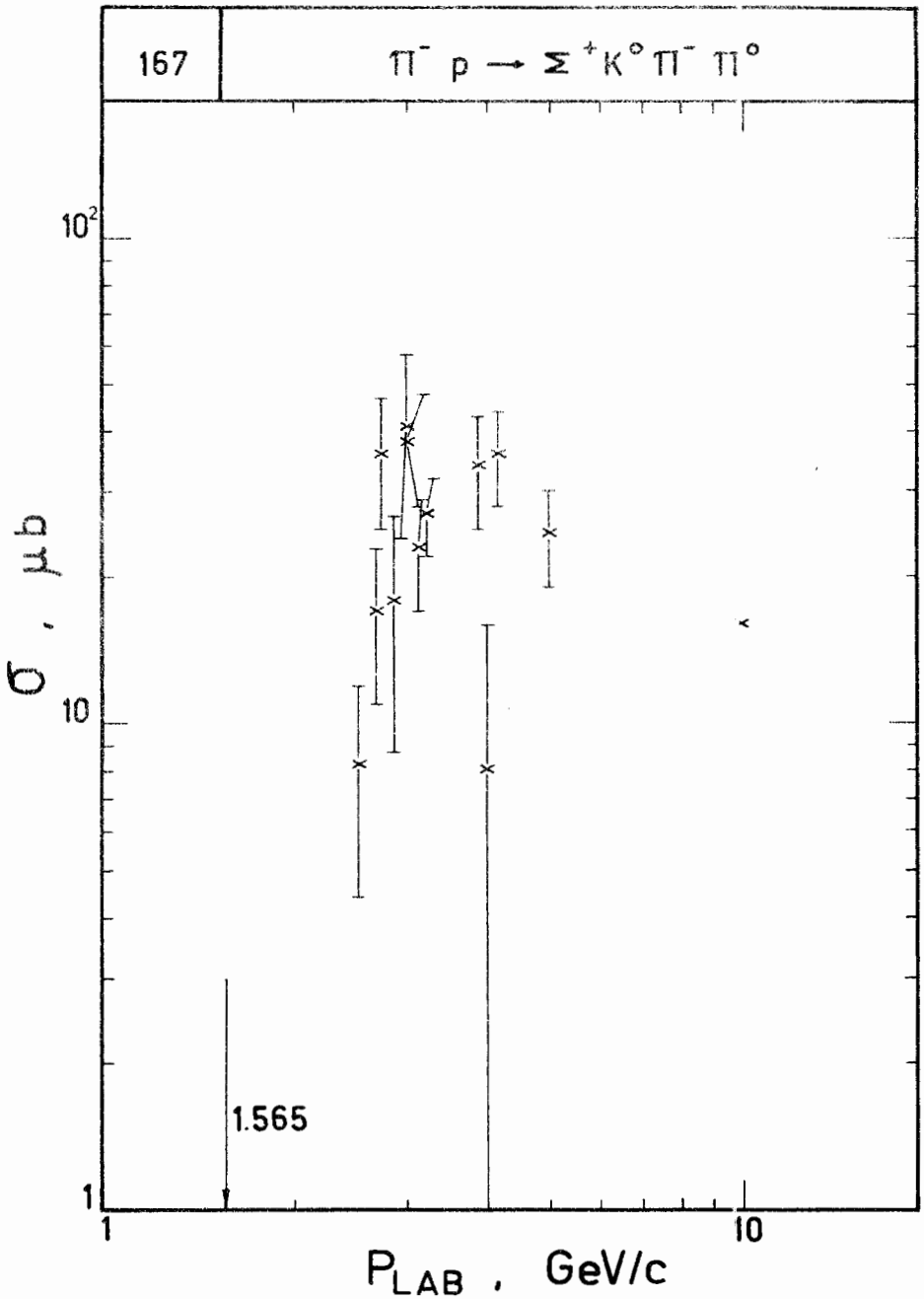

145
$\pi^- p \rightarrow \Lambda K^+ \pi^- \pi^\circ$
10^3
10^2
10
1
σ , μb
1.405
1
10
P_{LAB} , GeV/c

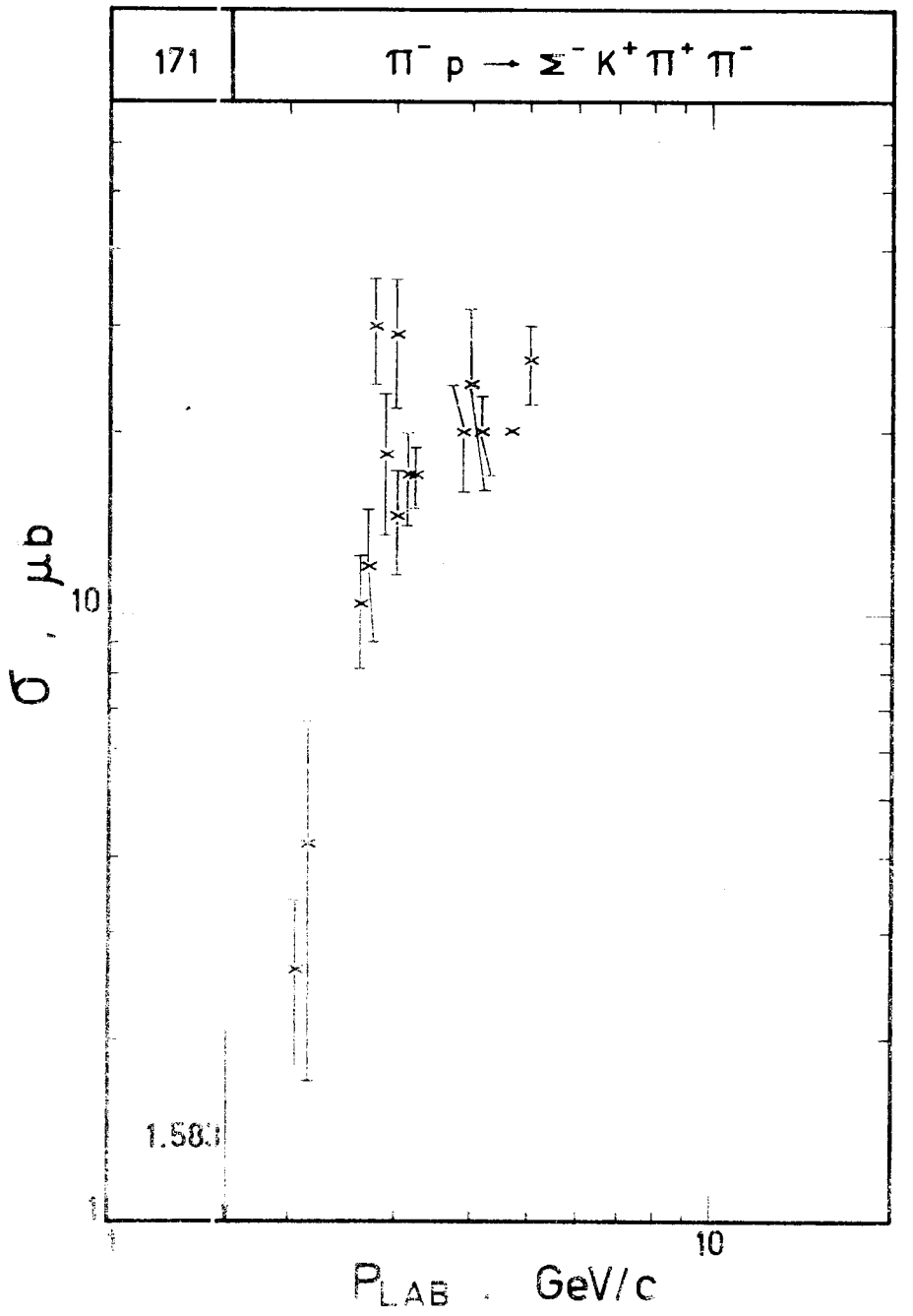

147
π⁻ p → Λ K° π⁺ π⁻
10³
10²
10
1
σ , μb
1.422
1
10
P_LAB , GeV/c

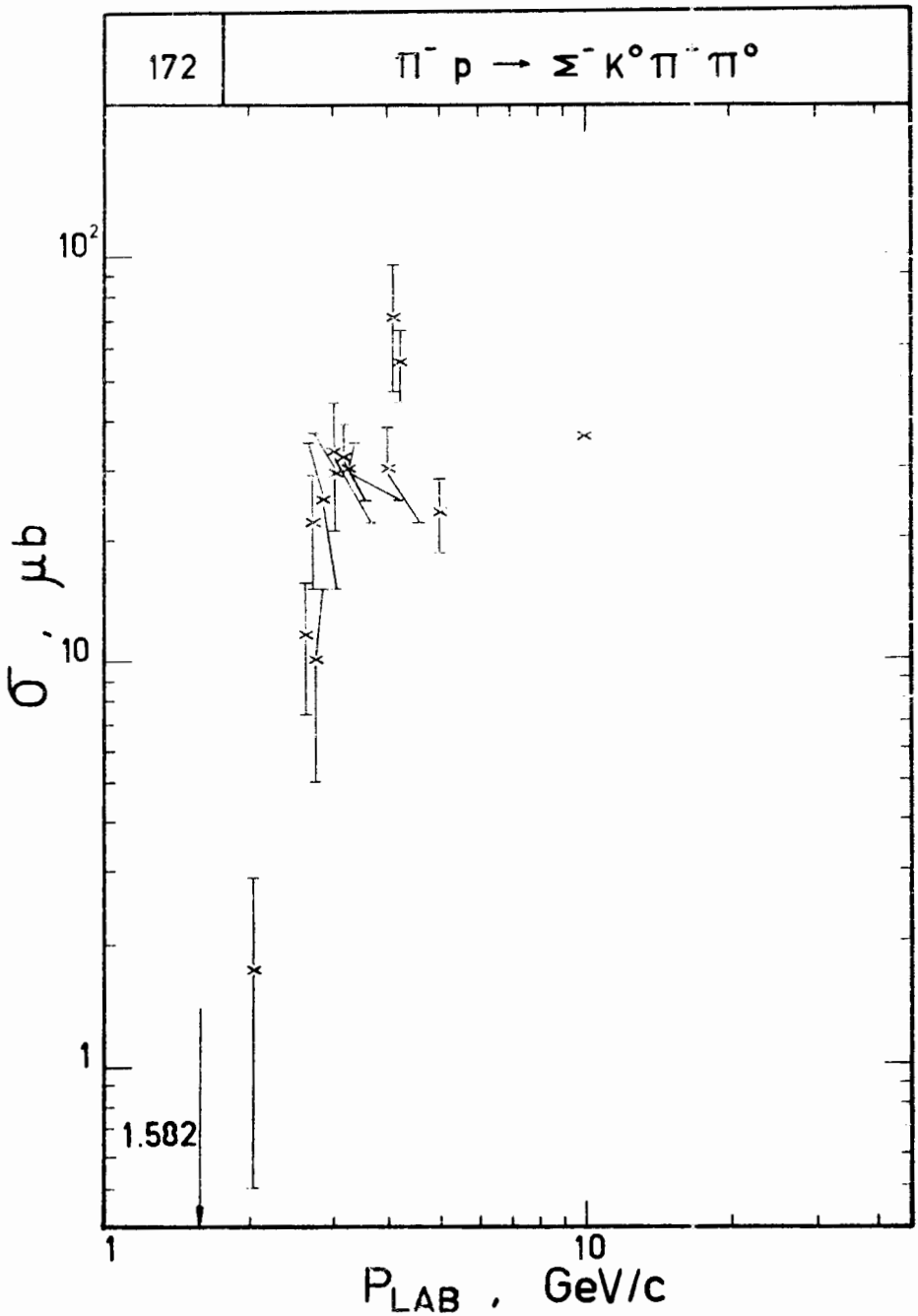

151
π p → Λ K°(890) π° → Λ (Kπ)° π°
σ , μb
10
1
1.957
1
10
P_LAB , GeV/c

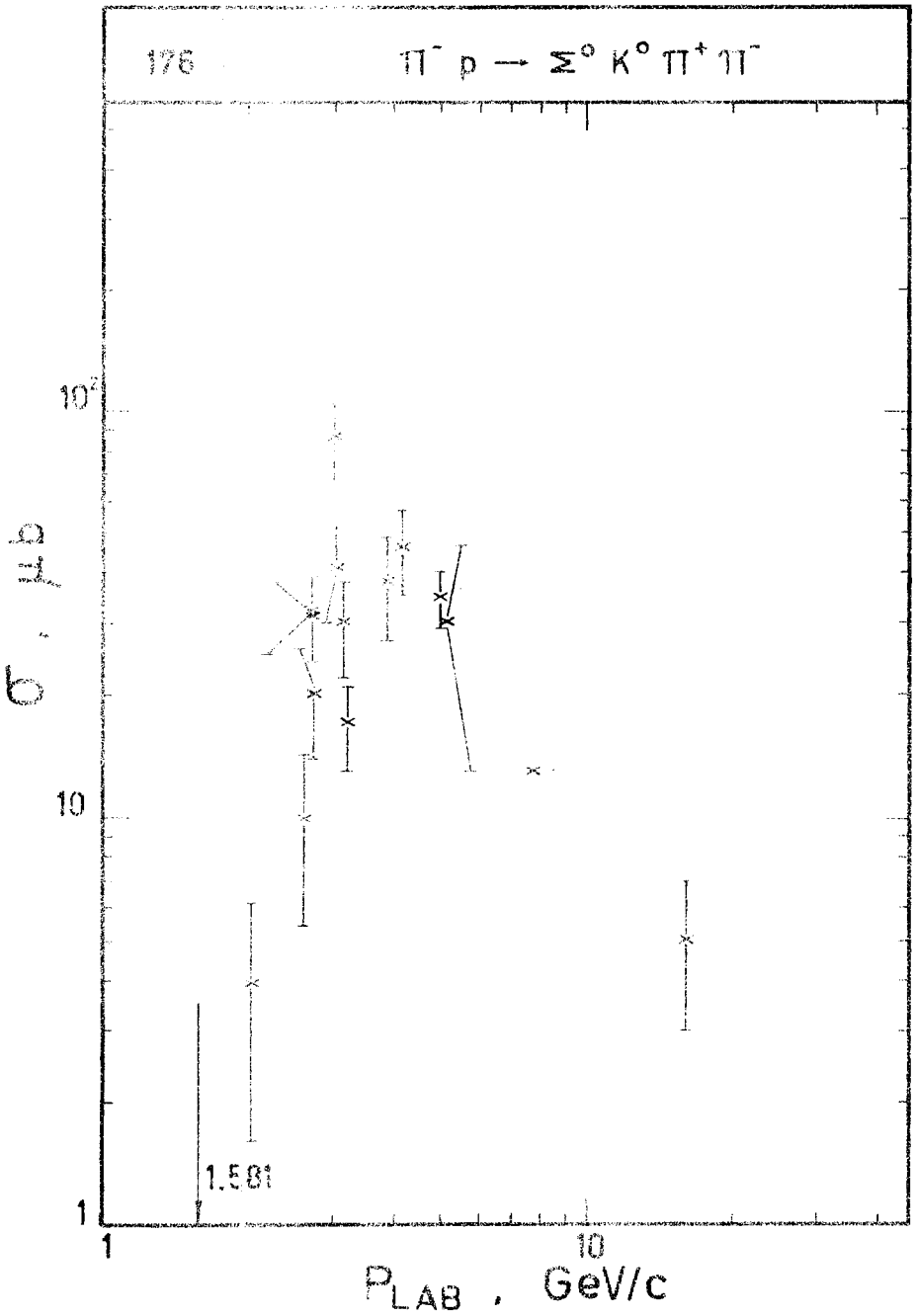

155 •
π p → (Λ/Σ°) K° π⁺ π⁻
σ , μb
10²
10
1
1.422
1
10
P_LAB , GeV/c

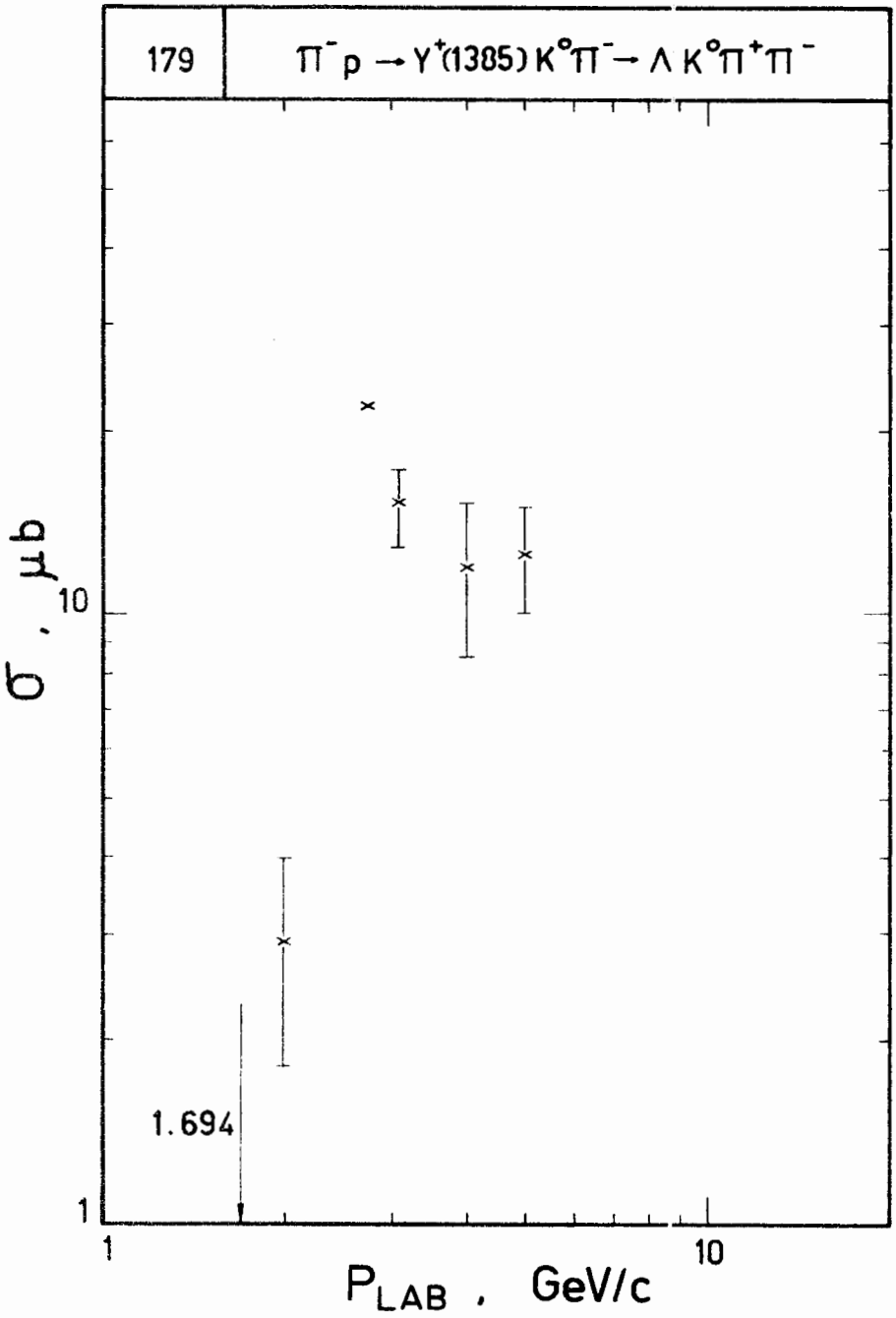

166
$\pi^- p \rightarrow \Sigma^+ K^+ 2\pi^-$
σ , μb
10
1
1.566
1
10
P_{LAB} , GeV/c

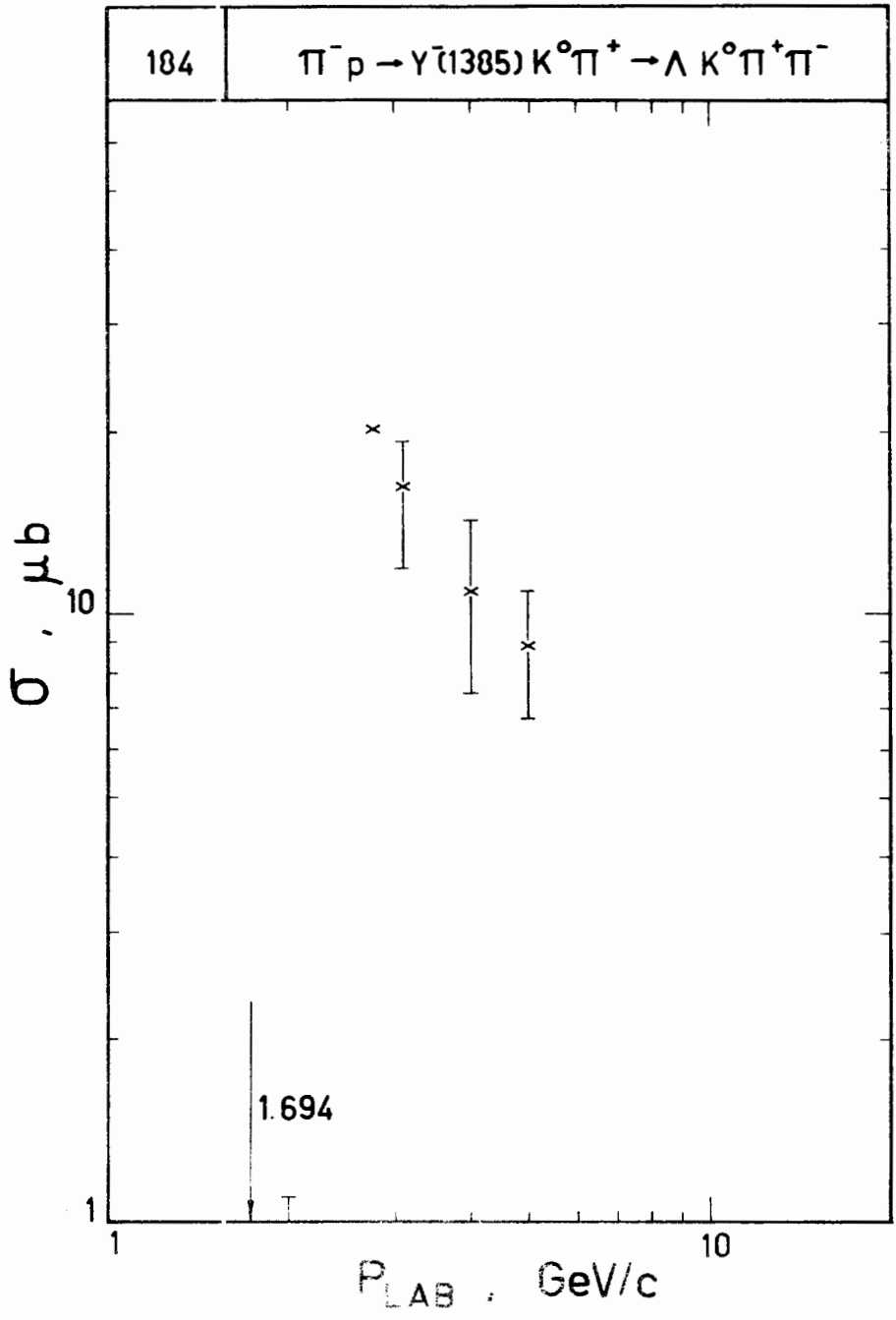

167
$\pi^- p \rightarrow \Sigma^+ K^\circ \pi^- \pi^\circ$
10^2
10
1
σ , μb
1.565
1
10
P_{LAB} , GeV/c

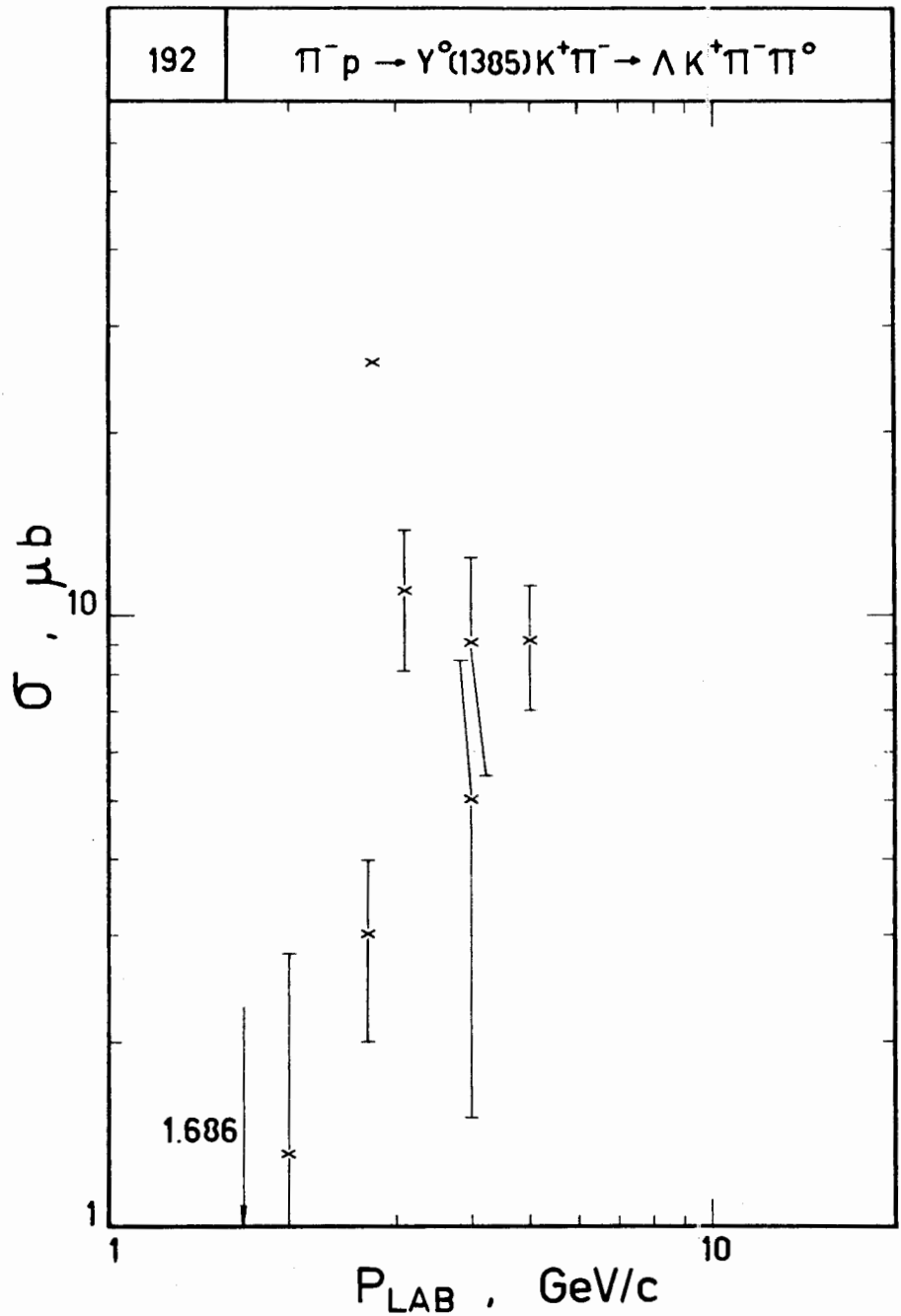

171
$\pi^- p \rightarrow \Sigma^- K^+ \pi^+ \pi^-$
σ , μb
10
1.583
10
P_{LAB} , GeV/c

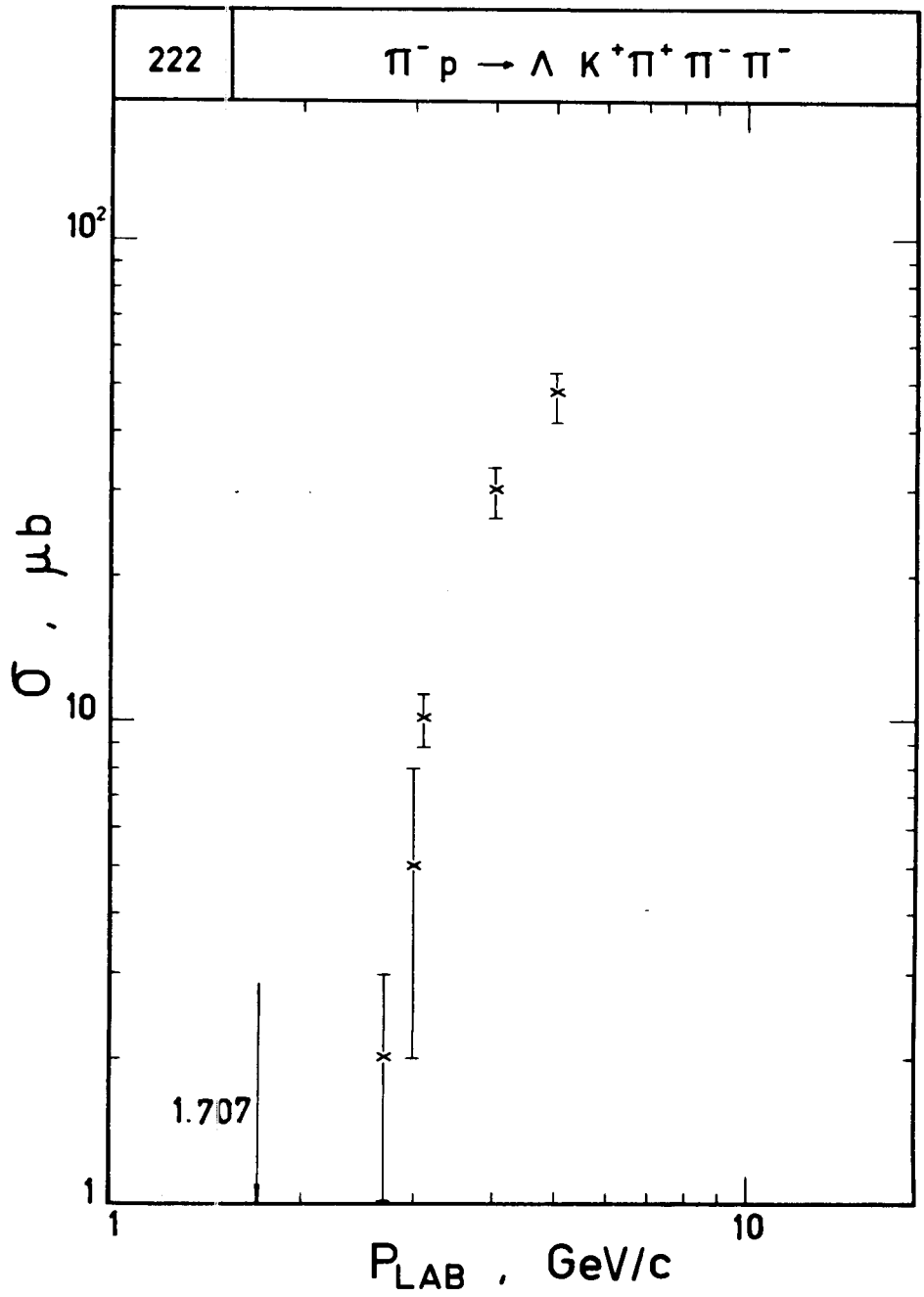

172
$\pi^- p \rightarrow \Sigma^- K^\circ \pi^+ \pi^\circ$
10^2
10
1
σ , μb
1.582
1
10
P_{LAB} , GeV/c

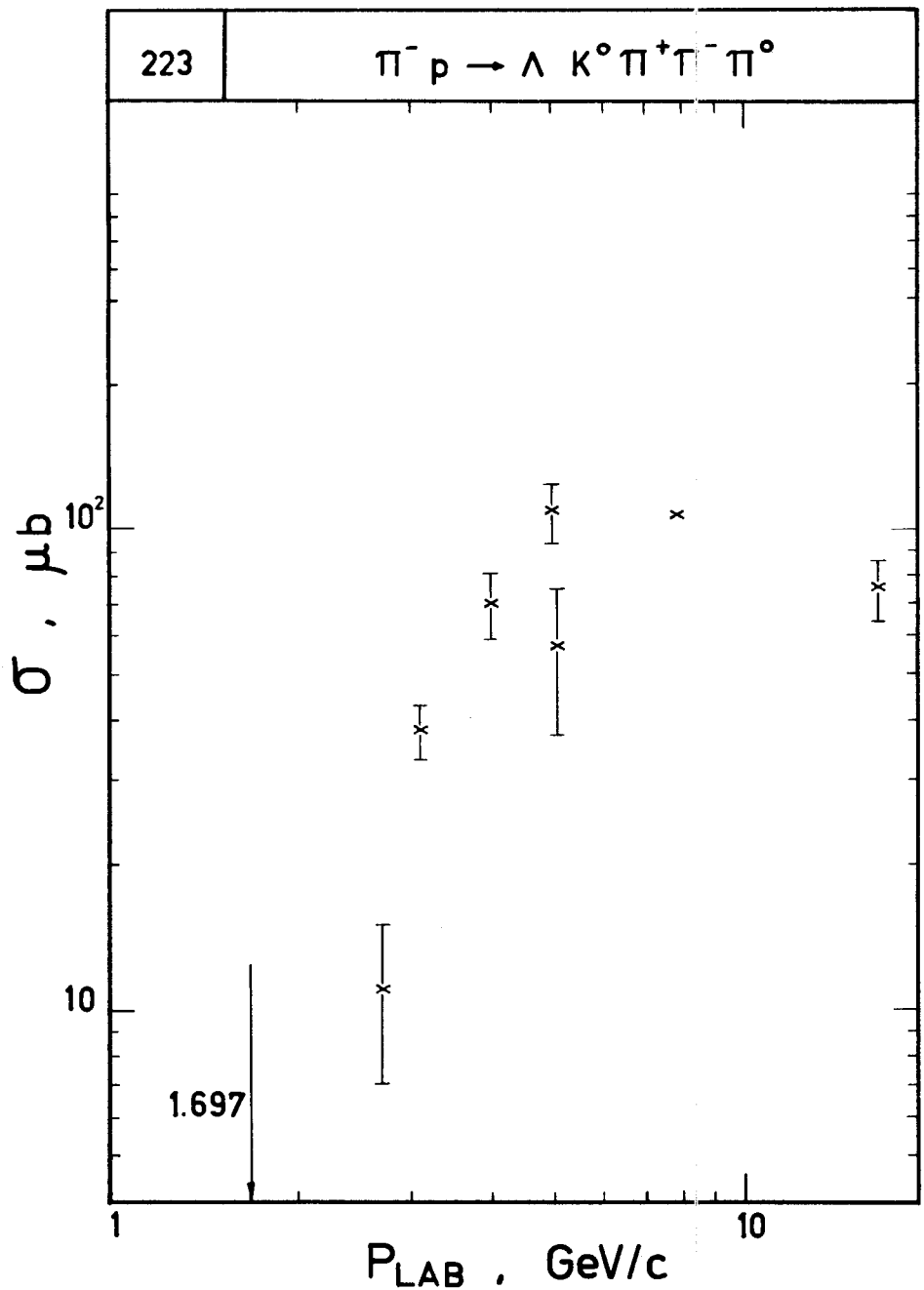

176
π⁻ p → Σ° K° π⁺ π⁻
10²
10
1
σ , μb
1.581
1
10
P_LAB , GeV/c

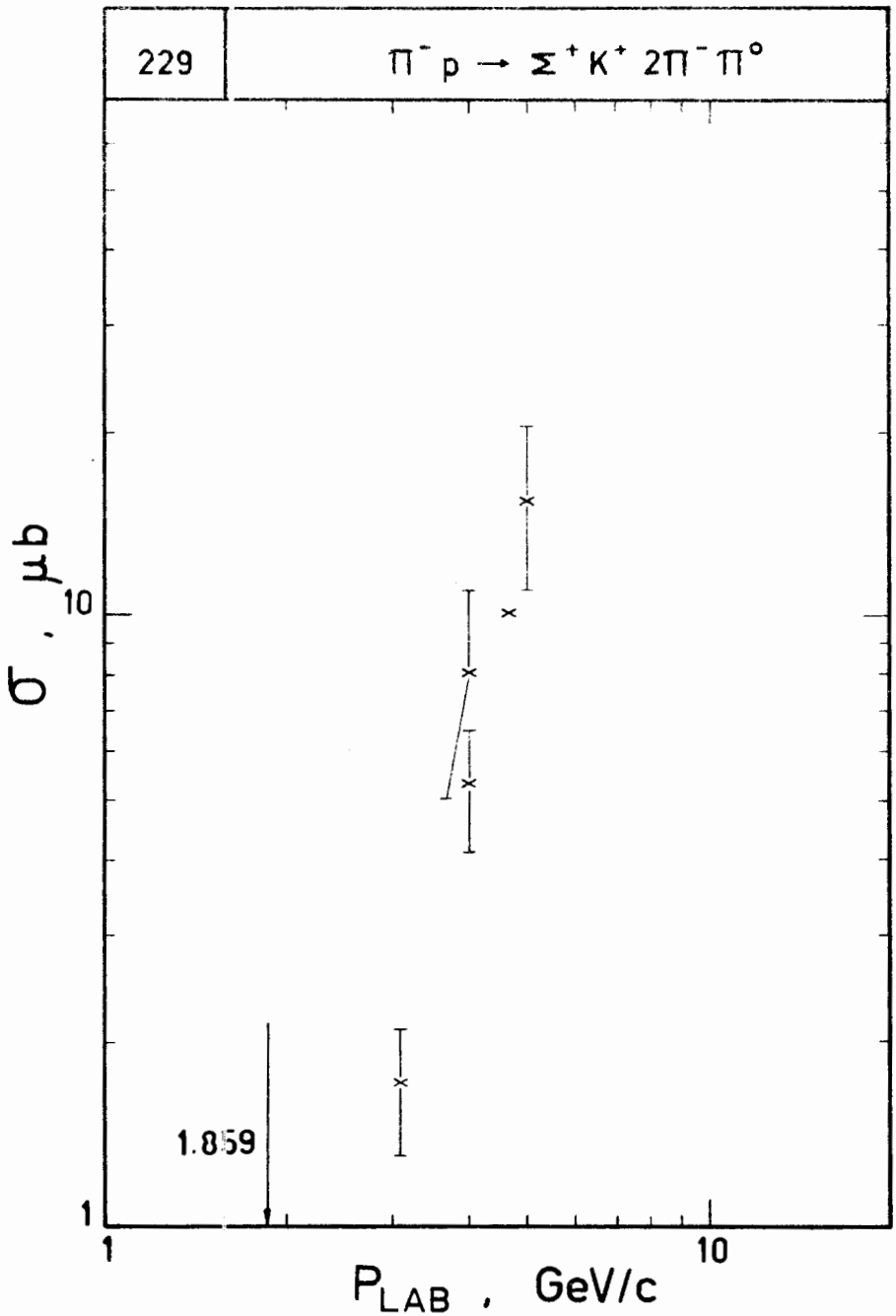

179
π⁻ p → Y⁺(1385) K°π⁻ → Λ K°π⁺π⁻
σ , μb
10
1
1.694
1
10
P_LAB , GeV/c

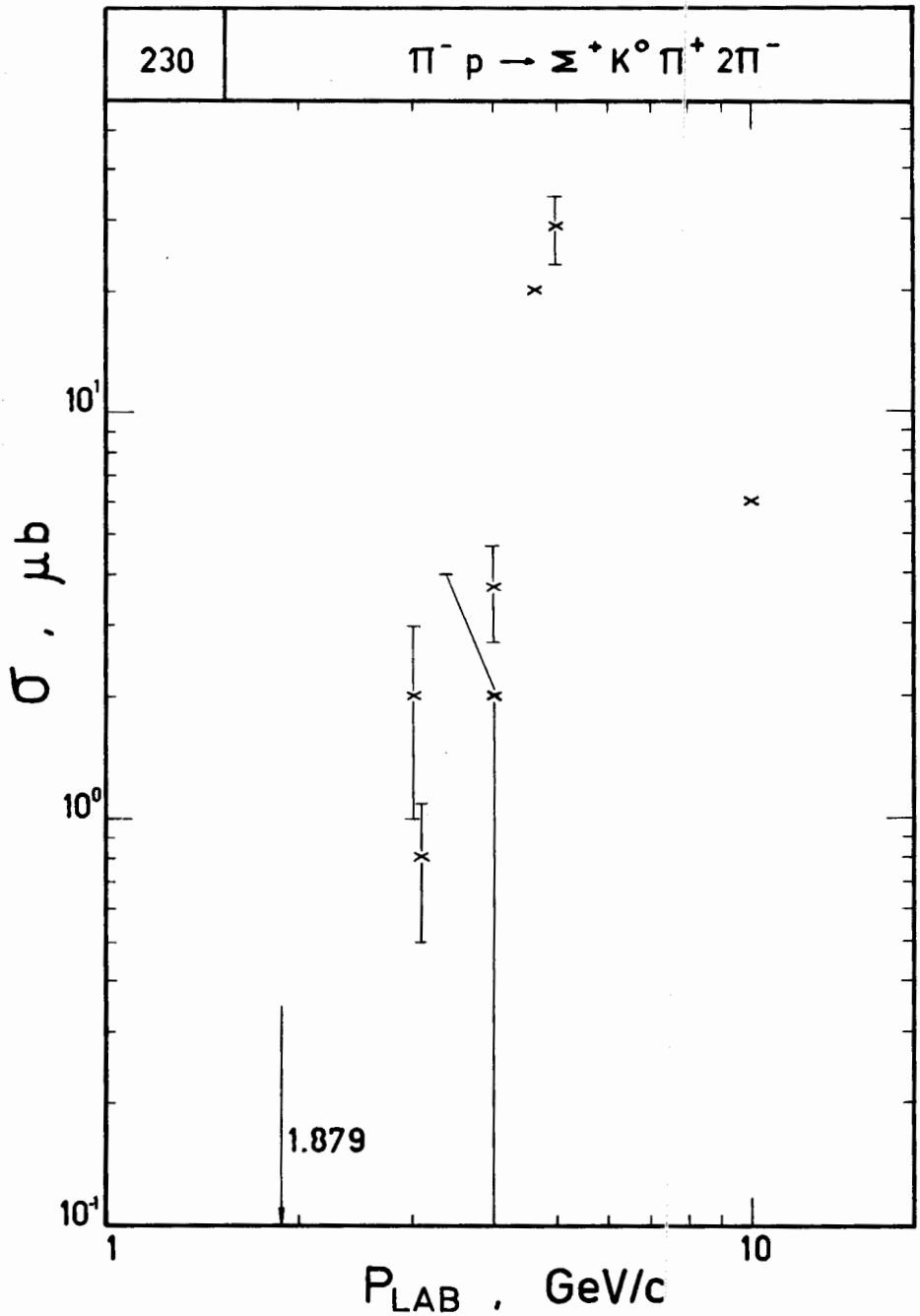

184
π⁻p → Y⁻(1385) K°π⁺ → Λ K°π⁺π⁻
σ , μb
10
1
1.694
1
10
P_LAB , GeV/c

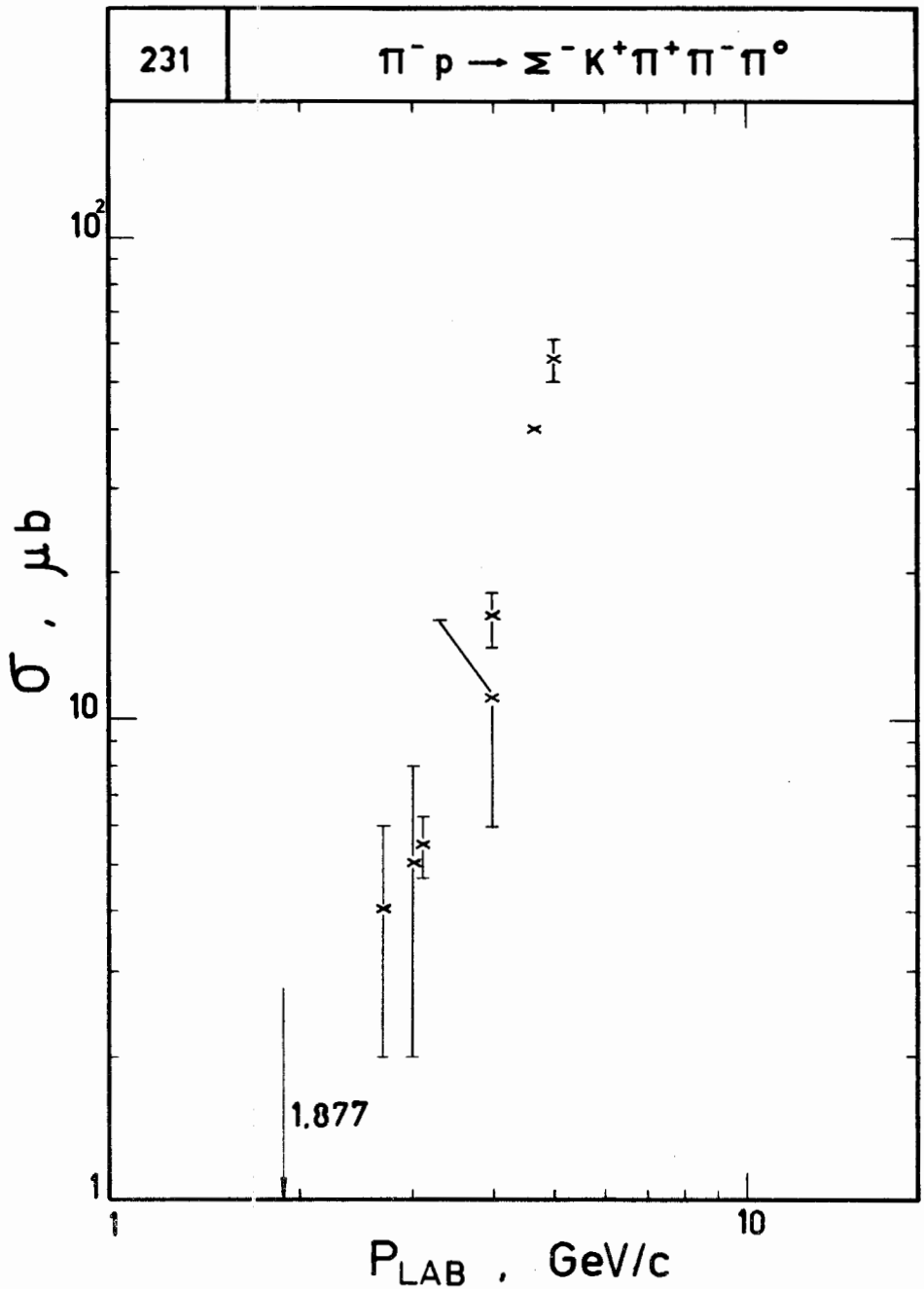

192
$\pi^- p \rightarrow Y^0(1385) K^+ \pi^- \rightarrow \Lambda K^+ \pi^- \pi^0$
σ , μb
10
1
1.686
1
10
P_{LAB} , GeV/c

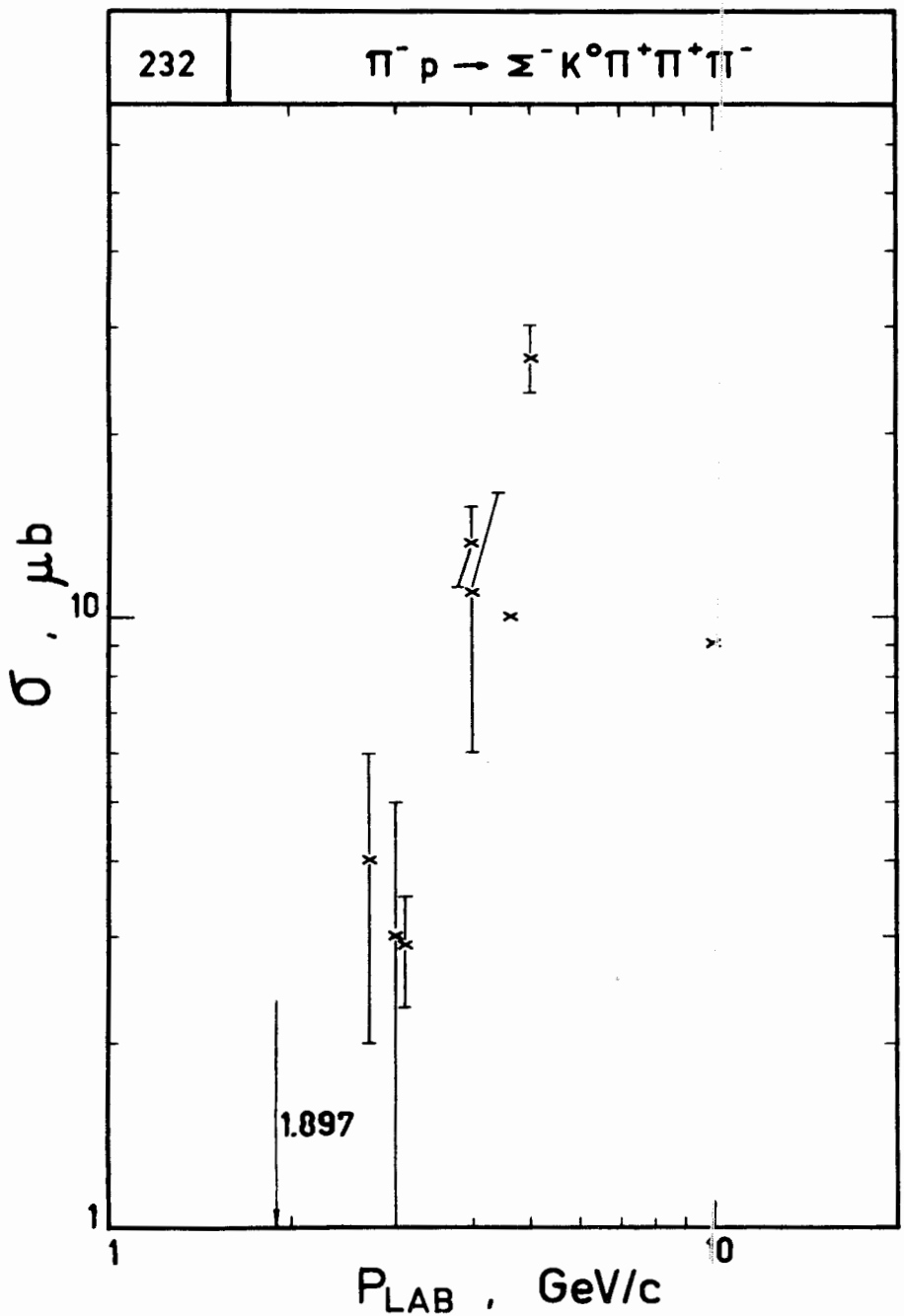

222
$\pi^- p \rightarrow \Lambda K^+\pi^+\pi^-\pi^-$
10^2
10
1
σ , μb
1.707
1
10
P_{LAB} , GeV/c


223
π⁻ p → Λ K°π⁺π⁻π°
σ , μb
10²
10
1.697
1
10
P_LAB , GeV/c


229
$\pi^- p \rightarrow \Sigma^+ K^+ 2\pi^- \pi^\circ$
σ , μb
10
1
1.859
1
10
P_{LAB} , GeV/c


230
$\pi^- p \rightarrow \Sigma^+ K^\circ \pi^+ 2\pi^-$
10^1
10^0
10^{-1}
σ , μb
1.879
1
10
P_{LAB} , GeV/c


231
$\pi^- p \rightarrow \Sigma^- K^+ \pi^+ \pi^- \pi^\circ$
10^2
10
1
σ , μb
1.877
1
10
P_{LAB} , GeV/c


232
π⁻ p → Σ⁻ K°π⁺π⁺π⁻
σ , μb
10
1
1.897
1
10
P_LAB , GeV/c