LOBACHEVSKY GEOMETRY IN RELATIVISTIC NUCLEAR PHYSICS. DIRECTED NUCLEAR RADIATION

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Application of the Lobachevsky geometry for solution of some problems in relativistic nuclear physics is discussed. Geometric description of the problem of particle production and the idea of "elementary particle" is considered. The geometric properties of particle distributions in relativistic nuclear reactions and the new regularities based on the properties of the Lobachevsky space are presented. The results of analysis are illustrated by a vast experimental material acquired in the bubble chamber experiments.