

MUON CAPTURE MEASUREMENTS WITH Ba-136 TARGET

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The large energy and momentum transfer of ordinary muon capture makes it an excellent tool to study the nuclear structure at conditions similar to neutrinoless double beta decay and benchmark the corresponding nuclear matrix elements. The MONUMENT collaboration is performing a set of muon capture experiments at the Paul Scherrer Institute in Switzerland. In the report, the measurement principle, the setup and preliminary results performed with Ba-136 target are presented. These measurements will benefit future calculations for leading double beta decay experiments.