LXXIV International conference Nucleus-2024: Fundamental problems and applications

Contribution ID: 140 Type: Oral

Muon capture measurements with Ba-136 target.

Wednesday 3 July 2024 11:00 (15 minutes)

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.

Section

Nuclear structure: theory and experiment

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Session Classification: Nuclear structure: theory and experiment