

Muon capture experiment at PSI

Monday 5 November 2018 16:15 (20 minutes)

In the talk we observe our previous experience at the PSI muon facility, namely high precision gamma-spectroscopy with negative slow muons on the $\mu\text{E-4}$ and $\mu\text{E-1}$ beams with HPGe –detectors and with isotopically enriched targets (solid and gas). Such experiments could be divided in to three parts:

- Doppler profile of gamma-lines following OMC (angular correlation with neutrino)
- Partial capture rates (for double beta decay, as an example)
- Muonic X-rays (electronic catalogue www.muxrays.jinr.ru)

We also plan to discuss the possibilities to continue such investigations, and some new ideas in future.

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Session Classification: Discussion