

The first result of precise muonium hyperfine measurement in J-PARC

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MuSEUM is an international collaboration aiming at new precise measurements of the muonium hyperfine structure at J-PARC (Japan Proton Accelerator Research Complex). The new high intensity muon beam that will soon be available at Muon facility will provide an opportunity to improve the precision of these measurements by one order of magnitude. An overview of the different aspects of these new measurements, the current status of the preparation, and the results of commissioning test experiments at zero field are presented.

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Track Classification: Leptonic atoms: QED and gravity