

New Muonium Hyperfine Measurement at 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.

Summary

The present status of new Muonium hyperfine measurement planed in J-PARC will be overviewed, including recent succesful measurement at zero field

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Session Classification: Tests of symmetries and conservation laws

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