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Precision spectroscopy of muonic systems with high-intensity pulsed muon beam

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The experiments with pulsed muon beam and DC muon beam are in a complementary relationship mutually. At J-PARC, two spectroscopy experiments to study the hyperfine splitting in muonic atoms with high-intensity pulsed muon beam were proposed. A microwave spectroscopy of muonium is in progress and a laser spectroscopy of muonic hydrogen is in preparation. In this talk, status of these two experiments will be reported.

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