

# NuFact'11 XIIIth Workshop on Neutrino Factories, Superbeams and Beta-beams



Contribution ID: 83

Type: **not specified**

## WG4 MuHFS experiment at J-PARC

We are planning an experiment to measure hyperfine splitting frequency of the ground state of muonium atom at J-PARC MLF. Compared to the previous experiment carried out at LAMPF, the proposed experiment will benefit from the high intensity of the muon beam available at J-PARC MLF, and smaller correction due to gas pressure shift thanks to the usage of longer RF cavity, where muonium are formed and RF field are applied.

We will report the current status of the preparation for the experiment, mainly on the design of the gas chamber/RF cavity.

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