

Searching for Muonium-Antimuonium Conversion on MELODY: The Physical Design

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Muonium-Antimuonium Conversion (MAC) is one of the possible way of the charged Lepton Flavor Violation, which has been predicted by many beyond Standard Model theories. The most recent exploration of searching for it was made in 25 years ago. Recently, not only the accelerator technology, but also the detector performance have been deeply developed. Construction of a better MAC spectrometer is imperative. In this presentation, a new design of MAC spectrometer is purposed based on the advanced detector technology LGAD, and the pulsed muon source MELODY which is being built in CSNS.

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