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nuSTORM: Neutrinos from STORed Muons

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Neutrino beams produced from the decay of muons in a racetrack-like decay ring provide a powerful way to study short-baseline neutrino oscillation and neutrino interaction physics. In this talk, I will describe the facility, nuSTORM, and show how the unique neutrino beam at the facility will enable experiments of unprecedented precision to be carried out. I will present sensitivity plots that indicated that this approach can provide well over 5 sigma confirmation or rejection of the LSND/MinBooNE results and can be used to perform neutrino interaction measurements of unprecedented precision. The unique ν beam available at the nuSTORM facility has the potential to be transformational in our approach to ν interaction physics, offering a "ν light source"to physicists from a number of disciplines.

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