東北大学　宇宙創成物理学国際共同大学院プログラム

GPPU Seminar

“Looking for electrons in all the wrong places”

by Kevin McFarland (University of Rochester)

Time and Date: 13:30 - 15:30, October 30, 2025

Place: Room 301, Physics Lecture Hall (H-24) (hybrid)

Registration: "https://us02web.zoom.us/meeting/register/kz8Aj1RLSR-HQK50uevJMw"

Abstract:

Energetic electrons aren’t the first thing you’d expect to find in neutrino interactions from a predominantly muon neutrino beam from an accelerator neutrino source. But they are found in rare processes, like neutrino-electron elastic scattering, and from the 1% component of the beam that comes from decays of muons or kaons. I’ll share a series of physics stories from the MINERvA experiment at Fermilab featuring these electrons, and backgrounds to them, that range from measurements of expected rare processes to tests for surprise gifts from nature.

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