There's More to Neutrinos Than Oscillations - Expected Measurements from the MiniBooNE Experiment

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The recent discoveries in neutrino physics have opened a new frontier in high energy physics. Understanding neutrinos and how they interact is crucial to continuing to verify the Standard Model and looking for beyond the Standard Model physics. Searches for electromagnetic properties of neutrinos, such as a non-zero neutrino magnetic moment, can help identify beyond Standard Model physics, as well as address a number of important astrophysical issues. The MiniBooNE experiment at Fermilab will be able to improve upon the search for the muon-neutrino magnetic moment. The experiment and its sensitivity to the magnetic moment measurements, supernovae searches, and other exotic neutrino phenomena searches, will be presented.