Title: The need for modern theory in neutrino oscillation experiments: a discussion

Abstract: Current and future neutrino oscillation experiments seek to answer important questions about neutrino oscillation. However, as we move toward precision measurements of neutrino oscillation, it has become clear that robust modern theory from both high energy and nuclear physics is essential. This talk will describe the specific needs of the current and future program, and conclude with a discussion about how MSU may make critical contributions to neutrino oscillation experiments.