

Abstract Submitted
for the APR10 Meeting of
The American Physical Society

ν_e from K^+ Decay in SciBooNE GARY CHENG, Columbia University, SCIBOONE COLLABORATION — The MiniBooNE experiment reported no evidence of the ν_μ to ν_e oscillation detected in the LSND experiment. A source of uncertainty in the MiniBooNE result is the calculated K^+ flux normalization used to determine the incident neutrino beam. SciBooNE, a finely segmented neutrino detector designed to measure neutrino cross-sections, was placed in the same neutrino beam upstream of MiniBooNE. It is possible to use high energy ν_e events detected in SciBooNE to place a constraint on the K^+ flux normalization in the neutrino beam. A study of the high energy ν_e events in SciBooNE will be presented.

Gary Cheng
Columbia University

Date submitted: 21 Oct 2009

Electronic form version 1.4