Abstract Submitted
for the APR16 Meeting of
The American Physical Society

A First Search for a Low Energy Excess in MicroBooNE DAVID KALEKO, Columbia Univ, MICROBOONE COLLABORATION — MicroBooNE is a neutrino experiment which began taking Booster Neutrino Beam data at Fermilab in October 2015. It employs an 89 ton (active volume) liquid argon Time Projection Chamber (TPC) to record ionization signals from particles produced in neutrino interactions and uses scintillation light detected by a PMT array to provide precise interaction timing information. The flagship physics measurement for which the MicroBooNE experiment was designed is the investigation of the excess of electromagnetic events observed by MiniBooNE. This talk will discuss initial analysis techniques aimed at confirming and understanding the source of this "low energy excess", including event selection, neutrino energy reconstruction, and various techniques for mitigating expected backgrounds that will affect this analysis.

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Date submitted: 08 Jan 2016 Electronic form version 1.4