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## MicroBooNE's Search for a Photon-Like Low Energy Excess

MicroBooNE is a Liquid Argon Time Projection Chamber which has been taking neutrino data at Fermilab's Booster Neutrino Beamline since October 2015. One of its primary goals is to investigate the "Low Energy Excess" of neutrino events observed by the MiniBooNE experiment, for which candidate interpretations include an underestimation of neutrino neutral current (NC) resonant Delta production with subsequent radiative decay or another anomalous source of single photon production in neutrino interactions. NC Delta radiative decay could be a sizable contribution to the "Low Energy Excess". This poster will present first results from the analysis developed to search for NC Delta radiative events in MicroBooNE, consisting of a boosted decision tree based event selection with a NC neutral pion background constraint.

### Mini-abstract

Interpreting MiniBooNE low energy excess using neutral current delta radiative decays in MicroBooNE

### Experiment/Collaboration

MicroBooNE

**Primary author:** SUTTON, Kathryn

**Presenter:** SUTTON, Kathryn

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