

XX International Workshop on Neutrino Telescopes



Contribution ID: 70

Type: **Contributed Parallel Talk**

Photon Analyses in MicroBooNE

Thursday, October 26, 2023 9:40 AM (20 minutes)

The MicroBooNE experiment is an 85-ton active volume liquid argon time projection chamber (LArTPC) neutrino detector situated in the Fermilab Booster Neutrino Beam (BNB). Leveraging the unique capabilities of LArTPC technology to distinguish photons from electron electromagnetic showers, MicroBooNE has achieved the world's most sensitive search for neutrino-induced single-photon production. In this talk, we will present a comprehensive overview of these results, as well as recent advancements in our search for single-photons. These include a more model-independent approach utilizing inclusive photon searches, as well as a targeted search for NC coherent-like single-photon production.

Co-author: LUO, Xiao (UCSB)

Presenter: LUO, Xiao (UCSB)

Session Classification: Neutrino Properties

Track Classification: Neutrino Properties