

# The XXIX International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 2022)



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## Recent results from the MicroBooNE experiment

*Thursday 30 June 2022 12:00 (30 minutes)*

The MicroBooNE collaboration recently released a series of measurements aimed at investigating the nature of the excess of low energy electromagnetic interactions observed by the MiniBooNE collaboration. In this talk, we will present the latest results from both a search of single photons in MicroBooNE, as well as a series of three independent analyses leveraging different reconstruction paradigms which look for an anomalous excess of electron neutrino events in the Fermilab Booster neutrino beam. This talk will present details of these recent results including event selection, background estimation, systematic uncertainty analysis and cross-checks to demonstrate the robustness of analysis.

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