

New Physics Searches with MicroBooNE

Monday, 17 June 2024 14:30 (20 minutes)

MicroBooNE's beyond the standard model (BSM) physics program spans searches for feebly interacting dark sector particles, investigations of the MiniBooNE Low Energy Excess, and searches for light eV-scale sterile neutrinos. This program is carried out with data collected from Fermilab's BNB and off-axis NuMI neutrino beams. With five years of data collected, MicroBooNE is sensitive to a broad range of new physics models. This talk will present recent results from MicroBooNE's broad BSM physics program, and describe the novel analysis techniques which are enabling it.

Poster prize

Given name

Surname

First affiliation

Second affiliation

Institutional email

Gender

Collaboration (if any)

Presenter: CARATELLI, David (UC Santa Barbara)

Session Classification: S2: Sterile Neutrino