

## New Perspectives



Contribution ID: 97

Type: **not specified**

## MINERvA in 10 Minutes

*Tuesday, June 21, 2022 8:15 AM (15 minutes)*

The MINERvA (Main INjector ExpeRiment for  $\nu$ -A scattering) experiment was designed to perform high-statistics precision studies of neutrino-nucleus scattering in the GeV regime on various nuclear targets using the high-intensity NuMI beam at Fermilab. The experiment recorded neutrino and antineutrino scattering data from 2009 to 2019 using the Low-Energy and Medium-Energy beams that peak at 3.5 GeV and 6 GeV, respectively. MINERvA's results are being used as inputs to current and future experiments seeking to study neutrino oscillations, or the ability of neutrinos to change their type. The neutrino interaction measurements also provide information about the structure of protons and neutrons and the strong force dynamics that affect neutrino-nucleon interactions. A brief description of the MINERvA experiment, the highlights of past accomplishments, and recent results will be presented.

**Primary author:** KLUSTOVA, Anezka (Imperial College London)

**Presenter:** KLUSTOVA, Anezka (Imperial College London)

**Session Classification:** Neutrinos