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## **MINERvA's Medium Energy Physics Program**

*Thursday, August 8, 2019 9:15 AM (12 minutes)*

### **Summary**

The MINERvA experiment has recently completed its physics run in the 6-GeV, on-axis NuMI beam at Fermilab. The experiment received a total of  $12E20$  protons on target in both neutrino and antineutrino mode running, which allow for a new level of statistical precision in neutrino interaction measurements, both in comparisons of interaction channels on a range of nuclei and in expansion to kinematic phase space that has not been accessible in previous data sets. In order to make the most of this jump in statistics, a new level of precision in flux prediction is also required. This talk will cover MINERvA's Medium Energy physics program, including the new regimes that are now accessible, and will discuss the new precision reached in flux uncertainty through neutrino-electron scattering.

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