

## NuMI Beam Flux Study for MINERvA

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The Neutrinos at the Main Injector (NuMI) delivers an intense muon neutrino beam in an energy range of 2-20 GeV. A well known neutrino flux is crucial to make absolute cross sections in experiments like Minerva. Several techniques are currently using to constraint the flux and one of them is to use the existing external hadron production data to reduce the NuMI hadron production uncertainties by tuning our Monte Carlo. In this presentation I will be focused on our current effort on this topic.

**Primary author:** Mr ALIAGA SOPLIN, Leonidas (College of William and Mary)

**Presenter:** Mr ALIAGA SOPLIN, Leonidas (College of William and Mary)

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