



## Poster session 2 – Tuesday 5 July

### P3.092 **The neutrino flux from NuMI**

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*on behalf of MINERvA collaboration*

The NuMI beamline at Fermilab serves the MINOS, MINERvA and NOvA experiments, as well as supplying an auxiliary beam for the short baseline experiments MicroBooNE and ICARUS. In this poster we'll describe our prediction for the NuMI neutrino flux, based on a suite of hadron production data from NA49, MIPP, NA61 and other experiments. These data are complemented by significant improvements to the modeling of NuMI and are reinforced with in situ scattering measurements in MINERvA. NuMI's design is similar to the one envisioned for the upcoming LNBF facility, which will provide neutrinos for the multi-national DUNE experiment. Our methodology and constraints can be applied to DUNE in a straightforward fashion.