

Predicting Neutrino Emission for the Sources in the H.E.S.S. Galactic Plane Survey

Presented by
Rowan Batzofin
University of the Witwatersrand

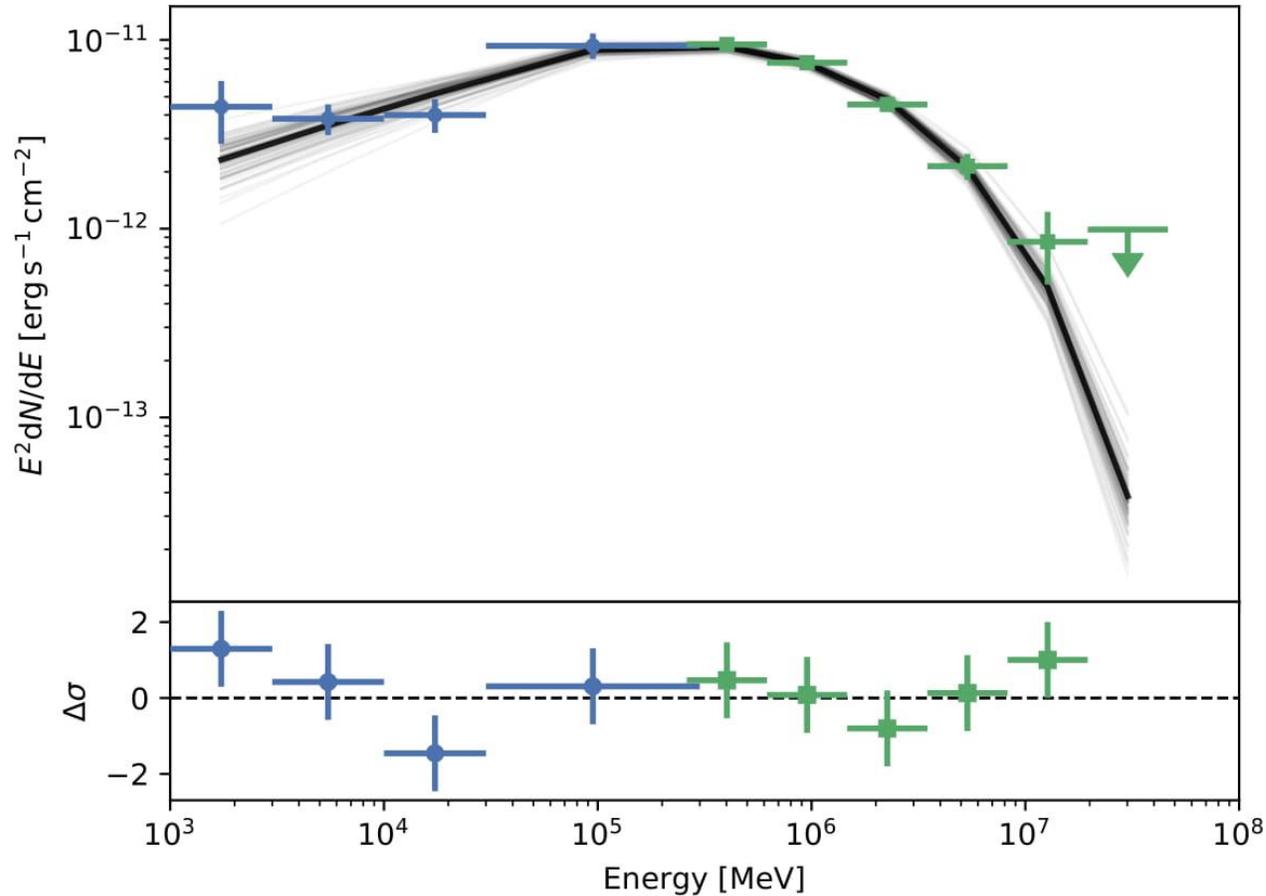
H.E.S.S. Galactic Plane Survey

- 78 sources
- 48 unidentified
- 66 used to create neutrino map

Model is Independent of:

- Source Class
- Distance to source
- Density of the ambient medium

Fitting the Gamma-ray emission



Green: HESS J1640-465

Blue: 4FGL J1640.6-4632

χ^2 p-value = 0.43

Parameters of the proton spectrum:

Spectral index = 1.7

Energy Cutoff = 15.7 TeV

Normalisation = 3.9×10^{48} TeV $^{-1}$ s $^{-1}$ cm $^{-2}$

