Contribution ID: **321** Type: **Poster**

Hadronic synchrotron mirror model for blazars- Application to 3C279

Friday, 16 April 2021 18:38 (3 minutes)

On the 28th of January, an orphan very-high-energy γ-ray flare from 3C279 was detected, not accompanied by flaring in the adjacent GeV gamma-ray regime. Orphan flares have to be caused by different processes than normal γ-ray flares. Specifically, the Hadronic Synchrotron Mirror Model has been proposed to provide a consistent explanation of this flare. The expected target photon densities have been calculated analytically using the cloud/mirror model. The results suggest that the Hadronic Synchrotron Mirror Model may provide a plausible explanation. A semi-analytical model has been developed to represent the Hadronic Synchrotron Mirror Model in a realistic fashion. Our analytical estimates are confirmed by detailed numerical simulations of the Hadronic Synchrotron Mirror scenario, predicting snap-shot SEDs and light curves as well as neutrino emission.

Primary author: OBERHOLZER, Laenita

Presenter: OBERHOLZER, Laenita

Session Classification: AGN-3

Track Classification: AGN