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The Rise of the Leptons: Pulsar Emission Dominates the TeV Gamma-Ray Sky

Tuesday 8 August 2017 14:00 (15 minutes)

Recent HAWC observations have found extended TeV emission coincident with the Geminga and Monogem pulsars. In this talk, I will show that these detections have significant implications for our understanding of pulsar emission. The isotropic nature of this emission provides a new avenue for detecting nearby pulsars with radio beams that are not oriented towards Earth. Additionally, I will show that the total emission from all unresolved pulsars produces the majority of the TeV gamma-ray flux observed from the Milky Way.

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