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A brief overview of UHE gamma-ray astronomy

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Ultra-High Energy (UHE, >0.1 PeV) γ-ray astronomy has emerged as a pivotal field in astrophysics, driven by the discovery of 43 UHE sources. These sources are critical for identifying PeVatrons—astrophysical accelerators capable of producing particles at PeV energies—which are linked to the origin of cosmic rays (CRs) near the "knee" of the CR spectrum (~1–3 PeV). This presentation provides a brief overview of these UHE sources and examines their implications for pinpointing potential PeV CR origins as revealed by observational data.

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