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Comparison between PeVatron candidates in the HAWC and LHAASO Data Sets

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The search for the PeVatrons is one of the most important goals of the very-high-energy gamma-ray community. Gamma-rays of energies >100 TeV are produced by particles previously accelerated to PeV energies in astrophysical sources and point back to them because they are not deflected by galactic magnetic fields. Last year, LHAASO published a list of 12 sources emitting gamma rays of energy >100 TeV, which had been preceded by a publication of a list of nine sources emitting > ˜60 TeV gamma-rays by the High-Altitude Water Cherenkov (HAWC) observatory. HAWC recently released a new data set (pass 5). With more accumulated statistics and better angular resolution, more PeVatron candidates were identified in this data set. We will present preliminary results from this PeVatron search and compare HAWC with LHAASO measurements.

Collaboration name

HAWC

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