



ID de Contribution: 44

Type: **Talk**

The Galactic PeVatron Candidates for Very-high-energy Gamma-ray Observation

lundi 28 mai 2018 10:25 (20 minutes)

One of the major scientific objectives of the future Cherenkov Telescope Array (CTA) Observatory is the discovery of PeVatrons, which are able to accelerate charged particle up to 1 PeV (10^{15} eV). The determination of efficient criteria to identify PeVatron candidates during the observations is essential in order to trigger deeper observations. Here we use the simulated data, which call Data Challenge One (DC-1) to test which kinds of object in the Galaxy can be PeVatron. By finishing this, we generate the candidates' spectrum and fit the radiative models to see whether they are the PeVatron candidate.

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Classification de Session: Astrophysics & Cosmology