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High-energy Morphologies of Supernova Remnants

It is considered that supernova remnant (SNRs) is one of the most possible accelerators of Galactic Cosmic Rays (CRs). For the high-energy observation of SNRs, there are a huge debate about the radiation mechanism and the physical processes. Whether SNRs are the efficiently hadronic accelerators is still a question. The Large High Altitude Air Shower Observatory (LHAASO) is the first great science instruments in CR field independently built by our Chinese with an unprecedented sensitivity above 30 TeV and a wide spectrum range to do the research about the morphologies of SNR candidates. Base on the multiwavelength observations of SNR, the morphologies of LHAASO sources associated with SNRs are studied by means of the numerical simulation of SNR evolution. This will help to understand the SNR high-energy particle acceleration and radiation processes.

Summary

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