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Pulsar observations with the MAGIC telescopes

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Although more than 150 gamma-ray pulsars are known in GeV band, their spectra roll off above 10 GeV and only two pulsars are detected at about 50 GeV, namely Crab and Vela. There is also a large difference between Crab and Vela. Crab spectrum is extending above 1 TeV, while Vela has a very soft spectrum, becoming almost undetectable at 100 GeV.

In order to further understand the emission mechanism of pulsars, it is necessary to continue search pulsars above 50 GeV with imaging atmospheric Cherenkov telescopes. In this talk, we will report on the recent observations of Crab and Geminga pulsars by the MAGIC telescopes, along with the analysis results of Fermi-LAT data. The future prospect on the gamma-ray observation with MAGIC will also be shown.

Collaboration

MAGIC

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