Pulsars at very-high energies: developing and testing pulsar analysis

The discovery of a new radiation component at TeV energies in the Vela pulsar, beating at the same frequency that the rotational period of the pulsar, has opened the door for new, exciting interpretations of acceleration of particles in extreme environments. The H.E.S.S. archival dataset with more than 15 years of observations offers a fantastic opportunity to search for more of these objects. Within this project, we will develop analysis tools (using python/GammaPy) to perform timing analysis, and search for high energy pulsation for the best pulsar candidates, using H.E.S.S. and LAT data.

Field

C1: Astroparticle physics analysis and observations

DESY Place

Zeuthen

DESY Division

AP

DESY Group

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Special Qualifications:

Programming Languages: python

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