



Einladung zum Physikalischen Kolloquium

**Montag, 06.02.2012
16:15 Uhr in N24/H13**



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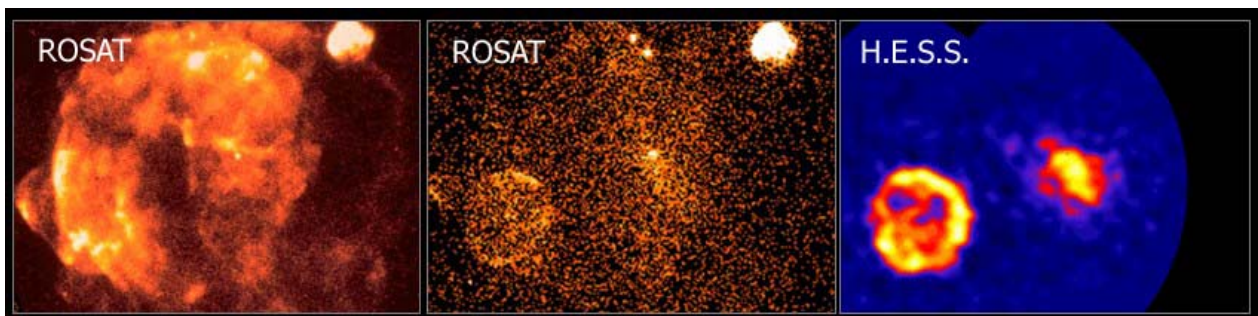
Landessternwarte Heidelberg

Observations of Pulsars and Pulsar Wind Nebulae in Gamma-rays: the Vela region explored from GeV to TeV energies

Since 2003, the continuous observations of the Galactic Plane by Atmospheric Cherenkov Telescopes, especially by H.E.S.S., have yielded the detection of more than 60 Galactic sources. Among them, Pulsar Wind Nebulae (PWNe) are the dominant class with more than 15 sources firmly identified.

In the GeV energy range, observations in this last energy domain have been made possible through the launch of the Fermi-Large Area Telescope operating in the band between 20 MeV and more than 300 GeV. During its first 3 years of operation, it has detected high energy emission from more than a hundred pulsars -- the largest class of GeV sources in the Milky Way -- and several TeV PWNe, including the Crab Nebula, MSH 15-52 or HESS J1825-137.

In this presentation, I will review the recent results obtained with the Fermi-LAT and the Cherenkov experiments on Pulsars and PWNe. A particular attention will be devoted to the Vela region, hosting the Vela Pulsar, the Vela-X PWN and the supernova remnants Vela Junior and Puppis A.



Ab 15.45 Uhr Kaffee, Tee und Kekse vor dem Hörsaal H13

Organisation: Prof. Marti, Tel.: 23011

Dr. Retzker, Tel.: 22902

Host: Prof. Marti Tel.: 23011