

ASTROPHYSICS SEMINAR

Wednesday, 19 October 2011 at 14:00

Gamma-ray flares from the Crab-nebula: A new astrophysical puzzle

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Abstract. The Large Area Telescope on board the Fermi Satellite observed the brightest gamma-ray flare detected to date on April 2011. The gamma-ray brightness of the nebula doubled within ~ 10 hours reaching peak fluxes which are a factor 30 above the average nebula flux value. Surprisingly, simultaneous observations with the Chandra Satellite and the Keck observatory revealed no counterpart to the gamma-ray emission at lower wavelength. The observations give us a new view on the particle acceleration happening within the nebula and imply that the emission region is relativistically beamed towards us.

Additional Information

The seminars are given in the ISDC "Pavillon" building
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