



The MAGIC experiment: highlights, recent results and future perspectives

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MAGIC is one of the main present detectors for performing ground-based observations of VHE gamma-ray sources. It consists of two 17m diameter Imaging Atmospheric Cherenkov telescopes. The telescopes are located at 2200 m a.s.l. at the Roque de los Muchachos, on the Canary island of la Palma, Spain. They are designed to observe gamma rays with energies above ~ 50 GeV. The system recently underwent a major upgrade and it is now taking data with an unprecedented integral sensitivity of 0.66% C.U. above 220 GeV. INAF is participating to MAGIC experiments with some hardware (glass mirrors) and data analysis and scientific interpretation activities. In this presentation I will report about status of the telescopes and the most recent physics highlights, including the fast variability of the radio galaxy IC310, studies of the Crab Nebula, the VHE bridge emission of the Crab pulsar, dark matter studies, discoveries and observations of new sources.

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