



Contribution ID: 90

Type: **Plenary talk**

Public lecture: Diverse Production Sites of Cosmic and Gamma-Rays Discerned Through Selected Observations of MAGIC

Monday, 5 July 2021 12:00 (30 minutes)

MAGIC is the pioneering imaging air Cherenkov telescopes (IACT) instrument, which started performing high-sensitivity measurements in the sub-200 GeV energy range, down to few 10s of GeVs. Since 2009 MAGIC is operating as a double system of 17m diameter IACTs for performing astrophysical measurements in the very high energy range 30GeV – 100TeV. In recent years, by using novel observation techniques, we further enhanced the sensitivity of MAGIC both at the lowest energies of 20-30 GeV as well as at the highest energy of ~100TeV. The very high sensitivity is allowing us to perform original studies, deepening our understanding of selected important aspects of the Universe. In this report we want to show selected observational results of MAGIC of both galactic and extragalactic origins. These, supported by multi-messenger and multi-wavelength measurements, help us to discern and learn important details about the possible production sites of cosmic and gamma rays.

Primary author: MIRZOYAN, Razmik (Max-Planck-Institute for Physics)

Presenter: MIRZOYAN, Razmik (Max-Planck-Institute for Physics)