

The MAGIC of acceleration

Tuesday 11 January 2022 11:40 (30 minutes)

MAGIC is an array of two 17-m diameter Cherenkov telescopes observing gamma rays in the very-high-energy (VHE; above a few tens of GeV) range. MAGIC is in operation since 2003, leading a successful observational program covering a broad range of scientific topics. Observations of gamma-ray emission from Galactic or extragalactic sources allow us to probe the conditions of acceleration of charged particles in them. We will report the recent highlight results of MAGIC, shedding light on acceleration and radiative cooling processes in cosmic sources. In particular we will discuss the newest member of VHE Flat Spectrum Radio Quasar family: B2 1420+32 during its 2020 flaring state, and the steepest source detected in VHE gamma rays: Geminga pulsar.

Author: SITAREK, Julian (University of Łódź)

Presenter: SITAREK, Julian (University of Łódź)

Session Classification: Gamma ray astronomy II