What is this contribution about?

Search for very high energy gamma-ray emission from one of the most energetic millisecond pulsar PSR J0218+4232.

Why is it relevant / interesting?

Very-high-energy gamma-ray emission has been firmly detected only in 3 isolated pulsars, and the discovery of such emission in millisecond pulsars will be helpful to understand the nature of neutron stars and their environments.

What have we done?

We used 11.5 years of Fermi-LAT data and 87 hours of MAGIC data taken with a dedicated low-energy trigger system and compared our spectra with two computational models.

What is the result?

We found significant emission in Fermi-LAT data up to 10 GeV and marginally up to 25 GeV; meanwhile, no emission was detected above 20 GeV with MAGIC.