

# Journal Club- session: 13. Jan. 2020

Read the following publications about latest GRB observations of the MAGIC and H.E.S.S. collaborations

Article

**A very-high-energy component deep in the  $\gamma$ -ray burst afterglow**

Article

**Observation of inverse Compton emission from a long  $\gamma$ -ray burst**

Article

**Teraelectronvolt emission from the  $\gamma$ -ray burst GRB190114C**

- How can the emission of TeV photons from a GRB be explained?
- What are the constraints on proton synchrotron afterglow emission?
- Can this process accelerate photons up to the TeV scale?
- What is the fundamentally new measurement made in the last article (TeV emission)?
- Why is it technologically so difficult to make this measurement?