



Contribution ID: 301

Type: Talk

## **[362] Studying the Extreme Behaviour of 1ES 2344+51.4**

*Thursday 29 August 2019 17:15 (15 minutes)*

MAGIC and FACT investigate the very-high-energy ( $E > 100\text{GeV}$ ) gamma rays emitted by blazars, whose relativistic jets point towards the observer. Past observations have revealed that the blazar 1ES2344+51.4 can show strong flux variability and the spectral energy distribution shifts towards unusual high energies during flares. We report a flaring episode of 1ES2344+51.4 during August 2016, where the VHE flux measured by MAGIC and FACT is comparable to the historical maximum, while the spectrum is the hardest for this object above 100GeV. Combining multi-wavelength observations, we obtain an unprecedented characterisation of the inverse Compton peak.

**Author:** Mr ARBET-ENGELS, Axel (ETH Zürich)

**Co-authors:** Dr MANGANARO, Marina (University of Rijeka, Department of Physic); Dr DORNER, Daniela (Universität Würzburg); Mr FALLAH RAMAZANI, Vanda (Tuorla Observatory, University of Turku); Prof. BILLAND, Adrian (ETH Zürich); Dr ACOSTA PULIDO, Jose (Instituto de Astrofísica de Canarias, ); Dr HOVATTA, Talvikki (Tuorla Observatory, University of Turku); Dr LARIONOV, Valeri (Astronomical Institute of St. Petersburg State University); Dr RAITERI, Claudia M. (Osservatorio Astrofisico di Torino)

**Presenter:** Mr ARBET-ENGELS, Axel (ETH Zürich)

**Session Classification:** Nuclear, Particle- & Astrophysics

**Track Classification:** Nuclear, Particle- and Astrophysics (TASK)