28th Texas Symposium on Relativistic Astrophysics



Contribution ID: 205 Type: Talk

Multi-wavelength observations on the gamma-ray periodic blazar PG1553+113

Sunday, 6 December 2015 18:15 (20 minutes)

PG 1553+113 is a blazar with an uncertain redshift detected at very high energies (VHE; E > 100 GeV) both during high and quiescent flux states. The Fermi/LAT collaboration

recently reported the detection of a ~2-year modulation of the integral flux emitted in both optical and highenergy (HE) gamma rays(Stamerra et al. at this conference). Interestingly, one of the physical scenarios that can account for such variability pattern is the presence of a supermassive black hole binary in the nucleus of PG 1553+113. The MAGIC telescopes have observed PG 1553+113 at VHE since 2005. An intense multiwavelength campaign aimed at unbiased monitoring of the source activity, from radio to VHE gamma rays, started in 2015. Here we will show the multiwavelength data going back almost a decade, from radio to VHE, along with the results from the ongoing observations.

Primary author: HUGHES, Gareth (ETH Zurich)

Co-authors: Dr SANDRINELLI, Angela (Università degli Studi dell'Insubria); STAMERRA, Antonio (INAF-OATO / SNS-Pisa); Dr FERRIGNO, Carlo (ISDC data center for astrophysics); GASPARRINI, Dario (ASDC/ INFN Perugia); LINDFORS, Elina (University of Turku); PRANDINI, Elisa (University of Geneva); LONGO, Francesco; BE-CERRA GONZALEZ, Josefa (NASA GSFC); Dr NIEVAS, Miguel (Complutense University of Madrid); Dr DA VELA, Paolo (INFN Pisa); DESIANTE, Rachele (Università di Udine and INFN); CUTINI, Sara (ASI Science Data Center - INFN); PAIANO, Simone (Univ. + INFN); CIPRINI, Stefano (INFN & University Perugia); COVINO, Stefano (INAF / Brera); BARRES, Ulisses (Centro Brasileiro de Pesquisas Físicas)

Presenter: HUGHES, Gareth (ETH Zurich) **Session Classification:** 19 - VHE & CR