

Contributed Talk //

Active Galactic Nuclei (AGNs)

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Session 9 //

Friday, 8 September @ 14:15 SAST

Blazars show significant flux and spectral variability almost across the observable electromagnetic spectrum. 1ES 1959+650 ($z=0.047$), characterized as a high energy peaked BL Lac object (HBL), has been reported showing flux variations in TeV, X-rays and optical-UV bands during several epochs. Using the multi-wavelength data during various flares, several efforts have been made to model the emission processes and internal structure of the jet in 1ES 1959+650. In 2021, Chandra et al. tried to constrain the particle acceleration scenario in this blazar based on two major X-ray activities in 2016 and 2017. This work extends the study of the multi-wavelength emission spanning over various flaring and quiescence phases during 2015 to 2021. This is a comprehensive effort to investigate the link between the physical parameters of the source with its variability state. We have designated a total of 12 epochs sampling different states. The modelling of the broadband SEDs corresponding to these hints a number of interesting facts. I shall discuss some of these findings during HEASA-2023.