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VERITAS observations of IXPE blazar targets

The Imaging X-Ray Polarimetry Explorer (IXPE) is an X-ray telescope capable of extracting information of the X-ray polarization of astrophysical sources in the 2-8 keV band. After a successful launch, IXPE started science operations in January 11 2022. During the first months of operations, IXPE obtained exposures of five TeV-emitting BL Lac-type blazars: Markarian 501, Markarian 421, S5 0716+714, BL Lacertae, and 1ES 1959+650. The VERITAS observatory has scheduled observations in the TeV band simultaneous with the IXPE observations of these objects. In this contribution, we will present the TeV light curves and spectra obtained with VERITAS and explore the potential that simultaneous observations of X-ray polarization and TeV emission have to determine the intensity and geometry of magnetic fields in relativistic jets.

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