

Astrophysical Polarimetry in the Time-Domain Era



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Blazars in the discovery era of X-ray polarimetry

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High-energy polarization is an important probe of emission processes in astrophysical systems. This is particularly true for blazars where it allows us to investigate the physical conditions experienced by the most energetic particles. Until now, polarization observations have been limited to the radio-to-optical range. However, the X-ray polarization window is finally open with the recently launched Imaging X-ray Polarimetry Explorer – IXPE, offering radically new ways of studying particle acceleration and high-energy emission processes in relativistic jets. I will discuss the multiwavelength polarization observations and first results from the first year of IXPE-blazar observations. Our results demonstrate the importance of X-ray polarization, and IXPE, in understanding high-energy processes in the Universe.

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