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IXPE observations of the Crab and other PWNe: a critical review

Tuesday, 9 July 2024 15:00 (20 minutes)

With the IXPE satellite a new observational window has opened for the study of the physical properties of Pulsar Wind Nebulae. For the first time we are able to directly map the magnetic field geometry in the inner regions of these systems, where our current theoretical models place the site of particle acceleration. I will review the current status of X-ray polarimetry in PWNe, in the context of the canonical PWN picture, and how it relates to information from other wavelengths. Implications for the physics of acceleration, and the role of turbulence, will be also discussed.

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Session Classification: IXPE observations and multiwavelength opportunities

Track Classification: X-ray Polarization (XP): IXPE observations and multiwavelength opportunities