



X-RAY ASTRONOMY 2019

Current Challenges and New Frontiers in the Next Decade

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Blazar under the lens of future X-ray polarimeters: perspectives for the IXPE mission

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With the advent of the IXPE (Imaging X-ray Polarimetry Explorer) satellite expected for launch in 2021, the study of the X-ray polarization properties of several bright nearby sources will become possible. Blazars are obvious candidates for X-ray polarization observations. For instance, a high degree of X-ray polarization is expected from high-peaked blazars (HBL) because synchrotron radiation in an ordered magnetic field is naturally polarized. Moreover, X-ray polarization observations have the potential of discriminating between different scenarios for the origin of the X-ray emission in low peaked blazars (LBL) objects.

In this talk, we discuss the perspectives of IXPE observations of blazars, focusing on what we can learn about jets

Topic

Future missions

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