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Blazars 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 polarization modeling of different classes of BL Lac objects.

Are you presenting on behalf of collaborations or institutions?

Summary

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