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Simulation of an IXPE observation of Centaurus A

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X-ray polarimetry is entering in a golden age thanks to the technological maturity of polarimeters involving Gas Pixel Detectors and the study and development of dedicated space missions, such as IXPE by NASA and ASI and eXTP by CSA.

A simulation of an IXPE observation of the radio galaxy Centaurus A is presented.

Centaurus A is the nearest AGN and is included in the observing plan of IXPE that will provide for the first time the spatially resolved polarimetric study in the X-ray domain of its relativistic jet, enabling the study of the particle acceleration process.

The polarimetric properties of different physical processes have been simulated and the results discussed in light of the Minimum Detectable Polarization.

The outcome of this work will be presented in view of the IXPE observing plan in preparation.

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