

# Vulcano Workshop 2022 - Frontier Objects in Astrophysics and Particle Physics



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## First results from IXPE

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The launch of the Imaging X-ray Polarimetry Explorer (IXPE) on December 9 2021 has opened a new window in X-ray astronomy.

IXPE is a NASA Small Explorer Mission in collaboration with the Italian Space Agency (ASI). The mission opened a new window of investigation including imaging x-ray polarimetry in the “bouquet” of astrophysical observables.

The observatory features three identical telescopes, each consisting of a mirror module assembly with a polarization-sensitive imaging x-ray detector at the focus.

IXPE polarization measurements offer new physics probes of a variety of objects. Polarimetry allows to inspect geometry and magnetic field properties of astrophysical sources both steady and transient.

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