



# X-RAY ASTRONOMY 2019

*Current Challenges and New Frontiers in the Next Decade*

8-13 September 2019  
CNR/INAF Research Area, Bologna, Italy

Contribution ID: 239

Type: **Poster**

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

*Friday, 13 September 2019 20:06 (2 minutes)*

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

### **Affiliation**

Italian Space Agency (ASI)

**Primary author:** Dr DI GESU, Laura (Italian Space Agency (ASI))

**Presenter:** Dr DI GESU, Laura (Italian Space Agency (ASI))

**Session Classification:** POSTER SESSION