



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: 232

Type: **Poster**

A global scenario for accretion/ejection around super massive black holes: the X-ray view

Friday, September 13, 2019 5:38 PM (2 minutes)

In the global scenario proposed by Giustini & Proga (2019), most of the diversity observed in AGN can be explained by different accretion/ejection flows, which depend on the Eddington ratio and on the black hole mass, and therefore on the presence or absence of accretion disc winds driven by radiation pressure.

X-ray observations are crucial to test this scenario: in fact, they allow to constrain the physical properties of both the intrinsic continuum emission region and of the intervening outflowing absorbers, when the most powerful accretion disc winds are intercepted by the line of sight.

We present the current status of the X-ray observations that are able to probe, and therefore prove or disprove, the global scenario proposed by Giustini & Proga; we will then discuss the enormous future observational perspectives given by the X-ray microcalorimeters onboard XRISM and, next and fundamental, ATHENA.

Topic

Active Galactic Nuclei: accretion physics and evolution across cosmic time

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Session Classification: POSTER SESSION