



# 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: 89

Type: **Poster**

## Supermassive Black Hole Winds in X-rays (SUBWAYS)

*Friday, September 13, 2019 5:08 PM (2 minutes)*

We have been awarded a Large Program of ~1.6 Ms with XMM-Newton in AO18, SUBWAYS (“Supermassive Black Hole Winds in X-rays”), designed to provide a unique observational framework to test the validity of physical models for Active Galactic Nuclei (AGN) outflows, and to ultimately understand their impact into their host galaxies. SUBWAYS will observe a representative sample of 19 objects at  $z=0.1-0.5$ , above the knee of the AGN luminosity function with the main goal of obtaining a statistically sound estimate of the duty cycle and physical parameters of ultra-fast outflows (UFOs). In the poster we we will highlight the main objectives of our program, we will present the sample selection and properties, and we will show the first results from the XMM-Newton observations available by the time of the conference.

### Topic

Active Galactic Nuclei: accretion physics and evolution across cosmic time

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**Session Classification:** POSTER SESSION