



# X-RAY ASTRONOMY 2019

*Current Challenges and New Frontiers in the Next Decade*

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## **Dissecting AGN feedback: the extraordinary multi-phase outflow in the Narrow Line Seyfert 1 IRAS17020+4544**

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The growing evidence for energy-conserving outflows in powerful and luminous AGN supports the idea that high-velocity X-ray winds launched from the accretion disc evolve after undergoing a shock with the ambient medium, with the ultimate effect to expel enough mass and energy so as to produce the so-called AGN feedback, often invoked in galaxy formation and evolution. This talk will present the case for a multi-phase energy-conserving outflow in the Narrow Line Seyfert 1 Galaxy IRAS17020+4544 spanning from accretion disk to galaxy-scale, which has been targeted by an unprecedented multi-wavelength campaign by the following observatories: XMM-Newton, Chandra-LETG, VLBA, Large Millimeter Telescope, NOEMA and HST/COS. Perspectives on future X-ray observations and on other similar sources will be included.

### **Topic**

Active Galactic Nuclei: accretion physics and evolution across cosmic time

### **Affiliation**

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