



X-RAY ASTRONOMY 2019

Current Challenges and New Frontiers in the Next Decade

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X-ray analysis of the accreting supermassive black hole in the radio galaxy PKS 2251+11

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The launch and the propagation of relativistic outflows from supermassive black holes is one of the main unresolved issues in the field of active galactic nuclei (AGNs). Radio galaxies are optimal candidates for a multi-wavelength study of the connection between accretion phenomena and the ejection of energetic outflows. In this regard, we focus on the active galaxy PKS 2251+11, a particularly bright broad line radio galaxy, for which we have investigated the structure, kinematics and physical state of the nuclear environment, through an X-ray spectral and temporal analysis of an XMM-Newton observation. The results are interpreted in light of the unified model of AGNs, comparing the accretion properties of PKS 2251+11 with the larger class of radio-quiet Seyfert galaxies.

Topic

Active Galactic Nuclei: accretion physics and evolution across cosmic time

Affiliation

Gran Sasso Science Institute, Viale F. Crispi, 7 67100 L'Aquila (IT)

Primary author: RONCHINI, Samuele

Co-authors: TOMBESI, Francesco (University of Rome "Tor Vergata"); VAGNETTI, Fausto (Istituto Nazionale di Astrofisica (INAF)); Dr PANESSA, Francesca (Istituto Nazionale di Astrofisica (INAF)); BRUNI, Gabriele (Istituto Nazionale di Astrofisica (INAF))

Presenter: RONCHINI, Samuele

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