

The restless nature of AGN: 10 years later



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X-ray variability of SDSS quasars

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I present the analysis of a sample of several hundred SDSS quasars with multiple serendipitous XMM-Newton observations. The X-ray to UV luminosity relation allows to predict the average X-ray flux, and to select only the X-ray observations that are deep enough to remove any bias towards higher-than-average flux states. The optical/UV SDSS spectrum allows to investigate the relation between X-ray variability and the total luminosity, the black hole mass, and the Eddington ratio. Considering that the optical/UV and X-ray observations are not correlated, I conclude that most of the “intrinsic” dispersion of the X-ray to UV relation is due to X-ray variability.

Primary author(s) : Prof. RISALITI, Guido (Università di Firenze); Ms. SIGNORINI, Matilde (Università di Firenze); Dr. LUSSO, Elisabeta (Università di Firenze); Dr. NARDINI, Emanuele (INAF-Arcetri Observatory)

Presenter(s) : Prof. RISALITI, Guido (Università di Firenze)

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