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The X-ray variability of LLAGN NGC 5273

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In this talk I present the first results regarding the X-ray variability of the nearby Low luminsity AGN NGC 5273. The source was observed with a 90 ks pointing by XMM in 2017 and was found to be significantly variable down to timescales of 1000 seconds. From the Fourier analysis it was possible to detect for the fist time the presence of reverberation lag at the iron K line of ~700 seconds. More interestingly, from the spectral analysis it was found that the source decreased it's flux of a factot of ~5 in just 3 years without showing variations in the amount of absorption. I will then pass to show all archival observations, showing how this source change significantly both it's X-ray and radio luminsity in the last 20 years.

Topic

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