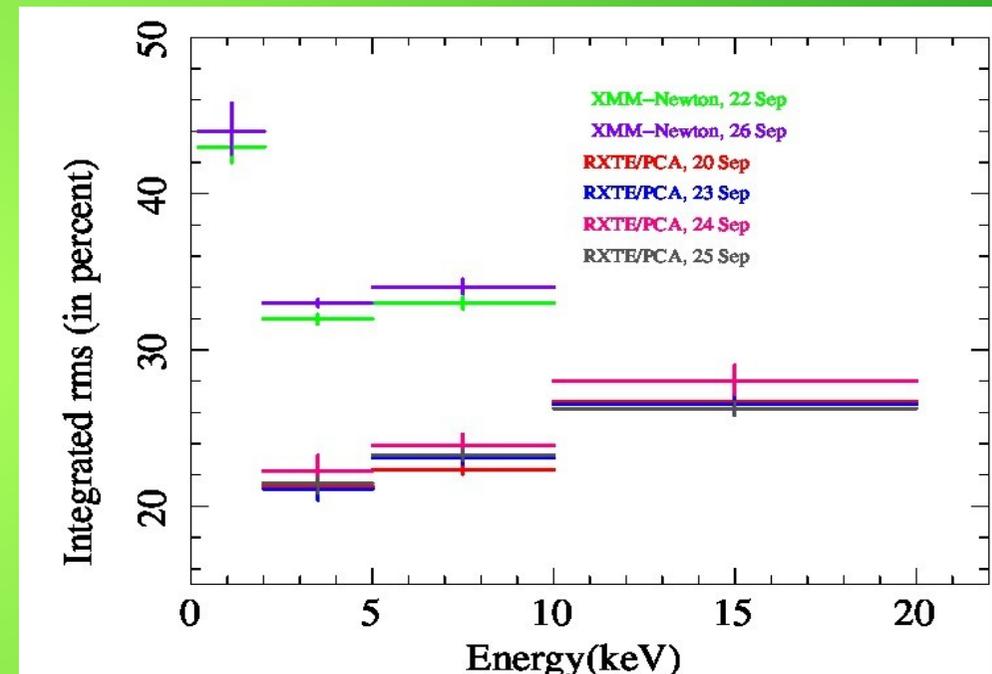
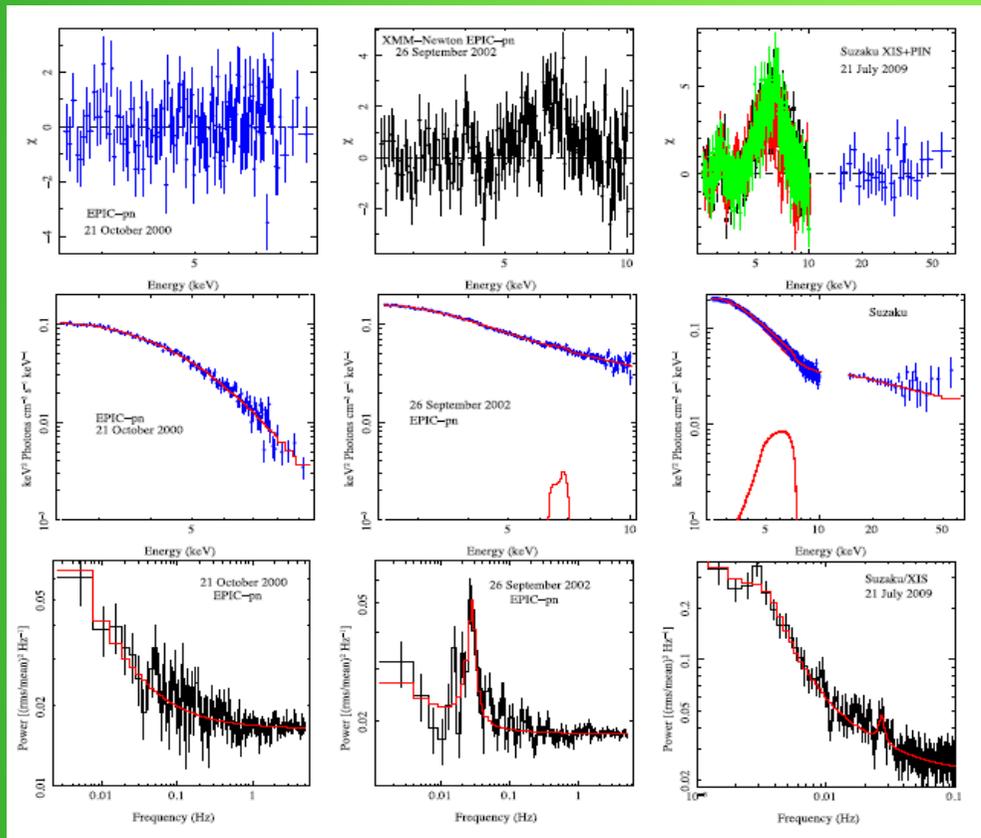


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# A brief introduction of my research work

*Simultaneous appearance of broad iron line and QPO (Alam et al, 2014, MNRAS, 445, 4259)*

*Variation total integrated rms of power density spectra with energy (Alam et al, 2015, MNRAS, 451, 3078 )*



1. Relationship between temporal characteristics (e.g., PSD breaks, QPOs, total variability power etc.) with energy spectral parameters (e.g., inner disk temperature, disk fraction, broad iron line, thermal comptonization fraction, powerlaw index etc.)
2. Test GR effect using relativistic broad iron line and compton reflection.