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XMM-Newton Insights into the Reflection and Variability of Mrk 841

Mrk 841 is known for its high variability, complex iron line component and strong soft excess. We use the most recent and longest XMM-Newton observations, with durations exceeding 100 ks. We explore several theoretical models to explain the puzzling behaviors of the reflecting component, considering parameters such as disk ionisation and relativistic effects. This offers a rare glimpse into the dynamic processes shaping AGN emission, advancing our understanding of black hole accretion physics.

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