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XMM-Newton's impact on Relativistic Astrophysics: Black Holes

Tuesday, December 15, 2015 2:00 PM (21 minutes)

With about 300 refereed papers published each year, XMM-Newton is one of the most successful scientific missions of ESA ever. Observations of Galactic as well as supermassive black holes, where relativistic effects have to be accounted for, play a major role in XMM-Newton's observing program. The main focus of the talk will be the discussion of scientific highlight results based on XMM-Newton observations of compact, relativistic objects during the last years. X-ray observations provide a unique opportunity to study the vicinity of compact objects, i.e. the region where the strong gravitational field acts and allow the determination of black holes spin.

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