## Seventeenth Marcel Grossmann Meeting



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## Tests of General Relativity with black hole X-ray data

Thursday, 11 July 2024 16:10 (20 minutes)

General Relativity has been extensively tested within the weak-field regime across various experiments. Recent years have seen significant progress in exploring the strong-field domain, now made possible through gravitational waves, X-ray data, and radio images of supermassive black holes like SgrA*and M87*. In this talk, I will discuss recent efforts to test General Relativity using black hole X-ray data, utilizing the NKBB and RELXILL\_NK models. These models are employed for thermal and reflection spectra analysis from black hole accretion disks, respectively, to test the Kerr black hole hypothesis.

**Primary authors:** ABDIKAMALOV, Askar (New Uzbekistan University); Dr BAMBI, Cosimo (Fudan University)

Presenter: ABDIKAMALOV, Askar (New Uzbekistan University)

**Session Classification:** Spectral and temporal properties of accretion flows and jets around compact objects and the theoretical models

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