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Modeling the Black Hole Spin

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Very High Energy Cosmic Rays are believed to be accelerated in astrophysical jets. The formation of such jets requires spinning black holes. Therefore, the modeling of spinning black holes is a fundamental diagnostics for Cosmic Ray acceleration. However, detecting spinning black holes is still a difficult task. The detectability largely depends on high-quality data and very importantly on their sophisticated modeling. In this talk I will present an explanatory example for which the modelling plays a crucial role. Very specifically, the high-energy observations of Mrk 876 hint at a spinning supermassive black hole. Yet, the detectability is hindered by the degeneracy of the parameters, even though further statistical properties favor the spin scenario.

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