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Can Black Holes Be Accelerators of Spinning Massive Particles?

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It is a well known effect that a rotating black hole can accelerate spinless particles to in principle arbitrary energies. Within the formalism of the Spinning Top it is investigated to which extend the “corresponding” process is also possible: *“Can spinning tops be accelerated by a non-rotating black hole?”*

It is found that this is indeed the case.

Primary author: Prof. KOCH, Benjamin (Pontifica Universidad Catolica de Chile)

Presenter: Prof. KOCH, Benjamin (Pontifica Universidad Catolica de Chile)

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