

Gravitational Geometry and Dynamics Group Seminar

Wed., March 18, 2026, at 11h00.

Room: Sala 11.2.21 and Teams ID: 362 905 837 227 36

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Equilibrium Magnetized Accretion Discs around Hairy Black Holes

Equilibrium accretion tori are used as initial conditions for GRMHD simulations to study accretion onto compact objects. In this talk, I present the construction of magnetized Komissarov-type discs within hairy black hole spacetimes. I show that equilibrium configurations can be consistently obtained in these backgrounds, as in the standard Kerr case. These findings provide a framework to explore magnetized accretion flows in non-Kerr geometries and to investigate how the presence of scalar hair influences both disc structure and its potential observable signatures.