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## **Astrophysical tests of hairy black holes**

Testing different beyond-Kerr alternatives has been amongst the major goals of astrophysics and especially gravitational wave physics. In the present talk, we will focus more specifically on black holes endowed with scalar hair. We will discuss the peculiar properties these objects can possess and their astrophysical manifestations both in the electromagnetic and gravitational wave channels. Special attention will be also paid to highly dynamical processes leading to the formation of such hairy black holes.

**Primary author:** Dr DONEVA, Daniela (University of Tuebingen)

**Presenter:** Dr DONEVA, Daniela (University of Tuebingen)