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Black holes, bosonic stars and ultralight dark matter

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Abstract: We discuss, with concrete examples and real data, how strong gravity systems and observables could assess the nature of dark matter, or at least part of it. In the theoretical modelling, I will focus on fuzzy dark matter, bosonic stars and black holes with synchronised hair. The real data examples will concern the GW190521 gravitational wave event and the EHT measurement of the M87* shadow.

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