

# A visual and theoretical journey into some black hole and wormhole universes

*jeudi 29 juin 2023 10:00 (30 minutes)*

Although it looks mathematically simple, the Schwarzschild metric describes a complicated spacetime that is endowed with two asymptotic regions and two singularities. When including electric charge and spin, other black hole metrics are even more complicated. Although causal diagrams help to figure out what an observer can possibly see, it is almost impossible to guess how different regions of such spacetimes are actually seen. In this talk, I will show a few movies of what an observer would see when travelling within a few black hole metric maximal analytic extensions: Schwarzschild, Reissner-Nordström and Kerr.

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