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Physical black holes in modified theories of gravity

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In spherical symmetry, only two classes of dynamic solutions to the semiclassical Einstein equations describe physical black holes, and their formation follows a unique scenario. To be compatible with their existence, modified gravity theories must satisfy several constraints.

Primary author: MURK, Sebastian (Macquarie University and Sydney Quantum Academy)

Co-author: Prof. TERNO, Daniel R. (Macquarie University)

Presenter: MURK, Sebastian (Macquarie University and Sydney Quantum Academy)

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