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Black holes in theories beyond general relativity

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Black holes beyond general relativity can be different from their general-relativistic counterparts—but in what ways and to what extent? I will explore this question discussing the particular example of Einstein–aether theory, an alternative to general relativity that displays a rich phenomenology and admits, among other things, faster-than-light signals. I will explain how the existence of such signals puts the very notion of black hole into question, but also describe how the serendipitous discovery of the so-called ‘universal horizons’ could, perhaps, salvage black holes from certain demise.

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