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Black holes in Teleparallel gravity

Tuesday 20 September 2022 14:00 (30 minutes)

In this talk I will give a brief introduction to teleparallel gravity and discuss ordinary and scalarised black hole solutions in $f(T)$ -gravity. The later being the teleparallel analogue of $f(R)$ -gravity. It turns out that the theory posses interesting generalisations of Schwarzschild geometry as solutions as well as scalarized black holes. A particular focus will be Born-Infeld $f(T)$ -gravity, since in this theory a non-perturbative genralisation of Schwarzschild geometry has been found.

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