Workshop on Astro-particles and Gravity



Contribution ID: 8

Type: not specified

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.

Author: PFEIFER, Christian (University of Bremen, Germany)

Presenter: PFEIFER, Christian (University of Bremen, Germany)