



Contribution ID: 79

Type: **poster**

Partition function in conformal gravity

Wednesday, 20 February 2019 18:36 (1 minute)

We derive the form of the partition function in conformal gravity using an extended form of the Faddeev-Popov method. The method uses conformal gauge fixing and special (third) conformal ghosts. In this way, at one-loop, the theory is proven to be conformally invariant also on the quantum level without performing an additional final conformal transformation. The partition function is discussed on a general background as well as on Ricci-flat and maximally symmetric.

Summary

We derive the form of the partition function in conformal gravity using an extended form of the Faddeev-Popov method. The method uses conformal gauge fixing and special (third) conformal ghosts. In this way, at one-loop, the theory is proven to be conformally invariant also on the quantum level without performing an additional final conformal transformation. The partition function is discussed on a general background as well as on Ricci-flat and maximally symmetric.

Primary author: Dr LESLAW, Rachwal (Czech Technical University)

Co-author: Prof. JIZBA, Petr (Czech Technical University)

Presenter: Dr LESLAW, Rachwal (Czech Technical University)

Session Classification: Poster session

Track Classification: Beyond Einstein's Gravity