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## Renormalization of Horava gravity

*jeudi 2 juin 2022 14:45 (45 minutes)*

I will discuss quantum properties of the projectable Horava gravity – the first example of renormalizable, local and unitary gravity theory perturbatively consistent in UV domain and demonstrating asymptotic freedom in  $(2+1)$  dimensions and possibly in  $(3+1)$  dimensions. Correspondingly I will briefly dwell on gauge dependence issues, background field and heat kernel methods along with the dimensional reduction necessary for the computation of beta-functions and conformal anomalies in such a class of extraordinarily complicated Lorentz non-invariant theories. Possible dark energy and inflationary cosmology implications of this and related theories will be touched upon.

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