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Gravitational RG Flows on Foliated Spacetimes

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The role of time and the possibility of spacetime carrying a foliation structure are long standing questions which lately received a lot of renewed attention from the quantum gravity community. In this talk, I will review recent progress in formulating a Wetterich-type functional renormalization group equation on foliated spacetimes and outline its potential applications. In particular, I will discuss first results concerning the RG flow of anisotropic gravity models, highlighting the possibility of dynamical Lorentz-symmetry restoration along the RG flow.

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