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Fluctuation computation of gravitational RG flows on foliated spacetime

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The exact renormalization group is a powerful tool to explore the renormalization group fixed points in gravity and gravity-matter systems. An important open question in this context is the extension of the formalism to Lorentzian signature computations. One way to incorporate the necessary structures in the presence of a fluctuating spacetime is the Arnowitt-Deser-Misner decomposition of the metric degrees of freedom. In this talk, I will present the first analysis of the resulting fixed point structure at the level of a fluctuation computation, reading off the flow of the gravitational couplings from the graviton two-point function.

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