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New proposal for Lorentzian renormalisation group flow equations on curved spacetimes

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In this talk I will present recent results obtained in collaboration with d'Angelo, Drago and Pinamonti. We proposed a new formulation of renormalisation group flow equations that work on arbitrary globally hyperbolic spacetimes and for any chosen Hadamard state. The examples treated so far include the scalar field, Yang-Mills theories and gravity.

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