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Renormalization freedom in de Sitter spacetime

Thursday 1 October 2015 17:20 (15 minutes)

By considering a Quantum Field Theory with time-dependent backgrounds the time-translational symmetry of the Lagrangian may be broken. In my talk I would like to discuss renormalization in curved spacetime using the CTP formalism. In particular, I will show the results for simple diagrams, where explicit calculations are still possible. Connections with the renormalization as an extension of distributions will be pointed out.

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