

On the Feynman propagator on curved spacetimes

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The Feynman propagator is one of the main tools of Quantum Field Theory. I will review various definitions of this concept, including the operator-theoretic and out-in Feynman propagator. I will discuss various examples of spacetimes: stationary, asymptotically stationary, FLRW, de Sitter and anti-de Sitter. I will consider both the stable and tachyonic case. Based on joint work with Christian Gass.

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