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Aspects of infrared non-local modifications of General Relativity

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We introduce some recently proposed non-local infrared modifications of general relativity. We discuss which are the motivations to introduce non-localities in a theory of gravity. We then present a particular class of models which has been recently shown to be cosmologically viable, with an extremely good compatibility with cosmological data. We present the general features of such a class of non-local models and we briefly review some recent developments in the understanding of the nature of non-localities.

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