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Cosmology of UV complete higher derivative gravity theories

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In my talk I will review the current status of higher and infinite derivative models of gravity heavily inspired and motivated by the String Field Theory. In particular I will address questions of unitarity of such models which are connected to works of Pius and Sen in SFT. Also potential renormalizability of these constructions as well as implication for the inflationary observables will be discussed with explicit predictions for deviation of the tensor-to-scalar ration and non-gaussianities.

The talk is mainly based on recent works in collaboration with Prof. Alexei Starobinsky, Dr. Sravan Kumar and Dr. Anna Tokareva 2003.00629, 2005.09550, 2103.01945, 2205.13332 and works in progress.

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