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The universe evolution and modified gravity: an introduction.

Thursday 3 March 2022 10:00 (1h 30m)

Abstract: A basic introduction to modified gravity is presented. Special attention is paid to F(R) gravity. The realistic, "exponential F(R)" gravity is also discussed. It is shown how it may describe the whole universe evolution from inflation to dark epoch. Ghost-free extended F(R) and F(G) gravities are briefly introduced. The reconstruction of F(R) gravity from inflationary indices is discussed. This seminar is aimed at young people and is based on the review: "Modified Gravity Theories on a Nutshell: Inflation, Bounce and Late-time Evolution" by S. Nojiri, V. K. Oikonomou and S. Odintsov, e-Print: 1705.11098 [gr-qc] Phys Rept 692 (2017) 1.

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