

Ministry of Science and Higher Education

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Stochastic inflation

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It is possible to include unobservable fields and particles in cosmological models (warm inflation of Berera and Moss) as well as contribution of quantum fluctuations (Starobinsky, Vilenkin) by adding a noise term to classical equations. Such a noise term breaks the energy-momentum conservation. I introduce a compensating term to the energy-momentum repairing the conservation laws. Solutions of the resulting stochastic Einstein equations will be discussed.

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