Contributed Talk

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Title: Global dynamics of interacting scalar field potentials and perfect fluids in Robertson-Walker cosmologies

Abstract: In this talk I will give an overview of the dynamics in a warm inflationary scenario with monomial scalar field potentials. We then analyse the dynamics of the Einstein equations coupled to the Klein-Gordon equation for a minimally coupled scalar field interacting with a perfect fluid in flat Robertson-Walker spacetimes. We perform a global dynamical system's analysis of the model identifying its past and future attractors and provide detailed asymptotic estimates of the dynamics.