

Abstract

In this talk, at first, I will review the hybrid inflation briefly, which is a well known and interesting inflationary model. Then I will have a review on a beautiful method for calculation of adiabatic and entropy perturbations in two field models, obtained by Wands, et.al. In their approach, the contributions of the field perturbations to the curvature and entropy perturbations is separated. At last I will give a report on our recent, incomplete work which concerns the possibility of obtaining significant curvature perturbations after phase transition in the hybrid model by changing the model parameters and violating the usual conditions. This is called double inflation since the inflation occurs in two stages.