Applied and Computational Mathematics Seminar

Title: Calculating Non–adiabatic Pressure Perturbations during Multi–field Inflation

Speaker: Ian Huston (Queen Mary, University of London)

Date: Tue 17th April 2012 at 12:30PM

Location: CASL Seminar Room – Belfield Office Park

Abstract: Non–adiabatic pressure perturbations naturally occur in models of inflation consisting of more than one scalar field. The amount of non–adiabatic pressure present at the end of inflation can have observational consequences through the generation of vorticity and subsequently the sourcing of B–mode polarisation. In this talk I will give an overview of adiabatic and non–adiabatic inflationary models and describe our recent calculation of the spectrum of isocurvature perturbations generated at the end of inflation for different inflationary models which have two scalar fields.

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