

TATA INSTITUTE OF FUNDAMENTAL RESEARCH
DEPARTMENT OF ASTRONOMY & ASTROPHYSICS

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Title : Dynamics of massless scalar fields in General Relativity

Day, Date & Time : Monday, 06 April , 2009 at 16.00 hrs

Venue : Lecture Room (AG-80)

Abstract

Scalar fields remain a topic of considerable interest in General Relativity. Here we shall present a formalism to study the dynamical evolution of a massless scalar field. Using the same, we explore some properties of collapse solutions. I shall also discuss a particular dynamical solution that we have found with both timelike and spacelike singularities present.