

ASTRONOMY SEMINAR

April 20, 2010

Speaker : Satyabrata Sahu
TIFR-DAA

Title : Negative pressure Isothermal Spheres in General Relativity

Day, Date & Time : Tuesday, 27 April, 2010 at 16.00 hrs

Venue : Lecture Theatre (AG-66)

(J.S.Yadav)

Abstract

We will review some aspects of isothermal fluid spheres in Newtonian gravity and discuss their General Relativistic generalization concentrating mostly on negative pressure fluids. Some interesting features of such fluid spheres in asymptotically de-Sitter background will be presented. A further extension to case of a particular type of anisotropic fluid (motivated by considering static spherically symmetric scalar fields) will be discussed.