

EFFECT OF COSMOLOGICAL CONSTANT ON GRAVITATIONAL COLLAPSE IN HUSAIN SPACETIME

P. M. WARADE, K. D. PATIL AND M. S. PATIL

Abstract

The nature of singularities arising in Husain solution is investigated. Analyze both spherical and non-spherical gravitational collapse in Husain spacetime is done. The gravitational collapse of non-spherical cosmological collapse proceeds to form a black hole where as spherical cosmological Husain solution lead to the formation of naked singularities. This is an interesting feature that emerges out. We analyze further strength of naked singularities arising in these spacetimes. It is found that these naked singularities in Tipler's sense are strong.