

Bochner-Lichnerowicz's technique and uniqueness of constant mean curvature spacelike hypersurfaces

Alfonso Romero

Universidad de Granada, Facultad de Ciencias, Granada, Spain
aromero@ugr.es

Abstract

It is shown the way to use Bochner-Lichnerowicz's formula for the study of constant mean curvature spacelike hypersurfaces in Generalized Robertson-Walker spacetimes. This technique is compared with a more classical approach. Several results are then proved and some physical consequences are derived.