

New anisotropic solution of Einstein's equations

The aim of this work was to obtain new analytical solutions for Einstein equations in the anisotropic domain. This was done via the minimal geometric deformation (MGD) approach, which is a simple and systematic method that allows us to decouple the Einstein equations. It requires a perfect fluid known solution that we will choose to be Finch-Skea (FS) solution. Two different constraints were applied, and in each case we found an interval of values for the free parameters, where necessarily other physical solutions shall live.

arXiv

arXiv:1804.06874v3 [gr-qc]

Authors: Mr LEÓN, Pablo (Universidad de Antofagasta); Mr LAS HERAS, Camilo (Universidad de Antofagasta)

Presenter: Mr LEÓN, Pablo (Universidad de Antofagasta)

Session Classification: Poster Session