

Vanishing of Semiconformal curvature tensor in spacetime settings

Musavvir Ali and Naeem Ahmad Pundeer

Abstract

The aim of the present paper is to study the semiconformal curvature tensor for spacetime of general relativity. We establish the subsistence of Killing and conformally Killing vectors satisfying EFE for the case when semiconformal curvature tensor vanishes. We extend the same case for the study of cosmological models with dust and perfect fluid.

Authors Address^{1&2}:

DEPARTMENT OF MATHEMATICS

ALIGARH MUSLIM UNIVERSITY

ALIGARH-202002, INDIA

E-MAILS :

1: musavvirali.maths@gmail.com,

2: pundir.naeem@gmail.com.