

Ricci-flat spacetimes with l-conformal Galilei symmetry

Anton Galajinsky

Tomsk Polytechnic University
Lenina ave. 30
Tomsk, Russian Federation

Ricci-flat metrics of the ultrahyperbolic signature which enjoy the l-conformal Galilei symmetry are constructed. They involve the AdS_2 -metric in a way similar to the near horizon black hole geometries. The associated geodesic equations are shown to describe a second order dynamical system for which the acceleration generators are functionally independent.