



Contribution ID: 67

Type: **Poster**

Quasinormal Modes of a Massless Charged Scalar Field in the 3+1 Dimensional AdS Reissener-Nordstrom Spactime.

Thursday 25 May 2017 17:45 (15 minutes)

Abstract

The quasinormal modes(qnm) of a massless charged scalar field in the 3+1 dimensional anti de Sitter(AdS) Reissener-Nordstrom(RN) spacetime are analytically calculated. The solutions of the scale field under the influence of the RN black hole are approximated by satisfying the boundary conditions at the horizon and the far away zone from the black hole. Our result for the small black hole mass is consistent with the numerical result.

Keywords: Quasinormal modes, Quasinormal frequencies, AdS black holes, Reissener-Nordrom black holes

Primary author: KANJANAPHOMCHOM, panapol

Co-author: Mr MUSIRI, Suphot

Presenter: KANJANAPHOMCHOM, panapol

Session Classification: Poster Presentation II

Track Classification: Statistical and Theoretical Physics