Accelerating particle around Kerr Newman black hole

Heisnam Shanjit Singh[1],*

1 Department of Physics, Rono Hills, Doimukh, Rajiv Gandhi University

* Presenting author (hsdas13@gmail.com)

In the talk, a set of so derived geodesic equation of motion of a test particle is shown in the Kerr Newman spacetimes. A detailed analysis of accelerating and decelerating behavior of the freely falling particle into the Kerr Newman black hole is highlighted along equatorial plane of the black hole from which the nature of geometrical structure of the corresponding spacetime is discussed.