



Contribution ID: 18

Type: Poster

Particle Collision near 1+1 Dimensional Horava-Lifshitz Black Holes

The unbounded center-of-mass (CM) energy of colliding particles near horizon of a black hole emerges even in 1+1- dimensional Horava-Lifshitz gravity. The latter has imprints of renormalizable quantum gravity characteristics in accordance with simple power counting. The result obtained is valid also for a 1- dimensional Compton process between a massive/massless Hawking photon emanating from the black hole and an in falling massless/massive particle.

Primary author: Prof. HALILSOY, MUSTAFA (Eastern Mediterranean University-FAMAGUSTA , NORTHERN CYPRUS)

Co-author: Mr OVGUN, ALI (Eastern Mediterranean University-FAMAGUSTA , NORTHERN CYPRUS)

Presenter: Mr OVGUN, ALI (Eastern Mediterranean University-FAMAGUSTA , NORTHERN CYPRUS)

Track Classification: Students