

25th anniversary of JINR in ATLAS



Contribution ID: 25

Type: not specified

The brief theoretic view on search for Quantum Black Holes at the ATLAS

The brief theoretic view on the possibility of observations of Quantum Black Holes at the LHC is considered. The search assumes the sensitivity of ATLAS to the TeV scale gravity and to quantum black holes in final states with leptons and jets. In this case mass range of the multidimensional mass MD is equal or less of the 10 TeV. According to the ADD models with large extra dimensions the discovery reach is expected to be able due to the large increase of the LHC luminosity of 36.1 fb⁻¹ and due to the proton-proton-collisions energy at the centre-of-mass equal to 13 TeV.

Primary author: Dr KARPOVA, Zoya (JINR)

Co-author: Dr KARPOV, Sergey (JINR)

Presenter: Dr KARPOVA, Zoya (JINR)