

High Energy Physics - Phenomenology

Large Extra Dimensions and Small Black Holes at the LHC

Marcus Bleicher, Piero Nicolini

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We present an overview on the conjectured production of microscopic black holes as a consequence of high energy hadronic collisions at the LHC, CERN (Geneva, Switzerland) from this year on. Provided the presence of large extradimensions, we analyze some possible scenarios of what could turn to be an outstanding experimental discovery. We also discuss some new models which have been recently proposed on the ground of quantum gravity arguments. The final comments are devoted to supposed potential risks connected to the formation of black holes in particle detectors.

Comments: 12 pages, 4 figures, 2 tables, Proceedings of 'Symmetries in Science', July 19-24, 2009 at Kloster Mehrerau, Bregenz, Austria - Updated reference list and modified conclusion

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