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Black Holes versus Supersymmetry at the LHC ARUNAVA ROY,
MARCO CAVAGLIA, The University of Mississippi — Supersymmetry and extra
dimensions are the two most promising candidates for new physics at the TeV scale.
Supersymmetric particles or extra-dimensional effects could soon be observed at the
Large Hadron Collider. In this paper we assess the distinguishability of supersym-
metry and black hole events at the LHC. Black hole events are simulated with the
CATFISH black hole generator. Supersymmetry simulations use a combination of
PYTHIA and ISAJET, the latter providing the mass spectrum. Our analysis shows
that supersymmetry and black hole events at the Large Hadron Collider can be
easily discriminated.

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