

Squark and gluino production at the LHC

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The production of coloured supersymmetric particles is an important SUSY discovery channel at the LHC. Therefore it is essential to know the theoretical predictions for squark and gluino production cross sections with high accuracy. Higher order QCD corrections are dominated by the emission of soft gluons from initial and final state particles. The effects of soft gluon emission can be treated systematically to all orders by means of resummation techniques. In this talk I report on the calculation of the resummed cross sections for squark- and gluino-production processes in hadronic collisions and present the currently most precise predictions for these cross sections at the LHC.

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