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## NLL soft and Coulomb resummation for squark and gluino production at the LHC.

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We present predictions of the total production cross sections of pairs of squarks and gluinos at the LHC, which incorporate a combined resummation of soft logarithms and Coulomb singularities, including bound-state contributions. These terms dominate the threshold region of the partonic cross section and are resummed directly in momentum space using an effective-theory framework based on SCET and pNRQCD. This differs from the more conventional approach where soft logarithms are exponentiated in Mellin-moment space. The combined resummation of soft and Coulomb corrections can lead to much bigger effects than soft resummation alone, with corrections of up to 120% to the fixed-order NLO result for gluino-gluino production at 7 TeV, and smaller (but still sizeable) effects for the other production processes. The theoretical uncertainty of the cross sections is typically reduced to about \pm 10%.

Primary author: WEVER, Christopher (University Utrecht)

Co-authors: SCHWINN, Christian (Freiburg University); FALGARI, Pietro (University Utrecht)

**Presenter:** WEVER, Christopher (University Utrecht)

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