



Contribution ID: 242

Type: parallel talk

## Direct probes of R-parity violation via single top-squark production at the LHC

Monday, 8 May 2017 18:15 (15 minutes)

This project explores limits on a baryon number violating R-parity-violating (RPV) extension of the s-channel production of top squarks, examining its R-parity-conserving decay into a bottom quark, a lepton, and missing energy. Using Monte Carlo simulations I calculate upper bounds for the RPV parameter  $\lambda''_{ijk}$  for a range of top squark masses that would allow for its existence.

### Summary

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**Session Classification:** SUSY II