



Contribution ID: 329

Type: not specified

## Searches for supersymmetry in resonance production, R-parity violating signatures and events with long-lived particles with the ATLAS detector

*Monday, 8 May 2017 18:00 (15 minutes)*

R-parity violation introduces many viable signatures to the search for supersymmetry at the LHC. Strongly interacting resonances and lightest supersymmetric particles may decay into many leptons or jets with or without missing transverse momentum. Several supersymmetric models also predict massive long-lived supersymmetric particles. Such particles may be detected through abnormal specific energy loss, appearing or disappearing tracks, displaced vertices, long time-of-flight or late calorimetric energy deposits. The talk presents recent results from searches of supersymmetry in resonance production, R-parity violating signatures and events with long-lived particles with the ATLAS detector.

### Summary

**Primary author:** KOZAKAI, Chihiro (University of Tokyo (JP))

**Presenter:** KOZAKAI, Chihiro (University of Tokyo (JP))

**Session Classification:** SUSY II