



Contribution ID: 167

Type: **Parallel talks**

Search for R-parity violating supersymmetry

Tuesday, 18 July 2023 18:40 (20 minutes)

The majority of searches for supersymmetry assume conservation of R-parity, in which the lightest supersymmetric particle is a stable dark matter candidate that escapes detection and produces large missing transverse energy. This talk covers searches for R-parity violating supersymmetry, in which the lightest supersymmetric particle is unstable and can decay to standard model particles. These scenarios would be missed by traditional searches focusing on large missing transverse energy and can produce a wide variety of interesting signatures including possible resonances.

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Session Classification: SUSY: Phenomenology and Experiment

Track Classification: SUSY: Phenomenology and Experiment