Contribution ID: **115** Type: **not specified**

muon g-2 and the B-physics anomalies in RPV supersymmetry and the discovery prospect at LHC

Friday 27 August 2021 22:55 (20 minutes)

In R-parity violating supersymmetric scenario, assuming the third-generation superpartners to be the lightest (calling the scenario RPV3), we show that there are some benchmark scenarios in which $R_{D^{(*)}}$, $R_{K^{(*)}}$ and $(g-2)_\mu$ anomalies can be addressed and also can be detected at 14 TeV LHC or future hadron colliders. We consider $\bar{t}\mu\overline{\mu}$ as our final state to be detected at hardon colliders because there is no simple Standard Model process can have this kind of final state and the background cross-section is thus very small.

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Session Classification: Supersymmetry: Models, Phenomenology and Experimental Results

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