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Heavy baryon decay form factors from lattice QCD

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Summary

Measurements of Λ_b decays at the Large Hadron Collider provide valuable constraints on important quantities in flavor physics, and can shed new light on "anomalies" observed in mesonic b decays. I will review lattice QCD calculations
of form factors describing semileptonic decays of Λ_b baryons, and discuss the applications to $|V_{ub}|$ and $|V_{cb}|$ determinations,
tests of lepton flavor universality, and fits of $|\Delta B| = |\Delta S| = 1$ Wilson coefficients. I will also present preliminary results for the
new decay channel $\Lambda_b \to \Lambda(1520)\mu^+\mu^-$.

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Session Classification: Flavor