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Flavor physics with Λ_b baryons (15' + 5')

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Measurements of Λ_b decays at the Large Hadron Collider provide complementary constraints on important quantities in flavor physics, and can shed new light on "anomalies" observed in mesonic b decays. In this talk, I will report on lattice QCD calculations of the form factors describing semileptonic and rare Λ_b decays, and discuss the phenomenological implications. The topics covered include determinations of $|V_{ub}|$ and $|V_{cb}|$, fits of $|\Delta B| = |\Delta S| = 1$ Wilson coefficients, and tests of lepton flavor universality.

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