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Rare decays of Λ_b baryons in a quark model LONNIE MOTT, WINSTON ROBERTS, Florida State University — The exclusive rare decays $\Lambda_b \to \Lambda^{(*)}\gamma$ and $\Lambda_b \to \Lambda^{(*)}\ell^+\ell^-$ are treated in the framework of a constituent quark model. By use of single component wavefunctions, the hadronic form factors for the vector, axial vector and tensor currents are derived analytically. The decay rates and forward-backward asymmetries are calculated with and without charmonium resonance contributions for the dileptonic decays. The branching ratios for these decays are also reported.

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