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## Lattice QCD calculation of form factors for $\Lambda_b \rightarrow \Lambda(1520)\ell^+\ell^-$ decays

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Experimental results for mesonic  $b \rightarrow s\mu^+\mu^-$  decays show a pattern of deviations from Standard-Model predictions. These deviations could be due to new fundamental physics or due to an insufficient understanding of hadronic effects. Complementary information on the  $b \rightarrow s\mu^+\mu^-$  transition can be obtained from  $\Lambda_b$  decays. This was recently done using the process  $\Lambda_b \rightarrow \Lambda\mu^+\mu^-$ , where the  $\Lambda$  is the lightest strange baryon. A further interesting channel that is being analyzed by LHCb is  $\Lambda_b \rightarrow p^+K^-\mu^+\mu^-$ , where the  $p^+K^-$  final state receives contributions from multiple higher-mass  $\Lambda$  resonances. The narrowest and most prominent of these is the  $\Lambda(1520)$ , which has  $J^P = \frac{3}{2}^-$ . We discuss our progress toward a lattice QCD calculation of the relevant  $\Lambda_b \rightarrow \Lambda(1520)$  form factors.

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