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A lattice QCD study of the $B \rightarrow \pi\pi \ell \nu$ transition

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V_{ub} is the smallest and least known of all CKM matrix elements; the community determines its current value primarily through the exclusive process $B \rightarrow \pi \ell \nu$. This talk will present our progress toward a lattice QCD determination of the V_{ub} matrix element from a novel transition - $B \rightarrow \pi\pi \ell \nu$ process, where the $\pi\pi$ rescattering features the $\rho(770)$ resonance as an enhancement. We perform our calculation on $N_f = 2 + 1$ clover fermions on a lattice of $L = 3.6$ fm and a pion mass of 320 MeV. After a brief overview of the theoretical framework, we will discuss some preliminary results.

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