

Abstract Submitted
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Measurement of forward-backward asymmetry and other properties of B decays to $K^*\Pi$ ¹ JARED YAMAOKA, University of Hawaii at Manoa, BELLE COLLABORATION — We present a study of B decays to $K^{(*)}$ and two leptons (e, μ) in the full Belle $\Upsilon(4s)$ data set ($771 \times 10^6 B\bar{B}$ pairs). The flavor-changing neutral current process responsible for this decay, $b \rightarrow sl^+l^-$, proceeds via electro-weak penguin diagrams in the Standard Model. However, this process may be sensitive to new physics due to contributions from Beyond the Standard Model particles in these diagrams. We report the differential branching fraction, isospin asymmetry, K^* polarization, and forward-backward asymmetry (A_{FB}) as a function of $q^2 = M_{ll}^2 c^2$.

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