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## Updated search for non-SM physics in $B \rightarrow K^{(*)} \mu^+ \mu^-$ decays at CDF

*Tuesday, 30 August 2011 14:50 (20 minutes)*

We present updated measurements of branching fractions (BR), polarization, and muon forward-backward asymmetry ( $A_{FB}$ ) in  $B \rightarrow K^{(*)} \mu^+ \mu^-$  final states using  $6.7 \text{ fb}^{-1}$  of data collected by the CDF detector. We report the first observation of  $\Lambda_b \rightarrow \Lambda \mu^+ \mu^-$  decays, the first measurements of the  $A_{im}$  and  $A_{T^2}$  quantities - sensitive to CP-violating right-handed currents - and measurements of  $A_{FB}$ , polarizations and BR competitive with world best results.

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