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Towards global analysis of b -> s l^+l^- decays

vendredi 22 juillet 2011 12:00 (15 minutes)

The final data sets of BaBar, Belle and CDF as well as the current run of LHCb are about to significantly improve the experimental knowledge on rare B-decays governed by b -> s l^+l^-$. In view of this, we will present new tests of the electroweak short-distance couplings in the Standard Model and beyond, including a general set of non-standard interactions. Especially, the angular analysis of B -> K^*(->K pi) l^+l^- *provides a large number of new observables which allow to efficiently disentangle short-distance (new) physics from long-distance QCD effects. The potential to test the Standard Model and specific non-standard interactions will be discussed, focusing on the high-dilepton invariant mass region, which is complementary to the low-dilepton mass region. Results of a model-independent analysis are presented, using current constraints from B -> K l^+l^- and B -> K^* l^+l^-* for both regions in combination with other rare B-decays.

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