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Penguin Pollution in B^0 -> J/psi K^0 and B_s -> J/psi phi Decays

Tuesday, October 28, 2014 4:50 PM (20 minutes)

The size of the penguin pollution from the u-quark loop is under debate
for many years, and this issue must be settled when future precise data
on the famous mixing-induced CP asymmetries will be analysed to measure
sin(2*beta) or beta_s. We have caluclated the penguin pollution from first principles, using methods of soft-collinear factorisation. (Earlier attempts to do such a calculation for the B-> J/psi K_S branching ratio around 12 years ago had failed. The situation for the penguin pollution, however, is different.)

Author: Mr FRINGS, Philipp (Institute for Theoretical Particle Physics (TTP))

Presenter: Mr FRINGS, Philipp (Institute for Theoretical Particle Physics (TTP))

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