

Nonleptonic charmless B_c decays and their search at LHCb

Saturday, July 18, 2009 10:05 AM (15 minutes)

We discuss the decay of B_c mesons into two light (pseudoscalar and vector) mesons. All these decay channels come from a single type of diagram, namely tree annihilation which allows us to derive simple relations among these processes. The size of annihilation contributions is an important issue in B physics, and we provide two different estimates in the case of non-leptonic charmless B_c decays, either a comparison with annihilation decays of heavy-light mesons or a perturbative model inspired by QCD factorisation. We finally discuss a possible search for these channels at LHCb.

Primary author: Dr DESCOTES-GENON, Sébastien (LPT Orsay (CNRS/Univ. Paris Sud 11))

Co-authors: Dr KOU, Emi (LAL Orsay (CNRS/IN2P3/Univ. Paris Sud 11)); Dr HE, Jibo (LAL Orsay (CNRS/IN2P3/Univ. Paris Sud 11)); Dr ROBBE, Patrik (LAL Orsay (CNRS/IN2P3/Univ. Paris Sud 11))

Presenter: Dr DESCOTES-GENON, Sébastien (LPT Orsay (CNRS/Univ. Paris Sud 11))

Session Classification: II. Flavour Physics

Track Classification: Flavour Physics