B_S->phiphi as a potential probe for New Physics at LHCb

Tuesday 1 April 2008 11:50 (12 minutes)

The LHCb experiment, currently being commissioned at CERN, will perform precision measurements of mixing and decays in B-mesons. I will present studies on the decay B_s->phiphi, a channel in which physics beyond the Standard Model has the potential to affect parameters measurable at LHCb. An introduction to the channel will be given, including the physics of B-meson to Vector-Vector decays. Event selection based on the full LHCb Monte-Carlo data will be discussed, along with expected events yields for various integrated luminosity scenarios. Strategies for fitting the total weak phase, phi_s, and the transverse polarisation fraction, f_perp, will be explored.

Talk, Poster, or Talk & Poster

Talk

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