IOP Institute of Physics 2013 High Energy and Astro Particle Physics

Contribution ID: 48 Type: not specified

Search for
$$B^0_{(s)} \rightarrow J/\psi K^0_S h^+ h^{(\prime)-}$$

Tuesday, 9 April 2013 09:45 (12 minutes)

The LHCb dataset provides the potential to significantly improve the knowledge of $B^0_{(s)} \to J/\psi K^0_S h^+ h^{(\prime)-}$ decays. Exotic charmonia states have been observed (or claimed), produced in B decays together with a kaon, and decaying to $J/\psi h^+ h^{(\prime)-}$: the X(3872) decaying to $J/\psi \pi^+ \pi^-$, and the X(4140) decaying to $J/\psi \phi$. These could be searched for in the $JJ/\psi K^0_S h^+ h^{(\prime)-}$ final states. We present progress towards measurements of the relative branching fractions and studies of the composition of $B^0_{(s)} \to J/\psi K^0_S h^+ h^{(\prime)-}$ decays.

Primary author: REID, Matthew Michael (University of Warwick)

Presenter: REID, Matthew Michael (University of Warwick)

Session Classification: Track 1

Track Classification: Parallel Track 1