

Contribution ID: 13 Type: Poster

CP sensitivity Dalitz plot analisis of the decay B0 -> KsKK

I study the weak three-body decay B0 -> KsKK generated at the LHCb experiment (Large Hadron Collider beauty) in the LHC (Large Hadron Collider) at CERN (Conseil Européen pour la Recherche Nucléaire). Validating the current results from run 1 (2010-2012) and run 2 (2015-2017) and studying the expected results from run 3 (2019-2022). The simulation of the experimental conditions for run 3 like the tagging (flavour of the B0), the detector efficiency and the number of expected events will determine the sensitivity of the mass phase space (Dalitz plot) to the isobar amplitudes for the many resonance modes in the three-body decay, expecting to determine the CP-violating asymmetries of the flavour specific modes.

Author: NUNEZ PALACIO, Rafael David (Universidad Nacional de Colombia (CO))

Co-author: MILANES CARRENO, Diego (Universidad Nacional de Colombia (CO))

Presenter: NUNEZ PALACIO, Rafael David (Universidad Nacional de Colombia (CO))