

Study of the sensitivity in measuring β_c , one of the angles of the charm unitarity triangle

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β_c is one angle of the charm unitarity triangle, which is almost unexplored because it's almost flat. CP asymmetry in charm sector is expected to be very small and any significant deviation from the predicted value would signify new physics or physics beyond the standard model. In this paper I present a study on the sensitivity in measuring β_c for the future Belle II experiment considering the expected luminosity, the time resolution of the detector and the mis-identification of the flavour during reconstruction.

Auteur principal: M. MARIA, Robert Daniel (Universite de Strasbourg)

Orateur: M. MARIA, Robert Daniel (Universite de Strasbourg)

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