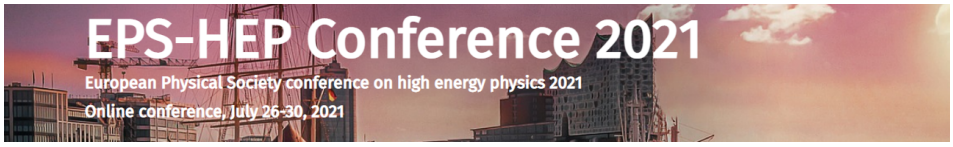

Contribution ID: **530** Type: **Parallel session talk**

Measurement of the mixing parameter χ_d in semi-leptonic B meson decays at Belle II

Monday 26 July 2021 10:15 (15 minutes)

Inclusive semi-leptonic decays of B mesons are an excellent avenue for the study of B\bar{B} mixing, given their large branching fraction. In this talk, we present the measurement of the time integrated mixing parameter, χ_d, using data collected by the Belle II detector. The Belle II experiment is located at the SuperKEKB laboratory in Tsukuba, Japan where electron-positron collisions at the $\Upsilon(4S)$ energy yield a large number of B\bar{B} events. The mixing parameter χ_d is determined by examining the charge of reconstructed lepton pairs in $B \to X\ell\nu$ events. The result is based on 74 fb^{-1} of Belle II reprocessed data.

First author

Jim Libby

Email

libby@iitm.ac.in

Collaboration / Activity

Belle II

Presenter: DUELL, Stephan (BELLE (BELLE II Experiment))

Session Classification: T08: Flavour Physics and CP Violation

Track Classification: Flavour Physics and CP Violation