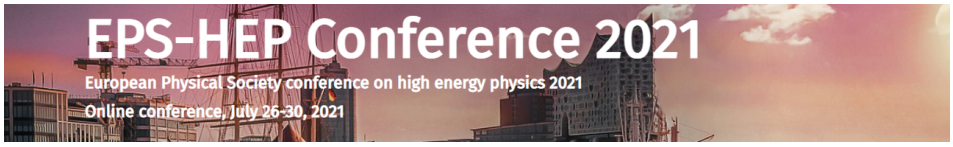

Contribution ID: **663** Type: **Parallel session talk**

QCD factorization tests with $\bar{B}^0 \to D^{(*)+}\pi^-$ and $\bar{B}^0 \to D^{(*)+}K^-$ decays at Belle

Monday, 26 July 2021 10:00 (15 minutes)

We report new results of the branching fractions $\mathcal{B}(\bar{B}^0 \to D^{*+}\pi^-)$ and $\mathcal{B}(\bar{B}^0 \to D^{*+}K^-)$ measured using 772×10^6 B-meson pairs recorded by the Belle experiment. The ratio of the branching fractions is measured in a way that allows for the cancellation of systematic uncertainties arising from the D-meson reconstruction. Furthermore, we report a new high-precision test of QCD factorisation by measuring ratios of $\bar{B}^0 \to D^{*+}h^-$ $(h = \pi, K)$ and $\bar{B}^0 \to D^{*+}\ell^-\bar{\nu}_\ell$ decays at fixed momentum transfers for different particle species. The talk also covers related measurements of $B \to Dh$ decays performed with the full Belle data.

First author

S. Nishida

Email

shohei.nishida@kek.jp

Collaboration / Activity

Belle

Primary author: NISHIDA, Shohei (BELLE (BELLE II Experiment))

Presenter: WAHEED, Eiasha (High Energy Accelerator Research Organization (KEK))

Session Classification: T08: Flavour Physics and CP Violation

Track Classification: Flavour Physics and CP Violation