



Contribution ID: 812

Type: **Parallel session talk**

Study of hadronic B and B_s decays at Belle

Monday 26 July 2021 18:15 (15 minutes)

We report the first search for the penguin-dominated process $B_s \rightarrow \eta' X_{s\bar{s}}$ using a semi-inclusive method. In absence of a statistically significant signal, we set a 90% confidence-level upper limit 1.4×10^{-3} on the partial branching fraction where $M(X_{s\bar{s}}) \leq 2.4 \text{ GeV}$. We also report final results for the $B_s^0 \rightarrow D_s X$ and $B_s^0 \rightarrow \eta\eta'$ decays. These results are obtained using 121.4 fb^{-1} data collected at the $\Upsilon(5S)$ resonance by the Belle experiment at the KEKB asymmetric-energy e^+e^- collider. Furthermore, we report on measurements involving three-body decays $B^+ \rightarrow K^+ K^- \pi^+$ and $B^+ \rightarrow \pi^+ \pi^0 \pi^0$ based on the Belle data collected at the $\Upsilon(4S)$ resonance.

First author

S. Nishida

Email

shohei.nishida@kek.jp

Collaboration / Activity

Belle

Primary author: NISHIDA, Shohei (BELLE (BELLE II Experiment))**Presenter:** DUBEY, Shawn**Session Classification:** T08: Flavour Physics and CP Violation**Track Classification:** Flavour Physics and CP Violation