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Sensitivity study of rare decay modes $B^+ \rightarrow D_s^{(*)+} \eta$, $D_s^{(*)+} \bar{K}^0$, $D^+ \eta$, and $D^+ K^0$ at Belle.

Thursday 15 December 2022 14:00 (1 hour)

We will present the study of rare decay modes $B^+ \rightarrow D_s^{(*)+} h^0$ and $B^+ \rightarrow D^+ h^0$, where h^0 denotes the neutral mesons (η and K^0) using a data sample of the Belle experiment. These rare decay modes are poorly measured in the world, and we first time studied them using the full Belle data collected at an asymmetric KEKB e^+e^- collider situated at Tsukuba, Japan. Along with rare decay modes, we will report improved measurements in the branching fraction of the color-suppressed decays $B^0 \rightarrow D^0 h^0$.

Session

Beyond the Standard Model

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