$B^+ \rightarrow D_s^+ D^0$ decay reconstruction in Early Phase III data

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Abstract

This note contains the approved plots for the analysis documented in BELLE2-NOTE-PH-2019-056. More details at: https://docs.belle2.org/record/1675?ln=en

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FIG. 1: Signal enhanced distributions of $\Delta E$ (left) and $M_{bc}$ (right) for $B^+ \rightarrow D_s^+ D^0$ candidates reconstructed proc9 + prompt data. The signal region is defined as $|\Delta E| < 0.05$ GeV and $M_{bc} > 5.27$ GeV/$c^2$. The signal is reconstructed in the following decay modes: $B^\mp \rightarrow D_s^\mp \phi(K^+K^-)\pi^\mp D^0(\rightarrow K^-\pi^+, K^-\pi^+\pi^0, K^-\pi^+\pi^-\pi^+)$.

Plots are formatted for public showing at Beauty.