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$B^+ \rightarrow D_s^+ D^0$ 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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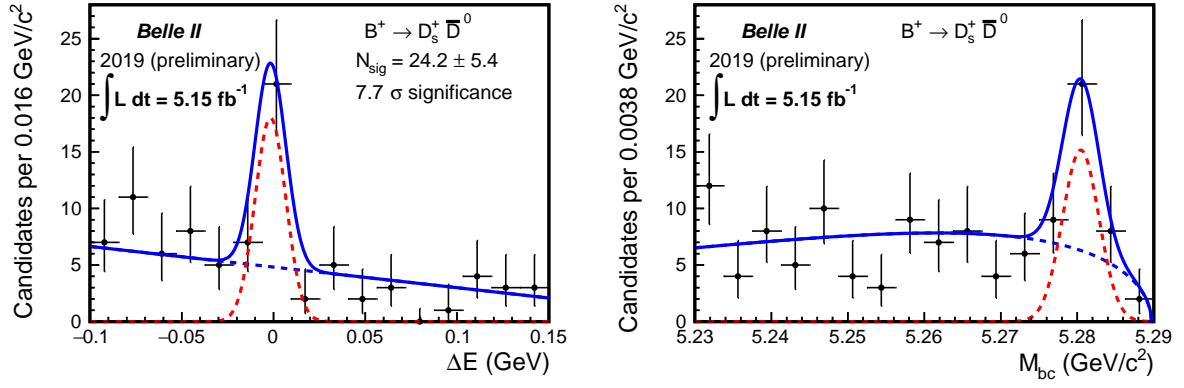


FIG. 1: Signal enhanced distributions of ΔE (left) and M_{bc} (right) for $B^+ \rightarrow D_s^+ D^0$ candidates reconstructed proc9 + prompt data. The signal region is defined as $|\Delta E| < 0.05$ GeV and $M_{bc} > 5.27$ GeV/ c^2 . The signal is reconstructed in the following decay modes: $B^\mp \rightarrow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