

Weekly Report

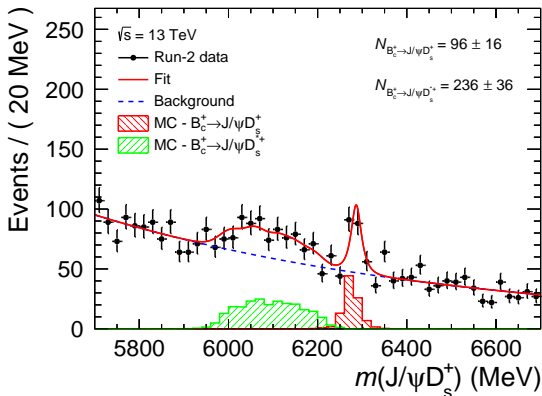
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$$B_c^+ \rightarrow J/\psi D_s^+$$

- ▶ Full run-2 data and signal MC samples are ready



- ▶ Compare kinematic distributions in data and MC, then optimize event selection accordingly

$$B_c^+ \rightarrow J/\psi D_s^+$$

- ▶ Check ΔZ distributions

In the derivation production, we applied the $|\Delta Z| < 20$ mm cut on the pion track while selecting $D_{(s)}^+$, $J/\psi\pi_{\text{soft}}^+$ candidates. To ensure this cut does not affect the efficiency too much, we checked the ΔZ distributions in data and MC.

