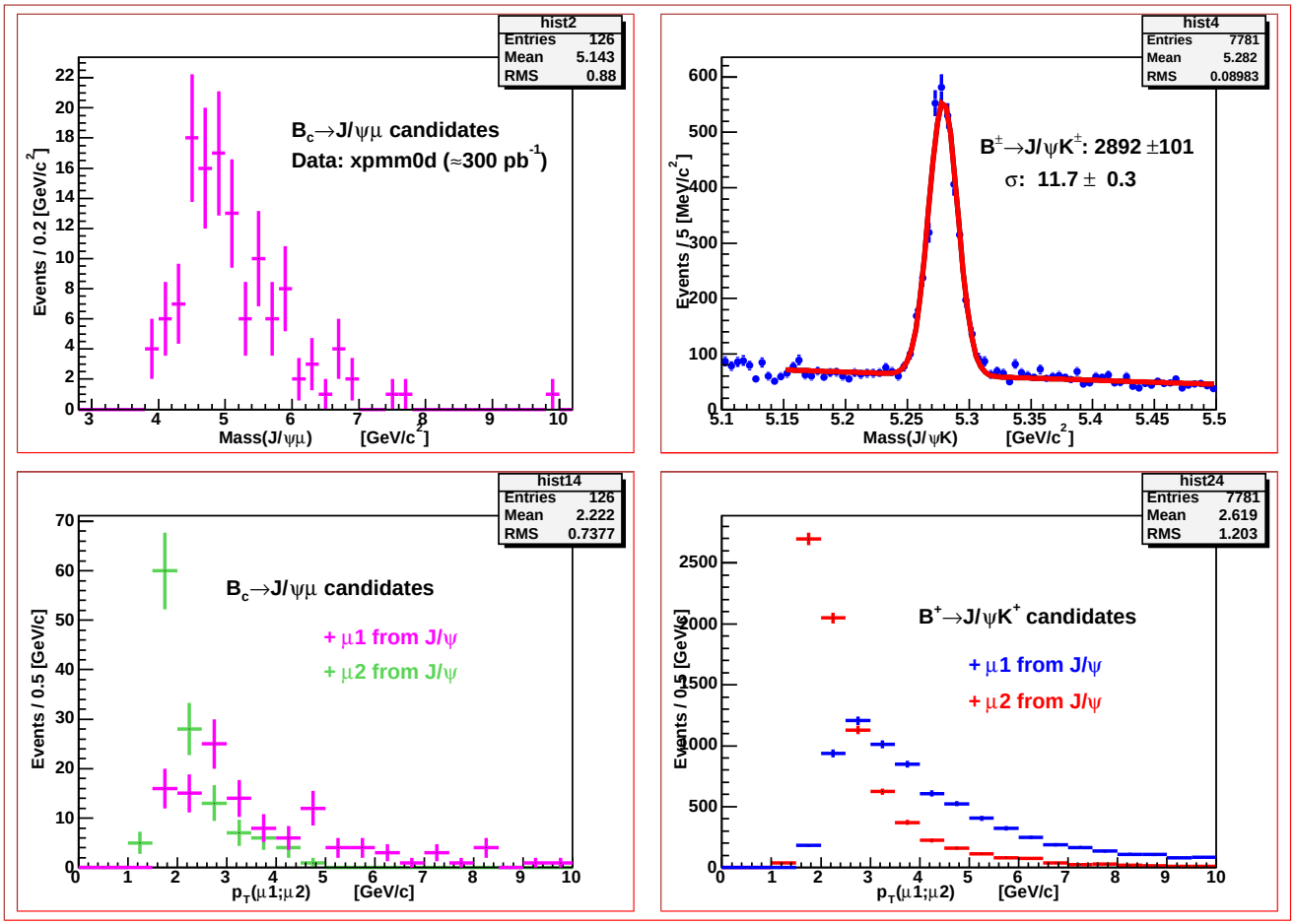
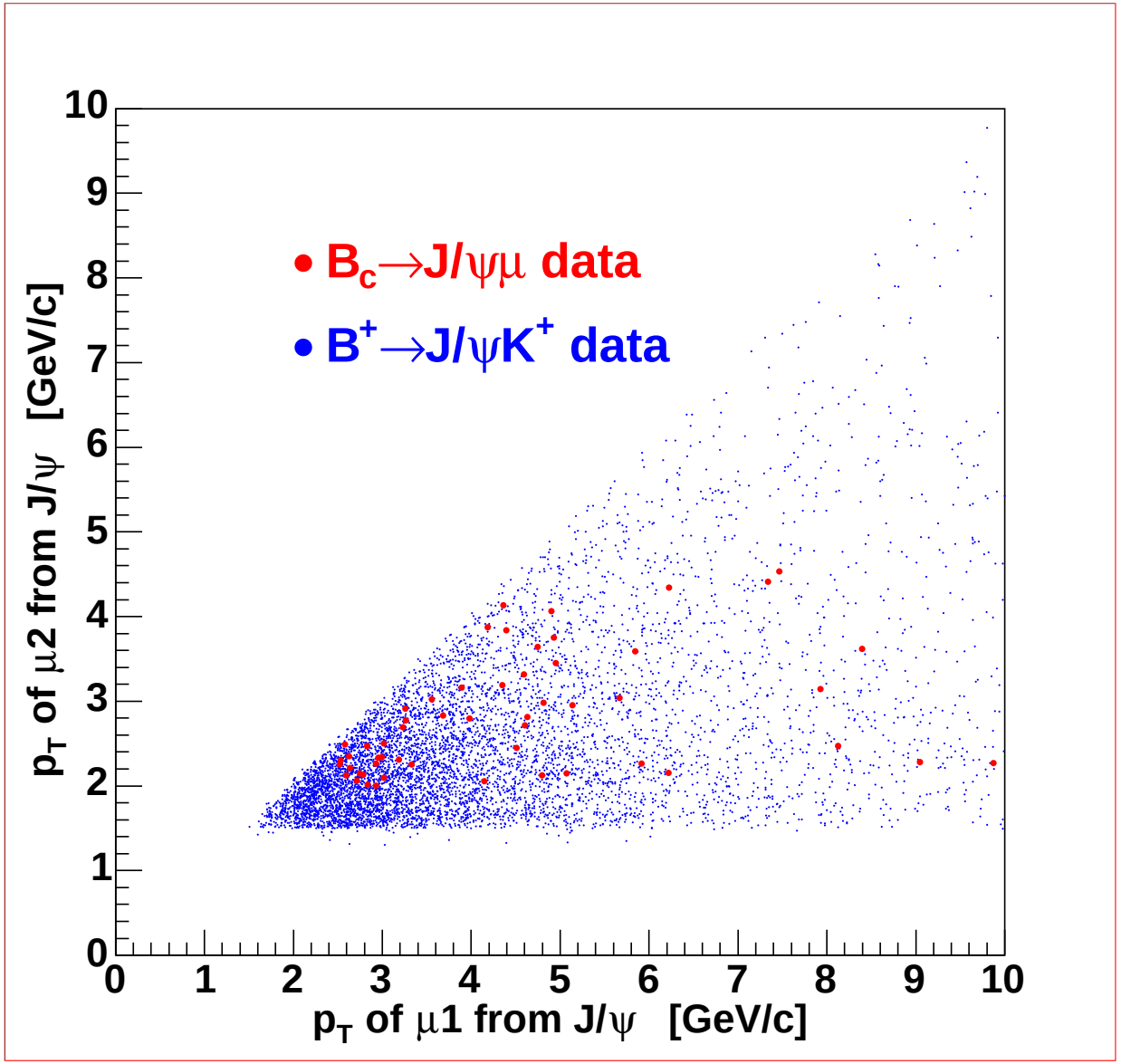
# $B_c$ & $B^+$ candidates




The $B_c \to J/\psi\mu$ (top left) and $B^+ \to J/\psi K^+$ (top right) mass distributions. Data: $J/\psi \to \mu\mu$ (xpmm0d) dataset. Software 5.3.3. Cuts: note 6956 for $B_c$ and 6963 for $B^+$. Bottom plots: $p_T$ distributions of $J/\psi$ legs.

# $p_T(\mu 1)$ vs $p_T(\mu 2)$



# $B_c$ & $B^+$ *yields vs* $p_T(\mu 1;\mu 2)$ *cut*

| $p_T$ *cut* | $B_c$ | $B^+$ |
|---|---|---|
| 1.5 and 1.5 | 126 | 2892 |
| 2.0 and 2.0 | 61 | 1707 |
| 2.5 and 2.5 | 32 | 1149 |

Table 1: How $p_T$ cut on $J/\psi$ legs will effect on $B_c$ and $B^+$ yields?