

Supplementary material for LHCb-PAPER-2015-024

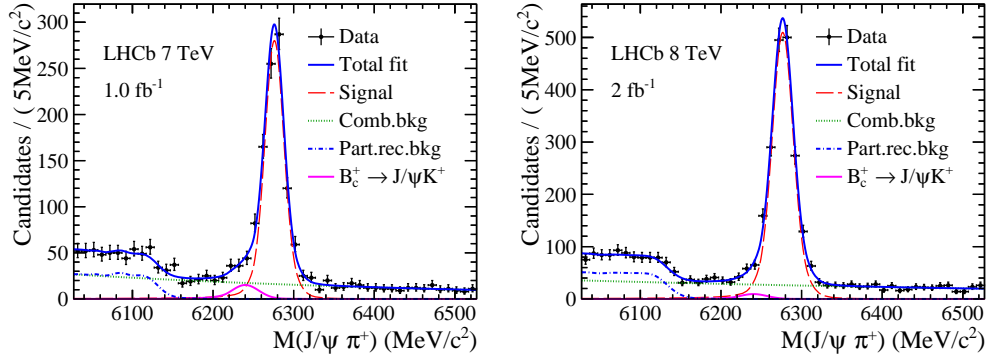


Figure 3: Fit to the reconstructed B_c^+ mass distribution for $B_c^+ \rightarrow J/\psi\pi^+$ using (left) 2011 and (right) 2012 data samples. Black points with error bars represent the data, and the various components are indicated in the keys.

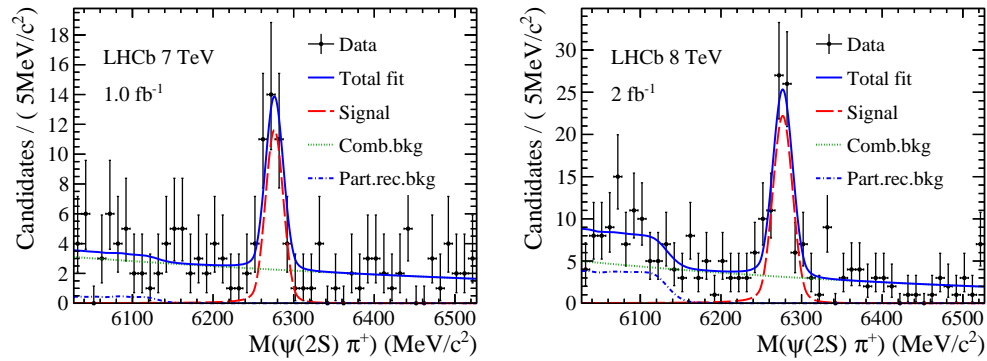


Figure 4: Fit to the reconstructed B_c^+ mass distribution for $B_c^+ \rightarrow \psi(2S)\pi^+$ using (left) 2011 and (right) 2012 data samples. Black points with error bars represent the data, and the various components are indicated in the keys.

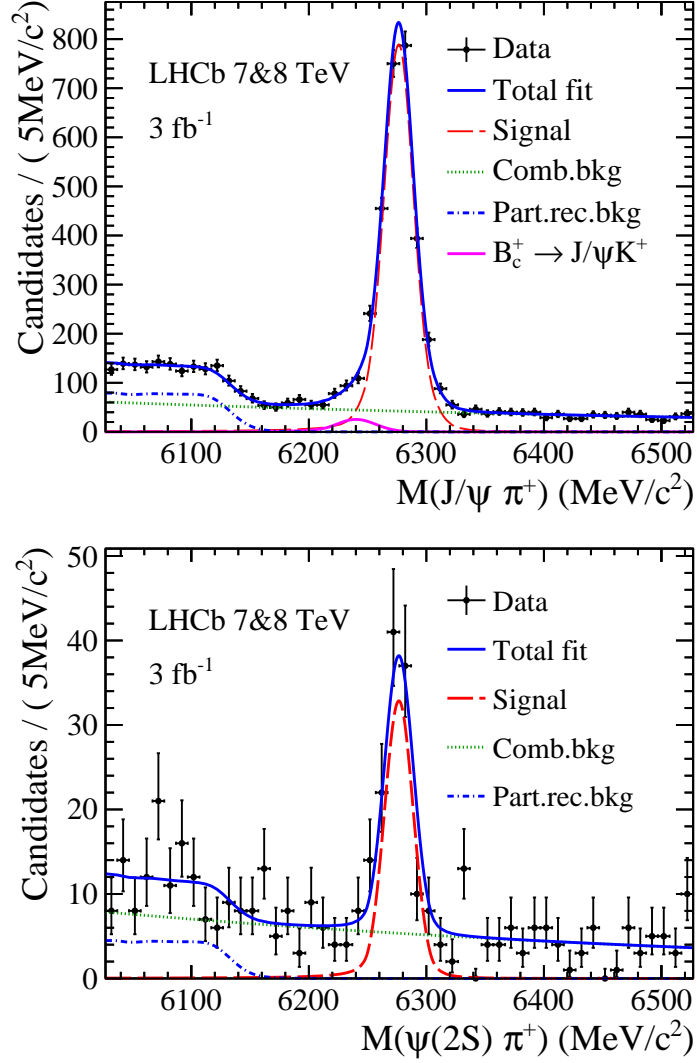


Figure 5: Fit to the reconstructed B_c^+ mass distribution for (top) $B_c^+ \rightarrow J/\psi\pi^+$ and (bottom) $B_c^+ \rightarrow \psi(2S)\pi^+$ using 2011 and 2012 data samples, corresponding to an integrated luminosity of 3 fb^{-1} . Black points with error bars represent the data, and the various components are indicated in the keys.