

# Supplementary material

In Figs. 1 and 2 the fits to all the studied modes are shown separately.

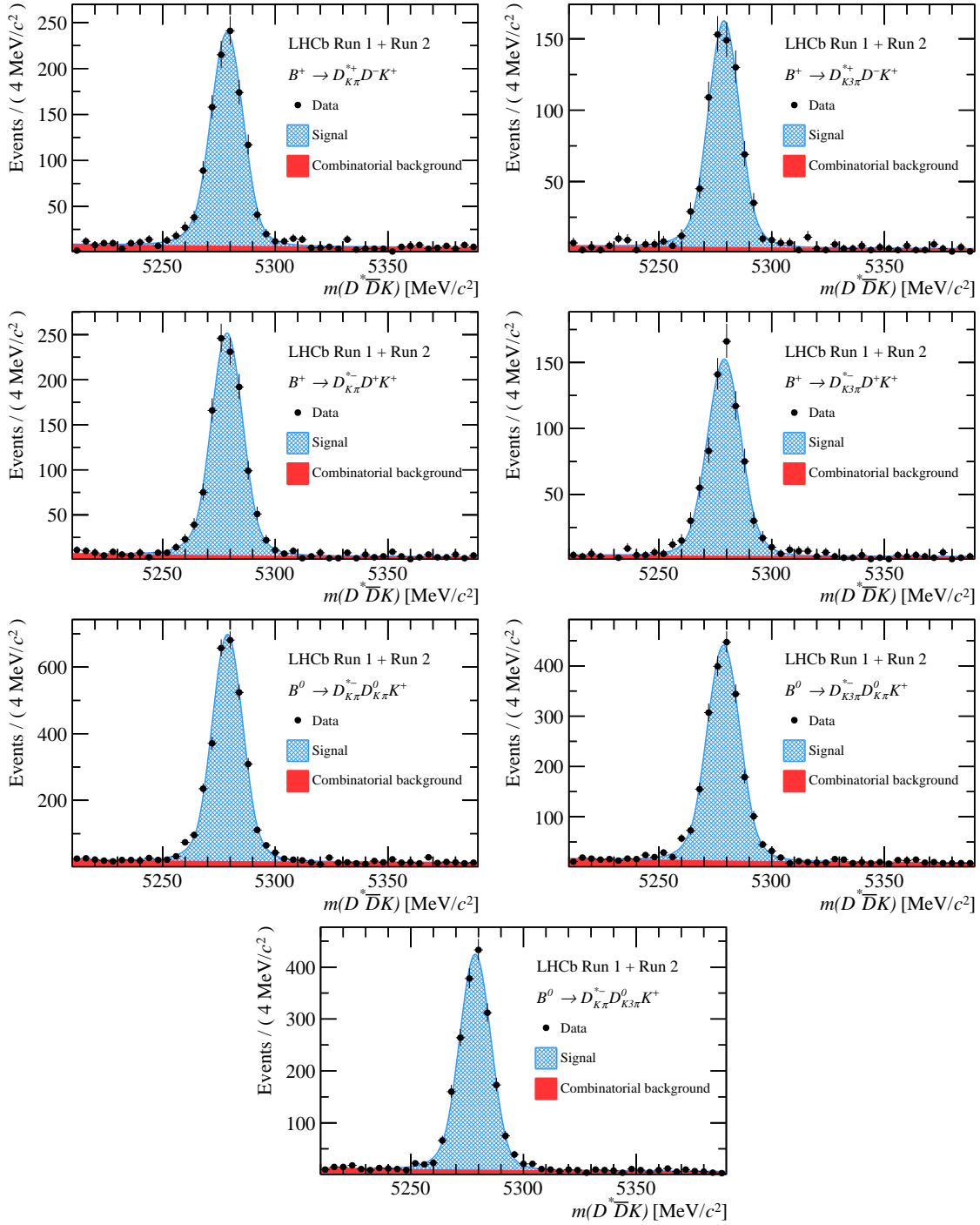


Figure 1: Fits to the invariant-mass distribution of all studied  $B \rightarrow D^* \bar{D} K$  modes

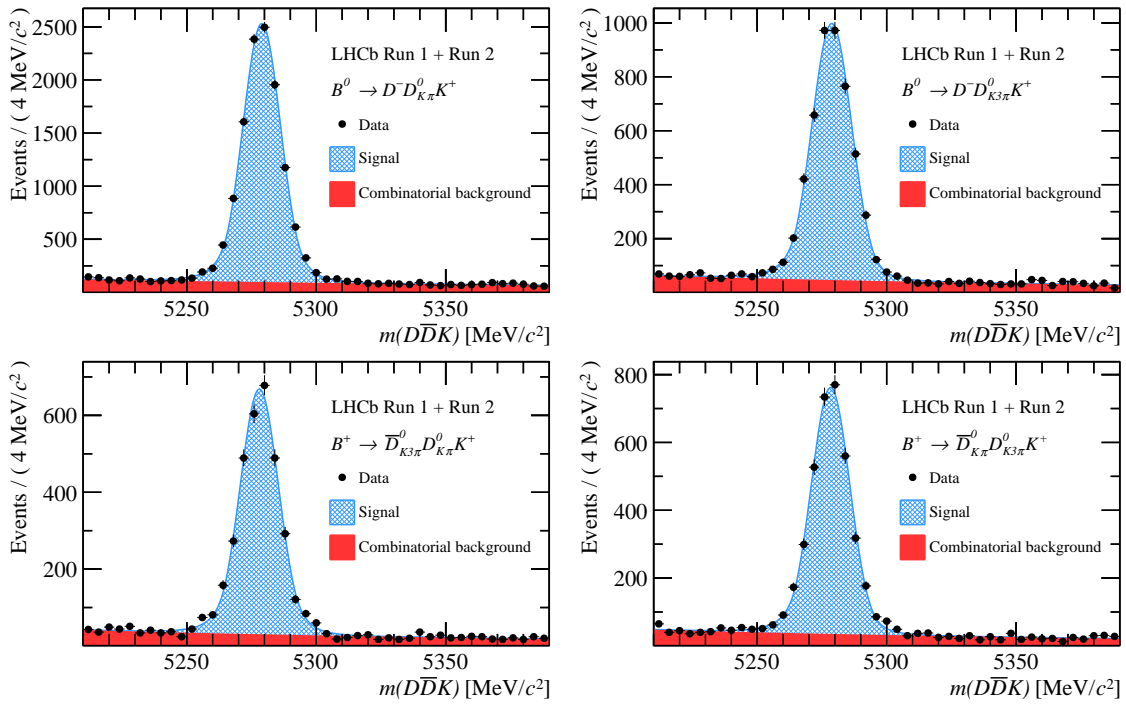


Figure 2: Fits to the invariant-mass distribution of all studied  $B \rightarrow D\bar{D}K$  modes