

| Fit component                                   | $B^\pm \rightarrow DK^\pm, long$ | $B^\pm \rightarrow DK^\pm, downstream$ |
|---|----------------------------------|--|
| Signal  | $217 \pm 17$                     | $420 \pm 27$                           |
| Backgrounds                                     |                                  |  |
| Cross-feed (from $B^\pm \rightarrow D\pi^\pm$ ) | $35.9 \pm 0.7$                   | $76 \pm 1$                             |
| Combinatorial $D$                               | $5^{+7}_{-3}$                    | $31^{+11}_{-9}$                        |
| Random $Dh$                                     | $28^{+5}_{-8}$                   | $45^{+18}_{-19}$                       |
| $D^*\pi$  | $0.36 \pm 0.08$                  | $6 \pm 7$                              |
| $D\rho$   | $2.2 \pm 0.5$                    | $4 \pm 11$                             |
| $B_s \rightarrow DK^*$                          | $0.9 \pm 0.2$                    | $4 \pm 2$                              |

| Fit component                                 | $B^\pm \rightarrow D\pi^\pm, long$ | $B^\pm \rightarrow D\pi^\pm, downstream$ |
|---|------------------------------------|--|
| Signal  | $2906 \pm 56$                      | $5960 \pm 80$                            |
| Backgrounds                                   |                                    |  |
| Cross-feed (from $B^\pm \rightarrow DK^\pm$ ) | $27 \pm 2$                         | $53 \pm 3$                               |
| Combinatorial $D$                             | $15^{+19}_{-10}$                   | $99^{+36}_{-27}$                         |
| Random $Dh$                                   | $76^{+15}_{-22}$                   | $146^{+33}_{-41}$                        |
| $D^*\pi$                                      | $6.6 \pm 0.4$                      | $22.0 \pm 0.7$                           |