

| Source                  | $\frac{\mathcal{B}(\mathcal{B}'_f \rightarrow \mathcal{K}^{*\pm} \mathcal{K}^\mp)}{\mathcal{B}(\mathcal{B}' \rightarrow \mathcal{K}^{*+} \pi^-)}$ |            | $\frac{\mathcal{B}(\mathcal{B}' \rightarrow \mathcal{K}^{*\pm} \mathcal{K}^\mp)}{\mathcal{B}(\mathcal{B}' \rightarrow \mathcal{K}^{*+} \pi^-)}$ |            | $\frac{\mathcal{B}(\mathcal{B}'_f \rightarrow \mathcal{K}^{*-} \pi^+)}{\mathcal{B}(\mathcal{B}' \rightarrow \mathcal{K}^{*+} \pi^-)}$ |            |
|-------------------------|---|------------|---|------------|---|------------|
|                         | long  | downstream | long  | downstream | long  | downstream |
| Fit                     | 0.14  | 0.07       | 0.010   | 0.005      | 0.05  | 0.04       |
| S-wave interference     | 0.32  | 0.14       | 0.001   | 0.002      | 0.04  | 0.05       |
| Acceptance              | 0.01  | 0.01       | < 0.001   | < 0.001    | < 0.01  | 0.01       |
| Selection               | 0.08  | 0.05       | < 0.001   | 0.001      | 0.01  | 0.02       |
| Trigger                 | 0.03  | 0.02       | < 0.001   | 0.001      | < 0.01  | 0.01       |
| Particle identification | 0.04  | 0.03       | < 0.001   | 0.001      | 0.01  | 0.01       |
| $f_s/f_d$               | 0.10  | 0.08       | —   | —          | 0.01  | 0.03       |
| Total                   | 0.37  | 0.19       | 0.011   | 0.006      | 0.06  | 0.08       |