

| Source of uncertainty         | $C_{\pi^+\pi^-}$ | $S_{\pi^+\pi^-}$ | $C_{K^+K^-}$ | $S_{K^+K^-}$ | $A_{K^+K^-}^{\Delta\Gamma}$ | $A_{CP}^{B^0}$ | $A_{CP}^{B_s^0}$ |
|-------------------------------|------------------|------------------|--------------|--------------|-----------------------------|----------------|------------------|
| Time-dependent efficiency     | 0.0011           | 0.0004           | 0.0020       | 0.0017       | 0.0778                      | 0.0004         | 0.0002           |
| Time-resolution calibration   | 0.0014           | 0.0013           | 0.0108       | 0.0119       | 0.0051                      | 0.0001         | 0.0001           |
| Time-resolution model         | 0.0001           | 0.0005           | 0.0002       | 0.0002       | 0.0003                      | negligible     | negligible       |
| Input parameters              | 0.0025           | 0.0024           | 0.0092       | 0.0107       | 0.0480                      | negligible     | 0.0001           |
| OS-tagging calibration        | 0.0018           | 0.0021           | 0.0018       | 0.0019       | 0.0001                      | negligible     | negligible       |
| SS $K^-$ -tagging calibration | —                | —                | 0.0061       | 0.0086       | 0.0004                      | —              | —                |
| SSc-tagging calibration       | 0.0015           | 0.0017           | —            | —            | —                           | negligible     | negligible       |
| Cross-feed time model         | 0.0075           | 0.0059           | 0.0022       | 0.0024       | 0.0003                      | 0.0001         | 0.0001           |
| Three-body bkg.               | 0.0070           | 0.0056           | 0.0044       | 0.0043       | 0.0304                      | 0.0008         | 0.0043           |
| Comb.-bkg. time model         | 0.0016           | 0.0016           | 0.0004       | 0.0002       | 0.0019                      | 0.0001         | 0.0005           |
| Signal mass model (reso.)     | 0.0027           | 0.0025           | 0.0015       | 0.0015       | 0.0023                      | 0.0001         | 0.0041           |
| Signal mass model (tails)     | 0.0007           | 0.0008           | 0.0013       | 0.0013       | 0.0016                      | negligible     | 0.0003           |
| Comb.-bkg. mass model         | 0.0001           | 0.0003           | 0.0002       | 0.0002       | 0.0016                      | negligible     | 0.0001           |
| PID asymmetry                 | —                | —                | —            | —            | —                           | 0.0025         | 0.0025           |
| Detection asymmetry           | —                | —                | —            | —            | —                           | 0.0014         | 0.0014           |
| Total                         | 0.0115           | 0.0095           | 0.0165       | 0.0191       | 0.0966                      | 0.0030         | 0.0066           |