| Source of Uncertainty                          | $f_0$  | $f_{||}$ | $\delta_{||}$ | $\delta_{\perp}$ | $A_{0\,CP}^{CP}$ | $A_{||}^{CP}$ | $A_{\perp}^{CP}$ |
|----------------------------------------------|--------|---------|--------------|------------------|-------------------|--------------|--------------|
| Fitted value                                 | 0.497  | 0.179   | -2.70        | 0.01             | -0.048           | 0.171        | -0.049       |
| Statistical uncertainties                    | 0.025  | 0.027   | 0.16         | 0.11             | 0.057            | 0.152        | 0.096        |
| Angular acceptance                           | 0.018  | 0.008   | 0.02         | 0.01             | 0.009            | 0.017        | 0.008        |
| (simulation statistics)                      |        |         |              |                  |                   |              |              |
| Angular acceptance                           | 0.015  | 0.007   | 0.17         | 0.10             | 0.007            | —            | 0.015        |
| (data–simulation differences)                |        |         |              |                  |                   |              |              |
| $C_{SP}$ factors                              | —      | 0.001   | —            | —                | 0.001            | 0.002        | 0.002        |
| D–wave contribution                           | 0.004  | 0.003   | —            | —                | 0.002            | 0.015        | 0.002        |
| Background angular model                     | 0.004  | 0.002   | 0.02         | 0.01             | 0.004            | $^{+0.012}_{-0.004}$ | 0.002 |
| $B^0$ contamination                           |        |         |              |                  |                   |              |              |
| Mass parameters and $B^0$ contamination       | —      | —       | —            | —                | 0.001            | 0.001        | —            |
| Mass–cos($\theta_{\mu}$) correlations        | 0.007  | 0.006   | 0.07         | $^{+0.02}_{-0.04}$ | 0.014            | $^{+0.009}_{-0.012}$ | 0.016 |
| Fit bias                                     | —      | 0.001   | 0.01         | 0.07             | 0.003            | 0.002        | 0.005        |
| Detection asymmetry                           | —      | —       | —            | —                | 0.005            | 0.005        | 0.006        |
| Production asymmetry                          | —      | —       | —            | —                | —                | —            |              |
| | Quadratic sum of systematic uncertainties    | 0.025  | 0.013   | 0.19         | $^{+0.012}_{-0.013}$ | 0.020            | $^{+0.028}_{-0.027}$ | 0.025 |
| | Total uncertainties                          | 0.035  | 0.030   | 0.25         | $^{+0.016}_{-0.017}$ | 0.060            | 0.154        | 0.099        |