

| Source                        | $ \lambda^0 $ | $ \lambda^{\parallel}/\lambda^0 $ | $ \lambda^{\perp}/\lambda^0 $ | $ \lambda^S/\lambda^0 $ | $\phi_s^0$<br>[rad] | $\phi_s^{\parallel} - \phi_s^0$<br>[rad] | $\phi_s^{\perp} - \phi_s^0$<br>[rad] | $\phi_s^S - \phi_s^0$<br>[rad] |
|-------------------------------|---------------|-----------------------------------|-------------------------------|-------------------------|---------------------|--|--------------------------------------|--------------------------------|
| Total stat. uncertainty       | 0.058         | 0.12                              | 0.16                          | 0.12                    | 0.053               | 0.043                                    | 0.035                                | 0.061                          |
| Mass factorisation            | 0.010         | 0.04                              | 0.01                          | 0.03                    | 0.003               | 0.005                                    | 0.003                                | 0.016                          |
| $b$ -hadron background        | 0.002         | 0.01                              | –                             | 0.01                    | 0.003               | 0.001                                    | 0.001                                | 0.009                          |
| Ang. efficiency (reweighting) | –             | –                                 | –                             | 0.02                    | 0.001               | 0.002                                    | 0.001                                | 0.007                          |
| Ang. efficiency (stat.)       | 0.004         | 0.02                              | 0.01                          | 0.01                    | 0.004               | 0.007                                    | 0.005                                | 0.004                          |
| Decay-time resolution         | 0.006         | 0.01                              | –                             | 0.01                    | 0.003               | 0.002                                    | 0.001                                | 0.002                          |
| S-P coupling factors          | –             | –                                 | –                             | –                       | –                   | –  | –                                    | 0.006                          |
| Quadratic sum of syst.        | 0.013         | 0.05                              | 0.01                          | 0.04                    | 0.007               | 0.009                                    | 0.006                                | 0.021                          |