

Source of uncertainty	$\phi_s$ [rad]	$\Delta\Gamma_s$ [ps <sup>-1</sup> ]	$ A_0 ^2$	$ A_S ^2$	$ A_\perp ^2$	$\delta_{\parallel}$ [rad]	$\delta_{S\perp}$ [rad]	$\delta_\perp$ [rad]	$c\tau$ [ $\mu\text{m}$ ]
<i>ct</i> efficiency	0.002	0.0057	0.0015	—	0.0023	—	—	—	1.0
Angular efficiency	0.016	0.0021	0.0060	0.008	0.0104	0.674	0.14	0.66	0.8
Kaon $p_T$ weighting	0.014	0.0015	0.0094	0.020	0.0041	0.085	0.11	0.02	1.1
<i>ct</i> resolution	0.006	0.0021	0.0009	—	0.0008	0.004	—	0.02	2.9
Mistag distribution modelling	0.004	0.0003	0.0006	—	—	0.008	0.01	—	0.1
Flavour tagging	0.003	0.0003	—	—	—	0.006	0.02	—	—
Model bias	0.015	0.0012	0.0008	—	—	0.025	0.03	—	0.4
pdf modelling assumptions	0.006	0.0021	0.0016	0.002	0.0021	0.010	0.03	0.04	0.2
$ \lambda $ as a free parameter	0.015	0.0003	0.0001	0.005	0.0001	0.002	0.01	0.03	—
Tracker alignment	—	—	—	—	—	—	—	—	1.5
Total systematic uncertainty	0.031	0.0070	0.0114	0.022	0.0116	0.680	0.18	0.66	3.7
Statistical uncertainty	0.097	0.0134	0.0053	0.008	0.0075	0.081	0.17	0.36	2.9