

Observable	central $\pm$ CL $\equiv 1\sigma$	$\pm$ CL $\equiv 2\sigma$	$\pm$ CL $\equiv 3\sigma$
λ	$0.2272^{+0.0010}_{-0.0010}$	$+0.0020$ -0.0020	$+0.0030$ -0.0030
A	$0.809^{+0.014}_{-0.014}$	$+0.029$ -0.028	$+0.044$ -0.042
$\bar{\rho}$	$0.197^{+0.026}_{-0.030}$	$+0.050$ -0.087	$+0.074$ -0.133
$\bar{\eta}$	$0.339^{+0.019}_{-0.018}$	$+0.047$ -0.037	$+0.075$ -0.057
J [10^{-5}]	$3.05^{+0.18}_{-0.18}$	$+0.45$ -0.36	$+0.69$ -0.54
$\sin 2(\alpha)$	$-0.25^{+0.17}_{-0.15}$	$+0.49$ -0.28	$+0.71$ -0.42
$\sin 2(\alpha)$ (meas. not in fit)	$-0.23^{+0.55}_{-0.16}$	$+0.72$ -0.32	$+0.83$ -0.45
$\sin 2(\beta)$	$0.716^{+0.024}_{-0.024}$	$+0.048$ -0.049	$+0.074$ -0.075
$\sin 2(\beta)$ (meas. not in fit)	$0.752^{+0.057}_{-0.035}$	$+0.105$ -0.073	$+0.135$ -0.112
α (deg)	$97.3^{+4.5}_{-5.0}$	$+8.7$ -14.0	$+13.7$ -20.7
α (deg) (meas. not in fit)	$96.5^{+4.9}_{-16.0}$	$+9.9$ -21.2	$+14.6$ -25.3
α (deg) (dir. meas.)	$100.2^{+15.0}_{-8.8}$	$+22.7$ -18.2	$+22.7$ -28.2
β (deg)	$22.86^{+1.00}_{-1.00}$	$+2.03$ -1.97	$+3.22$ -2.93
β (deg) (meas. not in fit)	$24.4^{+2.6}_{-1.5}$	$+5.1$ -3.0	$+6.9$ -4.5
β (deg) (dir. meas.)	$21.7^{+1.3}_{-1.2}$	$+2.6$ -2.4	$+4.1$ -3.6
$\gamma \simeq \delta$ (deg)	$59.8^{+4.9}_{-4.1}$	$+13.9$ -7.9	$+20.8$ -12.1
$\gamma \simeq \delta$ (deg) (meas. not in fit)	$59.8^{+4.9}_{-4.2}$	$+14.1$ -8.0	$+21.0$ -12.3
$\gamma \simeq \delta$ (deg) (dir. meas.)	62^{+35}_{-25}	$+61$ -39	$+61$ -39
$\sin \theta_{12}$	$0.2272^{+0.0010}_{-0.0010}$	$+0.0020$ -0.0020	$+0.0030$ -0.0030
$\sin \theta_{13}$ [10^{-3}]	$3.82^{+0.15}_{-0.15}$	$+0.31$ -0.30	$+0.49$ -0.44
$\sin \theta_{23}$ [10^{-3}]	$41.78^{+0.63}_{-0.63}$	$+1.26$ -1.26	$+1.90$ -1.89
R_u	$0.391^{+0.015}_{-0.015}$	$+0.031$ -0.029	$+0.049$ -0.044
R_t	$0.872^{+0.033}_{-0.028}$	$+0.095$ -0.054	$+0.143$ -0.082
Δm_d (ps^{-1}) (meas. not in fit)	$0.394^{+0.097}_{-0.097}$	$+0.219$ -0.132	$+0.361$ -0.162
Δm_s (ps^{-1})	$17.34^{+0.49}_{-0.20}$	$+0.65$ -0.35	$+0.78$ -0.49
Δm_s (ps^{-1}) (meas. not in fit)	$21.7^{+5.9}_{-4.2}$	$+9.7$ -6.8	$+13.1$ -9.1
ϵ_K [10^{-3}] (meas. not in fit)	$2.46^{+0.63}_{-0.88}$	$+1.05$ -1.05	$+1.50$ -1.20
f_{B_d} (MeV) (lattice value not in fit)	183^{+10}_{-10}	$+21$ -20	$+34$ -28
B_K (lattice value not in fit)	1 $0.722^{+0.251}_{-0.084}$	$+0.348$ -0.157	$+0.461$ -0.216
m_c (GeV/c^2) (meas. not in fit)	$0.81^{+0.93}_{-0.36}$	$+1.08$ -0.36	$+1.23$ -0.36
m_t (GeV/c^2) (meas. not in fit)	150^{+27}_{-21}	$+57$ -35	$+79$ -46

Table 1: *Fit results.*

Observable	central $\pm$ CL $\equiv 1\sigma$	$\pm$ CL $\equiv 2\sigma$	$\pm$ CL $\equiv 3\sigma$
$\mathcal{B}(B^+ \rightarrow \tau^+ \nu_\mu)$ $[10^{-5}]$	$9.7^{+1.3}_{-1.3}$	$+2.9$ -2.5	$+4.6$ -3.6
$\mathcal{B}(B^+ \rightarrow \mu^+ \nu_\mu)$ $[10^{-7}]$	$4.32^{+0.58}_{-0.57}$	$+1.27$ -1.12	$+2.05$ -1.62
$ V_{ud} $	$0.97383^{+0.00024}_{-0.00023}$	$+0.00047$ -0.00047	$+0.00071$ -0.00071
$ V_{us} $	$0.2272^{+0.0010}_{-0.0010}$	$+0.0020$ -0.0020	$+0.0030$ -0.0030
$ V_{ub} $ $[10^{-3}]$	$3.82^{+0.15}_{-0.15}$	$+0.31$ -0.29	$+0.49$ -0.44
$ V_{ub} $ $[10^{-3}]$ (meas. not in fit)	$3.64^{+0.19}_{-0.18}$	$+0.39$ -0.36	$+0.60$ -0.55
$ V_{cd} $	$0.22712^{+0.00099}_{-0.00103}$	$+0.00199$ -0.00205	$+0.00300$ -0.00307
$ V_{cs} $	$0.97297^{+0.00024}_{-0.00023}$	$+0.00048$ -0.00047	$+0.00071$ -0.00071
$ V_{cb} $ $[10^{-3}]$	$41.79^{+0.63}_{-0.63}$	$+1.26$ -1.27	$+1.89$ -1.90
$ V_{cb} $ $[10^{-3}]$ (meas. not in fit)	$44.9^{+1.2}_{-2.8}$	$+2.4$ -5.7	$+3.8$ -7.7
$ V_{td} $ $[10^{-3}]$	$8.28^{+0.33}_{-0.29}$	$+0.92$ -0.57	$+1.38$ -0.86
$ V_{ts} $ $[10^{-3}]$	$41.13^{+0.63}_{-0.62}$	$+1.25$ -1.24	$+1.87$ -1.86
$ V_{tb} $	$0.999119^{+0.000026}_{-0.000027}$	$+0.000052$ -0.000054	$+0.000078$ -0.000082
$ V_{td}/V_{ts} $	$0.2011^{+0.0081}_{-0.0065}$	$+0.0230$ -0.0127	$+0.0345$ -0.0195
$ V_{ud}V_{ub}^* $ $[10^{-3}]$	$3.72^{+0.15}_{-0.14}$	$+0.30$ -0.29	$+0.48$ -0.43
$\arg[V_{ud}V_{ub}^*]$ (deg)	$59.8^{+4.9}_{-4.0}$	$+13.9$ -7.8	$+20.9$ -12.1
$\arg[-V_{ts}V_{tb}^*]$ (deg)	$1.043^{+0.061}_{-0.057}$	$+0.151$ -0.114	$+0.238$ -0.176
$ V_{cd}V_{cb}^* $ $[10^{-3}]$	$9.49^{+0.15}_{-0.15}$	$+0.30$ -0.30	$+0.45$ -0.45
$\arg[-V_{cd}V_{cb}^*]$ (deg)	$0.0339^{+0.0021}_{-0.0020}$	$+0.0050$ -0.0040	$+0.0077$ -0.0060
$ V_{td}V_{tb}^* $ $[10^{-3}]$	$8.27^{+0.33}_{-0.29}$	$+0.93$ -0.57	$+1.38$ -0.85
$\arg[V_{td}V_{tb}^*]$ (deg)	$-22.84^{+1.00}_{-0.99}$	$+1.98$ -2.02	$+2.93$ -3.21
$\text{Re}\lambda_c$	$-0.22098^{+0.00095}_{-0.00091}$	$+0.00188$ -0.00184	$+0.00282$ -0.00275
$\text{Im}\lambda_c$ $[10^{-4}]$	$-1.377^{+0.080}_{-0.084}$	$+0.161$ -0.203	$+0.244$ -0.310
$\text{Re}\lambda_t$ $[10^{-4}]$	$-3.11^{+0.13}_{-0.14}$	$+0.26$ -0.36	$+0.39$ -0.57
$\text{Im}\lambda_t$ $[10^{-4}]$	$1.377^{+0.084}_{-0.080}$	$+0.203$ -0.161	$+0.310$ -0.244
β_s (deg)	$1.045^{+0.061}_{-0.057}$	$+0.151$ -0.114	$+0.238$ -0.177
$\sin(2\beta_s)$	$0.0365^{+0.0021}_{-0.0020}$	$+0.0053$ -0.0040	$+0.0083$ -0.0062

Table 2: *Fit results.*