Parameter	Value ± Error(s)	Reference	Errors GS	Errors TH
$\|V_{ud}\|$ (neutrons)	$0.9717 \pm 0.0013 \pm 0.0004$	(see text)	$\star$	$\star$
$\|V_{ud}\|$ (nuclei)	$0.9740 \pm 0.0001 \pm 0.0008$	(see text)	$\star$	$\star$
$\|V_{ud}\|$ (pions)	$0.9765 \pm 0.0055 \pm 0.0005$	[66]	$\star$	$\star$
$\|V_{us}\|$	$0.2228 \pm 0.0039 \pm 0.0018$	[199]	$\star$	$\star$
$\|V_{ub}\|$ (average)	$(3.90 \pm 0.08 \pm 0.68) \times 10^{-3}$	[199,62]	$\star$	$\star$
$\|V_{cd}\|$	0.224 ± 0.014	[199]	$\star$	$\star$
$\|V_{cs}\|$	1.04 ± 0.16	[199]	$\star$	$\star$
$\|V_{cb}\|$ (incl.)	$(42.0 \pm 0.6 \pm 0.8) \times 10^{-3}$	[199]	$\star$	$\star$
$\|V_{cb}\|$ (excl.)	$40.2\,^{+2.1}_{-1.8} \times 10^{-3}$	[62,101]	$\star$	-
$\|\varepsilon_K\|$	$(2.282 \pm 0.017) \times 10^{-03}$	[129]	$\star$	-
Δm_d	$(0.502 \pm 0.006)\ \mathrm{ps}^{-1}$	[62]	$\star$	-
Δm_s	Amplitude spectrum	[62]	$\star$	-
$\sin 2\beta_{\mathrm{WA}}$	0.739 ± 0.048	[62]	$\star$	-
$S_{\rho\rho,\,\mathrm{long}}$	-0.19 ± 0.35	see text	$\star$	-
$C_{\rho\rho,\,\mathrm{long}}$	-0.23 ± 0.28	see text	$\star$	-
$\mathcal{B}_{\rho\rho,\,\mathrm{long}}$ all charges	see text	see text	$\star$	-
$\overline{m}_c(m_c)$	$(1.2 \pm 0.2)\ \mathrm{GeV}/c^2$	[9]	-	$\star$
$m_t(\overline{\mathrm{MS}})$	$(167.0 \pm 5.0)\ \mathrm{GeV}/c^2$	[9]	$\star$	-
m_K	$(493.677 \pm 0.016)\ \mathrm{MeV}/c^2$	[9]	-	-
Δm_K	$(3.490 \pm 0.006) \times 10^{-12}\ \mathrm{MeV}/c^2$	[9]	-	-
m_{B_d}	$(5.2794 \pm 0.0005)\ \mathrm{GeV}/c^2$	[9]	-	-
m_{B_s}	$(5.3696 \pm 0.0024)\ \mathrm{GeV}/c^2$	[9]	-	-
m_W	$(80.423 \pm 0.039)\ \mathrm{GeV}/c^2$	[9]	-	-
G_F	$1.16639 \times 10^{-5}\ \mathrm{GeV}^{-2}$	[9]	-	-
f_K	$(159.8 \pm 1.5)\ \mathrm{MeV}$	[9]	-	-
B_K	$0.86 \pm 0.06 \pm 0.14$	[136]	$\star$	$\star$
$\alpha_s(M_Z^2)$ (in η_{cc})	0.1172 ± 0.0020	[9]	-	$\star$
η_{ct}	0.47 ± 0.04	[135]	-	$\star$
η_{tt}	0.5765 ± 0.0065	[135]	-	-
$\eta_B(\overline{\mathrm{MS}})$	0.55 ± 0.01	[137]	-	$\star$
$f_{B_d}\sqrt{B_d}$	$(228 \pm 30 \pm 10)\ \mathrm{MeV}$	[200]	$\star$	$\star$
ξ	$1.21 \pm 0.04 \pm 0.05$	[200]	$\star$	$\star$
$B \to \rho\rho$ amplitude params.	all floating	see text	-	$\star$

Table 1: *Inputs to the Standard CKM Fit. If not stated otherwise: for two errors given, the first is statistical and accountable systematic and the second stands for systematic theoretical uncertainties. The fourth and fifth columns indicate the treatment of the input parameters within* R*fit: measurements or parameters that have experimental errors are marked as Gaussian "GS" by an asterisk; measurements or parameters that have systematic theoretical uncertainties, treated as ranges in* R*fit, are marked as theoretical "TH" by an asterisk. Upper part: experimental determinations of the CKM matrix elements. Middle upper part: CP-violating and mixing observables. Middle lower part: parameters of the SM predictions obtained from experimental data. Lower part: parameters of the SM predictions obtained from theory.*