Parameter	Value $\pm$ Error(s)	Reference(s)	Error treatment in Rfit: Gauss.	Theo.	Prop.	Float.
$\|V_{ud}\|$	0.97394 ± 0.00089	[hep-ph/0104062]	*	-	-	-
$\|V_{us}\|$	0.2200 ± 0.0025	[hep-ph/0104062]	*	-	-	-
$\|V_{ub}\|$	$(3.49 \pm 0.23 \pm 0.55) \times 10^{-3}$	[hep-ph/0104062]	*	*	-	*
$\|V_{cd}\|$	0.224 ± 0.014	[hep-ph/0104062]	*	-	-	-
$\|V_{cs}\|$	0.969 ± 0.058	[hep-ph/0104062]	*	-	-	-
$\|V_{cb}\|$	$(40.4 \pm 1.3 \pm 0.9) \times 10^{-3}$	[hep-ph/0104062]	*	*	-	*
$\|\epsilon_K\|$	$(2.271 \pm 0.017) \times 10^{-03}$	[hep-ph/0104062]	*	-	-	-
Δm_d	$(0.489 \pm 0.008)\ \mathrm{ps}^{-1}$	[LEPWG'01]	*	-	-	-
Δm_s	Amplitude spectrum	[Lepton-Photon'01]	*	-	-	-
$\sin 2\beta_{\mathrm{WA}}$	0.79 ± 0.10	[Lepton-Photon'01]	*	-	-	-
m_c	(1.3 ± 0.1) GeV	[PDG'00]	-	*	-	*
$m_t(\overline{\mathrm{MS}})$	(166.0 ± 5.0) GeV	[PDG'00]	*	-	-	*
m_K	(493.677 ± 0.016) MeV	[PDG'00]	-	-	*	-
Δm_K	$(3.4885 \pm 0.0008) \times 10^{-15}$ GeV	[PDG'00]	-	-	*	-
m_{B_d}	(5.2794 ± 0.0005) GeV	[PDG'00]	-	-	*	-
m_{B_s}	(5.3696 ± 0.0024) GeV	[PDG'00]	-	-	*	-
m_W	(80.419 ± 0.056) GeV	[PDG'00]	-	-	*	-
G_F	$(1.16639 \pm 0.00001) \times 10^{-5}\ \mathrm{GeV}^{-2}$	[PDG'00]	-	-	-	-
f_K	(159.8 ± 1.5) MeV	[PDG'00]	-	-	*	-
B_K	$0.87 \pm 0.06 \pm 0.13$	[hep-ph/0104062]	*	*	-	*
η_{cc}	1.38 ± 0.53	[hep-ph/0104062]	-	*	-	*
η_{ct}	0.47 ± 0.04	[hep-ph/0104062]	-	-	*	-
η_{tt}	0.574 ± 0.004	[hep-ph/0104062]	-	-	*	-
$\eta_B(\overline{\mathrm{MS}})$	0.55 ± 0.01	[hep-ph/0104062]	-	*	-	*
$f_{B_d}\sqrt{B_d}$	$(230 \pm 28 \pm 28)$ MeV	[hep-ph/0104062]	*	*	-	*
ξ	$1.16 \pm 0.03 \pm 0.05$	[hep-ph/0104062]	*	*	-	*

Table 1: *Inputs to the global 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, fifth and sixth columns indicate the treatment of the parameters within* Rfit*: measurements dominated by experimental errors (or statistical components of theoretical parameters) are marked as "Gauss." by an asterisk; parameters dominated by systematic theoretical uncertainties, treated as ranges in* Rfit*, are marked as "Theo."; for parameters that have experimental and systematic theoretical errors, treated in the fit according to Eq. (61), both fields, "Exp." and "Theo.", are marked; parameters with small errors, marked as "Prop.", have their uncertainties propagated to the corresponding measurements to whose errors they are added in quadrature. The last column indicates whether or not the parameter is floating in the fit. In general, measurements with non-vanishing systematic theoretical errors have a floating theoretical component. Theoretical parameters with significant errors are necessarily floating.* 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.*

Parameter	$\geq 32\%$ CL	half width	$\geq 5\%$ CL	half width	δ_{32}	δ_5
λ	0.2221 ± 0.0021		0.2221 ± 0.0041		0	0
A	0.789 - 0.880	0.046	0.763 - 0.905	0.071	2	1
$\bar{\rho}$	0.11 - 0.34	0.11	0.07 - 0.37	0.15	21	12
$\bar{\eta}$	0.29 - 0.45	0.08	0.26 - 0.49	0.12	33	14
J $[10^{-5}]$	2.4 - 3.5	0.6	2.2 - 3.7	0.8	25	11
$\sin2\alpha$	-0.77 - 0.38	0.57	-0.90 - 0.51	0.70	12	3
$\sin2\beta$	0.69 - 0.85	0.08	0.59 - 0.88	0.14	56	33
α	79° - 115°	18°	75° - 122°	24°	27	12
β	21.8° - 29.1°	3.7°	18.1° - 30.8°	6.9°	59	25
$\gamma = \delta$	42° - 75°	17°	37° - 80°	22°	16	8
$\sin\theta_{12}$	0.2221 ± 0.0021		0.2221 ± 0.0041		0	0
$\sin\theta_{13}$ $[10^{-3}]$	3.31 - 4.29	0.49	2.82 - 4.52	0.85	38	18
$\sin\theta_{23}$ $[10^{-3}]$	38.2 - 42.6	2.2	37.0 - 43.7	3.4	0	0
$\lvert V_{ud}\rvert$	0.97504 ± 0.00049		0.97504 ± 0.00094		0	0
$\lvert V_{us}\rvert$	0.2221 ± 0.0021		0.2221 ± 0.0042		0	0
$\lvert V_{ub}\rvert$ $[10^{-3}]$	3.31 - 4.29	0.49	2.81 - 4.52	0.85	38	18
$\lvert V_{cd}\rvert$	0.2220 ± 0.0021		0.2220 ± 0.0041		0	0
$\lvert V_{cs}\rvert$	0.97423 ± 0.00054		0.97423 ± 0.00101		13	4
$\lvert V_{cb}\rvert$ $[10^{-3}]$	38.2 - 42.6	2.2	37.0 - 43.8	3.4	0	0
$\lvert V_{td}\rvert$ $[10^{-3}]$	6.6 - 8.9	1.1	6.3 - 9.2	1.5	15	6
$\lvert V_{ts}\rvert$ $[10^{-3}]$	37.6 - 42.1	2.2	36.4 - 43.3	3.4	4	3
$\lvert V_{tb}\rvert$	0.99909 - 0.99927	09×10^{-5}	0.99904 - 0.99932	14×10^{-5}	0	0
Δm_s (ps^{-1})	15.4 - 28.1	6.4	14.6 - 32.0	8.7	15	7
$\mathrm{BR}(K_L^0 \to \pi^0\nu\bar{\nu})$ $[10^{-11}]$	1.9 - 4.0	1.1	1.6 - 4.4	1.5	21	6
$\mathrm{BR}(K^+ \to \pi^+\nu\bar{\nu})$ $[10^{-11}]$	5.1 - 8.5	1.7	4.8 - 9.4	2.3	17	14
$\mathrm{BR}(B^+ \to \tau^+\nu_\tau)$ $[10^{-5}]$	8.2 - 20.0	5.8	5.6 - 23.8	9.1	25	10
$\mathrm{BR}(B^+ \to \mu^+\nu_\mu)$ $[10^{-7}]$	3.2 - 7.8	2.3	2.2 - 9.4	3.6	29	10
$f_{B_d}\sqrt{B_d}$ (MeV)	201 - 271	35	192 - 284	46	10	4
B_K	0.58 - 1.35	0.39	0.52 - 1.68	0.58	-	-
m_t (GeV)	109 - 307	99	95 - 405	155	31	34

Table 2: *Fit results for the unitary CKM parameters, the CKM matrix elements, branching ratios of some rare K and B meson decays and theoretical quantities, including the world average* $\sin2\beta_{\mathrm{WA}}$ *in the fit. Ranges are given for the quantities that are limited by systematic theoretical errors. The theoretical quantities (last three lines) are constrained without using the prior information available from lattice, or experiment (m_t). The two right columns give the relative improvements (in percent) of the* $\geq 32\%$ CL *and* $\geq 5\%$ CL *half widths with respect to the fit results without* $\sin2\beta$.

Parameter	$\geq$ 32% CL	half width	$\geq$ 5% CL	half width	δ_{32}	δ_5
$\bar{\rho}$	0.13 - 0.28	0.07	0.09 - 0.32	0.12	36	20
$\bar{\eta}$	0.32 - 0.45	0.07	0.27 - 0.48	0.11	12	8
J [10^{-5}]	2.4 - 3.5	0.6	2.2 - 3.7	0.8	0	0
sin2α	-0.44 - 0.28	0.36	-0.71 - 0.43	0.57	37	19
sin2β	0.69 - 0.85	0.08	0.59 - 0.88	0.14	0	0
α	82° - 103°	11°	77° - 113°	18°	39	25
β	21.8° - 29.1°	3.7°	18.1° - 30.8°	6.9°	0	0
$\gamma = \delta$	53° - 71°	9°	46° - 77°	15°	47	32

Table 3: *Selected fit results including the world average* sin$2\beta_{\rm WA}$ *in the fit and using the likelihood ratio for the statistical interpretation of the* Δm_s *amplitude spectrum. The two right columns give the relative improvements (in percent) of the* $\geq$ 32% CL *and* $\geq$ 5% CL *half widths with respect to the fit results using a conservative amplitude* χ^2.