Table 1: Results from unitarity unconstrained fit.

τ^- decay		Branching Ratios (%)	Correlations and Weights (%)	
$\mathrm{B_e}$	=	17.818 $\pm$ 0.041	[Corr. with $\mathrm{B_\mu}$, $\mathrm{B_\pi}$, $\mathrm{B_K}$, $\mathrm{B_{strange}}$, $\mathrm{B_{total}}$] =	[22.61 , 5.41 , 5.16 , 0.15 , 20.77]
$\mathrm{B_\mu}$	=	17.393 $\pm$ 0.040	[Corr. with $\mathrm{B_e}$, $\mathrm{B_\pi}$, $\mathrm{B_K}$, $\mathrm{B_{strange}}$, $\mathrm{B_{total}}$] =	[22.61 , 7.44 , 2.56 , 0.04 , 21.80]
$\mathrm{B_\pi}$	=	10.811 $\pm$ 0.053	[Corr. with $\mathrm{B_e}$, $\mathrm{B_\mu}$, $\mathrm{B_K}$, $\mathrm{B_{strange}}$, $\mathrm{B_{total}}$] =	[5.41 , 7.44 , 0.74 , 1.47 , 22.39]
$\mathrm{B_K}$	=	0.696 $\pm$ 0.010	[Corr. with $\mathrm{B_e}$, $\mathrm{B_\mu}$, $\mathrm{B_\pi}$, $\mathrm{B_{strange}}$, $\mathrm{B_{total}}$] =	[5.16 , 2.56 , 0.74 , 17.37 , 4.68]
$\mathrm{B_{strange}}$	=	2.860 $\pm$ 0.052	[Corr. with $\mathrm{B_e}$, $\mathrm{B_\mu}$, $\mathrm{B_\pi}$, $\mathrm{B_K}$, $\mathrm{B_{total}}$] =	[0.15 , 0.04 , 1.47 , 17.37 , 22.85]
$\mathrm{B_{total}}$	=	99.928 $\pm$ 0.111	[Note: this is used to calculate $\mathrm{B_{non-strange}}$ = $\mathrm{B_{total}}$ - $\mathrm{B_{strange}}$ - $\mathrm{B_{leptonic}}$]	
$\mathrm{B_e}$ (from $\mathrm{B_\mu}$)	=	17.884 $\pm$ 0.041	[Corr. with $\mathrm{B_e}$ from ($\mathrm{B_e}$, τ_τ, $\mathrm{B_\pi}$, $\mathrm{B_K}$)] =	[22.61 , -0.03 , 7.13 , 2.47]
$\mathrm{B_e}$ (from τ_τ)	=	17.794 $\pm$ 0.062	[Corr. with $\mathrm{B_e}$ from ($\mathrm{B_e}$, $\mathrm{B_\mu}$, $\mathrm{B_\pi}$, $\mathrm{B_K}$)] =	[0.00 , -0.03 , 0.40 , 0.12]
$\mathrm{B_e}$ (from $\mathrm{B_\pi}$)	=	17.641 $\pm$ 0.090	[Corr. with $\mathrm{B_e}$ from ($\mathrm{B_e}$, $\mathrm{B_\mu}$, τ_τ, $\mathrm{B_K}$)] =	[5.20 , 7.13 , 0.40 , 0.72]
$\mathrm{B_e}$ (from $\mathrm{B_K}$)	=	17.282 $\pm$ 0.248	[Corr. with $\mathrm{B_e}$ from ($\mathrm{B_e}$, $\mathrm{B_\mu}$, τ_τ, $\mathrm{B_\pi}$)] =	[4.98 , 2.47 , 0.12 , 0.72]
$\langle \mathrm{B_e} \rangle_{\mathrm{(univ3)}}$	=	17.839 $\pm$ 0.028	[Weights for $\mathrm{B_e}$ from ($\mathrm{B_e}$, $\mathrm{B_\mu}$, τ_τ)] =	[39.24 , 39.62 , 21.14]
$\langle \mathrm{B_e} \rangle_{\mathrm{(univ4)}}$	=	17.824 $\pm$ 0.028	[Weights for $\mathrm{B_e}$ from ($\mathrm{B_e}$, $\mathrm{B_\mu}$, τ_τ, $\mathrm{B_\pi}$)] =	[36.4 , 36.35 , 19.89 , 7.35]
$\langle \mathrm{B_e} \rangle_{\mathrm{(univ5)}}$	=	17.820 $\pm$ 0.027	[Weights for $\mathrm{B_e}$ from ($\mathrm{B_e}$, $\mathrm{B_\mu}$, τ_τ, $\mathrm{B_\pi}$, $\mathrm{B_K}$)] =	[36.02 , 36.12 , 19.79 , 7.31 , 0.76]
$\mathrm{B_{had}} = \mathrm{B_{total}} - (1 + (\mathrm{f_\mu/f_e})) \times \langle \mathrm{B_e} \rangle_{\mathrm{univ5}}$	=	64.777 $\pm$ 0.109	$\mathrm{B_{had}}/\langle \mathrm{B_e} \rangle_{\mathrm{univ5}}$ = 3.6351 $\pm$ 0.0091	$\lvert V_{us} \rvert$ = 0.2166 $\pm$ 0.0023
$\mathrm{B_{strange}}/\langle \mathrm{B_e} \rangle_{\mathrm{univ5}}$	=	0.1605 $\pm$ 0.0029	$\mathrm{B_{non-strange}}/\langle \mathrm{B_e} \rangle_{\mathrm{univ5}}$ = 3.4746 $\pm$ 0.0090	$\mathrm{B_K/B_\pi}$ = 0.0644 $\pm$ 0.0009
$(\mathrm{B_\pi})_{univ}$	=	10.905 $\pm$ 0.041	$(\mathrm{g_\tau/g_\mu})_\pi$ = 0.9957 $\pm$ 0.0031	$\lvert V_{us} \rvert_{\mathrm{B_K/B_\pi}}$ = 0.2239 $\pm$ 0.0022
$(\mathrm{B_K})_{univ}$	=	0.717 $\pm$ 0.004	$(\mathrm{g_\tau/g_\mu})_{\mathrm{K}}$ = 0.9855 $\pm$ 0.0073	$\lvert V_{us} \rvert_{\mathrm{B_K}}$ = 0.2203 $\pm$ 0.0032
$\mathrm{B_\mu}$ (from τ_τ)	=	17.305 $\pm$ 0.060	$(\mathrm{g_\tau/g_e})_\mu$ = 1.0025 $\pm$ 0.0021	$(\mathrm{g_\tau/g_\mu})_{\mathrm{e}}$ = 1.0007 $\pm$ 0.0021
$\langle (\mathrm{g_\tau/g_\mu}) \rangle_{\pi,\mathrm{K}}$	=	0.9946 $\pm$ 0.0029	[Weights for $()_\pi$, $()_{\mathrm{K}}$] = [88.76 , 11.24]	Corr. [$()_{\pi\mathrm{K}}$] = [13.72]
$\langle (\mathrm{g_\tau/g_\mu}) \rangle_{\pi,\mathrm{K,e}}$	=	0.9996 $\pm$ 0.0020	[Weights for $()_\pi$, $()_{\mathrm{K}}$, $()_{\mathrm{e}}$] = [15.98 , 1.65 , 82.37]	Corr. [$()_{\pi\mathrm{e}}$, $()_{\mathrm{Ke}}$] = [49.21 , 22.20]
$(\mathrm{B_\mu/B_e})$	=	0.9761 $\pm$ 0.0028	$(\mathrm{f_\mu/f_e})$ = 0.972558 $\pm$ 0.000005	$(\mathrm{g_\mu/g_e})$ = 1.0018 $\pm$ 0.0014

Table 2: Results from unitarity constrained fit.

τ^- decay		Branching Ratios (%)	Correlations and Weights (%)	
$\mathrm{B_e}$	=	17.824 $\pm$ 0.040	[Corr. with $\mathrm{B_\mu}$, $\mathrm{B_\pi}$, $\mathrm{B_K}$, $\mathrm{B_{strange}}$, $\mathrm{B_{total}}$] =	[18.95 , 0.80 , 4.29 , -4.83 , -0.00]
$\mathrm{B_\mu}$	=	17.399 $\pm$ 0.039	[Corr. with $\mathrm{B_e}$, $\mathrm{B_\pi}$, $\mathrm{B_K}$, $\mathrm{B_{strange}}$, $\mathrm{B_{total}}$] =	[18.95 , 2.69 , 1.58 , -5.20 , -0.00]
$\mathrm{B_\pi}$	=	10.819 $\pm$ 0.051	[Corr. with $\mathrm{B_e}$, $\mathrm{B_\mu}$, $\mathrm{B_K}$, $\mathrm{B_{strange}}$, $\mathrm{B_{total}}$] =	[0.80 , 2.69 , -0.31 , -3.84 , 0.00]
$\mathrm{B_K}$	=	0.697 $\pm$ 0.010	[Corr. with $\mathrm{B_e}$, $\mathrm{B_\mu}$, $\mathrm{B_\pi}$, $\mathrm{B_{strange}}$, $\mathrm{B_{total}}$] =	[4.29 , 1.58 , -0.31 , 16.77 , 0.00]
$\mathrm{B_{strange}}$	=	2.868 $\pm$ 0.050	[Corr. with $\mathrm{B_e}$, $\mathrm{B_\mu}$, $\mathrm{B_\pi}$, $\mathrm{B_K}$, $\mathrm{B_{total}}$] =	[-4.83 , -5.20 , -3.84 , 16.77 , 0.00]
$\mathrm{B_{total}}$	=	100.000 $\pm$ 0.000	[Note: this is used to calculate $\mathrm{B_{non-strange}}$ = $\mathrm{B_{total}}$ - $\mathrm{B_{strange}}$ - $\mathrm{B_{leptonic}}$]	
$\mathrm{B_e}$ (from $\mathrm{B_\mu}$)	=	17.890 $\pm$ 0.040	[Corr. with $\mathrm{B_e}$ from ($\mathrm{B_e}$, τ_τ, $\mathrm{B_\pi}$, $\mathrm{B_K}$)] =	[18.95 , -0.03 , 2.57 , 1.53]
$\mathrm{B_e}$ (from τ_τ)	=	17.794 $\pm$ 0.062	[Corr. with $\mathrm{B_e}$ from ($\mathrm{B_e}$, $\mathrm{B_\mu}$, $\mathrm{B_\pi}$, $\mathrm{B_K}$)] =	[0.00 , -0.03 , 0.41 , 0.12]
$\mathrm{B_e}$ (from $\mathrm{B_\pi}$)	=	17.653 $\pm$ 0.088	[Corr. with $\mathrm{B_e}$ from ($\mathrm{B_e}$, $\mathrm{B_\mu}$, τ_τ, $\mathrm{B_K}$)] =	[0.77 , 2.57 , 0.41 , -0.26]
$\mathrm{B_e}$ (from $\mathrm{B_K}$)	=	17.289 $\pm$ 0.247	[Corr. with $\mathrm{B_e}$ from ($\mathrm{B_e}$, $\mathrm{B_\mu}$, τ_τ, $\mathrm{B_\pi}$)] =	[4.14 , 1.53 , 0.12 , -0.26]
$\langle \mathrm{B_e} \rangle_{\mathrm{(univ3)}}$	=	17.844 $\pm$ 0.028	[Weights for $\mathrm{B_e}$ from ($\mathrm{B_e}$, $\mathrm{B_\mu}$, τ_τ)] =	[39.76 , 40.35 , 19.89]
$\langle \mathrm{B_e} \rangle_{\mathrm{(univ4)}}$	=	17.828 $\pm$ 0.026	[Weights for $\mathrm{B_e}$ from ($\mathrm{B_e}$, $\mathrm{B_\mu}$, τ_τ, $\mathrm{B_\pi}$)] =	[36.56 , 36.69 , 18.26 , 8.49]
$\langle \mathrm{B_e} \rangle_{\mathrm{(univ5)}}$	=	17.824 $\pm$ 0.026	[Weights for $\mathrm{B_e}$ from ($\mathrm{B_e}$, $\mathrm{B_\mu}$, τ_τ, $\mathrm{B_\pi}$, $\mathrm{B_K}$)] =	[36.15 , 36.44 , 18.15 , 8.45 , 0.8]
$\mathrm{B_{had}} = \mathrm{B_{total}} - (1 + (\mathrm{f_\mu/f_e})) \times \langle \mathrm{B_e} \rangle_{\mathrm{univ5}}$	=	64.842 $\pm$ 0.052	$\mathrm{B_{had}}/\langle \mathrm{B_e} \rangle_{\mathrm{univ5}}$ = 3.6380 $\pm$ 0.0083	$\lvert V_{us} \rvert$ = 0.2168 $\pm$ 0.0022
$\mathrm{B_{strange}}/\langle \mathrm{B_e} \rangle_{\mathrm{univ5}}$	=	0.1609 $\pm$ 0.0028	$\mathrm{B_{non-strange}}/\langle \mathrm{B_e} \rangle_{\mathrm{univ5}}$ = 3.4771 $\pm$ 0.0084	$\mathrm{B_K/B_\pi}$ = 0.0644 $\pm$ 0.0009
$(\mathrm{B_\pi})_{univ}$	=	10.905 $\pm$ 0.041	$(\mathrm{g_\tau/g_\mu})_\pi$ = 0.9961 $\pm$ 0.0030	$\lvert V_{us} \rvert_{\mathrm{B_K/B_\pi}}$ = 0.2239 $\pm$ 0.0022
$(\mathrm{B_K})_{univ}$	=	0.717 $\pm$ 0.004	$(\mathrm{g_\tau/g_\mu})_{\mathrm{K}}$ = 0.9857 $\pm$ 0.0073	$\lvert V_{us} \rvert_{\mathrm{B_K}}$ = 0.2203 $\pm$ 0.0032
$\mathrm{B_\mu}$ (from τ_τ)	=	17.305 $\pm$ 0.060	$(\mathrm{g_\tau/g_e})_\mu$ = 1.0027 $\pm$ 0.0021	$(\mathrm{g_\tau/g_\mu})_{\mathrm{e}}$ = 1.0008 $\pm$ 0.0021
$\langle (\mathrm{g_\tau/g_\mu}) \rangle_{\pi,\mathrm{K}}$	=	0.9949 $\pm$ 0.0029	[Weights for $()_\pi$, $()_{\mathrm{K}}$] = [88.97 , 11.03]	Corr. [$()_{\pi\mathrm{K}}$] = [13.18]
$\langle (\mathrm{g_\tau/g_\mu}) \rangle_{\pi,\mathrm{K,e}}$	=	0.9998 $\pm$ 0.0020	[Weights for $()_\pi$, $()_{\mathrm{K}}$, $()_{\mathrm{e}}$] = [17.17 , 1.68 , 81.15]	Corr. [$()_{\pi\mathrm{e}}$, $()_{\mathrm{Ke}}$] = [48.28 , 21.87]
$(\mathrm{B_\mu/B_e})$	=	0.9761 $\pm$ 0.0028	$(\mathrm{f_\mu/f_e})$ = 0.972558 $\pm$ 0.000005	$(\mathrm{g_\mu/g_e})$ = 1.0018 $\pm$ 0.0014

Using inputs from: all B-Factory and non-B-Factory measurements including all correlations.