### $K_L$ decay form factors [s]

$K^0_{e3}$ $\lambda_+ = 0.0300 \pm 0.0016$ (S = 1.2)
$K^0_{\mu 3}$ $\lambda_+ = 0.034 \pm 0.005$ (S = 2.3)
$K^0_{\mu 3}$ $\lambda_0 = 0.025 \pm 0.006$ (S = 2.3)
$K^0_{e3}$ $|f_S/f_+| < 0.04$, CL = 68%
$K^0_{e3}$ $|f_T/f_+| < 0.23$, CL = 68%
$K^0_{\mu 3}$ $|f_T/f_+| = 0.12 \pm 0.12$
$K_L \to e^+ e^- \gamma$: $\alpha_{K^*} = -0.28 \pm 0.08$

### *CP*-violation parameters [x]

$\delta = (0.327 \pm 0.012)\%$
$|\eta_{00}| = (2.259 \pm 0.023) \times 10^{-3}$ (S = 1.1)
$|\eta_{+-}| = (2.269 \pm 0.023) \times 10^{-3}$ (S = 1.1)
$|\eta_{00}/\eta_{+-}| = 0.9955 \pm 0.0023$ [aa] (S = 1.8)
$\epsilon'/\epsilon = (1.5 \pm 0.8) \times 10^{-3}$ [aa] (S = 1.8)
$\phi_{+-} = (44.3 \pm 0.8)^\circ$
$\phi_{00} = (43.3 \pm 1.3)^\circ$

### $\Delta S = -\Delta Q$ in $K^0_{\ell 3}$ decay

Re $x = 0.006 \pm 0.018$ (S = 1.3)
Im $x = -0.003 \pm 0.026$ (S = 1.2)

| $K^0_L$ DECAY MODES | | Fraction ($\Gamma_i/\Gamma$) | Scale factor/ Confidence level | $p$ (MeV/$c$) |
|---|---|---|---|---|
| $3\pi^0$ | | $(21.6 \pm 0.8)$ % | S=1.5 | 139 |
| $\pi^+\pi^-\pi^0$ | | $(12.38 \pm 0.21)$ % | S=1.5 | 133 |
| $\pi^\pm \mu^\mp \nu$ | [q] | $(27.0 \pm 0.4)$ % | S=1.3 | 216 |
| Called $K^0_{\mu 3}$. | | | | |
| $\pi^\pm e^\mp \nu$ | [q] | $(38.7 \pm 0.5)$ % | S=1.4 | 229 |
| Called $K^0_{e3}$. | | | | |
| $2\gamma$ | | $(5.73 \pm 0.27) \times 10^{-4}$ | S=2.0 | 249 |
| $\pi^0 2\gamma$ | [bb] | $(1.70 \pm 0.28) \times 10^{-6}$ | | 231 |
| $\pi^0 \pi^\pm e^\mp \nu$ | [q] | $(5.18 \pm 0.29) \times 10^{-5}$ | | 207 |
| $(\pi \mu \text{atom})\nu$ | | $(1.05 \pm 0.11) \times 10^{-7}$ | | 216 |
| $\pi^\pm e^\mp \nu_e \gamma$ | [q,u,bb] | $(1.3 \pm 0.8)$ % | | 229 |
| $\pi^+\pi^-\gamma$ | [u,bb] | $(4.61 \pm 0.14) \times 10^{-5}$ | | 206 |
| $\pi^0\pi^0\gamma$ | | $< 5.6 \times 10^{-6}$ | | – |