

Heavy Flavor Averaging Group
May 2004

Compilation of B^0 Semi-leptonic and Radiative Branching Fractions
All branching fractions are in units of 10^{-6}

In PDG2002 New since PDG2002 (preliminary) New since PDG2002 (published)

RPP#	Mode	PDG2002 Avg.	BaBar	Belle	CLEO	New Avg.
123	$K^*(892)^0\gamma$	43 ± 4	$42.3 \pm 4.0 \pm 2.2$	$40.1 \pm 2.1 \pm 1.7$	$45.5_{-6.8}^{+7.2} \pm 3.4$	41.1 ± 2.2
–	$K^*(1410)^0\gamma$	New		< 130		< 130
126	$K_2^*(1430)^0\gamma$	< 400	$12.2 \pm 2.5 \pm 1.1$	$13 \pm 5 \pm 1$		12.4 ± 2.4
130	$\rho^0\gamma$	< 17	< 1.2	< 0.9	< 17	< 0.9
131	$\omega\gamma$	< 9.2	< 1.0	< 3.0	< 9.2	< 1.00
–	$K^+\pi^-\gamma$ †	New		$4.6_{-1.2-0.7}^{+1.3+0.5}$		4.6 ± 1.4
–	$K^+\pi^-\gamma$ (N.R.) †	New		< 2.6		< 2.6
–	$K^0\phi\gamma$	New		< 8.3		< 8.3
184	$K^0e^+e^-$	< 2.7	$-0.21_{-0.16}^{+0.23} \pm 0.08$ ‡	$0.00_{-0.12-0.05}^{+0.20+0.02}$ ‡	< 8.45	$-0.06_{-0.10}^{+0.14}$
185	$K^0\mu^+\mu^-$	< 3.3	$1.63_{-0.63}^{+0.82} \pm 0.17$	$0.56_{-0.23}^{+0.29} \pm 0.05$	< 6.64	$0.73_{-0.25}^{+0.28}$
186	$K^*(892)^0e^+e^-$	< 6.4	$1.11_{-0.47}^{+0.56} \pm 0.12$	$1.29_{-0.49-0.10}^{+0.57+0.13}$		$1.20_{-0.35}^{+0.41}$
187	$K^*(892)^0\mu^+\mu^-$	< 4.2	$0.86_{-0.58}^{+0.79} \pm 0.12$	$1.33_{-0.37}^{+0.42} \pm 0.11$		$1.22_{-0.33}^{+0.39}$

† $1.25 \text{ GeV}/c^2 < M_{K\pi} < 1.6 \text{ GeV}/c^2$ ‡ Central values are not significant.