

Heavy Flavor Averaging Group -  $B^+$  Branching Fractions ( $\times 10^6$ ) - April 2005. (UL 90% CL)  
 In PDG2004    **New since PDG2004 (preliminary)**    **New since PDG2004 (published)**

RPP#	Mode	PDG2004 Avg.	BABAR	Belle	CLEO	CDF	New Avg.
117	$K^0\pi^+$	$18.8 \pm 2.1$	$26.0 \pm 1.3 \pm 1.0$	$22.0 \pm 1.9 \pm 1.1$	$18.8^{+3.7+2.1}_{-3.3-1.8}$		$24.1 \pm 1.3$
118	$K^+\pi^0$	$12.9 \pm 1.2$	$12.0 \pm 0.7 \pm 0.6$	$12.0 \pm 1.3^{+1.3}_{-0.9}$	$12.9^{+2.4+1.2}_{-2.2-1.1}$		$12.1 \pm 0.8$
119	$\eta'K^+$	$78 \pm 5$	$68.9 \pm 2.0 \pm 3.2$	$78 \pm 6 \pm 9$	$80^{+10}_{-9} \pm 7$		$70.8 \pm 3.4$
120	$\eta'K^{*+}$	$< 35$	$< 14$	$< 90$	$< 35$		$< 14$
121	$\eta K^+$	$< 6.9$	$3.3 \pm 0.6 \pm 0.3$	$2.1 \pm 0.6 \pm 0.2$	$2.2^{+2.8}_{-2.2}$		$2.6 \pm 0.5$
122	$\eta K^{*+}$	$26^{+10}_{-9}$	$25.6 \pm 4.0 \pm 2.4$	$22.8^{+3.7}_{-3.5} \pm 2.2$	$26.4^{+9.6}_{-8.2} \pm 3.3$		$24.3^{+3.0}_{-2.9}$
-	$a_0^0(980)K^+ \dagger$	New	$< 2.5$				$< 2.5$
-	$a_0^+(980)K^0 \dagger$	New	$< 3.9$				$< 3.9$
123	$\omega K^+$	$9.2^{+2.8}_{-2.5}$	$4.8 \pm 0.8 \pm 0.4$	$6.5^{+1.3}_{-1.2} \pm 0.6$	$3.2^{+2.4}_{-1.9} \pm 0.8$		$5.1 \pm 0.7$
124	$\omega K^{*+}$	$< 87$	$< 7.4$		$< 87$		$< 7.4$
125	$K^{*0}\pi^+$	$19^{+6}_{-8}$	$10.5 \pm 1.9 \pm 1.6$	$9.8 \pm 0.9^{+1.1}_{-1.2}$	$7.6^{+3.5}_{-3.0} \pm 1.6$		$9.7 \pm 1.2$
126	$K^{*+}\pi^0$	$< 31$	$6.9 \pm 2.0 \pm 1.3$		$7.1^{+11.4}_{-7.1} \pm 1.0$		$6.9 \pm 2.3$
127	$K^+\pi^+\pi^-$	$57 \pm 4$	$61.4 \pm 2.4 \pm 4.5$	$46.6 \pm 2.1 \pm 4.3$			$53.5 \pm 3.5$
128	$K^+\pi^+\pi^-(NR)$	$< 28$	$4.9 \pm 0.6 \pm 1.4$		$< 28$		$4.9 \pm 1.5$
129	$K^+f_0(980) \dagger$	seen	$9.2 \pm 1.5 \pm 1.0$	$7.6 \pm 1.2^{+1.6}_{-1.2}$			$8.4^{+1.4}_{-1.3}$
130	$K^+\rho^0$	$< 12$	$5.2 \pm 1.2 \pm 0.8$	$4.78 \pm 0.75^{+1.01}_{-0.97}$	$8.4^{+4.0}_{-3.4} \pm 1.8$		$5.15^{+0.93}_{-0.91}$
-	$f_2(1270)K^+ \dagger$	New		$< 1.3$			$< 1.3$
-	$f_2'(1525)K^+ \dagger$	New		$< 4.9$			$< 4.9$
-	$K_0^*(1430)^0\pi^+ \dagger$	New	$32.3 \pm 1.9 \pm 3.4$	$45.0^{+2.9}_{-15.0} \pm 10.7 \ddagger$			$32.9^{+3.7}_{-3.9}$
131	$K_2^*(1430)^0\pi^+ \dagger$	$< 680$		$< 2.3$			$< 2.3$
-	$K^*(1680)^0\pi^+ \dagger$	New		$< 3.1$			$< 3.1$
132	$K^-\pi^+\pi^+$	$< 1.8$	$< 1.8$	$< 4.5$			$< 1.8$
135	$K^0\pi^+\pi^0$	$< 66$			$< 66$		$< 66$
136	$K^0\rho^+$	$< 48$			$< 48$		$< 48$
-	$K^{*0}\rho^+$	New	$17.0 \pm 2.9^{+2.0}_{-2.8}$	$8.9 \pm 1.7 \pm 1.0$			$10.5 \pm 1.8$
138	$K^{*+}\rho^0$	$11 \pm 4$	$10.6^{+3.0}_{-2.6} \pm 2.4$		$< 74$		$10.6^{+3.8}_{-3.5}$
139	$\overline{K^{*+}K^{*0}}$	$< 71$			$< 71$		$< 71$
142	$K^+\overline{K^0}$	$< 2.0$	$< 2.4$	$< 3.3$	$< 3.3$		$< 2.4$
143	$K^+\overline{K^0}\pi^0$	$< 24$			$< 24$		$< 24$
144	$K^+K_S K_S$	$13.4 \pm 2.4$	$10.7 \pm 1.2 \pm 1.0$	$13.4 \pm 1.9 \pm 1.5$			$11.5 \pm 1.3$
145	$K_S K_S \pi^+$	$< 3.2$		$< 3.2$			$< 3.2$
146	$K^+K^-\pi^+$	$< 6.3$	$< 6.3$	$< 13$			$< 6.3$
148	$K^+K^+\pi^-$	$< 1.3$	$< 1.3$	$< 2.4$			$< 1.3$
150	$\overline{K^{*0}K^+}$	$< 5.3$			$< 5.3$		$< 5.3$
152	$K^+K^-K^+$	$30.8 \pm 2.1$	$29.6 \pm 2.1 \pm 1.6$	$30.6 \pm 1.2 \pm 2.3$			$30.1 \pm 1.9$
153	$\phi K^+$	$9.3 \pm 1.0$	$10.0^{+0.9}_{-0.8} \pm 0.5$	$9.60 \pm 0.92^{+1.05}_{-0.84}$	$5.5^{+2.1}_{-1.8} \pm 0.6$	$7.6 \pm 1.3 \pm 0.6$	$9.03^{+0.65}_{-0.63}$
-	$a_2 K^+ \dagger$	New		$< 1.1$			$< 1.1$
-	$\phi(1680)K^+ \dagger$	New		$< 0.8$			$< 0.8$
156	$\phi K^{*+}$	$9.6 \pm 3.0$	$12.7^{+2.2}_{-2.0} \pm 1.1$	$6.7^{+2.1+0.7}_{-1.9-1.0}$	$10.6^{+6.4+1.8}_{-4.9-1.6}$		$9.7 \pm 1.5$
159	$\phi\phi K^+ \S$	$2.6^{+1.1}_{-0.9}$		$2.6^{+1.1}_{-0.9} \pm 0.3$			$2.6^{+1.1}_{-0.9}$
173	$\pi^+\pi^0$	$5.6^{+0.9}_{-1.1}$	$5.8 \pm 0.6 \pm 0.4$	$5.0 \pm 1.2 \pm 0.5$	$4.6^{+1.8+0.6}_{-1.6-0.7}$		$5.5 \pm 0.6$
174	$\pi^+\pi^-\pi^+$	$11 \pm 4$	$16.2 \pm 2.1 \pm 1.3$				$16.2 \pm 2.5$
175	$\rho^0\pi^+$	$8.6 \pm 2.0$	$9.4 \pm 1.3 \pm 1.2$	$8.0^{+2.3}_{-2.0} \pm 0.7$	$10.4^{+3.3}_{-3.4} \pm 2.1$		$9.1^{+1.4}_{-1.3}$
-	$\rho^0(1450)\pi^+$	New	$2.2 \pm 0.5 \pm 0.4$				$2.2 \pm 0.6$
176	$\pi^+f_0(980) \dagger$	$< 140$					$< 140$
177	$f_2(1270)\pi^+$	$< 240$	$2.3 \pm 0.5 \pm 0.4$				$2.3 \pm 0.6$
180	$\rho^+\pi^0$	$< 43$	$10.9 \pm 1.9 \pm 1.9$	$13.2 \pm 2.3^{+1.4}_{-1.9}$	$< 43$		$12.0 \pm 2.0$
182	$\rho^+\rho^0$	$26 \pm 6$	$22.5^{+5.7}_{-5.4} \pm 5.8$	$31.7 \pm 7.1^{+3.8}_{-6.7}$			$26.4^{+6.1}_{-6.4}$
185	$\omega\pi^+$	$6.4^{+1.8}_{-1.6}$	$5.5 \pm 0.9 \pm 0.5$	$5.7^{+1.4}_{-1.3} \pm 0.6$	$11.3^{+3.3}_{-2.9} \pm 1.4$		$5.9 \pm 0.8$
186	$\omega\rho^+$	$< 61$	$12.6^{+3.7}_{-3.3} \pm 1.6$		$< 61$		$12.6^{+4.0}_{-3.7}$
187	$\eta\pi^+$	$< 5.7$	$5.1 \pm 0.6 \pm 0.3$	$4.8 \pm 0.7 \pm 0.3$	$1.2^{+2.8}_{-1.2}$		$4.9 \pm 0.5$
188	$\eta'\pi^+$	$< 7$	$4.0 \pm 0.8 \pm 0.4$	$< 7$	$1.0^{+5.8}_{-1.0}$		$4.0 \pm 0.9$
189	$\eta'\rho^+$	$< 33$	$< 22$		$< 33$		$< 22$
190	$\eta\rho^+$	$< 15$	$8.4 \pm 1.9 \pm 1.1$	$8.5^{+2.6}_{-2.4} \pm 1.0$	$4.8^{+5.2}_{-3.8}$		$8.4 \pm 1.7$
-	$a_0^0(980)\pi^+ \dagger$	New	$< 5.8$				$< 5.8$
191	$\phi\pi^+$	$< 0.41$	$< 0.41$		$< 5$		$< 0.41$
192	$\phi\rho^+$	$< 16$			$< 16$		$< 16$

$\dagger$ Product BF - daughter BF taken to be 100%;  $\ddagger$ Larger of two solutions taken;  $\S M_{\phi\phi} < 2.85 \text{ GeV}/c^2$

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RPP#	Mode	PDG2004 Avg.	BABAR	Belle	CLEO	CDF	New Avg.
123	$K^+\pi^-$	$18.5 \pm 1.1$	$17.9 \pm 0.9 \pm 0.7$	$18.5 \pm 1.0 \pm 0.7$	$18.0^{+2.3+1.2}_{-2.1-0.9}$		$18.2 \pm 0.8$
124	$K^0\pi^0$	$9.5^{+2.1}_{-1.9}$	$11.4 \pm 0.9 \pm 0.6$	$11.7 \pm 2.3^{+1.2}_{-1.3}$	$12.8^{+4.0+1.7}_{-3.3-1.4}$		$11.5 \pm 1.0$
125	$\eta'K^0$	$63 \pm 7$	$67.4 \pm 3.3 \pm 3.2$	$68 \pm 10^{+9}_{-8}$	$89^{+18}_{-16} \pm 9$		$68.6 \pm 4.2$
126	$\eta'K^{*0}$	$< 24$	$< 7.6$	$< 20$	$< 24$		$< 7.6$
127	$\eta K^{*0}$	$14^{+6}_{-5}$	$18.6 \pm 2.3 \pm 1.2$	$19.8^{+2.1}_{-2.0} \pm 1.4$	$13.8^{+5.5}_{-4.6} \pm 1.6$		$18.7 \pm 1.7$
128	$\eta K^0$	$< 9.3$	$< 2.5$	$< 2.0$	$< 9.3$		$< 2.0$
-	$\eta K^+\pi^-$	New		$33.4^{+3.5+2.1}_{-3.3-1.9}$			$33.4^{+4.1}_{-3.8}$
-	$a_0^-(980)K^+\dagger$	New	$< 2.1$	$< 2.9$			$< 2.1$
-	$a_0^0(980)K^0\dagger$	New	$< 7.8$				$< 7.8$
129	$\omega K^0$	$< 13$	$5.9 \pm 1.0 \pm 0.4$	$4.0^{+1.9}_{-1.6} \pm 0.5$	$10.0^{+5.4}_{-4.2} \pm 1.4$		$5.6 \pm 0.9$
131	$\omega K^{*0}$	$< 23$	$< 6.0$		$< 23$		$< 6.0$
132	$K^+K^-$	$< 0.6$	$< 0.6$	$< 0.7$	$< 0.8$	$< 3.1 \ddagger$	$< 0.6$
133	$K^0\bar{K}^0$	$< 3.3$	$1.19^{+0.40}_{-0.35} \pm 0.13$	$< 1.5$	$< 3.3$		$1.19^{+0.42}_{-0.37}$
134	$K_S K_S K_S$	$4.2^{+1.8}_{-1.5}$	$6.9^{+0.9}_{-0.8} \pm 0.6$	$4.2^{+1.6}_{-1.3} \pm 0.8$			$6.2 \pm 0.9$
135	$K^+\pi^-\pi^0$	$< 40$	$34.9 \pm 2.1 \pm 3.9$	$36.6^{+4.2}_{-4.1} \pm 3.0$	$< 40$		$35.6^{+3.4}_{-3.3}$
136	$K^+\rho^-$	$7.3 \pm 1.8$	$8.6 \pm 1.4 \pm 1.0$	$15.1^{+3.4+2.4}_{-3.3-2.6}$	$16^{+8}_{-6} \pm 3$		$9.9^{+1.6}_{-1.5}$
-	$K^+\rho(1450)^-\dagger$	New	$< 3.2$				$< 3.2$
-	$K^+\rho(1700)^-\dagger$	New	$< 1.7$				$< 1.7$
137	$K^0\pi^+\pi^-$	$47 \pm 7$	$43.7 \pm 3.8 \pm 3.4$	$45.4 \pm 5.2 \pm 5.9$	$50^{+10}_{-9} \pm 7$		$44.9 \pm 4.0$
-	$K^+\pi^-\pi^0(NR)$	New	$< 4.6$	$< 9.4$			$< 4.6$
-	$K_0^*(1430)^+\pi^-\dagger$	New	$11.2 \pm 1.5 \pm 3.5$				$11.2 \pm 3.8$
-	$K_0^*(1430)^0\pi^0\dagger$	New	$7.9 \pm 1.5 \pm 2.7$				$7.9 \pm 3.1$
138	$K^0\rho^0$	$< 39$	$5.1 \pm 1.0 \pm 1.2$	$< 12.4$	$< 39$		$5.1 \pm 1.6$
139	$K^0 f_0(980)\dagger$	$< 36$	$6.0 \pm 0.9 \pm 1.3$	$< 14$			$6.0 \pm 1.6$
140	$K^{*+}\pi^-$	$16^{+6}_{-5}$	$11.9 \pm 1.7 \pm 1.1$	$14.8^{+4.6+2.8}_{-4.4-1.3}$	$16^{+6}_{-5} \pm 2$		$12.7^{+1.8}_{-1.7}$
141	$K^{*0}\pi^0$	$< 3.6$	$3.0 \pm 0.9 \pm 0.5$	$0.4^{+1.9}_{-1.7} \pm 0.1$	$0.0^{+1.3+0.5}_{-0.0-0.0}$		$1.7 \pm 0.8$
142	$K_2^*(1430)^+\pi^-$	$< 18$	$< 13.2$		$< 21$		$< 13.2$
-	$K_2^*(1430)^0\pi^0$	New	$< 3.6$				$< 3.6$
-	$K^*(1680)^+\pi^-$	New	$< 19.4$				$< 19.4$
-	$K^*(1680)^0\pi^0$	New	$< 5.0$				$< 5.0$
143	$K^+\bar{K}^0\pi^-$	$< 21$		$< 18$	$< 21$		$< 18$
144	$K^+K^-\pi^0$	$< 19$			$< 19$		$< 19$
145	$K^+K^-K^0$	$28 \pm 5$	$23.8 \pm 2.0 \pm 1.6$	$28.3 \pm 3.3 \pm 4.0$			$24.7 \pm 2.3$
146	$\phi K^0$	$8.6^{+1.3}_{-1.1}$	$8.4^{+1.5}_{-1.3} \pm 0.5$	$9.0^{+2.2}_{-1.8} \pm 0.7$	$5.4^{+3.7}_{-2.7} \pm 0.7$		$8.3^{+1.2}_{-1.0}$
149	$K^{*0}\rho^0$	$< 34$	$< 34$	$< 2.6$	$< 34$		$< 2.6$
-	$K^{*+}\rho^-$	New	$< 24$				$< 24$
154	$\phi K^{*0}$	$10.7 \pm 1.1$	$9.2 \pm 0.9 \pm 0.5$	$10.0^{+1.6+0.7}_{-1.5-0.8}$	$11.5^{+4.5+1.8}_{-3.7-1.7}$		$9.5 \pm 0.9$
155	$K^{*0}K^{*0}$	$< 22$			$< 22$		$< 22$
157	$K^{*+}K^{*-}$	$< 141$			$< 141$		$< 141$
176	$\pi^+\pi^-$	$4.8 \pm 0.5$	$4.7 \pm 0.6 \pm 0.2$	$4.4 \pm 0.6 \pm 0.3$	$4.5^{+1.4+0.5}_{-1.2-0.4}$	$4.4 \pm 1.3 \ddagger$	$4.5 \pm 0.4$
177	$\pi^0\pi^0$	$1.9 \pm 0.5$	$1.17 \pm 0.32 \pm 0.10$	$2.3^{+0.4+0.2}_{-0.5-0.3}$	$< 4.4$		$1.45 \pm 0.29$
178	$\eta\pi^0$	$< 2.9$	$< 2.5$	$< 2.5$	$< 2.9$		$< 2.5$
179	$\eta\eta$	$< 18$	$< 2.8$	$< 2.0$	$< 18$		$< 2.0$
180	$\eta'\pi^0$	$< 5.7$	$< 3.7$		$< 5.7$		$< 3.7$
181	$\eta'\eta'$	$< 47$	$< 10$		$< 47$		$< 10$
182	$\eta'\eta$	$< 27$	$< 4.6$		$< 27$		$< 4.6$
183	$\eta'\rho^0$	$< 12$	$< 4.3$	$< 14$	$< 12$		$< 4.3$
184	$\eta\rho^0$	$< 10$	$< 1.5$	$< 5.5$	$< 10$		$< 1.5$
-	$\eta\pi^+\pi^-$	New		$16.6^{+3.5+1.4}_{-3.2-1.0}$			$16.6^{+3.8}_{-3.4}$
-	$a_0^{\mp}(980)\pi^{\pm}\dagger$	New	$< 5.1$	$< 3.8$			$< 3.8$
185	$\omega\eta$	$< 12$	$< 1.9$		$< 12$		$< 1.9$
186	$\omega\eta'$	$< 60$	$< 2.8$		$< 60$		$< 2.8$
187	$\omega\rho^0$	$< 11$	$< 3.3$		$< 11$		$< 3.3$
189	$\phi\pi^0$	$< 5$	$< 1.0$		$< 5$		$< 1.0$
190	$\phi\eta$	$< 9$	$< 1.0$		$< 9$		$< 1.0$
191	$\phi\eta'$	$< 31$	$< 4.5$		$< 31$		$< 4.5$
192	$\phi\rho^0$	$< 13$			$< 13$		$< 13$
194	$\phi\phi$	$< 12$	$< 1.5$		$< 12$		$< 1.5$
196	$\rho^0\pi^0$	$< 5.3$	$1.4 \pm 0.6 \pm 0.3$	$5.1 \pm 1.6 \pm 0.9$	$1.6^{+2.0}_{-1.4} \pm 0.8$		$1.8 \pm 0.6$
197	$\rho^{\mp}\pi^{\pm}$	$22.8 \pm 2.5$	$22.6 \pm 1.8 \pm 2.2$	$29.1^{+5.0}_{-4.9} \pm 4.0$	$27.6^{+8.4}_{-7.4} \pm 4.2$		$24.0 \pm 2.5$
199	$\rho^0\rho^0$	$< 2.1$	$< 1.1$		$< 18$		$< 1.1$
200	$a_1^-\pi^+$	$< 490$	$42.6 \pm 4.2 \pm 4.1$				$42.6 \pm 5.9$
203	$\rho^{\mp}\rho^-$	$< 2200$	$30 \pm 4 \pm 5$				$30 \pm 6$
205	$\omega\pi^0$	$< 3$	$< 1.2$	$< 1.9$	$< 5.5$		$< 1.2$

$\dagger$ Product BF - daughter BF taken to be 100%,  $\ddagger$ Relative BF converted to absolute BF

# Charmless Mesonic Decays:

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