

Heavy Flavor Averaging Group - B^+ Branching Fractions ($\times 10^6$) - August 25th, 2004. (UL 90% CL)

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

| RPP# | Mode | PDG2002 Avg. | BABAR | Belle | CLEO | CDF | New Avg. |
|------|-----------------------------|----------------------|------------------------------|---------------------------------|------------------------------|-----------------------|------------------------|
| 86 | $K^0\pi^+$ | $17.3^{+2.7}_{-2.4}$ | $26.0 \pm 1.3 \pm 1.0$ | $22.0 \pm 1.9 \pm 1.1$ | $18.8^{+3.7+2.1}_{-3.3-1.8}$ | | 24.1 ± 1.3 |
| 87 | $K^+\pi^0$ | 12.1 ± 1.6 | $12.0 \pm 0.7 \pm 0.6$ | $12.0 \pm 1.3^{+1.3}_{-0.9}$ | $12.9^{+2.4+1.2}_{-2.2-1.1}$ | | 12.1 ± 0.8 |
| 88 | $\eta'K^+$ | 75 ± 7 | $76.9 \pm 3.5 \pm 4.4$ | $78 \pm 6 \pm 9$ | $80^{+10}_{-9} \pm 7$ | | $77.6^{+4.6}_{-4.5}$ |
| 89 | $\eta'K^{*+}$ | < 35 | < 14 | < 90 | < 35 | | < 14 |
| 90 | ηK^+ | < 6.9 | $3.4 \pm 0.8 \pm 0.2$ | $2.1 \pm 0.6 \pm 0.2$ | $2.2^{+2.8}_{-2.2}$ | | 2.6 ± 0.5 |
| 91 | ηK^{*+} | 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 |
| 92 | ωK^+ | < 4 | $4.8 \pm 0.8 \pm 0.4$ | $6.5^{+1.3}_{-1.2} \pm 0.6$ | $3.2^{+2.4}_{-1.9} \pm 0.8$ | | 5.1 ± 0.7 |
| 93 | ωK^{*+} | < 87 | < 7.4 | | < 87 | | < 7.4 |
| 94 | $K^{*0}\pi^+$ | 19^{+6}_{-8} | $10.5 \pm 2.0 \pm 1.4$ | $9.83 \pm 0.90^{+1.06}_{-1.24}$ | $7.6^{+3.5}_{-3.0} \pm 1.6$ | | $9.76^{+1.16}_{-1.22}$ |
| 95 | $K^{*+}\pi^0$ | < 31 | | | < 31 | | < 31 |
| 96 | $K^+\pi^+\pi^-$ | 56 ± 10 | $61.4 \pm 2.4 \pm 4.5$ | $46.6 \pm 2.1 \pm 4.3$ | | | 53.5 ± 3.5 |
| 97 | $K^+\pi^+\pi^- (NR)$ | < 28 | $4.9 \pm 0.6 \pm 1.4$ | | < 28 | | 4.9 ± 1.5 |
| – | $K^0\pi^+\pi^0$ | New | | | < 66 | | < 66 |
| 98 | $K^+f_0(980)\dagger$ | $9.6^{+4.5}_{-2.9}$ | $9.2 \pm 1.5 \pm 0.8$ | $7.55 \pm 1.24^{+1.63}_{-1.18}$ | | | $8.49^{+1.35}_{-1.26}$ |
| 99 | $K^+\rho^0$ | < 12 | $5.2 \pm 1.2 \pm 0.7$ | $4.78 \pm 0.75^{+1.01}_{-0.97}$ | $8.4^{+4.0}_{-3.4} \pm 1.8$ | | $5.15^{+0.91}_{-0.89}$ |
| – | $f_2(1270)K^+\dagger$ | New | | < 1.3 | | | < 1.3 |
| – | $f_2'(1525)K^+\dagger$ | New | | < 2.1 | | | < 2.1 |
| – | $K_0^*(1430)^0\pi^+\dagger$ | New | $32.3 \pm 1.9 \pm 2.5$ | | | | 32.3 ± 3.1 |
| 100 | $K_2^*(1430)^0\pi^+\dagger$ | < 680 | | < 2.3 | | | < 2.3 |
| – | $K^*(1680)^0\pi^+\dagger$ | New | | < 3.1 | | | < 3.1 |
| 101 | $K^-\pi^+\pi^+$ | < 7.0 | < 1.8 | < 4.5 | | | < 1.8 |
| 104 | $K^0\rho^+$ | < 48 | | | < 48 | | < 48 |
| – | $K^{*0}\rho^+$ | New | $17.0 \pm 2.9^{+2.0}_{-2.8}$ | $6.6 \pm 2.2 \pm 0.8$ | | | 9.2 ± 2.0 |
| 106 | $K^{*+}\rho^0$ | < 74 | $10.6^{+3.0}_{-2.6} \pm 2.4$ | | < 74 | | $10.6^{+3.8}_{-3.5}$ |
| 107 | $K^{*+}\overline{K^{*0}}$ | < 71 | | | < 71 | | < 71 |
| 110 | $K^+\overline{K^0}$ | < 2.4 | < 2.4 | < 3.3 | < 3.3 | | < 2.4 |
| 111 | $K^+K^-\pi^+$ | < 12 | < 6.3 | < 13 | | | < 6.3 |
| 113 | $K^+K^+\pi^-$ | < 3.2 | < 1.3 | < 2.4 | | | < 1.3 |
| – | $K_S K_S \pi^+$ | New | | < 3.2 | | | < 3.2 |
| – | $K^+\overline{K^0}\pi^0$ | New | | | < 24 | | < 24 |
| 115 | $\overline{K^{*0}}K^+$ | < 5.3 | | | < 5.3 | | < 5.3 |
| 116 | $K^+K^-K^+$ | 35 ± 6 | $29.6 \pm 2.1 \pm 1.6$ | $30.6 \pm 1.2 \pm 2.3$ | | | 30.1 ± 1.9 |
| – | $K^+K_S K_S$ | New | $10.7 \pm 1.2 \pm 1.0$ | $13.4 \pm 1.9 \pm 1.5$ | | | 11.5 ± 1.3 |
| 117 | ϕK^+ | $7.9^{+2.0}_{-1.8}$ | $10.0^{+0.9}_{-0.8} \pm 0.5$ | $9.60 \pm 0.92^{+1.05}_{-0.84}$ | $5.5^{+2.1}_{-1.8} \pm 0.6$ | $7.2 \pm 1.3 \pm 0.7$ | $8.97^{+0.65}_{-0.63}$ |
| – | $a_2 K^+\dagger$ | New | | < 1.1 | | | < 1.1 |
| – | $\phi(1680)K^+\dagger$ | New | | < 1.1 | | | < 1.1 |
| 120 | ϕK^{*+} | 10^{+5}_{-4} | $12.7^{+2.2}_{-2.0} \pm 1.1$ | $6.7^{+2.1+0.7}_{-1.9-1.0}$ | $10.6^{+6.4+1.8}_{-4.9-1.6}$ | | 9.7 ± 1.5 |
| – | $\phi\phi K^+\S$ | New | | $2.6^{+1.1}_{-0.9} \pm 0.3$ | | | $2.6^{+1.1}_{-0.9}$ |
| 131 | $\pi^+\pi^0$ | < 9.6 | $5.8 \pm 0.6 \pm 0.4$ | $5.0 \pm 1.2 \pm 0.5$ | $4.6^{+1.8+0.6}_{-1.6-0.7}$ | | 5.5 ± 0.6 |
| 132 | $\pi^+\pi^-\pi^+$ | < 130 | $16.2 \pm 2.1 \pm 1.3$ | | | | 16.2 ± 2.5 |
| 133 | $\rho^0\pi^+$ | 10 ± 4 | $9.4 \pm 1.3 \pm 1.0$ | $8.0^{+2.3}_{-2.0} \pm 0.7$ | $10.4^{+3.3}_{-3.4} \pm 2.1$ | | 9.1 ± 1.3 |
| – | $\rho^0(1450)\pi^+$ | New | $2.2 \pm 0.5 \pm 0.3$ | | | | 2.2 ± 0.6 |
| – | $f_2(1270)\pi^+$ | New | $2.3 \pm 0.4 \pm 0.3$ | | | | 2.3 ± 0.5 |
| 134 | $\pi^+f_0(980)\dagger$ | < 140 | | | | | < 140 |
| 138 | $\rho^+\pi^0$ | < 43 | $10.9 \pm 1.9 \pm 1.9$ | $13.2 \pm 2.3^{+1.4}_{-1.9}$ | < 43 | | 12.0 ± 2.0 |
| 140 | $\rho^+\rho^0$ | < 1000 | $22.5^{+5.7}_{-5.4} \pm 5.8$ | $31.7 \pm 7.1^{+3.8}_{-6.7}$ | | | $26.4^{+6.1}_{-6.4}$ |
| 143 | $\omega\pi^+$ | $8.1^{+2.3}_{-2.0}$ | $5.5 \pm 0.9 \pm 0.5$ | $5.7^{+1.4}_{-1.3} \pm 0.6$ | $11.3^{+3.3}_{-2.9} \pm 1.4$ | | 5.9 ± 0.8 |
| 144 | $\omega\rho^+$ | < 61 | $12.6^{+3.7}_{-3.3} \pm 1.8$ | | < 61 | | $12.6^{+4.1}_{-3.8}$ |
| 145 | $\eta\pi^+$ | < 5.7 | $5.3 \pm 1.0 \pm 0.3$ | $4.8 \pm 0.7 \pm 0.3$ | $1.2^{+2.8}_{-1.2}$ | | 4.8 ± 0.6 |
| 146 | $\eta'\pi^+$ | < 7 | $4.2 \pm 1.0 \pm 0.5$ | | $1.0^{+5.3}_{-1.0}$ | | 4.2 ± 1.1 |
| 147 | $\eta'\rho^+$ | < 33 | < 22 | < 7 | < 33 | | < 22 |
| 148 | $\eta\rho^+$ | < 15 | $8.6 \pm 2.2 \pm 1.1$ | $8.5^{+2.6}_{-2.4} \pm 1.0$ | $4.8^{+5.2}_{-3.8}$ | | $8.6^{+1.9}_{-1.8}$ |
| – | $a_0^0(980)\pi^+\dagger$ | New | < 5.8 | | | | < 5.8 |
| 149 | $\phi\pi^+$ | < 1.4 | < 0.41 | | < 5 | | < 0.41 |
| 150 | $\phi\rho^+$ | < 16 | | | < 16 | | < 16 |

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

Heavy Flavor Averaging Group - B^0 Branching Fractions ($\times 10^6$) - August 25th, 2004. (UL 90% CL)

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

| RPP# | Mode | PDG2002 Avg. | BABAR | Belle | CLEO | CDF | New Avg. |
|------|--------------------------------|----------------------|---------------------------------|----------------------------------|------------------------------|-----|------------------------|
| 88 | $K^+\pi^-$ | 17.4 ± 1.5 | $17.9 \pm 0.9 \pm 0.7$ | $18.5 \pm 1.0 \pm 0.7$ | $18.0^{+2.3+1.2}_{-2.1-0.9}$ | | 18.2 ± 0.8 |
| 89 | $K^0\pi^0$ | $10.7^{+2.7}_{-2.5}$ | $11.4 \pm 0.9 \pm 0.6$ | $11.7 \pm 2.3^{+1.2}_{-1.3}$ | $12.8^{+4.0+1.7}_{-3.3-1.4}$ | | 11.5 ± 1.0 |
| 90 | $\eta'K^0$ | 58^{+14}_{-13} | $60.6 \pm 5.6 \pm 4.6$ | $68 \pm 10^{+9}_{-8}$ | $89^{+18}_{-16} \pm 9$ | | $65.2^{+6.0}_{-5.9}$ |
| 91 | $\eta'K^{*0}$ | < 24 | < 7.6 | < 20 | < 24 | | < 7.6 |
| 92 | ηK^{*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 ± 1.7 |
| 93 | ηK^0 | < 9.3 | $2.5 \pm 0.8 \pm 0.1$ | $0.3^{+0.9}_{-0.7} \pm 0.1$ | $0.0^{+3.2}_{-0.0}$ | | 1.5 ± 0.6 |
| - | $\eta K^+\pi^-$ | 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 |
| 94 | ωK^0 | < 13 | $5.9^{+1.6}_{-1.3} \pm 0.5$ | $4.0^{+1.9}_{-1.6} \pm 0.5$ | $10.0^{+5.4}_{-4.2} \pm 1.4$ | | $5.5^{+1.2}_{-1.1}$ |
| 96 | ωK^{*0} | < 23 | < 6.1 | | < 23 | | < 6.1 |
| 97 | K^+K^- | < 1.9 | < 0.6 | < 0.7 | < 0.8 | | < 0.6 |
| 98 | $K^0\bar{K}^0$ | < 17 | $1.19^{+0.40}_{-0.35} \pm 0.13$ | < 1.5 | < 3.3 | | $1.19^{+0.42}_{-0.37}$ |
| 99 | $K^+\rho^-$ | < 32 | $8.6 \pm 1.4 \pm 1.0$ | $15.1^{+3.4+2.4}_{-3.3-2.6}$ | $16^{+8}_{-6} \pm 3$ | | $9.9^{+1.6}_{-1.5}$ |
| - | $K^+\rho(1450)^-\dagger$ | New | < 3.2 | | | | < 3.2 |
| - | $K^+\rho(1700)^-\dagger$ | New | < 1.7 | | | | < 1.7 |
| 100 | $K^0\pi^+\pi^-$ | < 440 | $43.7 \pm 3.8 \pm 3.4$ | $45.4 \pm 5.2 \pm 5.9$ | $50^{+10}_{-9} \pm 7$ | | 44.9 ± 4.0 |
| - | $K^+\pi^-\pi^0$ | New | $34.9 \pm 2.1 \pm 3.9$ | $36.6^{+4.2}_{-4.1} \pm 3.0$ | < 40 | | $35.6^{+3.4}_{-3.3}$ |
| - | $K^+\pi^-\pi^0(NR)$ | New | < 4.6 | < 9.4 | | | < 4.6 |
| - | $K_0^{*+}(1430)\pi^-\dagger$ | New | $11.2 \pm 1.5 \pm 3.5$ | | | | 11.2 ± 3.8 |
| - | $K_0^{*+}(1430)^0\pi^0\dagger$ | New | $7.9 \pm 1.5 \pm 2.7$ | | | | 7.9 ± 3.1 |
| - | $K_2^{*+}(1430)\pi^-$ | New | < 13.2 | | | | < 13.2 |
| - | $K_2^{*+}(1430)^0\pi^0$ | New | < 3.6 | | | | < 3.6 |
| - | $K_2^{*+}(1680)\pi^-$ | New | < 19.4 | | | | < 19.4 |
| - | $K_2^{*+}(1680)^0\pi^0$ | New | < 5.0 | | | | < 5.0 |
| 101 | $K^0\rho^0$ | < 39 | $5.1 \pm 1.0 \pm 1.2$ | < 12.4 | < 39 | | 5.1 ± 1.6 |
| 102 | $K^0f_0(980)\dagger$ | < 360 | $6.0 \pm 0.9 \pm 1.3$ | < 14 | | | 6.0 ± 1.6 |
| 103 | $K^{*+}\pi^-$ | < 72 | $11.9 \pm 1.7 \pm 1.1$ | $14.8^{+4.6+2.8}_{-4.4-1.3}$ | $16^{+6}_{-5} \pm 2$ | | $12.7^{+1.8}_{-1.7}$ |
| 104 | $K^{*0}\pi^0$ | < 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 ± 0.8 |
| - | $K^+K^-\pi^0$ | New | | | < 19 | | < 19 |
| - | $K^+K^0\pi^-$ | New | | < 18 | < 21 | | < 18 |
| 106 | $K^+K^-K^0$ | < 1300 | $23.8 \pm 2.0 \pm 1.6$ | $28.3 \pm 3.3 \pm 4.0$ | | | 24.7 ± 2.3 |
| - | $K_S K_S K_S$ | New | $6.5 \pm 0.8 \pm 0.8$ | $4.2^{+1.6}_{-1.3} \pm 0.8$ | | | 5.8 ± 1.0 |
| 107 | ϕK^0 | $8.1^{+3.2}_{-2.6}$ | $8.4^{+1.5}_{-1.3} \pm 0.5$ | $9.0^{+2.2}_{-1.8} \pm 0.7$ | $5.4^{+3.7}_{-2.7} \pm 0.7$ | | $8.3^{+1.2}_{-1.0}$ |
| 110 | $K^{*0}\rho^0$ | < 34 | | < 2.6 | < 34 | | < 2.6 |
| - | $K^{*+}\rho^-$ | New | < 24 | | | | < 24 |
| 115 | ϕK^{*0} | $9.5^{+2.4}_{-2.0}$ | $9.2 \pm 0.9 \pm 0.5$ | $10.0^{+1.6+0.7}_{-1.5-0.8}$ | $11.5^{+4.5+1.8}_{-3.7-1.7}$ | | 9.5 ± 0.9 |
| 116 | $K^{*0}\bar{K}^{*0}$ | < 22 | | | < 22 | | < 22 |
| 118 | $K^{*+}K^{*-}$ | < 141 | | | < 141 | | < 141 |
| 133 | $\pi^+\pi^-$ | 4.4 ± 0.9 | $4.7 \pm 0.6 \pm 0.2$ | $4.4 \pm 0.6 \pm 0.3$ | $4.5^{+1.4+0.5}_{-1.2-0.4}$ | | 4.6 ± 0.4 |
| 134 | $\pi^0\pi^0$ | < 5.7 | $1.17 \pm 0.32 \pm 0.10$ | $2.32^{+0.44+0.22}_{-0.48-0.18}$ | < 4.4 | | 1.51 ± 0.28 |
| 135 | $\eta\pi^0$ | < 2.9 | < 2.5 | < 2.5 | < 2.9 | | < 2.5 |
| 136 | $\eta\eta$ | < 18 | < 2.8 | < 2.0 | < 18 | | < 2.0 |
| 137 | $\eta'\pi^0$ | < 5.7 | < 3.7 | | < 5.7 | | < 3.7 |
| 138 | $\eta'\eta'$ | < 47 | < 10 | | < 47 | | < 10 |
| 139 | $\eta'\eta$ | < 27 | < 4.6 | | < 27 | | < 4.6 |
| 140 | $\eta'\rho^0$ | < 12 | < 4.3 | < 14 | < 12 | | < 4.3 |
| 141 | $\eta\rho^0$ | < 10 | < 1.5 | < 5.5 | < 10 | | < 1.5 |
| - | $\eta\pi^+\pi^-$ | New | | $16.6^{+3.5+1.4}_{-3.2-1.0}$ | | | $16.6^{+3.8}_{-3.4}$ |
| - | $a_0^-(980)\pi^+\dagger$ | New | < 5.1 | < 3.8 | | | < 3.8 |
| 142 | $\omega\eta$ | < 12 | < 2.3 | | < 12 | | < 2.3 |
| 143 | $\omega\eta'$ | < 60 | < 2.8 | | < 60 | | < 2.8 |
| 144 | $\omega\rho^0$ | < 11 | < 3.3 | | < 11 | | < 3.3 |
| 146 | $\phi\pi^0$ | < 5 | < 1.0 | | < 5 | | < 1.0 |
| 147 | $\phi\eta$ | < 9 | < 1.0 | | < 9 | | < 1.0 |
| 148 | $\phi\eta'$ | < 31 | < 4.5 | | < 31 | | < 4.5 |
| 149 | $\phi\rho^0$ | < 13 | | | < 13 | | < 13 |
| 151 | $\phi\phi$ | < 12 | < 1.5 | | < 12 | | < 1.5 |
| 153 | $\rho^0\pi^0$ | < 5.5 | < 2.9 | $5.1 \pm 1.6 \pm 0.9$ | < 5.5 | | < 2.9 |
| 154 | $\rho^+\pi^-$ | 28 ± 9 | $22.6 \pm 1.8 \pm 2.2$ | $29.1^{+5.0}_{-4.9} \pm 4.0$ | $27.6^{+8.4}_{-7.4} \pm 4.2$ | | 24.0 ± 2.5 |
| 156 | $\rho^0\rho^0$ | < 18 | < 1.1 | | < 18 | | < 1.1 |
| 157 | $a_1^-\pi^+$ | < 490 | $42.6 \pm 4.2 \pm 4.1$ | | | | 42.6 ± 5.9 |
| 160 | $\rho^+\rho^-$ | < 2200 | $30 \pm 4 \pm 5$ | | | | 30 ± 6 |
| 162 | $\omega\pi^0$ | < 3 | < 1.2 | < 1.9 | < 5.5 | | < 1.2 |

†Product BF - daughter BF taken to be 100%

Charmless Mesonic Decays:

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