

Heavy Flavor Averaging Group  
August 25th, 2004

Compilation of  $B^+$  Baryonic Branching Fractions  
All branching fractions are in units of  $10^{-6}$ ; limits are 90% CL

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

RPP#	Mode	PDG2002 Avg.	BABAR	Belle	CLEO	New Avg.
159	$p\bar{p}\pi^+$	< 160		$3.06^{+0.73}_{-0.62} \pm 0.37$	< 160	$3.06^{+0.82}_{-0.72}$
—	$p\bar{p}K^+$	New	$6.7 \pm 0.9 \pm 0.6$	$5.66^{+0.67}_{-0.57} \pm 0.62$		$6.08^{+0.71}_{-0.68}$
—	$p\bar{p}K^{*+}$	New		$10.31^{+3.62+1.34}_{-2.77-1.65}$		$10.31^{+3.86}_{-3.22}$
163	$p\bar{\Lambda}$	< 2.6		< 0.46	< 1.5	< 0.46
—	$\Lambda\bar{\Lambda}K^+$	New		$2.91^{+0.90}_{-0.70} \pm 0.38$		$2.91^{+0.98}_{-0.80}$
—	$\Lambda\bar{\Lambda}\pi^+$	New		< 2.8		< 2.8
167	$\Lambda_c^- p\pi^+$	$620 \pm 270$		$201 \pm 15 \pm 56$	$240 \pm 60^{+63}_{-62}$	$213 \pm 48$
—	$\bar{\Sigma}_c^0(2455)p$	New		$36.7^{+7.4}_{-6.6} \pm 10.2$	< 80	$36.7^{+12.6}_{-12.1}$
—	$\bar{\Sigma}_c^0(2520)p$	New		$12.6^{+5.6}_{-4.9} \pm 3.5$		$12.6^{+6.6}_{-6.0}$
—	$X_c^0(3340)\pi^+$	New		$38.7^{+7.7}_{-7.2} \pm 11.0$		$38.7^{+13.4}_{-13.1}$
168	$\Lambda_c^- p\pi^+\pi^0$	< 3120			$1810 \pm 290^{+520}_{-500}$	$1810^{+595}_{-578}$
—	$\bar{\Sigma}_c^0(2455)p\pi^0$	New			$420 \pm 130 \pm 170$	$420 \pm 214$
169	$\Lambda_c^- p\pi^+\pi^+\pi^-$	< 1460			$2250 \pm 250^{+630}_{-610}$	$2250^{+677}_{-659}$
—	$\bar{\Sigma}_c^0(2455)p\pi^+\pi^-$	New			$440 \pm 120 \pm 120$	$440 \pm 169$
—	$\bar{\Sigma}_c^{--}(2455)p\pi^+\pi^+$	New			$280 \pm 90 \pm 90$	$280 \pm 127$
—	$\bar{\Lambda}_c^-(2593)p\pi^+$	New			< 190	< 190

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## Compilation of $B^0$ Baryonic Branching Fractions

All branching fractions are in units of  $10^{-6}$ ; limits are 90% CL

In PDG2002

New since PDG2002 (preliminary)

New since PDG2002 (published)

RPP#	Mode	PDG2002 Avg.	BABAR	Belle	CLEO	New Avg.
169	$p\bar{p}$	< 7.0	< 0.27	< 0.50	< 1.4	< 0.27
172	$\Lambda\bar{\Lambda}$	< 3.9		< 0.79	< 1.2	< 0.79
171	$p\bar{\Lambda}\pi^-$	< 13		$3.97^{+1.00}_{-0.80} \pm 0.56$	< 13	$3.97^{+1.15}_{-0.98}$
–	$p\bar{\Lambda}K^-$	New		< 0.82		< 0.82
–	$p\bar{\Sigma}^0\pi^-$	New		< 3.8		< 3.8
–	$p\bar{p}K^0$	New		$1.88^{+1.06}_{-0.60} \pm 0.23$		$1.88^{+1.08}_{-0.64}$
–	$p\bar{p}K^{*0}$	New		< 7.6		< 7.6
176	$\bar{\Lambda}_c^- p\pi^+\pi^-$	$1300 \pm 600$		$1030 \pm 90 \pm 295$	$1670 \pm 190^{+470}_{-460}$	$1207 \pm 262$
177	$\bar{\Lambda}_c^- p$	< 210		$21.9^{+5.6}_{-4.9} \pm 6.5$	< 90	$21.9^{+8.6}_{-8.1}$
–	$\bar{\Sigma}_c^{--}(2455)p\pi^+$	New		$115 \pm 22 \pm 33$	$370 \pm 80 \pm 113$	$134 \pm 38$
–	$\bar{\Sigma}_c^{--}(2520)p\pi^+$	New		$104 \pm 23 \pm 30$		$104 \pm 37$
–	$\bar{\Sigma}_c^0(2455)p\pi^-$	New		$97 \pm 21 \pm 30$	$220 \pm 60 \pm 64$	$115 \pm 33$
–	$\bar{\Sigma}_c^0(2520)p\pi^+$	New		$33 \pm 19 \pm 10$		$33 \pm 21$
–	$\bar{\Lambda}_c^-(2593)p$	New			< 110	< 110

## Charmless Baryonic Decay References

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