

Heavy Flavor Averaging Group
May 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		$5.66^{+0.67}_{-0.57} \pm 0.62$		$5.66^{+0.91}_{-0.84}$
–	$p\bar{p}K^{*+}$	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
167	$\Lambda_c^- p\pi^+$	620 ± 270		$187^{+43}_{-40} \pm 56$	$240 \pm 60^{+63}_{-62}$	207^{+55}_{-53}
–	$\bar{\Sigma}_c^0(2455)p$	New		< 93	< 80	< 80
–	$\bar{\Sigma}_c^0(2520)p$	New		< 46		< 46
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 ± 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 ± 169
–	$\bar{\Sigma}_c^{--}(2455)p\pi^+\pi^+$	New			$280 \pm 90 \pm 90$	280 ± 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 ± 600		$1100 \pm 120 \pm 350$	$1670 \pm 190^{+470}_{-460}$	1302 ± 297
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		$238^{+63}_{-55} \pm 74$	$370 \pm 80 \pm 113$	280^{+80}_{-78}
–	$\bar{\Sigma}_c^{--}(2520)p\pi^+$	New		$163^{+57}_{-51} \pm 50$		163^{+75}_{-71}
–	$\bar{\Sigma}_c^0(2455)p\pi^-$	New		< 159	$220 \pm 60 \pm 64$	220 ± 87
–	$\bar{\Sigma}_c^0(2520)p\pi^-$	New		< 121		< 121
–	$\bar{\Lambda}_c^-(2593)p$	New			< 110	< 110

Charmless Baryonic Decay References

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