

Heavy Flavor Averaging Group
15 July 2005

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

In PDG2004 New since PDG2004 (preliminary) New since PDG2004 (published)

RPP#	Mode	PDG2004 Avg.	BABAR	Belle	CLEO	New Avg.
201	$p\bar{p}\pi^+$	< 3.7		$3.06_{-0.62}^{+0.73} \pm 0.37\ddagger$	< 160	$3.06_{-0.72}^{+0.82}$
204	$p\bar{p}K^+$	$4.3_{-1.0}^{+1.2}$	$6.7 \pm 0.5 \pm 0.4\ddagger$	$5.30_{-0.39}^{+0.45} \pm 0.58\ddagger$		6.10 ± 0.48
	$\Theta^{++}\bar{p}^*$	New	< 0.09	< 0.091		< 0.09
	$\mathcal{G}K^+^*$	New		< 0.41		< 0.41
–	$p\bar{p}K^{*+}$	New		$10.31_{-2.77-1.65\ddagger}^{+3.62+1.34\ddagger}$		$10.31_{-3.22}^{+3.86}$
206	$p\bar{\Lambda}$	< 1.5		< 0.49	< 1.5	< 0.49
–	$p\bar{\Lambda}(1520)$	New	< 1.5			< 1.5
–	$\Lambda\bar{\Lambda}K^+$	New		$2.91_{-0.70}^{+0.90} \pm 0.38\ddagger$		$2.91_{-0.80}^{+0.98}$
–	$\Lambda\bar{\Lambda}\pi^+$	New		$< 2.8\ddagger$		$< 2.8\ddagger$

† Charmonium decays to $p\bar{p}$ have been statistically subtracted.

‡ The charmonium mass region has been vetoed.

* Product BF - daughter BF taken to be 100%:

$\Theta(1540)^{++} \rightarrow K^+p$ (pentaquark candidate);

$\mathcal{G}(2220) \rightarrow p\bar{p}$ (glueball candidate).

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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 PDG2004 New since PDG2004 (preliminary) New since PDG2004 (published)

RPP#	Mode	PDG2004 Avg.	BABAR	Belle	CLEO	New Avg.
212	$p\bar{p}$	< 1.2	< 0.27	< 0.41	< 1.4	< 0.27
214	$p\bar{p}K^0$	< 7.2		$1.20^{+0.32}_{-0.22} \pm 0.14\ddagger$		$1.20^{+0.35}_{-0.26}$
	$\Theta^+ K^0$ †	New		< 0.23		< 0.23
–	$p\bar{p}K^{*0}$	New		< 7.6‡		< 7.6‡
215	$p\bar{\Lambda}\pi^-$	$4.0^{+1.1}_{-1.0}$		$3.27^{+0.62}_{-0.51} \pm 0.39$	< 13	$3.27^{+0.73}_{-0.64}$
216	$p\bar{\Lambda}K^-$	< 0.82		< 0.82		< 0.82
217	$p\bar{\Sigma}^0\pi^-$	< 3.8		< 3.8		< 3.8
218	$\Lambda\bar{\Lambda}$	< 1.0		< 0.69	< 1.2	< 0.69

† Product BF - daughter BF taken to be 100%: ‡ The charmonium mass region has been vetoed.
 $\Theta(1540)^+ \rightarrow pK^0$ (pentaquark candidate).

Charmless Baryonic Decay References

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