Heavy FLavor AVeraging group (HFLAV) - December 2017

Compilation of B_c^+ Branching Fractions - UL at 90% CL

RPP#	Mode	PDG2017 AVG.	LHCb	Our Avg.
18	$f_c \mathcal{B}(B_c^+ \to p\bar{p}\pi^+)/f_u$ [§]	3.6×10^{-8}	$< 2.8 \times 10^{-8}$[1]	$< 2.8 \times 10^{-8}$
25	$f_c \mathcal{B}(B_c^+ \to K^+ K^0)/f_u \mathcal{B}(B^+ \to K_S^0 \pi^+)$	[‡]	$< 5.8 \times 10^{-2}$[2]	$< 5.8 \times 10^{-2}$
	$\sigma(B_c^+)\mathcal{B}(B_c^+ \to K^+ K^- \pi^+)/\sigma(B^+)$ [†]		$< 15 \times 10^{-8}$[3]	$< 15 \times 10^{-8}$

Channels with no RPP# are not reported by PDG.

[§] PDG result at 95% CL, LHCb at 90% CL.

[†] Measured in the annihilation region m($K^- \pi^+$) < 1.834GeV/c^2.

[‡] PDG converts the LHCb result to $f_c \mathcal{B}(B_c^+ \to K^+ K^0) < 4.6 \times 10^{-7}$.

References

[1] R. Aaij *et al.*, (LHCb collaboration), Phys. Lett. **B759**, 313, (2016), `arXiv:1603.07037` [hep-ex].

[2] R. Aaij *et al.*, (LHCb collaboration), Phys. Lett. **B726**, 646, (2013), `arXiv:1308.1277` [hep-ex].

[3] R. Aaij *et al.*, (LHCb collaboration), Phys. Rev. **D94**, 091102, (2016), `arXiv:1607.06134` [hep-ex].