Heavy FLavor AVeraging group (HFLAV) - November 2016

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

In PDG2014 New since PDG2014 (preliminary) New since PDG2014 (published)

RPP#	Mode	PDG2014 AVG.	LHCb	Our Avg.
	$f_c\mathcal{B}(B_c^+ \to K^+K^0)/f_u\mathcal{B}(B^+ \to K_S^0\pi^+)$	‡	$< 5.8 \times 10^{-2}$ [1]	$< 5.8 \times 10^{-2}$
	$f_c\mathcal{B}(B_c^+ \to p\bar{p}\pi^+)/f_u$		$< 2.8 \times 10^{-8}$ [2]	$< 2.8 \times 10^{-8}$
	$\sigma(B_c^+)\mathcal{B}(B_c^+ \to K^+K^-\pi^+)/\sigma(B^+)$ †		$< 15 \times 10^{-8}$ [3]	$< 15 \times 10^{-8}$

† Measured in the annihilation region m$(K^-\pi^+) < 1.834$GeV$/c^2$.
‡ 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. **B726**, 646, (2013), arXiv:1308.1277 [hep-ex].

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

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