

Heavy Flavor Averaging Group - ICHEP 2016

Compilation of B_c Branching Fractions ($\times 10^{-6}$) - UL at 90% CL

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

RPP#	Mode	PDG2014 AVG.	CDF	LHCb	New Avg.
	$f_c \mathcal{B}(B_c^+ \rightarrow K^+ K^0) / f_u \mathcal{B}(B^+ \rightarrow K_s^0 \pi^+)$	*		$< 5.8 \times 10^{-2}$	$< 5.8 \times 10^{-2}$
	$f_c \mathcal{B}(B_c^+ \rightarrow p \bar{p} \pi^+) / f_u$			$< 2.8 \times 10^{-8}$	$< 2.8 \times 10^{-8}$

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

B_c Branching Fractions: LHCb References

- [1] LHCb Collaboration, (R. Aaij *et al.*), Phys. Lett. B **726**, 646 (2013).
- [2] LHCb Collaboration, (R. Aaij *et al.*), Phys. Lett. B **759**. 313 (2016)