$B_c(1P)^{\pm}$

$I(J^P) = 0(?^?)$

OMITTED FROM SUMMARY TABLE

$B_c(1P)^{\pm}$ MASS

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
• • • We do not use the following data for averages, fits, limits, etc. • • •				
$6704.8 \pm 5.5 \pm 2.8$	[1,2] AAIJ	25AE	LHCB	pp at 7, 8, 13 TeV
$6752.4 \pm 9.5 \pm 3.1$	[2,3] AAIJ	25AE	LHCB	pp at 7, 8, 13 TeV

[1] The observed structure in $B_c^{\pm}\gamma$ is described by two Gaussian functions with power-law tails, the other one is at 6752.4 MeV.

[2] Consistent with unresolved contributions from $^3P_0$, $^3P_2$, mixed $^3P_1$ and $^1P_1$ (both decaying radiatively to $B_c^{\pm}$ and $B_c^{*\pm}$) (see AAIJ 25AF).

[3] The observed structure in $B_c^{\pm}\gamma$ is described by two Gaussian functions with power-law tails, the other one is at 6704.8 MeV.

$B_c(1P)^{\pm}$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$B_c^{\pm}\gamma$	seen

$B_c(1P)^{\pm}$ BRANCHING RATIOS

$\Gamma(B_c^{\pm}\gamma)/\Gamma_{\text{total}}$ Γ_1/Γ

VALUE	*DOCUMENT ID*		*TECN*	*COMMENT*
seen	AAIJ	25AE	LHCB	pp at 7, 8, 13 TeV

$B_c(1P)^{\pm}$ REFERENCES

AAIJ	25AE PRL 135 231902	R. Aaij *et al.*	(LHCb Collab.)
AAIJ	25AF PR D112 112003	R. Aaij *et al.*	(LHCb Collab.)