

$B_c(2S)^\pm$ 

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

OMITTED FROM SUMMARY TABLE

Quantum numbers neither measured nor confirmed.

 $B_c(2S)^\pm$  MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>6842±4±5</b>	57	<sup>1</sup> AAD	14AQ ATLS	<i>pp</i> at 7, 8 TeV

<sup>1</sup> Observed in the decay mode  $B_c(2S)^+ \rightarrow B_c^+ \pi^+ \pi^-$  ( $B_c^+ \rightarrow J/\psi \pi^+$ ) with 5.2 standard deviations significance.

 $B_c(2S)^\pm$  DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1 \quad B_c^+ \pi^+ \pi^-$	seen

 $B_c(2S)^\pm$  BRANCHING RATIOS

$\Gamma(B_c^+ \pi^+ \pi^-)/\Gamma_{\text{total}}$	$\Gamma_1/\Gamma$			
VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
<b>seen</b>	57	<sup>1</sup> AAD	14AQ ATLS	<i>pp</i> at 7, 8 TeV

<sup>1</sup> Observed with 5.2 standard deviations significance.

 $B_c(2S)^\pm$  REFERENCES

AAD      14AQ PRL 113 212004      G. Aad *et al.*      (ATLAS Collab.)