

 B_c^+

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

I, J, P need confirmation.

Quantum numbers shown are quark-model predicitions.

Mass $m = 6274.9 \pm 0.8$ MeV Mean life $\tau = (0.507 \pm 0.009) \times 10^{-12}$ s

 B_c^- modes are charge conjugates of the modes below.

			p
B_c^+ DECAY MODES $\times B(\overline{b} \rightarrow B_c)$	Fraction (Γ_i/Γ)	Confidence level	(MeV/ <i>c</i>)

The following quantities are not pure branching ratios; rather the fraction $\Gamma_i/\Gamma \times B(\overline{b} \rightarrow B_c)$.

$J/\psi(1S)\ell^+ u_\ell$ anything	(5.2 + 2.4)	$^4_{ m L}$) $ imes$ 10 $^{-5}$		_
$J/\psi(1S)\pi^+$	seen			2371
$J/\psi(1S)K^+$	seen			2341
$J/\psi(1S)\pi^+\pi^+\pi^-$	seen			2350
$J/\psi(1S) a_1(1260)$	< 1.2	imes 10 ⁻³	90%	2169
$J/\psi(1S)$ K $^+$ K $^ \pi^+$	seen			2203
$J/\psi(1S)\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}$	seen			2309
$\psi(2S)\pi^+$	seen			2052
$J/\psi(1S)D_s^+$	seen			1822
$J/\psi(1S)D_s^{*+}$	seen			1728
$J/\psi(1S) p \overline{\overline{p}} \pi^+$	seen			1792
$\chi_c^0 \pi^+$	$(2.4 \ +0.9 \ -0.8$	9_3) $ imes$ 10 $^{-5}$		2205
$\rho \overline{\rho} \pi^+$	(2.4 + 0.9) not seen	9_3) $ imes$ 10 $^{-5}$		2205 2970
	0.0	$\frac{9}{3}$) × 10 ⁻⁵ × 10 ⁻³	90%	
$p\overline{p}\pi^+$ $D^*(2010)^+\overline{D}^0$ D^+K^{*0}	not seen	-	90% 90%	2970
$p\overline{p}\pi^{+}$ $D^{*}(2010)^{+}\overline{D}^{0}$ $D^{+}K^{*0}$ $D^{+}\overline{K}^{*0}$	not seen	× 10 ⁻³		2970 2467
$p\overline{p}\pi^{+}$ $D^{*}(2010)^{+}\overline{D}^{0}$ $D^{+}K^{*0}$ $D^{+}\overline{K}^{*0}$	not seen < 6.2 < 0.20	$ \begin{array}{c} \times 10^{-3} \\ \times 10^{-6} \end{array} $	90%	2970 2467 2783
$p\overline{p}\pi^{+}$ $D^{*}(2010)^{+}\overline{D}^{0}$ $D^{+}K^{*0}$ $D^{+}\overline{K}^{*0}$	not seen < 6.2 < 0.20 < 0.16	$\times 10^{-3}$ $\times 10^{-6}$ $\times 10^{-6}$	90% 90%	2970 2467 2783 2783
$p\overline{p}\pi^{+}$ $D^{*}(2010)^{+}\overline{D}^{0}$ $D^{+}K^{*0}$ $D^{+}\overline{K}^{*0}$	not seen < 6.2 < 0.20 < 0.16 < 0.28		90% 90% 90%	2970 2467 2783 2783 2751
$p\overline{p}\pi^+$ $D^*(2010)^+\overline{D}^0$ D^+K^{*0}	not seen < 6.2 < 0.20 < 0.16 < 0.28 < 0.4		90% 90% 90% 90%	2970 2467 2783 2783 2751 2751

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