

# $h_c(1P)$

$$I^G(J^{PC}) = ??(???)$$

OMITTED FROM SUMMARY TABLE

Needs confirmation.

## $h_c(1P)$ MASS

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>3526.21 ± 0.25 OUR AVERAGE</b>				
3526.28 ± 0.18 ± 0.19	59	<sup>1</sup> ARMSTRONG 92D	E760	$\bar{p}p \rightarrow J/\psi \pi^0$
3525.4 ± 0.8 ± 0.4	5	BAGLIN	86 SPEC	$\bar{p}p \rightarrow J/\psi X$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
3527 ± 8	42	ANTONIAZZI 94	E705	$300 \pi^\pm, p\text{Li} \rightarrow J/\psi \pi^0 X$

<sup>1</sup> Mass central value and systematic error recalculated by us according to Eq. (16) in ARMSTRONG 93B, using the value for the  $\psi(2S)$  mass from AULCHENKO 03.

## $h_c(1P)$ WIDTH

<u>VALUE (MeV)</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<1.1	90	59	ARMSTRONG 92D	E760	$\bar{p}p \rightarrow J/\psi \pi^0$

## $h_c(1P)$ DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1 \quad J/\psi(1S)\pi^0$	seen
$\Gamma_2 \quad J/\psi(1S)\pi\pi$	not seen
$\Gamma_3 \quad p\bar{p}$	

## $\Gamma(J/\psi(1S)\pi\pi)/\Gamma(J/\psi(1S)\pi^0)$ $\Gamma_2/\Gamma_1$

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<0.18	90	ARMSTRONG 92D	E760	$\bar{p}p \rightarrow J/\psi \pi^0$

## $h_c(1P)$ REFERENCES

AULCHENKO 03	PL B573 63	V.M. Aulchenko <i>et al.</i>	(KEDR Collab.)
ANTONIAZZI 94	PR D50 4258	L. Antoniazzi <i>et al.</i>	(E705 Collab.)
ARMSTRONG 93B	PR D47 772	T.A. Armstrong <i>et al.</i>	(FNAL E760 Collab.)
ARMSTRONG 92D	PRL 69 2337	T.A. Armstrong <i>et al.</i>	(FNAL, FERR, GENO+)
BAGLIN	86 PL B171 135	C. Baglin <i>et al.</i>	(LAPP, CERN, TORI, STRB+)

## OTHER RELATED PAPERS

EICHTEN	02 PRL 89 162002	E.J. Eichten, K. Lane, C. Quigg
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