$h_c(1P)$

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

OMITTED FROM SUMMARY TABLE

Needs confirmation.

$h_c(1P)$ MASS

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

[1] 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

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

$h_c(1P)$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$J/\psi(1S)\pi^0$	seen
Γ_2	$J/\psi(1S)\pi\pi$	not seen
Γ_3	$p\overline{p}$	

$\Gamma(J/\psi(1S)\pi\pi)/\Gamma(J/\psi(1S)\pi^0)$ Γ_2/Γ_1

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

$h_c(1P)$ REFERENCES

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

OTHER RELATED PAPERS

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