$h_c(1P)$

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

OMITTED FROM SUMMARY TABLE

Observed in the reaction $\overline{p}p \to J/\psi(1S)\pi^0$ close to the center of gravity of the ^3P_J states and has characteristics consistent with what is expected for the $^1P_1$ state. First indications obtained by BAGLIN 86 in the reaction $\overline{p}p \to J/\psi(1S)X$. Needs confirmation.

$h_c(1P)$ MASS

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
3526.14±0.24 OUR AVERAGE					
3526.20±0.15±0.20	59	ARMSTRONG	92D	SPEC	$\overline{p}p \to J/\psi\pi^0$
3525.4 ±0.8 ±0.4	5	BAGLIN	86	SPEC	$\overline{p}p \to J/\psi X$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
3527 ±8	42	ANTONIAZZI	94	E705	300 $\pi^\pm$, pLi $\to J/\psi\pi^0 X$

$h_c(1P)$ WIDTH

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

$h_c(1P)$ 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	SPEC	$\overline{p}p \to J/\psi\pi^0$

$h_c(1P)$ REFERENCES

ANTONIAZZI	94	PR D50 4258	+Arenton+	(E705 Collab.)
ARMSTRONG	92D	PRL 69 2337	+Bettoni+	(FNAL, FERR, GENO, UCI, PENN, TORI)
BAGLIN	86	PL B171 135	+Baird+	(LAPP, CERN, TORI, STRB, OSLO, ROMA+)