

X(2000)

$$I^G(J^{PC}) = 1^-(??^+)$$

OMITTED FROM SUMMARY TABLE

BALTAY 77 favors $J^P = 3^+$. Needs confirmation.

X(2000) MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●					
1964 ± 35		¹ ARMSTRONG 93D	E760		$\bar{p}p \rightarrow 3\pi^0 \rightarrow 6\gamma$
~ 2100		¹ ANTIPOV 77	CIBS	-	25 $\pi^- p \rightarrow \rho\pi^- \rho_3$
2214 ± 15		BALTAY 77	HBC	0	15 $\pi^- p \rightarrow \Delta^{++} 3\pi$
2080 ± 40	208	KALELKAR 75	HBC	+	15 $\pi^+ p \rightarrow \rho\pi^+ \rho_3$

¹ Cannot determine spin to be 3.

X(2000) WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●					
225 ± 50		² ARMSTRONG 93D	E760		$\bar{p}p \rightarrow 3\pi^0 \rightarrow 6\gamma$
~ 500		² ANTIPOV 77	CIBS	-	25 $\pi^- p \rightarrow \rho\pi^- \rho_3$
355 ± 21		BALTAY 77	HBC	0	15 $\pi^- p \rightarrow \Delta^{++} 3\pi$
340 ± 80	208	KALELKAR 75	HBC	+	15 $\pi^+ p \rightarrow \rho\pi^+ \rho_3$

² Cannot determine spin to be 3.

X(2000) DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 3π	
Γ_2 $\rho_3(1690)\pi$	dominant

X(2000) BRANCHING RATIOS

$\Gamma(\rho_3(1690)\pi)/\Gamma(3\pi)$	Γ_2/Γ_1			
VALUE	DOCUMENT ID	TECN	CHG	COMMENT
dominant	KALELKAR 75	HBC	+	15 $\pi^+ p \rightarrow \rho_3\pi$

X(2000) REFERENCES

ARMSTRONG	93D	PL B307 399	T.A. Armstrong <i>et al.</i>	(FNAL, FERR, GENO+)
ANTIPOV	77	NP B119 45	Y.M. Antipov <i>et al.</i>	(SERP, GEVA)
BALTAY	77	PRL 39 591	C. Baltay, C.V. Cautis, M. Kalelkar	(COLU) JP
KALELKAR	75	Thesis Nevis 207	M.S. Kalelkar	(COLU)

OTHER RELATED PAPERS

HARRIS	81	ZPHY C9 275	R.M. Harris <i>et al.</i>	(SEAT, UCB)
HUSON	68	PL 28B 208	R. Huson <i>et al.</i>	(ORSAY, MILA, UCLA)
DANYSZ	67B	NC 51A 801	J.A. Danysz, B.R. French, V. Simak	(CERN)
