

# 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		<sup>1</sup> ARMSTRONG 93D	E760		$\bar{p}p \rightarrow 3\pi^0 \rightarrow 6\gamma$
~ 2100		<sup>1</sup> 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 $\pi^+ p \rightarrow \rho\pi^+ \rho_3$

<sup>1</sup> 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		<sup>2</sup> ARMSTRONG 93D	E760		$\bar{p}p \rightarrow 3\pi^0 \rightarrow 6\gamma$
~ 500		<sup>2</sup> 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 $\pi^+ p \rightarrow \rho\pi^+ \rho_3$

<sup>2</sup> Cannot determine spin to be 3.

## X(2000) DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $3\pi$	
$\Gamma_2$ $\rho_3(1690)\pi$	dominant

## X(2000) BRANCHING RATIOS

$\Gamma(\rho_3(1690)\pi)/\Gamma(3\pi)$	$\Gamma_2/\Gamma_1$			
VALUE	DOCUMENT ID	TECN	CHG	COMMENT
<b>dominant</b>	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)

---