Meson Full Listings

$X(1900–3600)$

VALUE (MeV)	DOCUMENT ID		TECN	CHG	COMMENT
2195 ± 15	FOCACCI	66	MMS	–	3–12 $\pi^- p$
39 ± 14	FOCACCI	66	MMS	–	3–12 $\pi^- p$

VALUE (MeV)	DOCUMENT ID		TECN	CHG	COMMENT
2207.0 ± 22.0	[4] CASO	70	HBC	–	11.2 $\pi^- p$
130.0	[4] CASO	70	HBC	–	11.2 $\pi^- p$

VALUE (MeV)	DOCUMENT ID		TECN	CHG	COMMENT
2300.0 ± 100.0	ATKINSON	84F	OMEG	±0	20–70 $\gamma p \rightarrow \rho f$
~ 250.0	ATKINSON	84F	OMEG	±0	20–70 $\gamma p \rightarrow \rho f$

VALUE (MeV)	DOCUMENT ID		TECN	CHG	COMMENT
2330 ± 30	ATKINSON	88	OMEG	0	25–50 $\gamma p \rightarrow \rho^{\pm} \rho^0 \pi^{\mp}$
435 ± 75	ATKINSON	88	OMEG	0	25–50 $\gamma p \rightarrow \rho^{\pm} \rho^0 \pi^{\mp}$

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	CHG	COMMENT
2340 ± 20	126	[5] BALTAY	75	HBC	+	15 $\pi^+ p \rightarrow p 5\pi$
180 ± 60	126	[5] BALTAY	75	HBC	+	15 $\pi^+ p \rightarrow p 5\pi$

VALUE (MeV)	DOCUMENT ID		TECN	CHG	COMMENT
2382 ± 24	FOCACCI	66	MMS	–	3–12 $\pi^- p$
62 ± 6	FOCACCI	66	MMS	–	3–12 $\pi^- p$

VALUE (MeV)	DOCUMENT ID		TECN	CHG	COMMENT
2500.0 ± 32.0	ANDERSON	69	MMS	–	16 $\pi^- p$ backward
87.0	ANDERSON	69	MMS	–	16 $\pi^- p$ backward

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	CHG	COMMENT
2620 ± 20	550	BAUD	69	MMS	–	8–10 $\pi^- p$
85 ± 30	550	BAUD	69	MMS	–	8–10 $\pi^- p$

VALUE (MeV)	DOCUMENT ID		TECN	CHG	COMMENT
2676.0 ± 27.0	[4] CASO	70	HBC	–	11.2 $\pi^- p$
150.0	[4] CASO	70	HBC	–	11.2 $\pi^- p$

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
2747 ± 32	DENNEY	83	LASS	10 $\pi^+ N$
195 ± 75	DENNEY	83	LASS	10 $\pi^+ N$

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	CHG	COMMENT
2800 ± 20	640	BAUD	69	MMS	–	8–10 $\pi^- p$
46 ± 10	640	BAUD	69	MMS	–	8–10 $\pi^- p$

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	CHG	COMMENT
2820 ± 10	15	[6] SABAU	71	HBC	+	8 $\pi^+ p$
50 ± 10	15	[6] SABAU	71	HBC	+	8 $\pi^+ p$

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	CHG	COMMENT
2880 ± 20	230	BAUD	69	MMS	–	8–10 $\pi^- p$
< 15	230	BAUD	69	MMS	–	8–10 $\pi^- p$

VALUE (MeV)	DOCUMENT ID		TECN	CHG	COMMENT
3025.0 ± 20.0	BAUD	70	MMS	–	10.5–13 $\pi^- p$
~ 25.0	BAUD	70	MMS	–	10.5–13 $\pi^- p$

VALUE (MeV)	DOCUMENT ID		TECN	CHG	COMMENT
3075.0 ± 20.0	BAUD	70	MMS	–	10.5–13 $\pi^- p$
~ 25.0	BAUD	70	MMS	–	10.5–13 $\pi^- p$

VALUE (MeV)	DOCUMENT ID		TECN	CHG	COMMENT
3145.0 ± 20.0	BAUD	70	MMS	–	10.5–15 $\pi^- p$
< 10.0	BAUD	70	MMS	–	10.5–15 $\pi^- p$

VALUE (MeV)	DOCUMENT ID		TECN	CHG	COMMENT
3475.0 ± 20.0	BAUD	70	MMS	–	14–15.5 $\pi^- p$
~ 30.0	BAUD	70	MMS	–	14–15.5 $\pi^- p$

VALUE (MeV)	DOCUMENT ID		TECN	CHG	COMMENT
3535.0 ± 20.0	BAUD	70	MMS	–	14–15.5 $\pi^- p$
~ 30.0	BAUD	70	MMS	–	14–15.5 $\pi^- p$

[2] Seen in $J = 2$ wave in one of the two ambiguous solutions.
[3] Seen in $J = 0$ wave in one of the two ambiguous solutions.
[4] Seen in $\rho^- \pi^+ \pi^-$ (ω and η antiselected in 4π system).
[5] Dominant decay into $\rho^0 \rho^0 \pi^+$. BALTAY 78 finds confirmation in $2\pi^+ \pi^- 2\pi^0$ events which contain $\rho^+ \rho^0 \pi^0$ and $2\rho^+ \pi^-$.
[6] Seen in $(K \overline{K} \pi \pi)$ mass distribution.

$X(1900–3600)$ REFERENCES

ARMSTRONG	89E	PL B228 536	+Benayoun	(ATHU, BARI, BIRM, CERN, CDEF, CURIN+)
BISELLO	89B	PR D39 701	Busetto+	(DM2 Collab.)
ATKINSON	88	ZPHY C38 535	+Axon+	(BONN, CERN, GLAS, LANC, MCHS, CURIN)
ALDE	86D	NP B269 485	+Binon, Bricman+	(BELG, LAPP, SERP, CERN)
GREEN	86	PRL 56 1639	+Lai+	(FNAL, ARIZ, FSU, NDAM, TUFTS, VAND+)
ATKINSON	84F	NP B239 1	+	(BONN, CERN, GLAS, LANC, MCHS, IPNP+)
DENNEY	83	PR D28 2726	+Cranley, Firestone, Chapman+	(IOWA, MICH) J
CHLIAPNIK...	80	ZPHY C3 285	Chliapnikov, Gerdyukov+	(SERP, BRUX, MONS)
BALTAY	78	PR D17 52	+Cautis, Cohen, Csorna, Kalelkar+	(COLU, BING)
BALTAY	75	PRL 35 891	+Cautis, Cohen, Kalelkar, Pisello+	(COLU, BING)
THOMPSON	74	NP B69 220	+Gaidos, McIlwain, Miller, Mulera+	(PURD)
TAKAHASHI	72	PR D6 1266	+Barish+	(TOHOK, PENN, NDAM, ANL)
SABAU	71	LNC 1 514	+Uretsky	(BUCH, ANL)
BAUD	70	PL 31B 549	+Benz+	(CERN Boson Spectrometer Collab.)
CASO	70	LNC 3 707	+Conte, Tomasini+	(GENO, HAMB, MILA, SACL)
ANDERSON	69	PRL 22 1390	+Collins+	(BNL, CMU)
BAUD	69	PL 30B 129	+Benz+	(CERN Boson Spectrometer Collab.)
BOESEBECK	68	NP B4 501	+Deutschmann+	(AACH, BERL, CERN)
CLAYTON	67	Heidelberg Conf. 57	+Mason, Muirhead, Filippas+	(LIVP, ATHU)
FOCACCI	66	PRL 17 890	+Kienzle, Levrat, Maglich, Martin	(CERN)

OTHER RELATED PAPERS

ANTIPOV	72	PL 40 147	+Kienzle, Landsberg+	(SERP)
CHIKOVANI	66	PL 22 233	+Kienzle, Maglich+	(SERP)