

Further States

OMITTED FROM SUMMARY TABLE

This section contains states observed by a single group or states poorly established that thus need confirmation. Publications that exclude earlier claims in this section are listed under 'Other Related Papers.'

QUANTUM NUMBERS, MASSES, WIDTHS, AND BRANCHING RATIOS

X(1070) $I^G(J^{PC}) = ?^?(0^{++})$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1072±1	3.5 ± 0.5	¹ VLADIMIRSK...08	40	$\pi^- p \rightarrow K_S^0 K_S^0 n + m\pi^0$
¹ Supersedes GRIGOR'EV 05.				

X(1110) $I^G(J^{PC}) = 0^+(\text{even}^{++})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
1107±4	111 ± 8 ± 15	DAFTARI	87	DBC	0. $\bar{p}n \rightarrow \rho^- \pi^+ \pi^-$

f₀(1200–1600) $I^G(J^{PC}) = 0^+(0^{++})$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1323± 8	237 ± 20	VLADIMIRSK...06	SPEC	40 $\pi^- p \rightarrow K_S^0 K_S^0 n$
1480 ⁺¹⁰⁰ ₋₁₅₀	1030 ^{+ 80} ₋₁₇₀	² ANISOVICH	03	SPEC
1530 ^{+ 90} ₋₂₅₀	560 ± 40	³ ANISOVICH	03	SPEC

² K-matrix pole from combined analysis of $\pi^- p \rightarrow \pi^0 \pi^0 n$, $\pi^- p \rightarrow K \bar{K} n$, $\pi^+ \pi^- \rightarrow \pi^+ \pi^-$, $\bar{p}p \rightarrow \pi^0 \pi^0 \pi^0$, $\pi^0 \eta \eta$, $\pi^0 \pi^0 \eta$, $\pi^+ \pi^- \pi^0$, $K^+ K^- \pi^0$, $K_S^0 K_S^0 \pi^0$, $K^+ K_S^0 \pi^-$ at rest, $\bar{p}n \rightarrow \pi^- \pi^- \pi^+$, $K_S^0 K^- \pi^0$, $K_S^0 K_S^0 \pi^-$ at rest.

³ K-matrix pole from combined analysis of $\pi^- p \rightarrow \pi^0 \pi^0 n$, $\pi^- p \rightarrow K \bar{K} n$, $\bar{p}p \rightarrow \pi^0 \pi^0 \pi^0$, $\pi^0 \eta \eta$, $\pi^0 \pi^0 \eta$ at rest.

X(1420) $I^G(J^{PC}) = 2^+(0^{++})$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1420±20	160 ± 10	FILIPPI	00	OBLX 0 $\bar{p}p \rightarrow \pi^+ \pi^+ \pi^-$

X(1545) $I^G(J^{PC}) = ?^?(?^{++})$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1545±3	6.0 ± 2.5	⁴ VLADIMIRSK...08	40	$\pi^- p \rightarrow K_S^0 K_S^0 n + m\pi^0$

⁴Supersedes VLADIMIRSKII 00.

X(1575) $I^G(J^{PC}) = ??(1^{--})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
1576 ⁺⁴⁹⁺⁹⁸ ₋₅₅₋₉₁	818 ⁺²²⁺⁶⁴ ₋₂₃₋₁₃₃	⁵ ABLIKIM	06S BES	$J/\psi \rightarrow K^+ K^- \pi^0$	

⁵ A broad peak observed at $K^+ K^-$ invariant mass. Mass and width above are its pole position. The observed branching ratio is $B(J/\psi \rightarrow X \pi^0) B(X \rightarrow K^+ K^-) = (8.5 \pm 0.6^{+2.7}_{-3.6}) \times 10^{-4}$.

X(1600) $I^G(J^{PC}) = 2^+(2^{++})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
1600 \pm 100	400 \pm 200	⁶ ALBRECHT	91F ARG	10.2 $e^+ e^- \rightarrow e^+ e^- 2(\pi^+ \pi^-)$	

⁶ Our estimate.

X(1650) $I^G(J^{PC}) = 0^-(??^-)$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1652 \pm 7	<50	100	PROKOSHKIN 96	GAM2	32,38 $\pi p \rightarrow \omega \eta n$

X(1730) $I^G(J^{PC}) = ??(??^+)$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1731.0 \pm 1.2 \pm 2.0	3.2 \pm 0.8 \pm 1.3	58	VLADIMIRSK...07	SPEC	40 $\pi^- p \rightarrow K_S^0 K_S^0 X$

X(1750) $I^G(J^{PC}) = ??(1^{--})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
1753.5 \pm 1.5 \pm 2.3	122.2 \pm 6.2 \pm 8.0	LINK	02K FOCS	20-160 $\gamma p \rightarrow K^+ K^- p$	

$B(X(1750) \rightarrow \bar{K}^*(892)^0 K^0 \rightarrow K^\pm \pi^\mp K_S^0) / B(X(1750) \rightarrow K^+ K^-)$

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>
<0.065	90	LINK	02K FOCS

$B(X(1750) \rightarrow \bar{K}^*(892)^\pm K^\mp \rightarrow K^\pm \pi^\mp K_S^0) / B(X(1750) \rightarrow K^+ K^-)$

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>
<0.183	90	LINK	02K FOCS

f₂(1750) $I^G(J^{PC}) = 0^+(2^{++})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1755 \pm 10	67 \pm 12	870	⁷ SCHEGELSKY 06A	RVUE	$\gamma\gamma \rightarrow K_S^0 K_S^0$

$\Gamma(K\bar{K})$

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
17 \pm 5	870	⁸ SCHEGELSKY 06A	RVUE	$\gamma\gamma \rightarrow K_S^0 K_S^0$

$\Gamma(\gamma\gamma)$

<u>VALUE (keV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.13±0.04	870	⁸ SCHEGELSKY 06A	RVUE	$\gamma\gamma \rightarrow K_S^0 K_S^0$

$\Gamma(\pi\pi)$

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1.3±1.0	870	⁸ SCHEGELSKY 06A	RVUE	$\gamma\gamma \rightarrow K_S^0 K_S^0$

$\Gamma(\eta\eta)$

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2.0±0.5	870	⁸ SCHEGELSKY 06A	RVUE	$\gamma\gamma \rightarrow K_S^0 K_S^0$

⁷ From analysis of L3 data at 91 and 183–209 GeV.

⁸ From analysis of L3 data at 91 and 183–209 GeV and using SU(3) relations.

X(1775) $I^G(J^{PC}) = 1^-(?^-+)$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1763±20	192 ± 60	CONDO 91	SHF	$\gamma p \rightarrow (p\pi^+)(\pi^+\pi^-\pi^-)$
1787±18	118 ± 60	CONDO 91	SHF	$\gamma p \rightarrow n\pi^+\pi^+\pi^-$

X(1855) $I^G(J^{PC}) = ?^?(?^{??})$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1856.6±5	20 ± 5	BRIDGES	86D	SPEC 0. $\bar{p}d \rightarrow \pi\pi N$

X(1870) $I^G(J^{PC}) = ?^?(2^{??})$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1870±40	250 ± 30	ALDE	86D	GAM4 100 $\pi^- p \rightarrow 2\eta X$

a₃(1875) $I^G(J^{PC}) = 1^-(3^{++})$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1874±43±96	385 ± 121 ± 114	CHUNG	02	B852 18.3 $\pi^- p \rightarrow \pi^+\pi^-\pi^- p$

B(a₃(1875) → f₂(1270)π)/B(a₃(1875) → ρπ)

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.8±0.2	⁹ CHUNG 02	B852	18.3 $\pi^- p \rightarrow \pi^+\pi^-\pi^- p$

⁹ Using the observable fractions of 50.0% $\rho\pi$, 56.5% $f_2\pi$, and 11.8% $\rho_3\pi$.

B(a₃(1875) → ρ₃(1690)π)/B(a₃(1875) → ρπ)

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.9±0.3	¹⁰ CHUNG 02	B852	18.3 $\pi^- p \rightarrow \pi^+\pi^-\pi^- p$

¹⁰ Using the observable fractions of 50.0% $\rho\pi$, 56.5% $f_2\pi$, and 11.8% $\rho_3\pi$.

$a_1(1930)$ $I^G(J^{PC}) = 1^-(1^{++})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
1930 ⁺³⁰ ₋₇₀	155 ± 45	ANISOVICH	01F	SPEC	2.0 $\bar{p}p \rightarrow 3\pi^0, \pi^0\eta, \pi^0\eta'$

$X(1935)$ $I^G(J^{PC}) = 1^+(1^{-?})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
1935 ± 20	215 ± 30	EVANGELIS...	79	OMEG	10,16 $\pi^-p \rightarrow \bar{p}pn$

$\rho_2(1940)$ $I^G(J^{PC}) = 1^+(2^{--})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
1940 ± 40	155 ± 40	¹¹ ANISOVICH	02	SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\pi^0, \omega\eta\pi^0, \pi^+\pi^-$

¹¹ From the combined analysis of ANISOVICH 00J, ANISOVICH 01D, ANISOVICH 01E, and ANISOVICH 02.

$\omega_3(1945)$ $I^G(J^{PC}) = 0^-(3^{--})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
1945 ± 20	115 ± 22	¹² ANISOVICH	02B	SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\eta, \omega\pi^0\pi^0$

¹² From the combined analysis of ANISOVICH 00D, ANISOVICH 01C, and ANISOVICH 02B.

$\omega(1960)$ $I^G(J^{PC}) = 0^-(1^{--})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
1960 ± 25	195 ± 60	¹³ ANISOVICH	02B	SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\eta, \omega\pi^0\pi^0$

¹³ From the combined analysis of ANISOVICH 00D, ANISOVICH 01C, and ANISOVICH 02B.

$b_1(1960)$ $I^G(J^{PC}) = 1^+(1^{+-})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
1960 ± 35	230 ± 50	¹⁴ ANISOVICH	02	SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\pi^0, \omega\eta\pi^0, \pi^+\pi^-$

¹⁴ From the combined analysis of ANISOVICH 00J, ANISOVICH 01D, ANISOVICH 01E, and ANISOVICH 02.

$h_1(1965)$ $I^G(J^{PC}) = 0^-(1^{+-})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
1965 ± 45	345 ± 75	¹⁵ ANISOVICH	02B	SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\eta, \omega\pi^0\pi^0$

¹⁵ From the combined analysis of ANISOVICH 00D, ANISOVICH 01C, and ANISOVICH 02B.

$f_1(1970)$		$I^G(J^{PC}) = 0^+(1^{++})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>		
1971 ± 15	240 ± 45	ANISOVICH	00J	SPEC	

$X(1970)$		$I^G(J^{PC}) = ??(???)$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
1970 ± 10	40 ± 20	CHLIAPNIK...	80	HBC	32 $K^+ p \rightarrow 2K_S^0 2\pi X$

$X(1975)$		$I^G(J^{PC}) = ??(???)$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1973 ± 15	80	30	CASO	70	HBC 11.2 $\pi^- p \rightarrow \rho 2\pi$

$\omega_2(1975)$		$I^G(J^{PC}) = 0^-(2^{--})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
1975 ± 20	175 ± 25	¹⁶ ANISOVICH	02B	SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\eta, \omega\pi^0\pi^0$

¹⁶ From the combined analysis of ANISOVICH 00D, ANISOVICH 01C, and ANISOVICH 02B.

$a_2(1990)$		$I^G(J^{PC}) = 1^-(2^{++})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2050 ± 10 ± 40	190 ± 22 ± 100	18k	¹⁷ SCHEGELSKY	06	RVUE $\gamma\gamma \rightarrow \pi^+\pi^-\pi^0$
2003 ± 10 ± 19	249 ± 23 ± 32		LU	05	B852 18 $\pi^- p \rightarrow \omega\pi^-\pi^0 p$
1990 ⁺¹⁵ ₋₃₀	190 ± 50		ANISOVICH	99c	SPEC

¹⁷ From analysis of L3 data at 183–209 GeV.

$\Gamma(\gamma\gamma) \Gamma(\pi^+\pi^-\pi^0) / \Gamma(\text{total})$					
<u>VALUE (keV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
0.11 ± 0.04 ± 0.05	18k	¹⁸ SCHEGELSKY	06	RVUE	$\gamma\gamma \rightarrow \pi^+\pi^-\pi^0$

¹⁸ From analysis of L3 data at 183–209 GeV.

$\rho(2000)$		$I^G(J^{PC}) = 1^+(1^{--})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>		
2000 ± 30	260 ± 45	¹⁹ BUGG	04c	RVUE	

¹⁹ From the combined analysis of ANISOVICH 00J, ANISOVICH 01D, ANISOVICH 01E, and ANISOVICH 02.

$f_2(2000)$		$I^G(J^{PC}) = 0^+(2^{++})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>		
2001 ± 10	312 ± 32	ANISOVICH 00J	SPEC		

$X(2000)$		$I^G(J^{PC}) = 1^-(?^{?+})$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>	
1964 ± 35	225 ± 50	²⁰ ARMSTRONG 93D	E760		$\bar{p}p \rightarrow 3\pi^0 \rightarrow 6\gamma$	
~ 2100	~ 500	²⁰ ANTIPOV 77	CIBS	-	25 $\pi^- p \rightarrow p\pi^- \rho_3$	
2214 ± 15	355 ± 21	²¹ BALTAY 77	HBC	0	15 $\pi^- p \rightarrow \Delta^{++} 3\pi$	
2080 ± 40	340 ± 80	KALELKAR 75	HBC	+	15 $\pi^+ p \rightarrow p\pi^+ \rho_3$	

²⁰ Cannot determine spin to be 3.
²¹ BALTAY 77 favors $J^P = ,3^+$.

$X(2000)$		$I^G(J^{PC}) = ?^?(4^{++})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
1998 ± 3 ± 5	<15	VLADIMIRSK...03	SPEC	$\pi^- p \rightarrow K_S^0 K_S^0 M M$	

$\pi_2(2005)$		$I^G(J^{PC}) = 1^-(2^{-+})$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
1974 ± 14 ± 83	341 ± 61 ± 139	145k	LU 05	B852	18 $\pi^- p \rightarrow \omega\pi^-\pi^0 p$	
2005 ± 15	200 ± 40		ANISOVICH 01F	SPEC	2.0 $\bar{p}p \rightarrow 3\pi^0, \pi^0\eta, \pi^0\eta'$	

$\eta(2010)$		$I^G(J^{PC}) = 0^+(0^{-+})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>		
2010 ⁺³⁵ ₋₆₀	270 ± 60	ANISOVICH 00J	SPEC		

$\pi_1(2015)$		$I^G(J^{PC}) = 1^-(1^{-+})$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2014 ± 20 ± 16	230 ± 32 ± 73	145k	LU 05	B852	18 $\pi^- p \rightarrow \omega\pi^-\pi^0 p$	
2001 ± 30 ± 92	333 ± 52 ± 49	69k	KUHN 04	B852	18 $\pi^- p \rightarrow \eta\pi^+\pi^-\pi^- p$	

$a_0(2020)$		$I^G(J^{PC}) = 1^-(0^{++})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>		
2025 ± 30	330 ± 75	ANISOVICH 99C	SPEC		

X(2020) $I^G(J^{PC}) = ??(???)$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2015 ± 3	10 ± 4	FERRER	99	RVUE $\pi p \rightarrow p p \bar{p} \pi(\pi)$

h₃(2025) $I^G(J^{PC}) = 0^-(3^{+-})$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2025 ± 20	145 ± 30	²² ANISOVICH	02B	SPEC 0.6–1.9 $p \bar{p} \rightarrow \omega \eta, \omega \pi^0 \pi^0$

²² From the combined analysis of ANISOVICH 00D, ANISOVICH 01C, and ANISOVICH 02B.

b₃(2025) $I^G(J^{PC}) = 1^+(3^{+-})$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2032 ± 12	117 ± 11	²³ ANISOVICH	02	SPEC 0.6–1.9 $p \bar{p} \rightarrow \omega \pi^0, \omega \eta \pi^0, \pi^+ \pi^-$

²³ From the combined analysis of ANISOVICH 00J, ANISOVICH 01D, ANISOVICH 01E, and ANISOVICH 02.

η₂(2030) $I^G(J^{PC}) = 0^+(2^{-+})$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>
2030 ± 5 ± 15	205 ± 10 ± 15	ANISOVICH	00E SPEC

B(a₂π)_{L=0}/B(a₂π)_{L=2}

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>
0.74 ± 0.17	²⁴ ANISOVICH	00E SPEC

B(a₀π)/B(a₂π)_{L=2}

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>
0.072 ± 0.016	²⁴ ANISOVICH	00E SPEC

B(f₂η)/B(a₂π)_{L=2}

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>
0.074 ± 0.026	²⁴ ANISOVICH	00E SPEC

²⁴ Corrected for all decay modes.

f₃(2050) $I^G(J^{PC}) = 0^+(3^{++})$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2048 ± 8	213 ± 34	ANISOVICH	00J	SPEC 2.0 $p \bar{p} \rightarrow \eta \pi^0 \pi^0$

f₀(2060) $I^G(J^{PC}) = 0^+(0^{++})$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
~ 2050	~ 120	²⁵ OAKDEN	94	RVUE 0.36–1.55 $\bar{p} p \rightarrow \pi \pi$
~ 2060	~ 50	²⁵ OAKDEN	94	RVUE 0.36–1.55 $\bar{p} p \rightarrow \pi \pi$

²⁵ See SEMENOV 99 and KLOET 96.

$\pi(2070)$		$I^G(J^{PC}) = 1^-(0^-+)$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2070 ± 35	310 ⁺¹⁰⁰ ₋₅₀	ANISOVICH	01F SPEC	2.0 $\bar{p}p \rightarrow 3\pi^0, \pi^0\eta, \pi^0\eta'$	

$a_3(2070)$		$I^G(J^{PC}) = 1^-(3^{++})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>		
2070 ± 20	170 ± 40	ANISOVICH	99C SPEC		

$X(2075)$		$I^G(J^{PC}) = ?^?(?^{??})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2075 ± 12 ± 5	90 ± 35 ± 9	²⁶ ABLIKIM	04J BES2	$J/\psi \rightarrow K^- p \bar{\Lambda}$	
²⁶ From a fit in the region $M_{p\bar{\Lambda}} - M_p - M_{\Lambda} < 150$ MeV. S-wave in the $p\bar{\Lambda}$ system preferred.					

$a_2(2080)$		$I^G(J^{PC}) = 1^-(2^{++})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>		
2060 ± 20	195 ± 30	ANISOVICH	99C SPEC		
2100 ⁺¹⁰ ₋₃₀	360 ⁺⁴⁰ ₋₁₀₀	ANISOVICH	99E SPEC		

$X(2080)$		$I^G(J^{PC}) = ?^?(?^{??})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2080 ± 10	110 ± 20	KREYMER	80 STRC	13 $\pi^- d \rightarrow p \bar{p} n(n_S)$	

$X(2080)$		$I^G(J^{PC}) = ?^?(3^{-?})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2080 ± 10	190 ± 15	ROZANSKA	80 SPRK	18 $\pi^- p \rightarrow p \bar{p} n$	

$a_1(2095)$		$I^G(J^{PC}) = 1^-(1^{++})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2096 ± 17 ± 121	451 ± 41 ± 81	69k	KUHN	04 B852	18 $\pi^- p \rightarrow \eta\pi^+\pi^-\pi^-p$

$B(a_1(2095) \rightarrow f_1(1285)\pi) / B(a_1(2095) \rightarrow a_1(1260))$					
<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
3.18 ± 0.64	69k	KUHN	04 B852	18 $\pi^- p \rightarrow \eta\pi^+\pi^-\pi^-p$	

$\eta(2100)$		$I^G(J^{PC}) = 0^+(0^-+)$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2103 ± 50	187 ± 75	586	²⁷ BISELLO	89B DM2	$J/\psi \rightarrow 4\pi\gamma$

²⁷ ASTON 81B sees no peak, has 850 events in Ajinenko+Barth bins. ARESTOV 80 sees no peak.

X(2100) $I^G(J^{PC}) = ??(0^{??})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2100±40	250 ± 40	ALDE	86D	GAM4	100 $\pi^- p \rightarrow 2\eta X$

X(2110) $I^G(J^{PC}) = 1^+(3^{-?})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2110±10	330 ± 20	EVANGELIS...	79	OMEG	10,16 $\pi^- p \rightarrow \bar{p}pn$

f₂(2140) $I^G(J^{PC}) = 0^+(2^{++})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2141±12	49 ± 28	389	GREEN	86	MPSF 400 $pA \rightarrow 4KX$

X(2150) $I^G(J^{PC}) = ??(2^{+?})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2150±10	260 ± 10	ROZANSKA	80	SPRK	18 $\pi^- p \rightarrow p\bar{p}n$

a₂(2175) $I^G(J^{PC}) = 1^-(2^{++})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2175±40	310 ⁺⁹⁰ ₋₄₅	ANISOVICH	01F	SPEC	2.0 $\bar{p}p \rightarrow 3\pi^0, \pi^0\eta, \pi^0\eta'$

η(2190) $I^G(J^{PC}) = 0^+(0^{-+})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2190±50	850 ± 100	BUGG	99	BES	

ω₂(2195) $I^G(J^{PC}) = 0^-(2^{--})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2195±30	225 ± 40	²⁸ ANISOVICH	02B	SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\eta, \omega\pi^0\pi^0$
²⁸ From the combined analysis of ANISOVICH 00D, ANISOVICH 01C, and ANISOVICH 02B.					

ω(2205) $I^G(J^{PC}) = 0^-(1^{--})$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2205±30	350 ± 90	²⁹ ANISOVICH	02B	SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\eta, \omega\pi^0\pi^0$

²⁹ From the combined analysis of ANISOVICH 00D, ANISOVICH 01C, and ANISOVICH 02B.

X(2210) $I^G(J^{PC}) = ??(???)$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2210 ⁺⁷⁹ ₋₂₁	203 ⁺⁴³⁷ ₋₈₇	EVANGELIS...	79B	OMEG	10 $\pi^- p \rightarrow K^+ K^- n$

X(2210) $I^G(J^{PC}) = ??(???)$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2207±22	130	CASO	70	HBC	11.2 $\pi^- p$

h₁(2215) $I^G(J^{PC}) = 0^-(1^+ -)$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2215±40	325 ± 55	³⁰ ANISOVICH	02B	SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\eta, \omega\pi^0\pi^0$

³⁰ From the combined analysis of ANISOVICH 00D, ANISOVICH 01C, and ANISOVICH 02B.

b₁(2240) $I^G(J^{PC}) = 1^+(1^+ -)$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2240±35	320 ± 85	³¹ ANISOVICH	02	SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\pi^0, \omega\eta\pi^0, \pi^+\pi^-$

³¹ From the combined analysis of ANISOVICH 00J, ANISOVICH 01D, ANISOVICH 01E, and ANISOVICH 02.

ρ₂(2240) $I^G(J^{PC}) = 1^+(2^- -)$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2225±35	335 ⁺¹⁰⁰ ₋₅₀	³² ANISOVICH	02	SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\pi^0, \omega\eta\pi^0, \pi^+\pi^-$

³² From the combined analysis of ANISOVICH 00J, ANISOVICH 01D, ANISOVICH 01E, and ANISOVICH 02.

ρ₄(2240) $I^G(J^{PC}) = 1^+(4^- -)$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2230±25	210 ± 30	³³ ANISOVICH	02	SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\pi^0, \omega\eta\pi^0, \pi^+\pi^-$

³³ From the combined analysis of ANISOVICH 00J, ANISOVICH 01D, ANISOVICH 01E, and ANISOVICH 02.

π₂(2245) $I^G(J^{PC}) = 1^-(2^- +)$					
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2245±60	320 ⁺¹⁰⁰ ₋₄₀	ANISOVICH	01F	SPEC	2.0 $\bar{p}p \rightarrow 3\pi^0, \pi^0\eta, \pi^0\eta'$

$b_3(2245)$ $I^G(J^{PC}) = 1^+(3^{--})$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>
2245 ± 50	320 ± 70	³⁴ BUGG	04C RVUE

³⁴ From the combined analysis of ANISOVICH 00J, ANISOVICH 01D, ANISOVICH 01E, and ANISOVICH 02.

$\eta_2(2250)$ $I^G(J^{PC}) = 0^+(2^{-+})$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>
2248 ± 20	280 ± 20	ANISOVICH	00I SPEC
2267 ± 14	290 ± 50	ANISOVICH	00J SPEC

$\pi_4(2250)$ $I^G(J^{PC}) = 1^-(4^{-+})$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2250 ± 15	215 ± 25	ANISOVICH	01F SPEC	2.0 $\bar{p}p \rightarrow 3\pi^0, \pi^0\eta, \pi^0\eta'$

$\omega_4(2250)$ $I^G(J^{PC}) = 0^-(4^{--})$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2250 ± 30	150 ± 50	³⁵ ANISOVICH	02B SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\eta, \omega\pi^0\pi^0$

³⁵ From the combined analysis of ANISOVICH 00D, ANISOVICH 01C, and ANISOVICH 02B.

$\omega_5(2250)$ $I^G(J^{PC}) = 0^-(5^{--})$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>
2250 ± 70	320 ± 95	³⁶ BUGG	04 RVUE

³⁶ From the combined analysis of ANISOVICH 00D, ANISOVICH 01C, and ANISOVICH 02B.

$\omega_3(2255)$ $I^G(J^{PC}) = 0^-(3^{--})$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2255 ± 15	175 ± 30	³⁷ ANISOVICH	02B SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\eta, \omega\pi^0\pi^0$

³⁷ From the combined analysis of ANISOVICH 00D, ANISOVICH 01C, and ANISOVICH 02B.

$X(2260)$ $I^G(J^{PC}) = 0^+(4^{+?})$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2260 ± 20	400 ± 100	EVANGELIS...	79 OMEG	10,16 $\pi^- p \rightarrow \bar{p}pn$

$\rho(2270)$ $I^G(J^{PC}) = 1^+(1^{--})$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2265 ± 40	325 ± 80	³⁸ ANISOVICH	02 SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\pi^0, \omega\eta\pi^0, \pi^+\pi^-$
2280 ± 50	440 ± 110	ATKINSON	85 OMEG	20–70 $\gamma p \rightarrow \rho\omega\pi^+\pi^-\pi^0$

³⁸ From the combined analysis of ANISOVICH 00J, ANISOVICH 01D, ANISOVICH 01E, and ANISOVICH 02.

$a_1(2270)$ $I^G(J^{PC}) = 1^-(1^+ +)$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2270 ⁺⁵⁵ ₋₄₀	305 ⁺⁷⁰ ₋₄₀	ANISOVICH	01F SPEC	2.0 $\bar{p}p \rightarrow 3\pi^0, \pi^0\eta, \pi^0\eta'$

$a_2(2270)$ $I^G(J^{PC}) = 1^-(2^+ +)$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>
2265 ± 20	235 ⁺⁶⁰ ₋₃₅	ANISOVICH	99C SPEC
2280 ± 30	280 ± 50	ANISOVICH	99E SPEC

$h_3(2275)$ $I^G(J^{PC}) = 0^-(3^+ -)$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2275 ± 25	190 ± 45	³⁹ ANISOVICH	02B SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\eta, \omega\pi^0\pi^0$

³⁹ From the combined analysis of ANISOVICH 00D, ANISOVICH 01C, and ANISOVICH 02B.

$a_4(2280)$ $I^G(J^{PC}) = 1^-(4^+ +)$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2300 ± 20	230 ± 40	ANISOVICH	99C SPEC	
2260 ± 15	180 ± 20	ANISOVICH	99E SPEC	

• • • We do not use the following data for averages, fits, limits, etc. • • •

2237 ± 5	291 ± 12	⁴⁰ UMAN	06 E835	5.2 $\bar{p}p \rightarrow \eta\eta\pi^0$
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⁴⁰ Statistical error only.

$\eta(2280)$ $I^G(J^{PC}) = 0^+(0^- +)$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>
2320 ± 15	230 ± 35	⁴¹ ANISOVICH	00M SPEC

⁴¹ From the combined analysis of $\bar{p}p \rightarrow \eta\eta\eta$ from ANISOVICH 00M and $\bar{p}p \rightarrow \eta\pi^0\pi^0$ from ANISOVICH 00J.

$\omega_3(2285)$ $I^G(J^{PC}) = 0^-(3^- -)$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2278 ± 28	224 ± 50	⁴² BUGG	04A RVUE	
2285 ± 60	230 ± 40	⁴³ ANISOVICH	02B SPEC	0.6–1.9 $p\bar{p} \rightarrow \omega\eta, \omega\pi^0\pi^0$

⁴² Partial wave analysis of the data on $p\bar{p} \rightarrow \bar{\Lambda}\Lambda$ from BARNES 00.

⁴³ From the combined analysis of ANISOVICH 00D, ANISOVICH 01C, and ANISOVICH 02B.

$\omega(2290)$ $I^G(J^{PC}) = 0^-(1^- -)$

<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>
2290 ± 20	275 ± 35	⁴⁴ BUGG	04A RVUE

44 Partial wave analysis of the data on $p\bar{p} \rightarrow \bar{\Lambda}\Lambda$ from BARNES 00.

$f_3(2300)$		$I^G(J^{PC}) = 0^+(3^{++})$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>		
2334 ± 25	200 ± 20	⁴⁵ BUGG	04A	RVUE		
2303 ± 15	214 ± 29	ANISOVICH	00J	SPEC	$2.0 p\bar{p} \rightarrow \eta\pi^0\pi^0$	

⁴⁵ Partial wave analysis of the data on $p\bar{p} \rightarrow \bar{\Lambda}\Lambda$ from BARNES 00.

$\rho_3(2300)$		$I^G(J^{PC}) = 1^+(3^{--})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>		
2300^{+50}_{-80}	340 ± 50	ANISOVICH	00J	SPEC	

$a_3(2310)$		$I^G(J^{PC}) = 1^-(3^{++})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>		
2310 ± 40	180^{+120}_{-60}	ANISOVICH	99C	SPEC	

$f_1(2310)$		$I^G(J^{PC}) = 0^+(1^{++})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>		
2310 ± 60	255 ± 70	ANISOVICH	00J	SPEC	

$\eta_4(2330)$		$I^G(J^{PC}) = 0^+(4^{-+})$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>		
2328 ± 38	240 ± 90	ANISOVICH	00J	SPEC	$2.0 p\bar{p} \rightarrow \eta\pi^0\pi^0$	

$\omega(2330)$		$I^G(J^{PC}) = 0^-(1^{--})$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>		
2330 ± 30	435 ± 75	ATKINSON	88	OMEG	$25-50 \gamma p \rightarrow \rho^\pm \rho^0 \pi^\mp$	

$a_1(2340)$		$I^G(J^{PC}) = 1^-(1^{++})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>		
2340 ± 40	230 ± 70	ANISOVICH	99E	SPEC	

$X(2340)$		$I^G(J^{PC}) = ??(???)$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2340 ± 20	180 ± 60	126	⁴⁶ BALTAY	75	HBC	$15 \pi^+ p \rightarrow p5\pi$

⁴⁶ 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 $2\rho^+ \pi^-$.

$\pi(2360)$		$I^G(J^{PC}) = 1^-(0^-+)$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>		
2360 ± 25	300 ⁺¹⁰⁰ ₋₅₀	ANISOVICH	01F SPEC	2.0 $\bar{p}p \rightarrow 3\pi^0, \pi^0\eta, \pi^0\eta'$		

X(2360)		$I^G(J^{PC}) = ??(4^{+?})$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>		
2360 ± 10	430 ± 30	ROZANSKA	80 SPRK	18 $\pi^- p \rightarrow p\bar{p}n$		

X(2440)		$I^G(J^{PC}) = ??(5^{-?})$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>		
2440 ± 10	310 ± 20	ROZANSKA	80 SPRK	18 $\pi^- p \rightarrow p\bar{p}n$		

X(2632)		$I^G(J^{PC}) = ??(???)$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>		
2635.2 ± 3.3		⁴⁷ EVDOKIMOV	04 SELX	$X(2632) \rightarrow D^+ \eta$		
2631.6 ± 2.1	< 17	⁴⁸ EVDOKIMOV	04 SELX	$X(2632) \rightarrow D^0 \bar{K}^+$		

⁴⁷ From a mass difference to D^+ of 666.9 ± 3.3 MeV.

⁴⁸ From a mass difference to D^0 of 767.0 ± 2.0 MeV.

$B(X(2632) \rightarrow D^0 K^+)/B(X(2632) \rightarrow D_s^+ \eta)$

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>
0.14 ± 0.06	⁴⁹ EVDOKIMOV	04 SELX

⁴⁹ Possible interpretation of this decay pattern is discussed by YASUI 07.

X(2680)		$I^G(J^{PC}) = ??(???)$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>		
2676 ± 27	150	CASO	70 HBC	11.2 $\pi^- p \rightarrow \rho^- \pi^+ \pi^- p$		

X(2710)		$I^G(J^{PC}) = ??(6^{+?})$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>		
2710 ± 20	170 ± 40	ROZANSKA	80 SPRK	18 $\pi^- p \rightarrow p\bar{p}n$		

X(2750)		$I^G(J^{PC}) = ??(7^{-?})$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>		
2747 ± 32	195 ± 75	DENNEY	83 LASS	10 $\pi^+ p \rightarrow K^+ K^- \pi^+ p$		

X(2860)		$I(J^P) = 0(??)$				
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>		
2856.6 ± 1.5 ± 5.0	47 ± 7 ± 10	^{50,51} AUBERT, BE	06E BABR	$e^+ e^- \rightarrow DKX$		

⁵⁰ Conventional $c\bar{s}$ nature suggested by LI 07 and ZHANG 07.

⁵¹ Observed in the $D^0 K^+$ and $D^+ K^0$ final states. J^P is natural.

$f_6(3100)$		$I^G(J^{PC}) = 0^+(6^{++})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
3100 ± 100	700 ± 130	BINON	05	GAMS	33 $\pi^- p \rightarrow \eta\eta n$

X(3250)		$I^G(J^{PC}) = ?^?(?^{??})$ 3-Body Decays			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
3250 ± 8 ± 20	45 ± 18	ALEEV	93	BIS2	$X(3250) \rightarrow \Lambda \bar{p} K^+$
3265 ± 7 ± 20	40 ± 18	ALEEV	93	BIS2	$X(3250) \rightarrow \bar{\Lambda} p K^-$

X(3250)		$I^G(J^{PC}) = ?^?(?^{??})$ 4-Body Decays			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
3245 ± 8 ± 20	25 ± 11	ALEEV	93	BIS2	$X(3250) \rightarrow \Lambda \bar{p} K^+ \pi^\pm$
3250 ± 9 ± 20	50 ± 20	ALEEV	93	BIS2	$X(3250) \rightarrow \bar{\Lambda} p K^- \pi^\mp$
3270 ± 8 ± 20	25 ± 11	ALEEV	93	BIS2	$X(3250) \rightarrow K_S^0 p \bar{p} K^\pm$

X(3350)		$I^G(J^{PC}) = ?^?(?^{??})$			
<u>MASS (MeV)</u>	<u>WIDTH (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
3350 $^{+10}_{-20}$ ± 20	70 $^{+40}_{-30}$ ± 40	50 ± 10	GABYSHEV	06A	BELL $B^- \rightarrow \Lambda_c^+ \bar{p} \pi^-$

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ZHANG 07	EPJ C50 617	B. Zhang <i>et al.</i>	
ABLIKIM 06S	PRL 97 142002	M. Ablikim <i>et al.</i>	(BES Collab.)
AUBERT,BE 06E	PRL 97 222001	B. Aubert <i>et al.</i>	(BABAR Collab.)
GABYSHEV 06A	PRL 97 242001	N. Gabyshev <i>et al.</i>	(BELLE Collab.)
SCHEGELSKY 06	EPJ A27 199	V.A. Schegelsky <i>et al.</i>	
SCHEGELSKY 06A	EPJ A27 207	V.A. Schegelsky <i>et al.</i>	
UMAN 06	PR D73 052009	I. Uman <i>et al.</i>	(FNAL E835)
VLADIMIRSK... 06	PAN 69 493	V.V. Vladimirovsky <i>et al.</i>	(ITEP, Moscow)
	Translated from YAF 69 515.		
BINON 05	PAN 68 960	F. Binon <i>et al.</i>	
	Translated from YAF 68 998.		
GRIGOR'EV 05	PAN 68 1271	V.K. Grigor'ev <i>et al.</i>	(ITEP)
	Translated from YAF 68 1324.		
LU 05	PRL 94 032002	M. Lu <i>et al.</i>	(BNL E852 Collab.)
ABLIKIM 04J	PRL 93 112002	M. Ablikim <i>et al.</i>	(BES Collab.)
BUGG 04	PL B595 556 (erratum)	D.V. Bugg	
BUGG 04A	EPJ C36 161	D.V. Bugg	
BUGG 04C	PRPL 397 257	D.V. Bugg	
EVDOKIMOV 04	PRL 93 242001	A.V. Evdokimov <i>et al.</i>	(SELEX Collab.)
KUHN 04	PL B595 109	J. Kuhn <i>et al.</i>	(BNL E852 Collab.)
ANISOVICH 03	EPJ A16 229	V.V. Anisovich <i>et al.</i>	
VLADIMIRSK... 03	PAN 66 700	V.V. Vladimirovsky <i>et al.</i>	
	Translated from YAF 66 729.		

ANISOVICH	02	PL B542 8	A.V. Anisovich <i>et al.</i>	
ANISOVICH	02B	PL B542 19	A.V. Anisovich <i>et al.</i>	
CHUNG	02	PR D65 072001	S.U. Chung <i>et al.</i>	(BNL E852 Collab.)
LINK	02K	PL B545 50	J.M. Link <i>et al.</i>	(FNAL FOCUS Collab.)
ANISOVICH	01C	PL B507 23	A.V. Anisovich <i>et al.</i>	
ANISOVICH	01D	PL B508 6	A.V. Anisovich <i>et al.</i>	
ANISOVICH	01E	PL B513 281	A.V. Anisovich <i>et al.</i>	
ANISOVICH	01F	PL B517 261	A.V. Anisovich <i>et al.</i>	
ANISOVICH	00D	PL B476 15	A.V. Anisovich <i>et al.</i>	
ANISOVICH	00E	PL B477 19	A.V. Anisovich <i>et al.</i>	
ANISOVICH	00I	PL B491 40	A.V. Anisovich <i>et al.</i>	
ANISOVICH	00J	PL B491 47	A.V. Anisovich <i>et al.</i>	
ANISOVICH	00M	PL B496 145	A.V. Anisovich <i>et al.</i>	
BARNES	00	PR C62 055203	P.D. Barnes <i>et al.</i>	
FILIPPI	00	PL B495 284	A. Filippi <i>et al.</i>	(OBELIX Experiment)
VLADIMIRSKII	00	JETPL 72 486	V.V. Vladimirkii <i>et al.</i>	
		Translated from ZETFP 72 698.		
ANISOVICH	99C	PL B452 173	A.V. Anisovich <i>et al.</i>	
ANISOVICH	99E	PL B452 187	A.V. Anisovich <i>et al.</i>	
BUGG	99	PL B458 511	D.V. Bugg <i>et al.</i>	
FERRER	99	EPJ C10 249	A. Ferrer <i>et al.</i>	
SEMENOV	99	SPU 42 847	S.V. Semenov	
		Translated from UFN 42 937.		
KLOET	96	PR D53 6120	W.M. Kloet, F. Myhrer	(RUTG, NORD)
PROKOSHKIN	96	SPD 41 247	Y.D. Prokoshkin, V.D. Samoilenko	(SERP)
		Translated from DANS 348 481.		
OAKDEN	94	NP A574 731	M.N. Oakden, M.R. Pennington	(DURH)
ALEEV	93	PAN 56 1358	A.N. Aleev <i>et al.</i>	(BIS-2 Collab.)
		Translated from YAF 56 100.		
ARMSTRONG	93D	PL B307 399	T.A. Armstrong <i>et al.</i>	(FNAL, FERR, GENO+)
ALBRECHT	91F	ZPHY C50 1	H. Albrecht <i>et al.</i>	(ARGUS Collab.)
CONDO	91	PR D43 2787	G.T. Condo <i>et al.</i>	(SLAC Hybrid Collab.)
BISELLO	89B	PR D39 701	G. Busetto <i>et al.</i>	(DM2 Collab.)
ATKINSON	88	ZPHY C38 535	M. Atkinson <i>et al.</i>	(BONN, CERN, GLAS+)
DAFTARI	87	PRL 58 859	I.K. Daftari <i>et al.</i>	(SYRA)
ALDE	86D	NP B269 485	D.M. Alde <i>et al.</i>	(BELG, LAPP, SERP, CERN+)
BRIDGES	86D	PL B180 313	D.L. Bridges <i>et al.</i>	(SYRA, BNL, CASE+)
GREEN	86	PRL 56 1639	D.R. Green <i>et al.</i>	(FNAL, ARIZ, FSU+)
ATKINSON	85	ZPHY C29 333	M. Atkinson <i>et al.</i>	(BONN, CERN, GLAS+)
DENNEY	83	PR D28 2726	D.L. Denney <i>et al.</i>	(IOWA, MICH)
ASTON	81B	NP B189 205	D. Aston <i>et al.</i>	(BONN, CERN, EPOL, GLAS+)
ARESTOV	80	IHEP 80-165	Y.I. Arestov <i>et al.</i>	(SERP)
CHLIAPNIK...	80	ZPHY C3 285	P.V. Chliapnikov <i>et al.</i>	(SERP, BRUX, MONS)
KREYMER	80	PR D22 36	A.E. Kreymer <i>et al.</i>	(IND, PURD, SLAC+)
ROZANSKA	80	NP B162 505	M. Rozanska <i>et al.</i>	(MPIM, CERN)
EVANGELIS...	79	NP B153 253	C. Evangelista <i>et al.</i>	(BARI, BONN, CERN+)
EVANGELIS...	79B	NP B154 381	C. Evangelista <i>et al.</i>	(BARI, BONN, CERN+)
BALTAY	78	PR D17 52	C. Baltay <i>et al.</i>	(COLU, BING)
ANTIPOV	77	NP B119 45	Y.M. Antipov <i>et al.</i>	(SERP, GEVA)
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BALTAY	75	PRL 35 891	C. Baltay <i>et al.</i>	(COLU, BING)
KALELKHAR	75	Thesis Nevis 207	M.S. Kalelkar	(COLU)
CASO	70	LNC 3 707	C. Caso <i>et al.</i>	(GENO, HAMB, MILA, SACL)

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ANISOVICH	04	SPU 47 45	V.V. Anisovich	
		Translated from UFN 174 49.		
BARNES	04A	PL B600 223	T. Barnes <i>et al.</i>	
BUGG	04B	PL B598 8	D.V. Bugg	
BUGG	04C	PRPL 397 257	D.V. Bugg	
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LIU	04A	PR D70 094009	Y.-R. Liu	
MAIANI	04	PR D70 054009	L. Maiani <i>et al.</i>	
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		Translated from ZETFP 72 240.		
ANISOVICH	99F	NP A651 253	A.V. Anisovich <i>et al.</i>	
CHIBA	99	PR C60 035204	M. Chiba <i>et al.</i>	
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BARNES	94	PL B331 203	P.D. Barnes <i>et al.</i>	(PS185 Collab.)
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GRAF	91	PR D44 1945	N.A. Graf <i>et al.</i>	(UCI, PENN, NMSU, KARLK+)
TANIMORI	90	PR D41 744	T. Tanimori <i>et al.</i>	(KEK, INUS, KYOT+)
ALBRECHT	89M	PL B217 205	H. Albrecht <i>et al.</i>	(ARGUS Collab.)
BEHREND	89D	PL B218 493	H.J. Behrend <i>et al.</i>	(CELLO Collab.)
BUSENITZ	89	PR D40 1	J.K. Busenitz <i>et al.</i>	(ILL, FNAL)
CHIBA	88	PL B202 447	M. Chiba, K. Doi	(FUKI, INUS, KEK, SANG, OSAK+)
CHIBA	87	PR D36 3321	M. Chiba <i>et al.</i>	(FUKI, INUS, KEK, SANG+)
FRANKLIN	87	PL B184 111	J. Franklin	
LIU	87	PRL 58 2288	K.F. Liu, B.A. Li	(STON)
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ANGELOPO...	86	PL B178 441	A. Angelopoulos <i>et al.</i>	(ATHU, UCI, KARLK+)
ARMSTRONG	86C	PL B175 383	T.A. Armstrong <i>et al.</i>	(BNL, HOUS, PENN+)
BRIDGES	86	PRL 56 211	D.L. Bridges <i>et al.</i>	(BLSU, BNL, CASE+)
BRIDGES	86B	PRL 56 215	D.L. Bridges <i>et al.</i>	(SYRA, CASE)
BRIDGES	86C	PRL 57 1534	D.L. Bridges <i>et al.</i>	(SYRA)
BRIDGES	86D	PL B180 313	D.L. Bridges <i>et al.</i>	(SYRA, BNL, CASE+)
DOVER	86	PRL 57 1207	C.B. Dover <i>et al.</i>	(BNL)
ANGELOPO...	85	PL 159B 210	A. Angelopoulos <i>et al.</i>	(ATHU, UCI, UNM+)
BODENKAMP	85	NP B255 717	J. Bodenkamp <i>et al.</i>	(KARLK, KARLE, DESY)
ADIELS	84	PL 138B 235	L. Adiels <i>et al.</i>	(BASL, KARLK, KARLE, STOH+)
ATKINSON	84F	NP B239 1	M. Atkinson <i>et al.</i>	(BONN, CERN, GLAS+)
AZOOZ	84	NP B244 277	F. Azooz, I. Butterworth	(LOIC, RHEL, SACL+)
CLOUGH	84	PL 146B 299	A.S. Clough <i>et al.</i>	(SURR, LOQM, ANIK+)
AZOOZ	83	PL 122B 471	F. Azooz, I. Butterworth	(LOIC, RHEL, SACL+)
BARNETT	83	PR D27 493	B. Barnett <i>et al.</i>	(JHU)
BODENKAMP	83	PL 133B 275	J. Bodenkamp <i>et al.</i>	(KARLK, KARLE, DESY)
RICHTER	83	PL 126B 284	B. Richter, L. Adiels	(BASL, KARLK, KARLE, STOH+)
AJALTOUNI	82	NP B209 301	Z. Ajaltouni <i>et al.</i>	(CERN, NEUC+)
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ARESTOV	80	IHEP 80-165	Y.I. Arestov <i>et al.</i>	(SERP)
ASTON	80D	PL 93B 517	D. Aston	(BONN, CERN, EPOL, GLAS, LANC+)

BIONTA	80	PRL 44 909	R.M. Bionta <i>et al.</i>	(BNL, CMU, FNAL+)
CARROLL	80	PRL 44 1572	A.S. Carroll <i>et al.</i>	(BNL, PRIN)
DAUM	80E	PL 90B 475	C. Daum <i>et al.</i>	(AMST, CERN, CRAC, MPIM+)
DEFOIX	80	NP B162 12	C. Defoix <i>et al.</i>	(CDEF, PISA)
HAMILTON	80	PRL 44 1179	R.P. Hamilton <i>et al.</i>	(LBL, BNL, MTHO)
HAMILTON	80B	PRL 44 1182	R.P. Hamilton <i>et al.</i>	(LBL, BNL, MTHO)
KREYMER	80	PR D22 36	A.E. Kreymer <i>et al.</i>	(IND, PURD, SLAC+)
ALBERI	79	PL 83B 247	G. Alberi <i>et al.</i>	(TRST, CERN, IFRJ)
ARMSTRONG	79	PL B85 304	T.A. Armstrong <i>et al.</i>	(DESY, GLAS)
BARTALUCCI	79	NC 49A 207	S. Bartalucci <i>et al.</i>	(DESY, FRAS)
DELCOURT	79	PL 86B 395	B. Delcourt <i>et al.</i>	(LALO)
GIBBARD	79	PRL 42 1593	B.G. Gibbard <i>et al.</i>	(CORN)
SAKAMOTO	79	NP B158 410	S. Sakamoto <i>et al.</i>	(INUS)
CARTER	78B	NP B141 467	A.A. Carter	(LOQM)
ESPOSITO	78	LNC 22 305	B. Esposito, F. Felicetti	(FRAS, NAPL, PADO+)
PAVLOPO...	78	PL 72B 415	P. Pavlopoulos <i>et al.</i>	(KARLK, KARLE, BASL+)
PETERSON	78	PR D18 3955	D. Peterson <i>et al.</i>	(CORN, HARV)
BENKHEIRI	77	PL 68B 483	P. Benkheiri <i>et al.</i>	(CERN, CDEF, EPOL+)
BRUCKNER	77	PL 67B 222	W. Bruckner <i>et al.</i>	(MPIH, HEIDP, CERN)
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BRAUN	76	PL 60B 481	H.M. Braun <i>et al.</i>	(STRB)
CHALOUPKA	76	PL 61B 487	V. Chaloupka <i>et al.</i>	(CERN, LIVP, MONS+)
ALSTON-...	75	PRL 35 1685	M. Alston-Garnjost <i>et al.</i>	(LBL, MTHO)
D'ANDLAU	75	PL 58B 223	C. d'Andlau <i>et al.</i>	(CDEF, PISA)
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SABAU	71	LNC 1 514	M. Sabeu, J.L. Uretsky	(BUCH, ANL)
BAUD	70	PL 31B 549	R. Baud <i>et al.</i>	(CERN Boson Spectrometer Collab.)
ANDERSON	69	PRL 22 1390	E.W. Anderson <i>et al.</i>	(BNL, CMU)
BOESEBECK	68	NP B4 501	K. Boesebeck <i>et al.</i>	(AACH, BERL, CERN)
HUSON	68	PL 28B 208	R. Huson <i>et al.</i>	(ORSAY, MILA, UCLA)
ALLES-...	67B	NC 50A 776	V. Alles-Borelli <i>et al.</i>	(CERN, BONN)
DANYSZ	67B	NC 51A 801	J.A. Danysz, B.R. French, V. Simak	(CERN)
CHIKOVANI	66	PL 22 233	G.E. Chikovani <i>et al.</i>	(SERP)
FOCACCI	66	PRL 17 890	M.N. Focacci <i>et al.</i>	(CERN)