Decay Modes

From the PDG July 1996 Particle Physics Booklet

	$I^G(J^{PC})$	mass (MeV)	width (MeV)	$\pi^+\pi^-$	$\pi^0\pi^0$
K_S^0	$\frac{1}{2}(0^-)$	497.672 ± 0.031	$c\tau = 2.6762\,\mathrm{cm}$	$(68.61 \pm 0.28)\%$	$(31.39 \pm 0.28)\%$
K_L^0 *CP*	$\frac{1}{2}(0^-)$	497.672 ± 0.031	$c\tau = 15.51\,\mathrm{m}$	$(2.067 \pm 0.035)10^{-3}$	$(9.36 \pm 0.20)10^{-4}$
η *P, CP*	$0^+(0^{-+})$	547.45 ± 0.19	$1.18 \pm 0.11\,\mathrm{keV}$	$< 1.5 \cdot 10^{-3}$	*not seen*
$f_0(400-1200)$	$0^+(0^{++})$	$400 - 1200$	$600 - 1000$	*dominant*	
$\rho(770)^0$	$1^+(1^{--})$	768.5 ± 0.6	150.7 ± 1.2	$\sim 100\%$	
$\omega(782)$	$0^-(1^{--})$	781.94 ± 0.12	8.43 ± 0.10	$(2.21 \pm 0.30)\%$	*not seen*
$\eta'(958)$	$0^+(0^{-+})$	957.77 ± 0.14	0.201 ± 0.016	$< 2\%$ (90%)	$< 9 \cdot 10^{-4}$ (90%)
$f_0(980)$	$0^+(0^{++})$	980 ± 10	$40 - 100$	$(78.1 \pm 2.4)\%$	
$a_0(980)^0$	$1^-(0^{++})$	983.5 ± 0.9	$50 - 100$	*not seen*	*not seen*
$\phi(1020)$	$0^-(1^{--})$	1019.413 ± 0.008	4.43 ± 0.05	$8^{+5}_{-4}10^{-5}$	*not seen*
$h_1(1170)$	$0^-(1^{+-})$	1170 ± 20	360 ± 40	*not seen*	*not seen*
$b_1(1235)^0$	$1^+(1^{+-})$	1231 ± 10	142 ± 8	*not seen*	*not seen*
$a_1(1260)^0$	$1^-(1^{++})$	1230 ± 40	~ 400	*not seen*	*not seen*
$f_2(1270)$	$0^+(2^{++})$	1275 ± 5	185 ± 20	$84.7^{+2.6}_{-1.2}\%$	
$f_1(1285)$	$0^+(1^{++})$	1282.2 ± 0.7	24.8 ± 1.3	*not seen*	*not seen*
$\eta(1295)$	$0^+(0^{-+})$	1295 ± 4	53 ± 6	*not seen*	*not seen*
$\pi(1300)^0$	$1^-(0^{-+})$	1300 ± 100	$200 - 600$	*not seen*	*not seen*
$a_2(1320)^0$	$1^-(2^{++})$	1318.1 ± 0.7	107 ± 5	*not seen*	*not seen*
$f_0(1370)$	$0^+(0^{++})$	$1200 - 1500$	$300 - 500$	*seen*	*seen*
$f_1(1420)$	$0^+(1^{++})$	1426.8 ± 2.3	53 ± 5	*not seen*	*not seen*
$\omega(1420)$	$0^-(1^{--})$	1419 ± 31	174 ± 60	*not seen*	*not seen*
$\eta(1440)$	$0^+(0^{-+})$	1415 ± 10	60 ± 20	*not seen*	*not seen*
$\rho(1450)^0$	$1^+(1^{--})$	1465 ± 25	310 ± 60	*seen*	*seen*
$f_0(1500)$	$0^+(0^{++})$	1503 ± 11	120 ± 19	*not seen*	*not seen*
$f_1(1510)$	$0^+(1^{++})$	1512 ± 4	35 ± 15	*not seen*	*not seen*
$f_2'(1525)$	$0^+(2^{++})$	1525 ± 5	76 ± 10	$(8.2 \pm 1.5)10^{-3}$	
$\omega(1600)$	$0^-(1^{--})$	1649 ± 24	220 ± 35	*not seen*	*not seen*
$\omega_3(1670)$	$0^-(3^{--})$	1667 ± 4	168 ± 10	*not seen*	*not seen*
$\pi_2(1670)^0$	$1^-(2^{-+})$	1670 ± 20	258 ± 18	*not seen*	*not seen*
$\phi(1680)$	$0^-(1^{--})$	1680 ± 20	150 ± 50	*not seen*	*not seen*
$\rho_3(1690)^0$	$1^+(3^{--})$	1691 ± 5	160 ± 10	$(23.6 \pm 1.3)\%$	
$\rho(1700)^0$	$1^+(1^{--})$	1700 ± 20	235 ± 50	*seen*	*not seen*
$f_J(1710)$	$0^+(J^{++}_{even})$	1697 ± 4	175 ± 9	*seen*	*seen*
$\phi_3(1850)$	$0^-(3^{--})$	1854 ± 7	87^{+28}_{-23}	*not seen*	*not seen*

	$I^G(J^{PC})$	mass (MeV)	width (MeV)	$\pi^+\pi^-$	$\pi^0\pi^0$
D^0	$\frac{1}{2}(0^-)$	1864.5 ± 0.5	$c\tau = 124.4\,\mu$m	$(1.52 \pm 0.11)10^{-3}$	$(8.4 \pm 2.2)10^{-4}$
$f_2(2010)$	$0^+(2^{++})$	2011^{+60}_{-80}	202 ± 60	*not seen*	*not seen*
$f_4(2050)$	$0^+(4^{++})$	2044 ± 11	208 ± 13	$(17.0 \pm 1.5)\%$	
$f_2(2300)$	$0^+(2^{++})$	2297 ± 28	149 ± 40	*not seen*	*not seen*
$f_2(2340)$	$0^+(2^{++})$	2339 ± 60	319^{+80}_{-70}	*not seen*	*not seen*
η_c	$0^+(0^{-+})$	2979.8 ± 2.1	$13.2^{+3.8}_{-3.2}$	*not seen*	*not seen*
J/ψ	$0^-(1^{--})$	3096.88 ± 0.04	$87 \pm 5\,$keV	$(1.47 \pm 0.23)10^{-4}$	*not seen*
χ_{c0}	$0^+(0^{++})$	3415.1 ± 1.0	14 ± 5	$(7.5 \pm 2.1)10^{-3}$	$(3.1 \pm 0.6)10^{-3}$
χ_{c1}	$0^+(1^{++})$	3510.53 ± 0.12	0.88 ± 0.14	$< 2.1 \cdot 10^{-3}$	*not seen*
χ_{c2}	$0^+(2^{++})$	3556.17 ± 0.13	2.00 ± 0.18	$(1.9 \pm 1.0)10^{-3}$	$(1.10 \pm 0.28)10^{-3}$

	$I^G(J^{PC})$	mass (MeV)	width (MeV)	$\pi^\pm\pi^0$
$K^\pm$	$\frac{1}{2}(0^-)$	493.677 ± 0.016	$c\tau = 3.713\,$m	$(21.16 \pm 0.14)\%$
$\rho(770)^\pm$	$1^+(1^{--})$	768.5 ± 0.6	150.7 ± 1.2	$\sim 100\%$
$a_0(980)^\pm$	$1^-(0^{++})$	983.5 ± 0.9	$50 - 100$	*not seen*
$b_1(1235)^\pm$	$1^+(1^{+-})$	1231 ± 10	142 ± 8	*not seen*
$a_1(1260)^\pm$	$1^-(1^{++})$	1230 ± 40	~ 400	*not seen*
$\pi(1300)^\pm$	$1^-(0^{-+})$	1300 ± 100	$200 - 600$	*not seen*
$a_2(1320)^\pm$	$1^-(2^{++})$	1318.1 ± 0.7	107 ± 5	*not seen*
$\rho(1450)^\pm$	$1^+(1^{--})$	1465 ± 25	310 ± 60	*seen*
$\pi_2(1670)^\pm$	$1^-(2^{-+})$	1670 ± 20	258 ± 18	*not seen*
$\rho_3(1690)^\pm$	$1^+(3^{--})$	1691 ± 5	160 ± 10	$(23.6 \pm 1.3)\%$
$\rho(1700)^\pm$	$1^+(1^{--})$	1700 ± 20	235 ± 50	*not seen*
$D^\pm$	$\frac{1}{2}(0^-)$	1869.3 ± 0.5	$c\tau = 317\,\mu$m	$(2.5 \pm 0.7)10^{-3}$
$D_s^\pm$	$0(0^-)$	1968.5 ± 0.6	$c\tau = 140\,\mu$m	*not seen*

	$I^G(J^{PC})$	$\pi^+\pi^-\pi^0$	$\pi^0\pi^0\pi^0$	$\rho^\pm\pi^\mp$	$\rho^0\pi^0$
K_S^0	$\frac{1}{2}(0^-)$	$3.9^{+5.5}_{-1.9}10^{-7}$	$< 3.7 \cdot 10^{-5}$		
K_L^0	$\frac{1}{2}(0^-)$	$(12.56 \pm .20)\%$	$(21.12 \pm .27)\%$		
η	$0^+(0^{-+})$	$23.2 \pm 0.5\%$	$32.1 \pm 0.4\%$		
$f_0(400\text{–}1200)$	$0^+(0^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$\rho(770)^0$	$1^+(1^{--})$	$< 1.2 \cdot 10^{-4}$	*not seen*		
$\omega(782)$	$0^-(1^{--})$	$(88.8 \pm 0.7)\%$	$C \quad < 3 \cdot 10^{-4}$		
$\eta'(958)$	$0^+(0^{-+})$	$< 5\%\ (90\%)$	$(1.55 \pm .26)10^{-3}$	*not seen*	$< 4\%(90\%)$
$f_0(980)$	$0^+(0^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$a_0(980)^0$	$1^-(0^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$\phi(1020)$	$0^-(1^{--})$	$(2.7 \pm 0.9)\%$	*not seen*	$(12.9 \pm 0.7)\%$	*not seen*
$h_1(1170)$	$0^-(1^{+-})$	*not seen*	*not seen*	*seen*	*seen*
$b_1(1235)^0$	$1^+(1^{+-})$	$\omega\pi^0$ *dominant*	*not seen*	*not seen*	*not seen*
$a_1(1260)^0$	$1^-(1^{++})$	*not seen*	*not seen*	*dominant*	
$f_2(1270)$	$0^+(2^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$f_1(1285)$	$0^+(1^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$\eta(1295)$	$0^+(0^{-+})$	*not seen*	*not seen*	*not seen*	*not seen*
$\pi(1300)^0$	$1^-(0^{-+})$	$\pi(\pi\pi)_{S-wave}$ *seen*	$\pi(\pi\pi)_{S-wave}$ *seen*	*seen*	*seen*
$a_2(1320)^0$	$1^-(2^{++})$	*not seen*	*not seen*	$(70.1 \pm 2.7)\%$	
$f_0(1370)$	$0^+(0^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$f_1(1420)$	$0^+(1^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$\omega(1420)$	$0^-(1^{--})$	*not seen*	*not seen*	*dominant*	
$\eta(1440)$	$0^+(0^{-+})$	*not seen*	*not seen*	*not seen*	*not seen*
$\rho(1450)^0$	$1^+(1^{--})$	$\omega\pi^0 < 2\%(95\%)$	*not seen*	*not seen*	*not seen*
$f_0(1500)$	$0^+(0^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$f_1(1510)$	$0^+(1^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$f_2'(1525)$	$0^+(2^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$\omega(1600)$	$0^-(1^{--})$	*not seen*	*not seen*	*seen*	*seen*
$\omega_3(1670)$	$0^-(3^{--})$	*not seen*	*not seen*	*seen*	*seen*
$\pi_2(1670)^0$	$1^-(2^{-+})$	$f_2(1270)\pi$	$(56.2 \pm 3.2)\%$	$(31 \pm 4)\%$	
		$f_0(1370)\pi$	$(8.7 \pm 3.4)\%$		
$\phi(1680)$	$0^-(1^{--})$	*not seen*	*not seen*	*not seen*	*not seen*
$\rho_3(1690)^0$	$1^+(3^{--})$	$\omega\pi^0(16 \pm 6)\%$	*not seen*	*not seen*	*not seen*
$\rho(1700)^0$	$1^+(1^{--})$	*not seen*	*not seen*	*not seen*	*not seen*
$f_J(1710)$	$0^+(J^{++}_{even})$	*not seen*	*not seen*	*not seen*	*not seen*
$\phi_3(1850)$	$0^-(3^{--})$	*not seen*	*not seen*	*not seen*	*not seen*

	$I^G(J^{PC})$	$\pi^+\pi^-\pi^0$	$\pi^0\pi^0\pi^0$	$\rho^\pm\pi^\mp$	$\rho^0\pi^0$
D^0	$\frac{1}{2}(0^-)$	$(1.6 \pm 1.1)\%$	*not seen*	*not seen*	*not seen*
$f_2(2010)$	$0^+(2^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$f_4(2050)$	$0^+(4^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$f_2(2300)$	$0^+(2^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$f_2(2340)$	$0^+(2^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
η_c	$0^+(0^{-+})$	*not seen*	*not seen*	*not seen*	*not seen*
J/ψ	$0^-(1^{--})$	$(1.50 \pm .20)\%$	*not seen*	$(1.28 \pm .10)\%$	$(4.2 \pm 0.5)10^{-3}$
		$\omega\pi^0(4.2 \pm .6)10^{-4}$			
χ_{c0}	$0^+(0^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
χ_{c1}	$0^+(1^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
χ_{c2}	$0^+(2^{++})$	*not seen*	*not seen*	*not seen*	*not seen*

	$I^G(J^{PC})$	$\pi^+\pi^-\pi^\pm$	$\pi^0\pi^0\pi^\pm$	$\rho^\pm\pi^0$	$\rho^0\pi^\pm$
$K^\pm$	$\frac{1}{2}(0^-)$	$(5.59 \pm .05)\%$	$(1.73 \pm .04)\%$	*not seen*	*not seen*
$\rho(770)^\pm$	$1^+(1^{--})$	*not seen*	*not seen*	*not seen*	*not seen*
$a_0(980)^\pm$	$1^-(0^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$b_1(1235)^\pm$	$1^+(1^{+-})$	$\omega\pi^\pm$ *dominant*	*not seen*	*not seen*	*not seen*
$a_1(1260)^\pm$	$1^-(1^{++})$	*not seen*	*not seen*	*dominant*	*dominant*
$\pi(1300)^\pm$	$1^-(0^{-+})$	$\pi(\pi\pi)_{S-wave}$ *seen*	$\pi(\pi\pi)_{S-wave}$ *seen*	*seen*	*seen*
$a_2(1320)^\pm$	$1^-(2^{++})$	$< 8\%(90\%)$	*not seen*	$(70.1 \pm 2.7)\%$	
$\rho(1450)^\pm$	$1^+(1^{--})$	$\omega\pi^\pm < 2\%(95\%)$	*not seen*	*not seen*	*not seen*
$\pi_2(1670)^\pm$	$1^-(2^{-+})$	$f_2(1270)\pi$ $(56.2 \pm 3.2)\%$		$(31 \pm 4)\%$	
		$f_0(1370)\pi$ $(8.7 \pm 3.4)\%$			
$\rho_3(1690)^\pm$	$1^+(3^{--})$	$\omega\pi^\pm(16 \pm 6)\%$	*not seen*	*not seen*	*not seen*
$\rho(1700)^\pm$	$1^+(1^{--})$	*not seen*	*not seen*	*not seen*	*not seen*
$D^\pm$	$\frac{1}{2}(0^-)$	$(2.5 \pm .7)10^{-3}$	*not seen*	$< 1.4 \cdot 10^{-3}$	*not seen*
		$\omega\pi^\pm < 7 \cdot 10^{-3}$			
$D_s^\pm$	$0(0^-)$	$(1.4 \pm 0.4)\%$	*not seen*	*not seen*	$< 2.9 \cdot 10^{-3}(90\%)$
		$f_0(980)\pi^\pm(1.2 \pm 0.5)\%$			
		$\omega\pi^\pm < 1.8\%(90\%)$			
		non res.$(1.0 \pm 0.4)\%$			

	$I^G(J^{PC})$	$2\pi^+2\pi^-$	$\pi^+\pi^-2\pi^0$	$4\pi^0$
$f_0(400-1200)$	$0^+(0^{++})$	*not seen*	*not seen*	*not seen*
$\rho(770)^0$	$1^+(1^{--})$	$< 2\cdot 10^{-4}(90\%)$	$< 4\cdot 10^{-5}(90\%)$	*not seen*
$\omega(782)$	$0^-(1^{--})$	$< 1\cdot 10^{-3}(90\%)$	$< 2\%(90\%)$	*not seen*
			$\eta\pi^0$ $< 1\cdot 10^{-3}(90\%)$ C	
$\eta'(958)$	$0^+(0^{-+})$	$< 1\%\,(90\%)$	*not seen*	$< 5\cdot 10^{-4}(90\%)$
$f_0(980)$	$0^+(0^{++})$	*not seen*	*not seen*	*not seen*
$a_0(980)^0$	$1^-(0^{++})$	*not seen*	$\eta\pi^0$ *dominant*	*not seen*
$\phi(1020)$	$0^-(1^{--})$	$< 8.7\cdot^{-4}$ (90%)	*not seen*	*not seen*
$h_1(1170)$	$0^-(1^{+-})$	*not seen*	*not seen*	*not seen*
$b_1(1235)^0$	$1^+(1^{+-})$	*not seen*	$\omega\pi^0$ *dominant*	*not seen*
			$\phi\pi^0 < 1.5\%(84\%)$	
$a_1(1260)^0$	$1^-(1^{++})$	*not seen*	*not seen*	*not seen*
$f_2(1270)$	$0^+(2^{++})$	$(2.8\pm 0.4)\%$	$7.2^{+1.4}_{-2.9}\%$	$(3.0\pm 1.0)10^{-3}$
$f_1(1285)$	$0^+(1^{++})$	$(15\pm 6)\%$ $(incl\,\rho 2\pi)$	$15^{+9}_{-8}\%$	$< 7\cdot 10^{-4}(90\%)$
$\eta(1295)$	$0^+(0^{-+})$	*not seen*	*not seen*	*not seen*
$\pi(1300)^0$	$1^-(0^{-+})$	*not seen*	*not seen*	*not seen*
$a_2(1320)^0$	$1^-(2^{++})$	*not seen*	$\eta\pi^0(14.5\pm 1.2)\%$	*not seen*
		$\omega 2\pi(10.6\pm 3.2)\%$		
$f_0(1370)$	$0^+(0^{++})$	*seen*	*seen*	*not seen*
$f_1(1420)$	$0^+(1^{++})$	*not seen*	*not seen*	*not seen*
$\omega(1420)$	$0^-(1^{--})$	*not seen*	*not seen*	*not seen*
$\eta(1440)$	$0^+(0^{-+})$	*seen*	*seen*	*seen*
$\rho(1450)^0$	$1^+(1^{--})$	*seen*	*seen*	*seen*
		$\omega 2\pi < 2\%$		
			$\phi\pi^0 < 1\%$	
$f_0(1500)$	$0^+(0^{++})$	*seen*	*not seen*	*seen*
$f_1(1510)$	$0^+(1^{++})$	*not seen*	*not seen*	*not seen*
$f_2'(1525)$	$0^+(2^{++})$	*not seen*	*not seen*	*not seen*
$\omega(1600)$	$0^-(1^{--})$	$\omega 2\pi$ *seen*	$\omega 2\pi$ *seen*	*not seen*
$\omega_3(1670)$	$0^-(3^{--})$	$\omega 2\pi$ *seen*	$\omega 2\pi$ *seen*	*not seen*
$\pi_2(1670)^0$	$1^-(2^{-+})$	*not seen*	*not seen*	*not seen*
$\phi(1680)$	$0^-(1^{--})$	*not seen*	*not seen*	*not seen*
$\rho_3(1690)^0$	$1^+(3^{--})$	$\longrightarrow$	$(71.1\pm 1.9)\%$	$\longleftarrow$
$\rho(1700)^0$	$1^+(1^{--})$	*large* ($\rho 2\pi$ *dominant*)		*not seen*
$f_J(1710)$	$0^+(J^{++}_{even})$	*not seen*	*not seen*	*not seen*
$\phi_3(1850)$	$0^-(3^{--})$	*not seen*	*not seen*	*not seen*

	$I^G(J^{PC})$	$2\pi^+2\pi^-$	$\pi^+\pi^-2\pi^0$	$4\pi^0$
D^0	$\frac{1}{2}(0^-)$	$(7.4 \pm .6)10^{-3}$	*not seen*	*not seen*
$f_2(2010)$	$0^+(2^{++})$	*not seen*	*not seen*	*not seen*
$f_4(2050)$	$0^+(4^{++})$	$2\omega \quad (26 \pm 6)\%$	*not seen*	$< 1.2\%$
$f_2(2300)$	$0^+(2^{++})$	*not seen*	*not seen*	*not seen*
$f_2(2340)$	$0^+(2^{++})$	*not seen*	*not seen*	*not seen*
η_c	$0^+(0^{-+})$	$(1.3 \pm 0.4)\%$	*not seen*	*not seen*
		$\rho\rho \quad (2.6 \pm .9)\%$		
J/ψ	$0^-(1^{--})$	$(4.0 \pm 1.0)10^{-3}$	*not seen*	*not seen*
χ_{c0}	$0^+(0^{++})$	$(3.7 \pm 0.7)\%$	*not seen*	*not seen*
		$\rho^0\pi^+\pi^- \quad (1.6 \pm .5)\%$		
χ_{c1}	$0^+(1^{++})$	$(1.6 \pm 0.5)\%$	*not seen*	*not seen*
		$\rho^0\pi^+\pi^- \quad (3.9 \pm 3.5)10^{-3}$		
χ_{c2}	$0^+(2^{++})$	$(2.2 \pm 0.5)\%$	*not seen*	*not seen*
		$\rho^0\pi^+\pi^- \quad (7 \pm 4)10^{-3}$		

	$I^G(J^{PC})$	$\pi^\pm\pi^+\pi^-\pi^0$	$\pi^\pm\pi^0\pi^0\pi^0$
$\rho(770)^\pm$	$1^+(1^{--})$	$< 2.0 \cdot 10^{-3}(84\%)$	$\eta\pi^\pm < 6 \cdot 10^{-3}(84\%)$
$a_0(980)^\pm$	$1^-(0^{++})$	$\eta\pi^\pm$ *dominant*	
$b_1(1235)^\pm$	$1^+(1^{+-})$	$< 50\%(84\%)$	*not seen*
		$\omega\pi^\pm$ *dominant*	
		$\phi\pi^\pm < 1.5\%(84\%)$	
$a_1(1260)^\pm$	$1^-(1^{++})$	*not seen*	*not seen*
$\pi(1300)^\pm$	$1^-(0^{-+})$	*not seen*	*not seen*
$a_2(1320)^\pm$	$1^-(2^{++})$	$\eta\pi^\pm \; (14.5 \pm 1.2)\%$	
		$\omega\pi^0\pi^\pm \; (10.6 \pm 3.2)\%$	
$\rho(1450)^\pm$	$1^+(1^{--})$	*seen*	
		$\omega\pi^\pm < 2.0\%(95\%)$	
		$\phi\pi^\pm < 1\%$	
$\pi_2(1670)^\pm$	$1^-(2^{-+})$	*not seen*	*not seen*
$\rho_3(1690)^\pm$	$1^+(3^{--})$	$(67 \pm 22)\%$	$(71.1 \pm 1.9)\% - (67 \pm 22)\%$
		$\omega\pi^\pm(16 \pm 6)\%$	
$\rho(1700)^\pm$	$1^+(1^{--})$	$\rho\pi\pi$ *dominant*	
$D^\pm$	$\frac{1}{2}(0^-)$	$1.9^{+1.5}_{-1.2}\%$	$\eta\pi^\pm(7.5 \pm 2.5)10^{-3}$
$D_s^\pm$	$0(0^-)$	$< 12\%(90\%)$	
		$\eta\pi^\pm(2.0 \pm 0.6)\%$	
		$\omega\pi^\pm < 1.8\%(90\%)$	

	$I^G(J^{PC})$	$\pi^+\pi^-\pi^+\pi^-\pi^0$	$\pi^+\pi^-\eta$	$\pi^0\pi^0\eta$	$\pi\pi\omega$
$f_0(400-1200)$	$0^+(0^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$\rho(770)^0$	$1^+(1^{--})$	*not seen*	*not seen*	*not seen*	*not seen*
$\omega(782)$	$0^-(1^{--})$	*not seen*	*not seen*	*not seen*	*not seen*
$\eta'(958)$	$0^+(0^{-+})$	$< 1\%(90\%)$	$(43.7 \pm 1.5)\%$	$(20.8 \pm 1.3)\%$	*not seen*
$f_0(980)$	$0^+(0^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$a_0(980)^0$	$1^-(0^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$\phi(1020)$	$0^-(1^{--})$	$< 1.5 \cdot 10^{-4}(95\%)$	*not seen*	*not seen*	*not seen*
$h_1(1170)$	$0^-(1^{+-})$	*not seen*	*not seen*	*not seen*	*not seen*
$b_1(1235)^0$	$1^+(1^{+-})$	$\rho^0\eta$ *seen*	*not seen*	*not seen*	*not seen*
$a_1(1260)^0$	$1^-(1^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$f_2(1270)$	$0^+(2^{++})$	*not seen*	$< 8 \cdot 10^{-3}$ (95%)		*not seen*
$f_1(1285)$	$0^+(1^{++})$	*not seen*	$(54 \pm 15)\%$ (*incl.* $a_0\pi$) $a_0(980)\pi$ $(44{\pm}7)\%$		*not seen*
$\eta(1295)$	$0^+(0^{-+})$	$a_0(980)\pi$ *seen*	*seen*	*not seen*	*not seen*
$\pi(1300)^0$	$1^-(0^{-+})$	*not seen*	*not seen*	*not seen*	*not seen*
$a_2(1320)^0$	$1^-(2^{++})$	*not seen*	*not seen*	*not seen*	$(10.6 \pm 3.2)\%$
$f_0(1370)$	$0^+(0^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$f_1(1420)$	$0^+(1^{++})$	*not seen*	*possibly seen*		*not seen*
$\omega(1420)$	$0^-(1^{--})$	*not seen*	*not seen*	*not seen*	*not seen*
$\eta(1440)$	$0^+(0^{-+})$	$a_0(980)\pi$ *seen*	*seen*	*seen*	*not seen*
$\rho(1450)^0$	$1^+(1^{--})$	$\rho^0\eta$ $< 4\%$	*not seen*	*not seen*	*not seen*
$f_0(1500)$	$0^+(0^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$f_1(1510)$	$0^+(1^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$f_2'(1525)$	$0^+(2^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$\omega(1600)$	$0^-(1^{--})$	*not seen*	*not seen*	*not seen*	*seen*
$\omega_3(1670)$	$0^-(3^{--})$	$b_1\pi$ *possibly seen*	*not seen*	*not seen*	*seen*
$\pi_2(1670)^0$	$1^-(2^{-+})$	*not seen*	*not seen*	*not seen*	*not seen*
$\phi(1680)$	$0^-(1^{--})$	*not seen*	*not seen*	*not seen*	*not seen*
$\rho_3(1690)^0$	$1^+(3^{--})$	*not seen*	*seen*	*not seen*	*not seen*
$\rho(1700)^0$	$1^+(1^{--})$	$\eta\rho^0$ *seen*	*not seen*	*not seen*	*not seen*
$f_J(1710)$	$0^+(J^{++}_{even})$	*not seen*	*not seen*	*not seen*	*not seen*
$\phi_3(1850)$	$0^-(3^{--})$	*not seen*	*not seen*	*not seen*	*not seen*
D^0	$\frac{1}{2}(0^-)$	$(1.9 \pm 0.4)\%$	*not seen*	*not seen*	*not seen*
$f_2(2010)$	$0^+(2^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$f_4(2050)$	$0^+(4^{++})$	2ω $(26 \pm 6)\%$	*not seen*	*not seen*	*not seen*
$f_2(2300)$	$0^+(2^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
$f_2(2340)$	$0^+(2^{++})$	*not seen*	*not seen*	*not seen*	*not seen*

	$I^G(J^{PC})$	$2\pi^+2\pi^-\pi^0$	$\pi^+\pi^-\eta$	$\pi^0\pi^0\eta$	$\pi\pi\omega$
η_c	$0^+(0^{-+})$		(4.9 ± 1.8)	%	*not seen*
			$a_0(980)\pi\ <$	2%	
			$a_2(1320)\pi <$	2%	
			$f_2(1270)\pi <$	1.1%	
J/ψ	$0^-(1^{--})$	$(3.37 \pm 0.26)\%$	*not seen*	*not seen*	$\omega\pi^+\pi^-(7.2 \pm 1.0)10^{-3}$
		$a_2(1320)\pi\ < 2\%$			$\omega f_2(1270)(4.3 \pm 0.6)10^{-3}$
					$\omega\pi^0\pi^0(3.4 \pm 0.8)10^{-3}$
χ_{c0}	$0^+(0^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
χ_{c1}	$0^+(1^{++})$	*not seen*	*not seen*	*not seen*	*not seen*
χ_{c2}	$0^+(2^{++})$	*not seen*	*not seen*	*not seen*	*not seen*

	$I^G(J^{PC})$	$\pi^+\pi^-\pi^+\pi^-\pi^\pm$	$\pi^\pm\pi^0\eta$	$\pi^\pm\pi^0\omega$
$\rho(770)^\pm$	$1^+(1^{--})$	*not seen*	*not seen*	*not seen*
$a_0(980)^\pm$	$1^-(0^{++})$	*not seen*	*not seen*	*not seen*
$b_1(1235)^\pm$	$1^+(1^{+-})$	*not seen*	$\rho^\pm\eta$ *seen*	*not seen*
$a_1(1260)^\pm$	$1^-(1^{++})$	*not seen*	*not seen*	*not seen*
$\pi(1300)^\pm$	$1^-(0^{-+})$	*not seen*	*not seen*	*not seen*
$a_2(1320)^\pm$	$1^-(2^{++})$	*not seen*	*not seen*	$(10.6 \pm 3.2)\%$
$\rho(1450)^\pm$	$1^+(1^{--})$	*not seen*	$\rho^\pm\eta\ < 4\%$	*not seen*
$\pi_2(1670)^\pm$	$1^-(2^{-+})$	*not seen*	*not seen*	*not seen*
$\rho_3(1690)^\pm$	$1^+(3^{--})$	*not seen*	*not seen*	*not seen*
$\rho(1700)^\pm$	$1^+(1^{--})$	*not seen*	$\rho^\pm\eta$ *seen*	*not seen*
$D^\pm$	$\frac{1}{2}(0^-)$	$1.0^{+0.8}_{-0.7}10^{-3}$	*not seen*	*not seen*
			$\rho^\pm\eta\ < 1.2\%$	
			$\pi^\pm\pi^0\phi\,(2.3 \pm 1.0)\%$	
$D_s^\pm$	$0(0^-)$	$3.0^{+4.0}_{-3.0}10^{-3}$	$\rho^\pm\eta\,(10.3 \pm 3.2)\%$	
			three body $< 3.0\%(90\%)$	

	$I^G(J^{PC})$	$3(\pi^+\pi^-)$	$\eta\eta$
$f_0(400-1200)$	$0^+(0^{++})$	*not seen*	*not seen*
$\rho(770)^0$	$1^+(1^{--})$	*not seen*	*not seen*
$\omega(782)$	$0^-(1^{--})$	*not seen*	*not seen*
$\eta'(958)$	$0^+(0^{-+})$	$6\pi < 1\%(90\%)$	*not seen*
$f_0(980)$	$0^+(0^{++})$	*not seen*	*not seen*
$a_0(980)^0$	$1^-(0^{++})$	*not seen*	*not seen*
$\phi(1020)$	$0^-(1^{--})$	*not seen*	*not seen*
$h_1(1170)$	$0^-(1^{+-})$	*not seen*	*not seen*
$b_1(1235)^0$	$1^+(1^{+-})$	*not seen*	*not seen*
$a_1(1260)^0$	$1^-(1^{++})$	*not seen*	*not seen*
$f_2(1270)$	$0^+(2^{++})$	*not seen*	*not seen*
$f_1(1285)$	$0^+(1^{++})$	*not seen*	*not seen*
$\eta(1295)$	$0^+(0^{-+})$	*not seen*	*not seen*
$\pi(1300)^0$	$1^-(0^{-+})$	*not seen*	*not seen*
$a_2(1320)^0$	$1^-(2^{++})$	*not seen*	$\eta'\pi^0$ $(5.7 \pm 1.1)10^{-3}$
$f_0(1370)$	$0^+(0^{++})$	*not seen*	*seen*
$f_1(1420)$	$0^+(1^{++})$	*not seen*	*not seen*
$\omega(1420)$	$0^-(1^{--})$	*not seen*	*not seen*
$\eta(1440)$	$0^+(0^{-+})$	*not seen*	*not seen*
$\rho(1450)^0$	$1^+(1^{--})$	*not seen*	*not seen*
$f_0(1500)$	$0^+(0^{++})$	*not seen*	*seen*
$f_1(1510)$	$0^+(1^{++})$	*not seen*	*not seen*
$f_2'(1525)$	$0^+(2^{++})$	*not seen*	$(10.3 \pm 3.1)\%$
$\omega(1600)$	$0^-(1^{--})$	*not seen*	*not seen*
$\omega_3(1670)$	$0^-(3^{--})$	*not seen*	*not seen*
		$b_1\pi$ *possibly seen*	
$\pi_2(1670)^0$	$1^-(2^{-+})$	*not seen*	*not seen*
$\phi(1680)$	$0^-(1^{--})$	*not seen*	*not seen*
$\rho_3(1690)^0$	$1^+(3^{--})$	*not seen*	*not seen*
$\rho(1700)^0$	$1^+(1^{--})$	*not seen*	*not seen*
$f_J(1710)$	$0^+(J^{++}_{even})$	*not seen*	*seen*
$\phi_3(1850)$	$0^-(3^{--})$	*not seen*	*not seen*
D^0	$\frac{1}{2}(0^-)$	$(4.0 \pm 3.0)10^{-3}$	*not seen*
$f_2(2010)$	$0^+(2^{++})$	*not seen*	*not seen*
$f_4(2050)$	$0^+(4^{++})$	*not seen*	*seen*
$f_2(2300)$	$0^+(2^{++})$	*not seen*	*not seen*
$f_2(2340)$	$0^+(2^{++})$	*not seen*	*not seen*

	$I^G(J^{PC})$	$3(\pi^+\pi^-)$	$\eta\eta$
η_c	$0^+(0^{-+})$	*not seen*	$\phi\phi$ $(7.1 \pm 2.8)10^{-3}$
J/ψ	$0^-(1^{--})$	$(4.0 \pm 2.0)\%$	$a_2(1320)\rho^0$ $(1.09 \pm 0.22)\%$
χ_{c0}	$0^+(0^{++})$	$(1.5 \pm 0.5)\%$	$(2.5 \pm 1.1)10^{-3}$
χ_{c1}	$0^+(1^{++})$	$(2.2 \pm 0.8)\%$	*not seen*
χ_{c2}	$0^+(2^{++})$	$(1.2 \pm 0.8)\%$	$(8 \pm 5)10^{-4}$

	$I^G(J^{PC})$	$2(\pi^+\pi^-)\pi^0\pi^\pm$	$\eta'\pi^\pm$
$\rho(770)^\pm$	$1^+(1^{--})$	*not seen*	*not seen*
$a_0(980)^\pm$	$1^-(0^{++})$	*not seen*	*not seen*
$b_1(1235)^\pm$	$1^+(1^{+-})$	*not seen*	*not seen*
$a_1(1260)^\pm$	$1^-(1^{++})$	*not seen*	*not seen*
$\pi(1300)^\pm$	$1^-(0^{-+})$	*not seen*	*not seen*
$a_2(1320)^\pm$	$1^-(2^{++})$	*not seen*	$\eta'\pi^\pm$ $(5.7 \pm 1.1)10^{-3}$
$\rho(1450)^\pm$	$1^+(1^{--})$	*not seen*	*not seen*
$\pi_2(1670)^\pm$	$1^-(2^{-+})$	*not seen*	*not seen*
$\rho_3(1690)^\pm$	$1^+(3^{--})$	*not seen*	*not seen*
$\rho(1700)^\pm$	$1^+(1^{--})$	*not seen*	*not seen*
$D^\pm$	$\frac{1}{2}(0^-)$	$2.9^{+2.9}_{-2.0}10^{-3}$ $\phi\pi^+\pi^-\pi^\pm < 2\cdot10^{-3}$ 90%	$\eta'\pi^\pm$ $< 9\cdot10^{-3}(90\%)$
$D_s^\pm$	$0(0^-)$	$(4.9 \pm 3.2)\%$	$\eta'\pi^\pm$ $(4.9 \pm 1.8)\%$

	$I^G(J^{PC})$	$\pi\pi\eta'$	$\eta\eta'$	$\pi\eta\eta$
$f_0(1500)$	$0^+(0^{++})$	*not seen*	*seen*	*not seen*
$\pi_2(1670)^0$	$1^-(2^{-+})$	*not seen*	*not seen*	$f_2(1270)\pi^0(56.2 \pm 3.2)\%$ $[f_2 \to \eta\eta$ $4.5\cdot10^{-3}]$ $f_0(1370)\pi^0(8.7 \pm 3.4)\%$ $[f_0 \to \eta\eta$ *seen*$]$
D^0	$\frac{1}{2}(0^-)$	*not seen*	*not seen*	*not seen*
η_c	$0^+(0^{-+})$	$(4.1 \pm 1.7)\%$	*not seen*	*not seen*
J/ψ	$0^-(1^{--})$	$3(\pi^+\pi^-)\pi^0(2.9 \pm 0.6)\%$	*not seen*	*not seen*
χ_{c0}	$0^+(0^{++})$	*not seen*	*not seen*	*not seen*
χ_{c1}	$0^+(1^{++})$	*not seen*	*not seen*	*not seen*
χ_{c2}	$0^+(2^{++})$	*not seen*	*not seen*	*not seen*

	$I^G(J^{PC})$	mass (MeV)	width (MeV)	K^+K^-	$K^0\overline{K^0}$
$f_0(400\!-\!1200)$	$0^+(0^{++})$	$400-1200$	$600-1000$	*not seen*	*not seen*
$\rho(770)^0$	$1^+(1^{--})$	768.5 ± 0.6	150.7 ± 1.2	*not seen*	*not seen*
$\omega(782)$	$0^-(1^{--})$	781.94 ± 0.12	8.43 ± 0.10	*not seen*	*not seen*
$\eta'(958)$	$0^+(0^{-+})$	957.77 ± 0.14	0.201 ± 0.016	*not seen*	*not seen*
$f_0(980)$	$0^+(0^{++})$	980 ± 10	$40-100$	$(21.9 \pm 2.4)\%$	
$a_0(980)^0$	$1^-(0^{++})$	983.5 ± 0.9	$50-100$	*seen*	*seen*
$\phi(1020)$	$0^-(1^{--})$	1019.413 ± 0.008	4.43 ± 0.05	$(49.1 \pm 0.6)\%$	$K^0_L K^0_S (34.1 \pm 0.5)\%$
$h_1(1170)$	$0^-(1^{+-})$	1170 ± 20	360 ± 40	*not seen*	*not seen*
$b_1(1235)^0$	$1^+(1^{+-})$	1231 ± 10	142 ± 8	*not seen*	*not seen*
$a_1(1260)^0$	$1^-(1^{++})$	1230 ± 40	~ 400	*not seen*	*not seen*
$f_2(1270)$	$0^+(2^{++})$	1275 ± 5	185 ± 20	$(4.6 \pm 0.5)\%$	
$f_1(1285)$	$0^+(1^{++})$	1282.2 ± 0.7	24.8 ± 1.3	*not seen*	*not seen*
$\eta(1295)$	$0^+(0^{-+})$	1295 ± 4	53 ± 6	*not seen*	*not seen*
$\pi(1300)^0$	$1^-(0^{-+})$	1300 ± 100	$200-600$	*not seen*	*not seen*
$a_2(1320)^0$	$1^-(2^{++})$	1318.1 ± 0.7	107 ± 5	$(4.9 \pm 0.8)\%$	
$f_0(1370)$	$0^+(0^{++})$	$1200-1500$	$300-500$	*seen*	*seen*
$f_1(1420)$	$0^+(1^{++})$	1426.8 ± 2.3	53 ± 5	*not seen*	*not seen*
$\omega(1420)$	$0^-(1^{--})$	1419 ± 31	174 ± 60	*not seen*	*not seen*
$\eta(1440)$	$0^+(0^{-+})$	1415 ± 10	60 ± 20	*not seen*	*not seen*
$\rho(1450)^0$	$1^+(1^{--})$	1465 ± 25	310 ± 60	$< 1.6 \cdot 10^{-3}$ (95%)	
$f_0(1500)$	$0^+(0^{++})$	1503 ± 11	120 ± 19	*not seen*	*not seen*
$f_1(1510)$	$0^+(1^{++})$	1512 ± 4	35 ± 15	*not seen*	*not seen*
$f_2'(1525)$	$0^+(2^{++})$	1525 ± 5	76 ± 10	$(88.8 \pm 3.1)\%$	
$\omega(1600)$	$0^-(1^{--})$	1649 ± 24	220 ± 35	*not seen*	*not seen*
$\omega_3(1670)$	$0^-(3^{--})$	1667 ± 4	168 ± 10	*not seen*	*not seen*
$\pi_2(1670)^0$	$1^-(2^{-+})$	1670 ± 20	258 ± 18	*not seen*	*not seen*
$\phi(1680)$	$0^-(1^{--})$	1680 ± 20	150 ± 50	*seen*	*seen*
$\rho_3(1690)^0$	$1^+(3^{--})$	1691 ± 5	160 ± 10	$(1.58 \pm 0.26)\%$	
$\rho(1700)^0$	$1^+(1^{--})$	1700 ± 20	235 ± 50	*seen*	*seen*
$f_J(1710)$	$0^+(J^{++}_{even})$	1697 ± 4	175 ± 9	*seen*	*seen*
$\phi_3(1850)$	$0^-(3^{--})$	1854 ± 7	87^{+28}_{-23}	*seen*	*seen*

	$I^G(J^{PC})$	mass (MeV)	width (MeV)	K^+K^-	$K^0\overline{K^0}$
D^0	$\frac{1}{2}(0^-)$	1864.5 ± 0.5	$c\tau = 124.4\,\mu$m	$(4.33 \pm 0.27)10^{-3}$	$(1.3 \pm 0.4)10^{-3}$
$f_2(2010)$	$0^+(2^{++})$	2011^{+60}_{-80}	202 ± 60	*not seen*	*not seen*
$f_4(2050)$	$0^+(4^{++})$	2044 ± 11	208 ± 13	$6.8^{+3.4}_{-1.8}\%$	
$f_2(2300)$	$0^+(2^{++})$	2297 ± 28	149 ± 40	*not seen*	*not seen*
$f_2(2340)$	$0^+(2^{++})$	2339 ± 60	319^{+80}_{-70}	*not seen*	*not seen*
η_c	$0^+(0^{-+})$	2979.8 ± 2.1	$13.2^{+3.8}_{-3.2}$	*not seen*	*not seen*
J/ψ	$0^-(1^{--})$	3096.88 ± 0.04	$87 \pm 5\,$keV	$(2.37 \pm 0.31)10^{-4}$	$K_L^0 K_S^0(1.08 \pm .14)10^{-4}$
χ_{c0}	$0^+(0^{++})$	3415.1 ± 1.0	14 ± 5	$(7.1 \pm 2.4)10^{-3}$	*not seen*
χ_{c1}	$0^+(1^{++})$	3510.53 ± 0.12	0.88 ± 0.14	*not seen*	*not seen*
χ_{c2}	$0^+(2^{++})$	3556.17 ± 0.13	2.00 ± 0.18	$(1.5 \pm 1.1)10^{-3}$	*not seen*

	$I^G(J^{PC})$	mass (MeV)	width (MeV)	$K^+\overline{K^0}/K^-K^0$
$\rho(770)^\pm$	$1^+(1^{--})$	768.5 ± 0.6	150.7 ± 1.2	*not seen*
$a_0(980)^\pm$	$1^-(0^{++})$	983.5 ± 0.9	$50 - 100$	*seen*
$b_1(1235)^\pm$	$1^+(1^{+-})$	1231 ± 10	142 ± 8	*not seen*
$a_1(1260)^\pm$	$1^-(1^{++})$	1230 ± 40	~ 400	*not seen*
$\pi(1300)^\pm$	$1^-(0^{-+})$	1300 ± 100	$200 - 600$	*not seen*
$a_2(1320)^\pm$	$1^-(2^{++})$	1318.1 ± 0.7	107 ± 5	$(4.9 \pm 0.8)\%$
$\rho(1450)^\pm$	$1^+(1^{--})$	1465 ± 25	310 ± 60	$< 1.6 \cdot 10^{-3}(95\%)$
$\pi_2(1670)^\pm$	$1^-(2^{-+})$	1670 ± 20	258 ± 18	*not seen*
$\rho_3(1690)^\pm$	$1^+(3^{--})$	1691 ± 5	160 ± 10	$(1.58 \pm 0.26)\%$
$\rho(1700)^\pm$	$1^+(1^{--})$	1700 ± 20	235 ± 50	*seen*
$D^\pm$	$\frac{1}{2}(0^-)$	1869.3 ± 0.5	$c\tau = 317\,\mu$m	$(7.2 \pm 1.2)10^{-3}$
$D_s^\pm$	$0(0^-)$	1968.5 ± 0.6	$c\tau = 140\,\mu$m	$(3.6 \pm 1.1)\%$

	$I^G(J^{PC})$	$(K\overline{K}\pi)^0$	$(K\overline{K^*}(892))^0$
$f_0(400-1200)$	$0^+(0^{++})$	*not seen*	*not seen*
$\rho(770)^0$	$1^+(1^{--})$	*not seen*	*not seen*
$\omega(782)$	$0^-(1^{--})$	*not seen*	*not seen*
$\eta'(958)$	$0^+(0^{-+})$	*not seen*	*not seen*
$f_0(980)$	$0^+(0^{++})$	*not seen*	*not seen*
$a_0(980)^0$	$1^-(0^{++})$	*not seen*	*not seen*
$\phi(1020)$	$0^-(1^{--})$	*not seen*	*not seen*
$h_1(1170)$	$0^-(1^{+-})$	*not seen*	*not seen*
$b_1(1235)^0$	$1^+(1^{+-})$	*not seen*	*not seen*
$a_1(1260)^0$	$1^-(1^{++})$	*not seen*	*possibly seen*
$f_2(1270)$	$0^+(2^{++})$	$(K\overline{K})^{\pm}\pi^{\mp} < 3.4 \cdot 10^{-3}(95\%)$	*not seen*
$f_1(1285)$	$0^+(1^{++})$	$(9.7 \pm 1.6)\%$ *incl.*$a_0(980)\pi$	*not seen*
$\eta(1295)$	$0^+(0^{-+})$	$a_0(980)\pi$ *seen*	*not seen*
$\pi(1300)^0$	$1^-(0^{-+})$	*not seen*	*not seen*
$a_2(1320)^0$	$1^-(2^{++})$	*not seen*	*not seen*
$f_0(1370)$	$0^+(0^{++})$	*not seen*	*not seen*
$f_1(1420)$	$0^+(1^{++})$	*dominant*	*not seen*
$\omega(1420)$	$0^-(1^{--})$	*not seen*	*not seen*
$\eta(1440)$	$0^+(0^{-+})$	*seen* $a_0(980)\pi$*seen*	*not seen*
$\rho(1450)^0$	$1^+(1^{--})$	*not seen*	*not seen*
$f_0(1500)$	$0^+(0^{++})$	*not seen*	*not seen*
$f_1(1510)$	$0^+(1^{++})$	*not seen*	*seen*
$f_2'(1525)$	$0^+(2^{++})$	*not seen*	*not seen*
$\omega(1600)$	$0^-(1^{--})$	*not seen*	*not seen*
$\omega_3(1670)$	$0^-(3^{--})$	*not seen*	*not seen*
$\pi_2(1670)^0$	$1^-(2^{-+})$	*not seen*	$(4.2 \pm 1.4)\%$
$\phi(1680)$	$0^-(1^{--})$	$K_s^0 K\pi$ *seen*	*dominant*
$\rho_3(1690)^0$	$1^+(3^{--})$	$(3.8 \pm 1.2)\%$	*not seen*
$\rho(1700)^0$	$1^+(1^{--})$	*not seen*	*seen*
$f_J(1710)$	$0^+(J^{++}_{even})$	*not seen*	*not seen*
$\phi_3(1850)$	$0^-(3^{--})$	*not seen*	*seen*

	$I^G(J^{PC})$	$(K\overline{K}\pi)^0$	$(K\overline{K^*}(892))^0$ + c.c.
D^0	$\frac{1}{2}(0^-)$	$K^0K^-\pi^+$ $(6.4 \pm 1.0)10^{-3}$	$K^-K^*(892)^+(2.3 \pm 0.5)10^{-3}$
		$K^0K^-\pi^+$ *non res.* $(2.3 \pm 2.3)10^{-3}$	$K0\overline{K^*}(892)^0 < 1.1 \cdot 10^{-3}(90\%)$
		$\overline{K^0}K^+\pi^-$ $(4.9 \pm 1.0)10^{-3}$	$K^+K^*(892)^-(1.2 \pm 0.7)10^{-3}$
		$\overline{K^0}K^+\pi^-$ *non res.* $(3.8^{+2.3}_{-1.9})10^{-3}$	$\overline{K^0}K^*(892)^0 < 5 \cdot 10^{-4}(90\%)$
$f_2(2010)$	$0^+(2^{++})$	*not seen*	*not seen*
$f_4(2050)$	$0^+(4^{++})$	*not seen*	*not seen*
$f_2(2300)$	$0^+(2^{++})$	*not seen*	*not seen*
$f_2(2340)$	$0^+(2^{++})$	*not seen*	*not seen*
η_c	$0^+(0^{-+})$	$(5.5 \pm 1.7)\%$	$< 1.28\%$
J/ψ	$0^-(1^{--})$	$(6.1 \pm 1.0)10^{-3}$	$(9.2 \pm 0.6)10{-}3$
χ_{c0}	$0^+(0^{++})$	*not seen*	*not seen*
χ_{c1}	$0^+(1^{++})$	*not seen*	*not seen*
χ_{c2}	$0^+(2^{++})$	*not seen*	*not seen*

	$I^G(J^{PC})$	$(K\overline{K}\pi)^\pm$	$(K\overline{K^*}(892))^\pm$
$\rho(770)^\pm$	$1^+(1^{--})$	*not seen*	*not seen*
$a_0(980)^\pm$	$1^-(0^{++})$	*not seen*	*not seen*
$b_1(1235)^\pm$	$1^+(1^{+-})$	$(K\overline{K})^\pm\pi^0 < 8\%(90\%)$	*not seen*
$a_1(1260)^\pm$	$1^-(1^{++})$	*not seen*	*possibly seen*
$\pi(1300)^\pm$	$1^-(0^{-+})$	*not seen*	*not seen*
$a_2(1320)^\pm$	$1^-(2^{++})$	*not seen*	*not seen*
$\rho(1450)^\pm$	$1^+(1^{--})$	*not seen*	*not seen*
$\pi_2(1670)^\pm$	$1^-(2^{-+})$	*not seen*	$(4.2 \pm 1.4)\%$
$\rho_3(1690)^\pm$	$1^+(3^{--})$	$(3.8 \pm 1.2)\%$	*not seen*
$\rho(1700)^\pm$	$1^+(1^{--})$	*not seen*	*seen*
$D^\pm$	$\frac{1}{2}(0^-)$	$K^+K^-\pi^\pm$ $(8.9 \pm 0.8)10^{-3}$	$K^\pm\overline{K^*}(892)^0(2.8 \pm 0.4)10^{-3}$
		$K^+K^-\pi^\pm$ *non res.* $(4.6 \pm 0.9)10^{-3}$	$\overline{K^0}\overline{K^*}(892)^\pm(2.0 \pm 0.9)\%$
$D_s^\pm$	$0(0^-)$	$K^+K^-\pi^\pm$ $(4.6 \pm 1.2)\%$	$K^\pm\overline{K^*}(892)^0(3.4 \pm 0.9)\%$
		$K^+K^-\pi^\pm$ *non res.* $(9 \pm 4)10^{-3}$	$\phi\pi^\pm(3.6 \pm 0.9)\%$