Meson Summary Table

$f_1(1285)$ $I^G(J^{PC}) = 0^+(1^{++})$

Mass $m = 1282 \pm 5$ MeV [k]
Full width $\Gamma = 24 \pm 3$ MeV [k]

$f_1(1285)$ DECAY MODES	Fraction (Γ_i/Γ)	Scale factor/ Confidence level	p (MeV/c)
4π	$(29 \pm 6)\%$		563
$\pi^0\pi^0\pi^+\pi^-$	$(15\ ^{+9}_{-8})\%$	S=1.1	–
$2\pi^+2\pi^-$	$(15 \pm 6)\%$		563
$\rho^0\pi^+\pi^-$	dominates $2\pi^+2\pi^-$		340
$4\pi^0$	$< 7 \times 10^{-4}$	CL=90%	568
$\eta\pi\pi$	$(54 \pm 15)\%$		479
$a_0(980)\pi$ [ignoring $a_0(980) \to K\overline{K}$]	$(44 \pm 7)\%$	S=1.1	234
$\eta\pi\pi$ [excluding $a_0(980)\pi$]	$(10\ ^{+7}_{-6})\%$	S=1.1	–
$K\overline{K}\pi$	$(9.7 \pm 1.6)\%$	S=1.2	308
$K\overline{K}^*(892)$	not seen		–
$\gamma\rho^0$	$(6.6 \pm 1.3)\%$	S=1.5	410
$\phi\gamma$	$(8.0 \pm 3.1) \times 10^{-4}$		236

$\eta(1295)$ $I^G(J^{PC}) = 0^+(0^{-+})$

Mass $m = 1295 \pm 4$ MeV
Full width $\Gamma = 53 \pm 6$ MeV

$\eta(1295)$ DECAY MODES	Fraction (Γ_i/Γ)	p (MeV/c)
$\eta\pi^+\pi^-$	seen	488
$a_0(980)\pi$	seen	245

$f_0(1300)$ was $f_0(1400)$ was $\epsilon(1200)$ $I^G(J^{PC}) = 0^+(0^{++})$

Mass $m = 1000$-1500 MeV
Full width $\Gamma = 150$ to 400 MeV
$\Gamma_{\gamma\gamma} = 5.4 \pm 2.3$ keV
$\Gamma_{ee} < 20$ eV, CL = 90%

$f_0(1300)$ DECAY MODES	Fraction (Γ_i/Γ)	p (MeV/c)
$\pi\pi$	$(93.6^{+1.9}_{-1.5})\%$	–
$K\overline{K}$	$(7.5 \pm 0.9)\%$	–
$\eta\eta$	seen	–
$\gamma\gamma$	seen	–
e^+e^-	not seen	–

$\pi(1300)$ $I^G(J^{PC}) = 1^-(0^{-+})$

Mass $m = 1300 \pm 100$ MeV [k]
Full width $\Gamma = 200$ to 600 MeV

$\pi(1300)$ DECAY MODES	Fraction (Γ_i/Γ)	p (MeV/c)
$\rho\pi$	seen	406
$\pi(\pi\pi)_{S\text{-wave}}$	seen	612

$a_2(1320)$ $I^G(J^{PC}) = 1^-(2^{++})$

Mass $m = 1318.4 \pm 0.6$ MeV (S = 1.1) (3π and $K^\pm K^0_S$ modes)
Full width $\Gamma = 107 \pm 5$ MeV [k] ($K^\pm K^0_S$ and $\eta\pi$ modes)

$a_2(1320)$ DECAY MODES	Fraction (Γ_i/Γ)	Scale factor/ Confidence level	p (MeV/c)
$\rho\pi$	$(70.1 \pm 2.7)\%$	S=1.2	419
$\eta\pi$	$(14.5 \pm 1.2)\%$		535
$\omega\pi\pi$	$(10.6 \pm 3.2)\%$	S=1.3	362
$K\overline{K}$	$(4.9 \pm 0.8)\%$		437
$\eta'(958)\pi$	$(5.7 \pm 1.1) \times 10^{-3}$		287
$\pi^\pm\gamma$	$(2.8 \pm 0.6) \times 10^{-3}$		652
$\gamma\gamma$	$(9.7 \pm 1.0) \times 10^{-6}$		659
$\pi^+\pi^-\pi^-$	< 8 %	CL=90%	621
e^+e^-	$< 2.3 \times 10^{-7}$	CL=90%	659

$f_1(1420)$ [l] $I^G(J^{PC}) = 0^+(1^{++})$

Mass $m = 1426.8 \pm 2.3$ MeV (S = 1.3)
Full width $\Gamma = 52 \pm 4$ MeV

$f_1(1420)$ DECAY MODES	Fraction (Γ_i/Γ)	p (MeV/c)
$K\overline{K}\pi$	dominant	439
$\eta\pi\pi$	possibly seen	571

$\omega(1420)$ [m] $I^G(J^{PC}) = 0^-(1^{--})$

Mass $m = 1419 \pm 31$ MeV
Full width $\Gamma = 174 \pm 60$ MeV

$\omega(1420)$ DECAY MODES	Fraction (Γ_i/Γ)	p (MeV/c)
$\rho\pi$	dominant	488

$\eta(1440)$ [n] was $\iota(1440)$ $I^G(J^{PC}) = 0^+(0^{-+})$

Mass $m = 1420 \pm 20$ MeV [k]
Full width $\Gamma = 60 \pm 30$ MeV [k]

$\eta(1440)$ DECAY MODES	Fraction (Γ_i/Γ)	p (MeV/c)
$K\overline{K}\pi$	seen	433
$\eta\pi\pi$	seen	567
$a_0(980)\pi$	seen	350
4π	seen	640

$\rho(1450)$ [o] $I^G(J^{PC}) = 1^+(1^{--})$

Mass $m = 1465 \pm 25$ MeV [k]
Full width $\Gamma = 310 \pm 60$ MeV [k]

$\rho(1450)$ DECAY MODES	Fraction (Γ_i/Γ)	Confidence level	p (MeV/c)
$\pi\pi$	seen		719
4π	seen		665
e^+e^-	seen		732
$\eta\rho$	<4 %		317
$\omega\pi$	<2.0 %	95%	512
$\phi\pi$	<1 %		358
$K\overline{K}$	$<1.6 \times 10^{-3}$	95%	541

$f_1(1510)$ $I^G(J^{PC}) = 0^+(1^{++})$

Mass $m = 1512 \pm 4$ MeV
Full width $\Gamma = 35 \pm 15$ MeV

$f_1(1510)$ DECAY MODES	Fraction (Γ_i/Γ)	p (MeV/c)
$K\overline{K}^*(892) +$ c.c.	seen	292

$f_2'(1525)$ $I^G(J^{PC}) = 0^+(2^{++})$

Mass $m = 1525 \pm 5$ MeV [k]
Full width $\Gamma = 76 \pm 10$ MeV [k]

$f_2'(1525)$ DECAY MODES	Fraction (Γ_i/Γ)	p (MeV/c)
$K\overline{K}$	$(71.2\ ^{+2.0}_{-2.5})\%$	581
$\eta\eta$	$(27.9\ ^{+2.5}_{-2.0})\%$	531
$\pi\pi$	$(8.2 \pm 1.6) \times 10^{-3}$	750
$\gamma\gamma$	$(1.23 \pm 0.22) \times 10^{-6}$	763