$\chi_{c0}(1P)$ or $\chi_{c0}(3415)$

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

Mass $m = 3415.1 \pm 1.0$ MeV
Full width $\Gamma = 14 \pm 5$ MeV

$\chi_{c0}(1P)$ DECAY MODES	Fraction (Γ_i/Γ)	Confidence level	p (MeV/c)
	Hadronic decays		
$2(\pi^+\pi^-)$	(3.7 ± 0.7) %		1679
$\pi^+\pi^- K^+ K^-$	(3.0 ± 0.7) %		1580
$\rho^0\pi^+\pi^-$	(1.6 ± 0.5) %		1608
$3(\pi^+\pi^-)$	(1.5 ± 0.5) %		1633
$K^+\overline{K}^*(892)^0\pi^- +$ c.c.	(1.2 ± 0.4) %		1522
$\pi^+\pi^-$	$(7.5\pm2.1)\times10^{-3}$		1702
K^+K^-	$(7.1\pm2.4)\times10^{-3}$		1635
$\pi^+\pi^- p\overline{p}$	$(5.0\pm2.0)\times10^{-3}$		1320
$\pi^0\pi^0$	$(3.1\pm0.6)\times10^{-3}$		1702
$\eta\eta$	$(2.5\pm1.1)\times10^{-3}$		1617
$p\overline{p}$	$< 9.0 \times10^{-4}$	90%	1427
	Radiative decays		
$\gamma J/\psi(1S)$	$(6.6\pm1.8)\times10^{-3}$		303
$\gamma\gamma$	$(4.0\pm2.3)\times10^{-4}$		1708

$\chi_{c1}(1P)$ or $\chi_{c1}(3510)$

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

Mass $m = 3510.53 \pm 0.12$ MeV
Full width $\Gamma = 0.88 \pm 0.14$ MeV

$\chi_{c1}(1P)$ DECAY MODES	Fraction (Γ_i/Γ)	p (MeV/c)
	Hadronic decays	
$3(\pi^+\pi^-)$	(2.2 ± 0.8) %	1683
$2(\pi^+\pi^-)$	(1.6 ± 0.5) %	1727
$\pi^+\pi^- K^+ K^-$	$(9\pm4)\times10^{-3}$	1632
$\rho^0\pi^+\pi^-$	$(3.9\pm3.5)\times10^{-3}$	1659
$K^+\overline{K}^*(892)^0\pi^- +$ c.c.	$(3.2\pm2.1)\times10^{-3}$	1576
$\pi^+\pi^- p\overline{p}$	$(1.4\pm0.9)\times10^{-3}$	1381
$p\overline{p}$	$(8.6\pm1.2)\times10^{-5}$	1483
$\pi^+\pi^- + K^+K^-$	$< 2.1 \times10^{-3}$	–
	Radiative decays	
$\gamma J/\psi(1S)$	(27.3 ± 1.6) %	389