Parameter	Fit result and error
Γ	0.67139 ± 0.004853
$\Delta\Gamma$	0.10001 ± 0.016251
$A_{\perp}^2$	0.24867 ± 0.0088262
A_0^2	0.52114 ± 0.0061428
$\delta_{\parallel}$	3.3069 ± 0.16037
$\delta_{\perp}$	3.0784 ± 0.21943
$F_S(990)$	0.22699 ± 0.075688
$\delta_S(990)$	1.3081 ± 0.66082
Δm_s	17.669 ± 0.076983
ϕ_s	0.067123 ± 0.091117
λ	0.94447 ± 0.035565
ω_{P1}^{OS}	1.0004 ± 0.022937
ω_{P0}^{OS}	0.39191 ± 0.0077904
δ_{P0}^{OS}	0.011051 ± 0.0033969
$\sigma(\tau)_{\text{scale}}^{\text{resolution}}$	1.4511 ± 0.059376
ω_{P1}^{SS}	1.0303 ± 0.15867
ω_{P0}^{SS}	0.3554 ± 0.016328
δ_{P0}^{SS}	-0.018935 ± 0.0049995
ω_{P0}^{OS+SS}	0.0048304 ± 0.024529
δ_{P0}^{OS+SS}	-0.011076 ± 0.0040007
$F_S(1008)$	0.066776 ± 0.029256
$\delta_S(1008)$	0.77009 ± 0.28877
$F_S(1016)$	0.0081715 ± 0.022524
$\delta_S(1016)$	0.48983 ± 0.90834
$F_S(1020)$	0.016043 ± 0.010599
$\delta_S(1020)$	-0.51584 ± 0.25763
$F_S(1024)$	0.055303 ± 0.025847
$\delta_S(1024)$	-0.45202 ± 0.20266
$F_S(1032)$	0.16761 ± 0.041517
$\delta_S(1032)$	-0.653 ± 0.1988
δ_0	0 ± 0
$C_{S-P}(990)$	0.966 ± 0
$\bar{\omega}_{\bar{\omega}}^{OS}$	0.392 ± 0
δ_{P1}^{OS}	0 ± 0
$\delta_{\bar{\omega}}^{OS}$	0 ± 0
$\bar{\omega}_{\bar{\omega}}^{SS}$	0.35 ± 0
δ_{P1}^{SS}	0 ± 0
$\delta_{\bar{\omega}}^{SS}$	0 ± 0
ω_{P1}^{OS+SS}	1 ± 0
$\bar{\omega}^{OS+SS}$	0 ± 0
δ_{P1}^{OS+SS}	0 ± 0
$\delta_{\bar{\omega}}^{OS+SS}$	0 ± 0
$C_{S-P}(1008)$	0.956 ± 0
$C_{S-P}(1016)$	0.926 ± 0
$C_{S-P}(1020)$	0.926 ± 0
$C_{S-P}(1024)$	0.956 ± 0
$C_{S-P}(1032)$	0.966 ± 0

Table 1: Some Caption

Parameter	Fit result and error	σ from input
Γ	0.67139 ± 0.004853	0.00043
$\Delta\Gamma$	0.10001 ± 0.016251	0.00032
$A_\perp^2$	0.24867 ± 0.0088262	-0.00089
A_0^2	0.52114 ± 0.0061428	0.00015
$\delta_\parallel$	3.3069 ± 0.16037	0.0074
$\delta_\perp$	3.0784 ± 0.21943	0.0043
$F_S(990)$	0.22699 ± 0.075688	0.0042
$\delta_S(990)$	1.3081 ± 0.66082	-0.025
Δm_s	17.669 ± 0.076983	-0.0085
ϕ_s	0.067123 ± 0.091117	0.0013
λ	0.94447 ± 0.035565	0.013
ω_{P1}^{OS}	1.0004 ± 0.022937	0.0022
ω_{P0}^{OS}	0.39191 ± 0.0077904	0.00093
δ_{P0}^{OS}	0.011051 ± 0.0033969	-0.00015
$\sigma(\tau)_{\text{scale}}^{\text{resolution}}$	1.4511 ± 0.059376	0.018
ω_{P1}^{SS}	1.0303 ± 0.15867	0.00014
ω_{P0}^{SS}	0.3554 ± 0.016328	-0.0012
δ_{P0}^{SS}	-0.018935 ± 0.0049995	0.00013
ω_{P0}^{OS+SS}	0.0048304 ± 0.024529	0.00081
δ_{P0}^{OS+SS}	-0.011076 ± 0.0040007	0.00024
$F_S(1008)$	0.066776 ± 0.029256	0.0017
$\delta_S(1008)$	0.77009 ± 0.28877	-0.0044
$F_S(1016)$	0.0081715 ± 0.022524	0.0013
$\delta_S(1016)$	0.48983 ± 0.90834	-0.00078
$F_S(1020)$	0.016043 ± 0.010599	0.0023
$\delta_S(1020)$	-0.51584 ± 0.25763	0.0025
$F_S(1024)$	0.055303 ± 0.025847	0.0023
$\delta_S(1024)$	-0.45202 ± 0.20266	0.0016
$F_S(1032)$	0.16761 ± 0.041517	-0.0039
$\delta_S(1032)$	-0.653 ± 0.1988	-0.00076
δ_0	0 ± 0	0
$C_{S-P}(990)$	0.966 ± 0	0
$\bar{\omega}_{\omega}^{OS}$	0.392 ± 0	0
δ_{P1}^{OS}	0 ± 0	0
$\delta_{\bar{\omega}}^{OS}$	0 ± 0	0
$\bar{\omega}_{\omega}^{SS}$	0.35 ± 0	0
δ_{P1}^{SS}	0 ± 0	0
$\delta_{\bar{\omega}}^{SS}$	0 ± 0	0
ω_{P1}^{OS+SS}	1 ± 0	0
$\bar{\omega}^{OS+SS}$	0 ± 0	0
δ_{P1}^{OS+SS}	0 ± 0	0
$\delta_{\bar{\omega}}^{OS+SS}$	0 ± 0	0
$C_{S-P}(1008)$	0.956 ± 0	0
$C_{S-P}(1016)$	0.926 ± 0	0
$C_{S-P}(1020)$	0.926 ± 0	0
$C_{S-P}(1024)$	0.956 ± 0	0
$C_{S-P}(1032)$	0.966 ± 0	0

Table 2: Some Caption

Parameter	Fit result and error	σ from input	Abs from input
Γ	0.67139 ± 0.004853	0.00043	2.1061e-06
$\Delta\Gamma$	0.10001 ± 0.016251	0.00032	5.275e-06
$A_{\perp}^2$	0.24867 ± 0.0088262	-0.00089	-7.8332e-06
A_0^2	0.52114 ± 0.0061428	0.00015	9.2692e-07
$\delta_{\parallel}$	3.3069 ± 0.16037	0.0074	0.0011842
$\delta_{\perp}$	3.0784 ± 0.21943	0.0043	0.00094599
$F_S(990)$	0.22699 ± 0.075688	0.0042	0.00031761
$\delta_S(990)$	1.3081 ± 0.66082	-0.025	-0.016549
Δm_s	17.669 ± 0.076983	-0.0085	-0.00065157
ϕ_s	0.067123 ± 0.091117	0.0013	0.00012278
λ	0.94447 ± 0.035565	0.013	0.00046874
ω_{P1}^{OS}	1.0004 ± 0.022937	0.0022	4.9931e-05
ω_{P0}^{OS}	0.39191 ± 0.0077904	0.00093	7.2279e-06
δ_{P0}^{OS}	0.011051 ± 0.0033969	-0.00015	-5.0271e-07
$\sigma(\tau)_{\text{scale}}^{\text{resolution}}$	1.4511 ± 0.059376	0.018	0.001087
ω_{P1}^{SS}	1.0303 ± 0.15867	0.00014	2.2175e-05
ω_{P0}^{SS}	0.3554 ± 0.016328	-0.0012	-2.0165e-05
δ_{P0}^{SS}	-0.018935 ± 0.0049995	0.00013	6.302e-07
ω_{P0}^{OS+SS}	0.0048304 ± 0.024529	0.00081	1.9982e-05
δ_{P0}^{OS+SS}	-0.011076 ± 0.0040007	0.00024	9.7955e-07
$F_S(1008)$	0.066776 ± 0.029256	0.0017	4.9937e-05
$\delta_S(1008)$	0.77009 ± 0.28877	-0.0044	-0.0012766
$F_S(1016)$	0.0081715 ± 0.022524	0.0013	2.8605e-05
$\delta_S(1016)$	0.48983 ± 0.90834	-0.00078	-0.00070836
$F_S(1020)$	0.016043 ± 0.010599	0.0023	2.4079e-05
$\delta_S(1020)$	-0.51584 ± 0.25763	0.0025	0.00064407
$F_S(1024)$	0.055303 ± 0.025847	0.0023	6.0663e-05
$\delta_S(1024)$	-0.45202 ± 0.20266	0.0016	0.00031445
$F_S(1032)$	0.16761 ± 0.041517	-0.0039	-0.00016337
$\delta_S(1032)$	-0.653 ± 0.1988	-0.00076	-0.00015026
δ_0	0 ± 0	0	0
$C_{S-P}(990)$	0.966 ± 0	0	0
$\bar{\omega}_{\bar{\omega}}^{OS}$	0.392 ± 0	0	0
δ_{P1}^{OS}	0 ± 0	0	0
$\delta_{\bar{\omega}}^{OS}$	0 ± 0	0	0
$\bar{\omega}_{\bar{\omega}}^{SS}$	0.35 ± 0	0	0
δ_{P1}^{SS}	0 ± 0	0	0
$\delta_{\bar{\omega}}^{SS}$	0 ± 0	0	0
ω_{P1}^{OS+SS}	1 ± 0	0	0
$\bar{\omega}^{OS+SS}$	0 ± 0	0	0
δ_{P1}^{OS+SS}	0 ± 0	0	0
$\delta_{\bar{\omega}}^{OS+SS}$	0 ± 0	0	0
$C_{S-P}(1008)$	0.956 ± 0	0	0
$C_{S-P}(1016)$	0.926 ± 0	0	0
$C_{S-P}(1020)$	0.926 ± 0	0	0
$C_{S-P}(1024)$	0.956 ± 0	0	0
$C_{S-P}(1032)$	0.966 ± 0	0	0
τ_{Offset}	0 ± -2	0	0

Table 3: Some Caption

Parameter	Fit result and error	σ from input
Γ	0.67139 ± 0.004853	0.00043
$\Delta\Gamma$	0.10001 ± 0.016251	0.00032
$A_{\perp}^2$	0.24867 ± 0.0088262	-0.00089
A_0^2	0.52114 ± 0.0061428	0.00015
$\delta_{\parallel}$	3.3069 ± 0.16037	0.0074
$\delta_{\perp}$	3.0784 ± 0.21943	0.0043
$F_S(990)$	0.22699 ± 0.075688	0.0042
$\delta_S(990)$	1.3081 ± 0.66082	-0.025
Δm_s	17.669 ± 0.076983	-0.0085
ϕ_s	0.067123 ± 0.091117	0.0013
λ	0.94447 ± 0.035565	0.013
ω_{P1}^{OS}	1.0004 ± 0.022937	0.0022
ω_{P0}^{OS}	0.39191 ± 0.0077904	0.00093
δ_{P0}^{OS}	0.011051 ± 0.0033969	-0.00015
$\sigma(\tau)_{\text{scale}}^{\text{resolution}}$	1.4511 ± 0.059376	0.018
ω_{P1}^{SS}	1.0303 ± 0.15867	0.00014
ω_{P0}^{SS}	0.3554 ± 0.016328	-0.0012
δ_{P0}^{SS}	-0.018935 ± 0.0049995	0.00013
ω_{P0}^{OS+SS}	0.0048304 ± 0.024529	0.00081
δ_{P0}^{OS+SS}	-0.011076 ± 0.0040007	0.00024
$F_S(1008)$	0.066776 ± 0.029256	0.0017
$\delta_S(1008)$	0.77009 ± 0.28877	-0.0044
$F_S(1016)$	0.0081715 ± 0.022524	0.0013
$\delta_S(1016)$	0.48983 ± 0.90834	-0.00078
$F_S(1020)$	0.016043 ± 0.010599	0.0023
$\delta_S(1020)$	-0.51584 ± 0.25763	0.0025
$F_S(1024)$	0.055303 ± 0.025847	0.0023
$\delta_S(1024)$	-0.45202 ± 0.20266	0.0016
$F_S(1032)$	0.16761 ± 0.041517	-0.0039
$\delta_S(1032)$	-0.653 ± 0.1988	-0.00076
δ_0	0 ± 0	0
$C_{S-P}(990)$	0.966 ± 0	0
$\bar{\omega}_{\omega}^{OS}$	0.392 ± 0	0
δ_{P1}^{OS}	0 ± 0	0
$\delta_{\bar{\omega}}^{OS}$	0 ± 0	0
$\bar{\omega}_{\omega}^{SS}$	0.35 ± 0	0
δ_{P1}^{SS}	0 ± 0	0
$\delta_{\bar{\omega}}^{SS}$	0 ± 0	0
ω_{P1}^{OS+SS}	1 ± 0	0
$\bar{\omega}^{OS+SS}$	0 ± 0	0
δ_{P1}^{OS+SS}	0 ± 0	0
$\delta_{\bar{\omega}}^{OS+SS}$	0 ± 0	0
$C_{S-P}(1008)$	0.956 ± 0	0
$C_{S-P}(1016)$	0.926 ± 0	0
$C_{S-P}(1020)$	0.926 ± 0	0
$C_{S-P}(1024)$	0.956 ± 0	0
$C_{S-P}(1032)$	0.966 ± 0	0
τ_{Offset}	0 ± -2	0

Table 4: Some Caption

Parameter	Fit result and error
Γ	0.671 ± 0.00485
$\Delta\Gamma$	0.1 ± 0.0163
$A_{\perp}^2$	0.249 ± 0.00883
A_0^2	0.521 ± 0.00614
$\delta_{\parallel}$	3.31 ± 0.16
$\delta_{\perp}$	3.08 ± 0.219
$F_S(990)$	0.227 ± 0.0757
$\delta_S(990)$	1.31 ± 0.661
Δm_s	17.7 ± 0.077
ϕ_s	0.0671 ± 0.0911
λ	0.944 ± 0.0356
ω_{P1}^{OS}	1 ± 0.0229
ω_{P0}^{OS}	0.392 ± 0.00779
δ_{P0}^{OS}	0.0111 ± 0.0034
$\sigma(\tau)_{\text{scale}}^{\text{resolution}}$	1.45 ± 0.0594
ω_{P1}^{SS}	1.03 ± 0.159
ω_{P0}^{SS}	0.355 ± 0.0163
δ_{P0}^{SS}	-0.0189 ± 0.005
ω_{P0}^{OS+SS}	0.00483 ± 0.0245
δ_{P0}^{OS+SS}	-0.0111 ± 0.004
$F_S(1008)$	0.0668 ± 0.0293
$\delta_S(1008)$	0.77 ± 0.289
$F_S(1016)$	0.00817 ± 0.0225
$\delta_S(1016)$	0.49 ± 0.908
$F_S(1020)$	0.016 ± 0.0106
$\delta_S(1020)$	-0.516 ± 0.258
$F_S(1024)$	0.0553 ± 0.0258
$\delta_S(1024)$	-0.452 ± 0.203
$F_S(1032)$	0.168 ± 0.0415
$\delta_S(1032)$	-0.653 ± 0.199
δ_0	0 ± 0
$C_{S-P}(990)$	0.966 ± 0
$\bar{\omega}_{\omega}^{OS}$	0.392 ± 0
δ_{P1}^{OS}	0 ± 0
$\delta_{\bar{\omega}}^{OS}$	0 ± 0
$\bar{\omega}_{\omega}^{SS}$	0.35 ± 0
δ_{P1}^{SS}	0 ± 0
$\delta_{\bar{\omega}}^{SS}$	0 ± 0
ω_{P1}^{OS+SS}	1 ± 0
$\bar{\omega}^{OS+SS}$	0 ± 0
δ_{P1}^{OS+SS}	0 ± 0
$\delta_{\bar{\omega}}^{OS+SS}$	0 ± 0
$C_{S-P}(1008)$	0.956 ± 0
$C_{S-P}(1016)$	0.926 ± 0
$C_{S-P}(1020)$	0.926 ± 0
$C_{S-P}(1024)$	0.956 ± 0
$C_{S-P}(1032)$	0.966 ± 0
τ_{Offset}	0 ± -2

Table 5: Some Caption

left=3cm,bottom=2cm

	Γ	$\Delta\Gamma$	$A_\perp^2$	A_0^2	$\delta_\parallel$	$\delta_\perp$	$F_S(990)$	$\delta_S(990)$	Δm_s	ϕ_s	λ	ω_{P1}^{OS}	ω_{P0}^{OS}	δ_{P0}^{OS}	$\sigma(\tau)_{\text{scale}}^{\text{resolution}}$	ω_{P1}^{SS}	ω_{P0}^{SS}	δ_{P0}^{SS}	ω_{P0}^{OS+SS}	δ_{P0}^{OS+SS}	$F_S(1008)$	$\delta_S(1008)$
Γ	1.00	-0.39	0.37	-0.25	-0.11	-0.03	0.05	-0.00	-0.01	0.07	0.09	0.00	0.03	-0.00	0.00	0.00	0.02	-0.00	-0.01	-0.00	0.07	-0.04
$\Delta\Gamma$		1.00	**-0.68**	**0.64**	0.04	0.03	-0.09	0.01	0.03	-0.06	0.01	0.00	0.00	0.00	-0.00	0.00	0.01	0.00	0.01	0.00	-0.02	-0.02
$A_\perp^2$			1.00	**-0.57**	-0.31	-0.10	0.04	0.02	-0.01	0.09	-0.06	-0.00	0.00	-0.00	0.01	0.00	0.00	-0.00	-0.01	-0.00	-0.01	0.01
A_0^2				1.00	-0.03	-0.01	-0.05	0.01	0.00	-0.06	0.07	0.00	0.02	-0.00	0.00	0.00	0.02	-0.00	-0.00	0.00	0.02	-0.04
$\delta_\parallel$					1.00	0.32	0.02	-0.10	0.01	-0.03	-0.02	-0.00	-0.05	0.00	-0.03	-0.01	-0.04	0.00	0.01	0.00	-0.03	0.01
$\delta_\perp$						1.00	0.05	-0.22	**0.58**	0.28	0.01	-0.00	-0.03	-0.00	-0.02	-0.01	-0.03	0.00	0.03	-0.00	0.05	-0.07
$F_S(990)$							1.00	-0.18	0.02	0.02	0.03	0.00	0.01	-0.00	-0.00	-0.00	0.01	-0.00	-0.02	0.00	0.01	-0.01
$\delta_S(990)$								1.00	-0.08	-0.03	-0.03	0.00	-0.02	0.00	-0.00	0.00	0.02	0.00	0.02	0.00	-0.01	0.02
Δm_s									1.00	0.21	-0.06	0.01	0.00	0.00	-0.01	-0.01	0.01	0.00	-0.00	-0.00	0.01	0.00
ϕ_s										1.00	0.05	-0.01	0.03	-0.00	0.01	-0.00	-0.03	-0.00	-0.03	-0.00	-0.02	0.01
λ											1.00	0.01	0.12	-0.00	0.01	0.01	0.05	-0.00	-0.06	-0.00	0.13	-0.12
ω_{P1}^{OS}												1.00	0.01	-0.00	0.00	0.00	0.00	-0.00	-0.00	-0.00	0.00	-0.00
ω_{P0}^{OS}													1.00	-0.00	-0.02	0.00	0.02	-0.00	-0.01	-0.00	0.01	-0.01
δ_{P0}^{OS}														1.00	-0.00	-0.00	-0.00	0.00	0.00	0.00	-0.00	0.00
$\sigma(\tau)_{\text{scale}}^{\text{resolution}}$															1.00	-0.00	-0.02	-0.00	-0.02	0.00	0.01	-0.00
ω_{P1}^{SS}																1.00	-0.00	0.00	-0.00	-0.00	-0.01	0.01
ω_{P0}^{SS}																	1.00	-0.00	-0.01	-0.00	0.07	-0.07
δ_{P0}^{SS}																		1.00	0.00	0.00	0.00	0.00
ω_{P0}^{OS+SS}																			1.00	0.01	-0.03	0.04
δ_{P0}^{OS+SS}																				1.00	-0.00	0.00
$F_S(1008)$																					1.00	**-0.62**
$\delta_S(1008)$																						1.00
$F_S(1016)$																						
$\delta_S(1016)$																						
$F_S(1020)$																						
$\delta_S(1020)$																						
$F_S(1024)$																						
$\delta_S(1024)$																						
$F_S(1032)$																						
$\delta_S(1032)$																						

Table 6: Some Caption