

| Parameter | | Raw | Bias | Pull width | Corrected | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (total) |
|-------------------|--------------|--------------------|--------|------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| $\psi(3770)$ | Magnitude | 1 (fixed) | | | | | | | | | | | | |
| | Phase (rad) | 0 (fixed) | | | | | | | | | | | | |
| | Fit fraction | 0.144 | -0.001 | | 0.145 ± 0.012 | 0.001 | 0.001 | 0.002 | 0.000 | 0.006 | 0.000 | 0.001 | 0.004 | 0.008 |
| $\chi_{c0}(3930)$ | Magnitude | 0.515 ± 0.068 | 0.009 | 0.945 | 0.506 ± 0.064 | 0.001 | 0.003 | 0.001 | 0.003 | 0.016 | 0.002 | 0.003 | 0.004 | 0.017 |
| | Phase (rad) | 2.168 ± 0.189 | 0.006 | 0.970 | 2.162 ± 0.184 | 0.000 | 0.011 | 0.003 | 0.003 | 0.027 | 0.009 | 0.011 | 0.012 | 0.034 |
| | Fit fraction | 0.038 | 0.001 | | 0.037 ± 0.009 | 0.000 | 0.001 | 0.001 | 0.000 | 0.001 | 0.000 | 0.001 | 0.001 | 0.002 |
| $\chi_{c2}(3930)$ | Magnitude | 0.704 ± 0.064 | 0.001 | 1.011 | 0.703 ± 0.064 | 0.001 | 0.003 | 0.005 | 0.004 | 0.006 | 0.001 | 0.006 | 0.003 | 0.012 |
| | Phase (rad) | 0.783 ± 0.170 | -0.044 | 1.003 | 0.827 ± 0.170 | 0.002 | 0.008 | 0.002 | 0.002 | 0.011 | 0.013 | 0.036 | 0.127 | 0.133 |
| | Fit fraction | 0.072 | -0.001 | | 0.072 ± 0.012 | 0.001 | 0.001 | 0.000 | 0.001 | 0.002 | 0.000 | 0.000 | 0.003 | 0.003 |
| $\psi(4040)$ | Magnitude | 0.608 ± 0.077 | 0.024 | 1.002 | 0.585 ± 0.078 | 0.003 | 0.005 | 0.003 | 0.001 | 0.021 | 0.007 | 0.009 | 0.024 | 0.035 |
| | Phase (rad) | 1.384 ± 0.188 | -0.032 | 0.938 | 1.416 ± 0.176 | 0.005 | 0.005 | 0.000 | 0.001 | 0.075 | 0.001 | 0.035 | 0.006 | 0.084 |
| | Fit fraction | 0.053 | 0.003 | | 0.050 ± 0.013 | 0.000 | 0.001 | 0.000 | 0.000 | 0.002 | 0.001 | 0.002 | 0.003 | 0.004 |
| $\psi(4160)$ | Magnitude | 0.670 ± 0.081 | 0.002 | 1.040 | 0.668 ± 0.084 | 0.003 | 0.005 | 0.004 | 0.000 | 0.014 | 0.004 | 0.015 | 0.047 | 0.052 |
| | Phase (rad) | 0.805 ± 0.232 | -0.093 | 0.970 | 0.898 ± 0.225 | 0.015 | 0.005 | 0.003 | 0.002 | 0.084 | 0.011 | 0.027 | 0.014 | 0.092 |
| | Fit fraction | 0.065 | -0.001 | | 0.066 ± 0.015 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.001 | 0.012 | 0.012 |
| $\psi(4415)$ | Magnitude | 0.770 ± 0.083 | -0.027 | 0.962 | 0.797 ± 0.080 | 0.000 | 0.005 | 0.009 | 0.005 | 0.011 | 0.015 | 0.053 | 0.022 | 0.061 |
| | Phase (rad) | -1.606 ± 0.229 | -0.148 | 0.860 | -1.458 ± 0.197 | 0.001 | 0.015 | 0.006 | 0.013 | 0.009 | 0.023 | 0.083 | 0.019 | 0.091 |
| | Fit fraction | 0.086 | -0.006 | | 0.092 ± 0.014 | 0.000 | 0.001 | 0.001 | 0.001 | 0.006 | 0.004 | 0.011 | 0.008 | 0.015 |
| $X_0(2900)$ | Magnitude | 0.628 ± 0.080 | 0.009 | 0.982 | 0.619 ± 0.079 | 0.003 | 0.006 | 0.001 | 0.001 | 0.001 | 0.002 | 0.005 | 0.024 | 0.025 |
| | Phase (rad) | 1.076 ± 0.201 | -0.015 | 0.961 | 1.091 ± 0.193 | 0.002 | 0.008 | 0.005 | 0.005 | 0.036 | 0.001 | 0.007 | 0.086 | 0.095 |
| | Fit fraction | 0.057 | 0.001 | | 0.056 ± 0.014 | 0.000 | 0.001 | 0.001 | 0.000 | 0.002 | 0.000 | 0.003 | 0.003 | 0.005 |
| $X_1(2900)$ | Magnitude | 1.432 ± 0.085 | -0.018 | 1.010 | 1.449 ± 0.086 | 0.005 | 0.010 | 0.010 | 0.002 | 0.012 | 0.001 | 0.011 | 0.023 | 0.032 |
| | Phase (rad) | 0.370 ± 0.109 | 0.003 | 0.939 | 0.367 ± 0.102 | 0.003 | 0.009 | 0.003 | 0.000 | 0.034 | 0.006 | 0.003 | 0.033 | 0.049 |
| | Fit fraction | 0.296 | -0.010 | | 0.306 ± 0.024 | 0.000 | 0.002 | 0.000 | 0.001 | 0.007 | 0.000 | 0.006 | 0.019 | 0.021 |
| Nonres | Magnitude | 1.301 ± 0.087 | 0.008 | 1.007 | 1.293 ± 0.088 | 0.006 | 0.009 | 0.010 | 0.003 | 0.029 | 0.003 | 0.002 | 0.029 | 0.043 |
| | Phase (rad) | -2.466 ± 0.125 | -0.056 | 0.953 | -2.410 ± 0.119 | 0.003 | 0.011 | 0.004 | 0.003 | 0.025 | 0.011 | 0.492 | 0.123 | 0.508 |
| | Fit fraction | 0.244 | 0.002 | | 0.242 ± 0.022 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.000 | 0.001 | 0.004 | 0.005 |