

**FIT 1 \*\* 9 \*\*MINOS**

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FCN= 98.68205 FROM MINOS STATUS=SUCCESSFUL 861 CALLS 1278 TOTAL  
EDM= 0.31E-09 STRATEGY=1 ERROR MATRIX UNCERTAINTY= 0.2%

EXT PARAMETER			PARABOLIC	MINOS ERRORS	
NO.	NAME	VALUE	ERROR	NEGATIVE	POSITIVE
1	x	0.43902	0.13960	-0.14678	0.13214
2	y	0.62565	0.67380E-01	-0.68111E-01	0.66543E-01
3	delta	0.15530	0.15998	-0.17094	0.15451
4	rd	0.34399	0.22094E-02	-0.21790E-02	0.22422E-02
5	ad	0.0000	fixed		
6	qovp	1.0000	fixed		
7	phi	0.0000	fixed		
8	delta2	0.38025	0.41420	-0.41732	0.40960
9	ap	0.0000	fixed		
10	ak	0.0000	fixed		

**FIT 2a \*\* 16 \*\*MINOS**

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FCN= 66.27401 FROM MINOS STATUS=SUCCESSFUL 1255 CALLS 2795 TOTAL  
EDM= 0.72E-09 STRATEGY=1 ERROR MATRIX UNCERTAINTY= 1.0%

EXT PARAMETER			PARABOLIC	MINOS ERRORS	
NO.	NAME	VALUE	ERROR	NEGATIVE	POSITIVE
1	x	0.40914	0.48334E-01	-0.48485E-01	0.48176E-01
2	y	0.60286	0.56948E-01	-0.56206E-01	0.57297E-01
3	delta	0.096271	0.15674	-0.17208	0.14535
4	rd	0.34330	0.19153E-02	-0.18978E-02	0.19161E-02
5	ad	0.0000	fixed		
6	qovp	1.0000	fixed		
7	phi	-0.0031678	0.49339E-02	-0.50516E-02	0.49327E-02
8	delta2	0.38953	0.38730	-0.40128	0.38302
9	ap	0.026932	0.13684	-0.13683	0.13683
10	ak	-0.13309	0.13622	-0.13618	0.13618

**FIT 2b \*\* 23 \*\*MINOS**

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FCN= 66.27401 FROM MINOS STATUS=SUCCESSFUL 1186 CALLS 4147 TOTAL  
EDM= 0.17E-11 STRATEGY=1 ERROR MATRIX UNCERTAINTY= 0.0%

EXT PARAMETER			PARABOLIC	MINOS ERRORS	
NO.	NAME	VALUE	ERROR	NEGATIVE	POSITIVE
6	qovp	1.0047	0.72993E-02	-0.72679E-02	0.73797E-02
7	phi	0.0000	fixed		

**FIT 2c \*\* 30 \*\*MINOS**

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FCN= 66.27401 FROM MINOS STATUS=SUCCESSFUL 1200 CALLS 5513 TOTAL  
 EDM= 0.46E-11 STRATEGY=1 ERROR MATRIX UNCERTAINTY= 0.0%

EXT PARAMETER			PARABOLIC	MINOS ERRORS	
NO.	NAME	VALUE	ERROR	NEGATIVE	POSITIVE
1	x12	0.40915	0.48338E-01	-0.48482E-01	0.48174E-01
2	y12	0.60287	0.57159E-01	-0.56205E-01	0.57297E-01
3	delta	0.096270	0.15765	-0.17208	0.14535
4	rd	0.34330	0.19080E-02	-0.18977E-02	0.19161E-02
5	ad	0.0000	fixed		
6	qovp	1.0000	fixed		
7	phil2	0.010045	0.15661E-01	-0.15632E-01	0.15912E-01
8	delta2	0.38953	0.39251	-0.40127	0.38302
9	ap	0.026932	0.13683	-0.13683	0.13683
10	ak	-0.13309	0.13618	-0.13618	0.13618

**FIT 3 \*\* 41 \*\*MINOS**

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FCN= 63.83635 FROM MINOS STATUS=SUCCESSFUL 1821 CALLS 9366 TOTAL  
 EDM= 0.46E-10 STRATEGY=1 ERROR MATRIX UNCERTAINTY= 0.0%

EXT PARAMETER			PARABOLIC	MINOS ERRORS	
NO.	NAME	VALUE	ERROR	NEGATIVE	POSITIVE
1	x12	0.40888	0.48335E-01	-0.48505E-01	0.48182E-01
2	y12	0.59116	0.55775E-01	-0.54140E-01	0.56669E-01
3	delta	0.060843	0.16114	-0.17437	0.14966
4	rd	0.34309	0.18921E-02	-0.18786E-02	0.19041E-02
5	ad	0.0000	fixed		
6	phi^G	0.045789	0.30029E-01	-0.29541E-01	0.30546E-01
7	phi^M	0.011779	0.16852E-01	-0.16673E-01	0.17503E-01
8	delta2	0.37906	0.39397	-0.40256	0.38470
9	ap	0.028219	0.13692	-0.13691	0.13691
10	ak	-0.13176	0.13628	-0.13626	0.13627

**FIT 4 \*\* 44 \*\*MINOS**

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FCN= 63.64074 FROM MINOS STATUS=SUCCESSFUL 2040 CALLS 9721 TOTAL  
 EDM= 0.72E-10 STRATEGY=1 ERROR MATRIX UNCERTAINTY= 1.7%

EXT PARAMETER			PARABOLIC	MINOS ERRORS	
NO.	NAME	VALUE	ERROR	NEGATIVE	POSITIVE
1	x	0.40875	0.49012E-01	-0.48536E-01	0.48241E-01
2	y	0.61475	0.55853E-01	-0.55093E-01	0.56165E-01
3	delta	0.12492	0.14870	-0.16101	0.13828
4	rd	0.34337	0.18897E-02	-0.18777E-02	0.18955E-02

5	ad	-0.70334	0.35672	-0.35670	0.35686
6	qovp	0.99451	0.16026E-01	-0.15748E-01	0.16057E-01
7	phi	-0.043686	0.20769E-01	-0.21054E-01	0.20638E-01
8	delta2	0.40069	0.39063	-0.39959	0.38113
9	ap	0.045479	0.13752	-0.13721	0.13721
10	ak	-0.11335	0.13688	-0.13660	0.13661

# PARAMETER CORRELATION COEFFICIENTS

NO.	GLOBAL	1	2	3	4	5	6	7	8	9	10
1	0.40221	1.000	-0.075	-0.029	0.202	0.008	-0.122	0.087	-0.134	0.013	0.013
2	0.99055	-0.075	1.000	0.970	0.333	-0.195	-0.035	0.071	0.136	-0.021	-0.021
3	0.99227	-0.029	0.970	1.000	0.519	-0.198	-0.043	0.079	0.128	-0.020	-0.020
4	0.87862	0.202	0.333	0.519	1.000	-0.098	-0.073	0.039	0.015	-0.011	-0.012
5	0.70678	0.008	-0.195	-0.198	-0.098	1.000	-0.348	0.242	-0.027	-0.070	-0.075
6	0.79897	-0.122	-0.035	-0.043	-0.073	-0.348	1.000	0.558	0.010	0.060	0.064
7	0.78119	0.087	0.071	0.079	0.039	0.242	0.558	1.000	-0.006	-0.040	-0.042
8	0.18435	-0.134	0.136	0.128	0.015	-0.027	0.010	-0.006	1.000	-0.001	-0.001
9	0.97851	0.013	-0.021	-0.020	-0.011	-0.070	0.060	-0.040	-0.001	1.000	0.978
10	0.97854	0.013	-0.021	-0.020	-0.012	-0.075	0.064	-0.042	-0.001	0.978	1.000