Summary Sheet for M87 on MJD 0

Submitted Image

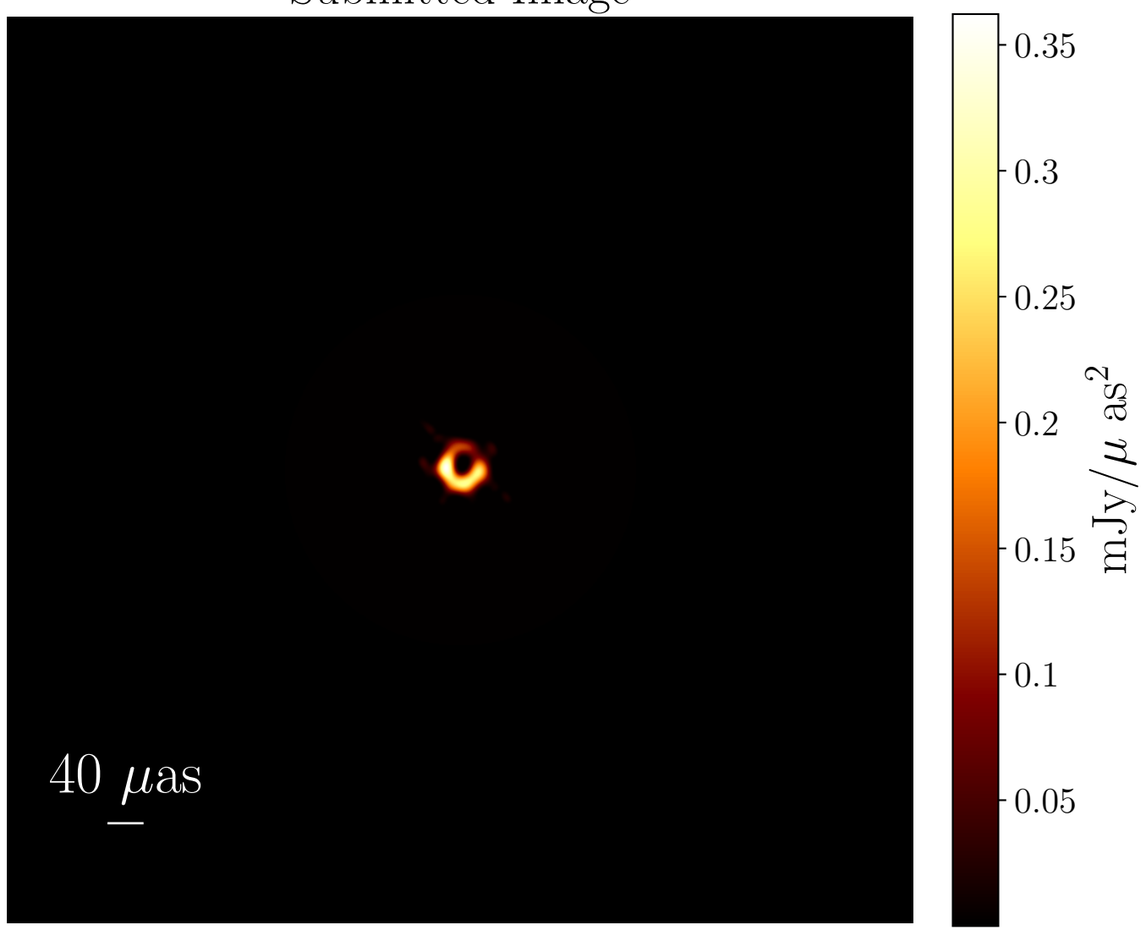


Image blurred to nominal resolution

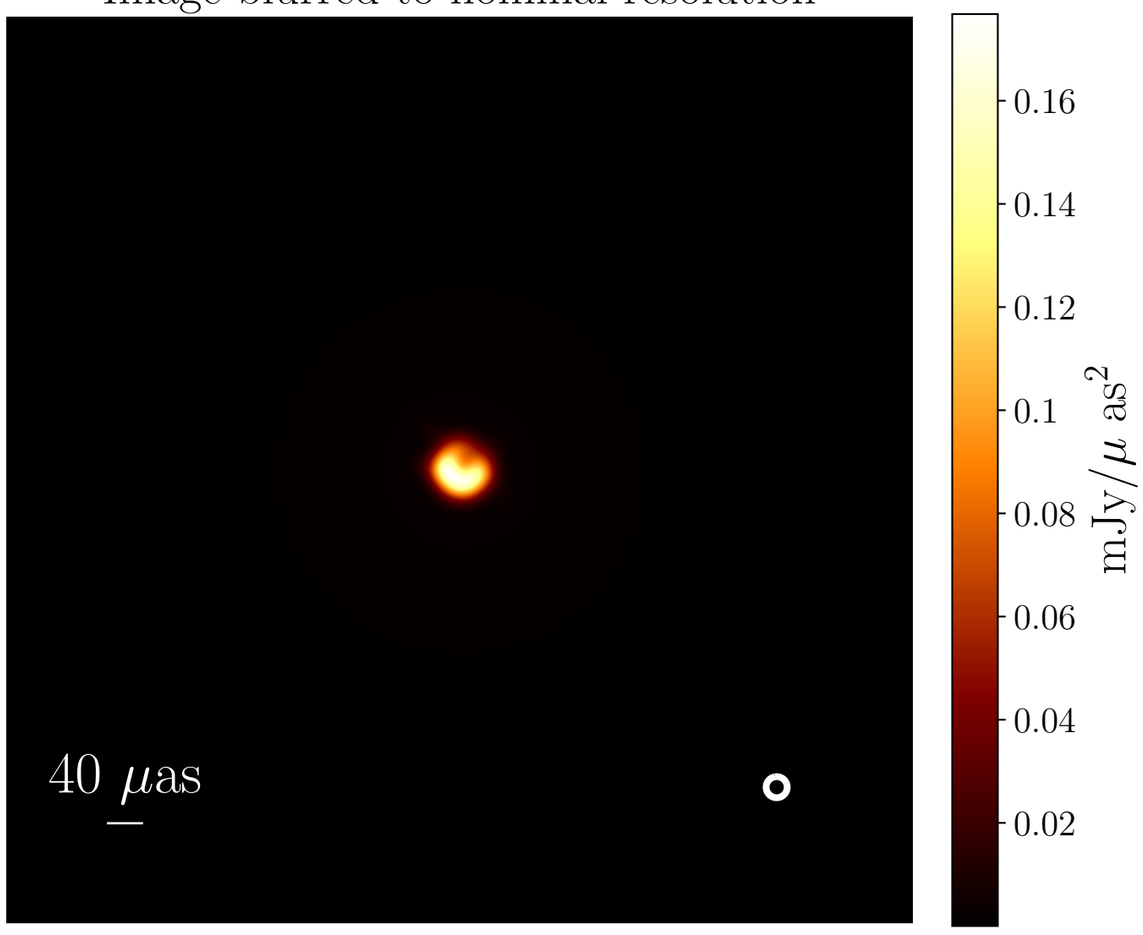


Image statistics

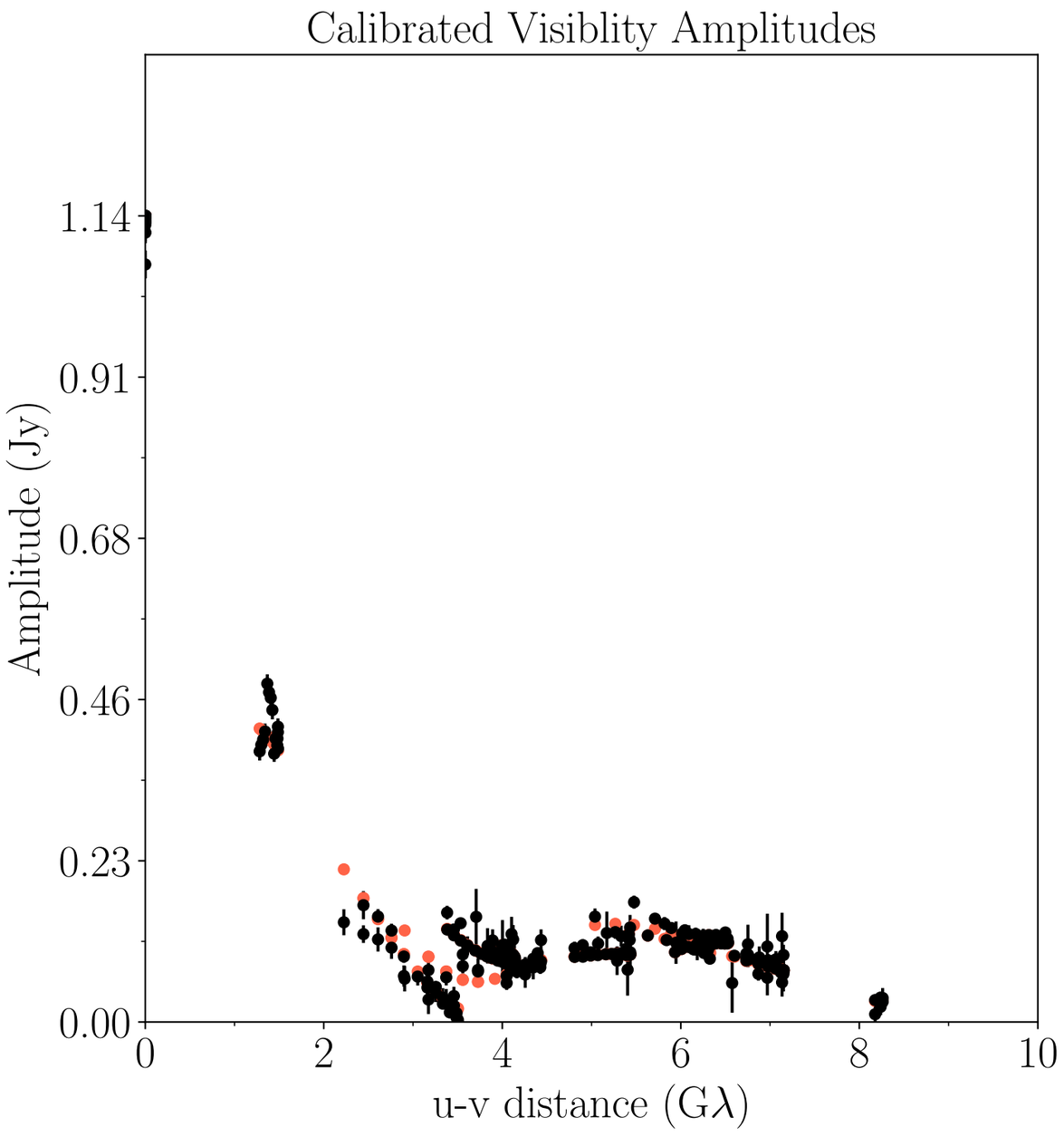
Source:	M87	χ^2_{vis}	1.44	(322212.06)
MJD:	0	χ^2_{amp}	1.66	(1456.78)
FREQ:	227 GHz	χ^2_{cphase}	1.30	(1.30)
FOV:	1072.0 μas	$\chi^2_{logcamp}$	1.57	(1.57)
FLUX:	1.14 Jy	χ^2_{camp}	1.79	(1.79)

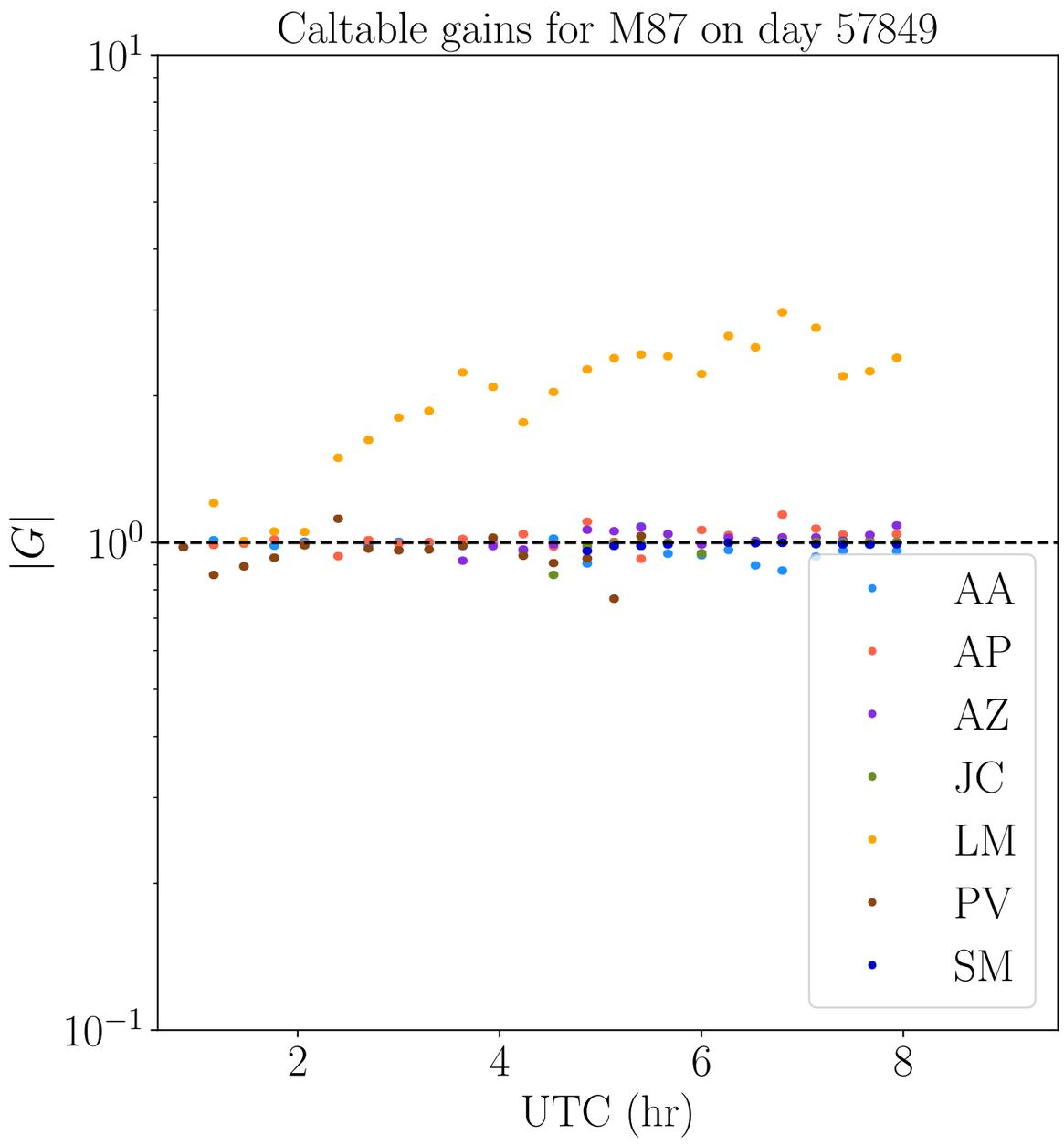
Closure phase statistics

Triangle	N_{tri}	χ^2_{tri}/N_{tri}	χ^2_{tri}/N_{tot}
AA-AZ-LM	16	1.4	0.248
AA-JC-LM	13	1.7	0.234
AA-LM-SM	11	1.9	0.224
AA-LM-PV	14	1.1	0.166
AP-LM-PV	15	0.9	0.151
AA-AZ-JC	13	0.9	0.131
AA-JC-PV	4	2.8	0.119
AA-AZ-PV	7	1.1	0.081
AA-AZ-SM	11	0.5	0.065
AA-PV-SM	3	1.1	0.035

Log Closure amplitude statistics

Quadrangle	N_{quad}	χ^2_{quad}/N_{quad}	χ^2_{quad}/N_{tot}
AA-LM-AZ-JC	13	2.9	0.254
AA-LM-JC-AZ	13	2.0	0.171
AA-PV-AZ-LM	7	3.3	0.156
AA-LM-AZ-AP	14	1.7	0.156
AA-PV-AZ-JC	4	5.2	0.140
AA-SM-JC-LM	11	1.8	0.131
AA-PV-AP-LM	14	1.3	0.124
AA-JC-AZ-AP	11	1.7	0.123
AA-PV-LM-AP	14	1.3	0.123
AA-SM-LM-AZ	11	1.6	0.120
AA-SM-AZ-JC	11	1.5	0.107
AA-LM-JC-AP	11	1.1	0.082
AA-LM-AP-AZ	14	0.8	0.077
AA-SM-LM-AP	9	1.2	0.073
AA-SM-LM-PV	3	2.6	0.052
AA-JC-AP-AZ	11	0.7	0.051
AA-SM-AP-AZ	9	0.7	0.043
AA-PV-AP-AZ	7	0.6	0.027
AA-PV-JC-LM	4	0.8	0.021
AA-SM-PV-AP	3	0.3	0.006





Visibility amplitude statistics

Baseline	N_{amp}	χ^2_{amp}/N_{amp}	χ^2_{amp}/N_{total}
AZ-LM	16	6.8	0.398
JC-LM	13	3.5	0.165
LM-PV	15	2.3	0.128
AP-LM	22	1.5	0.121
AZ-SM	11	2.7	0.107
AZ-JC	13	2.2	0.106
AA-JC	13	2.2	0.104
JC-SM	11	2.1	0.083
AP-AZ	14	1.6	0.080
AP-PV	15	1.1	0.059
AZ-PV	7	2.1	0.055
LM-SM	11	1.4	0.055
AA-LM	23	0.6	0.048
AP-SM	9	1.3	0.041
AA-SM	11	0.9	0.035
AP-JC	11	0.9	0.034
AA-AZ	16	0.4	0.022
JC-PV	4	0.8	0.012
PV-SM	3	0.2	0.002
AA-PV	15	0.0	0.002
AA-AP	21	0.0	0.000

Station gain statistics

Site	Median Gain	Percent diff.
LM	2.21	121
PV	0.97	3
AZ	1.02	2
AA	0.98	2
AP	1.01	1
SM	0.99	1
JC	1.00	0

Amplitude Plots

AA - PV

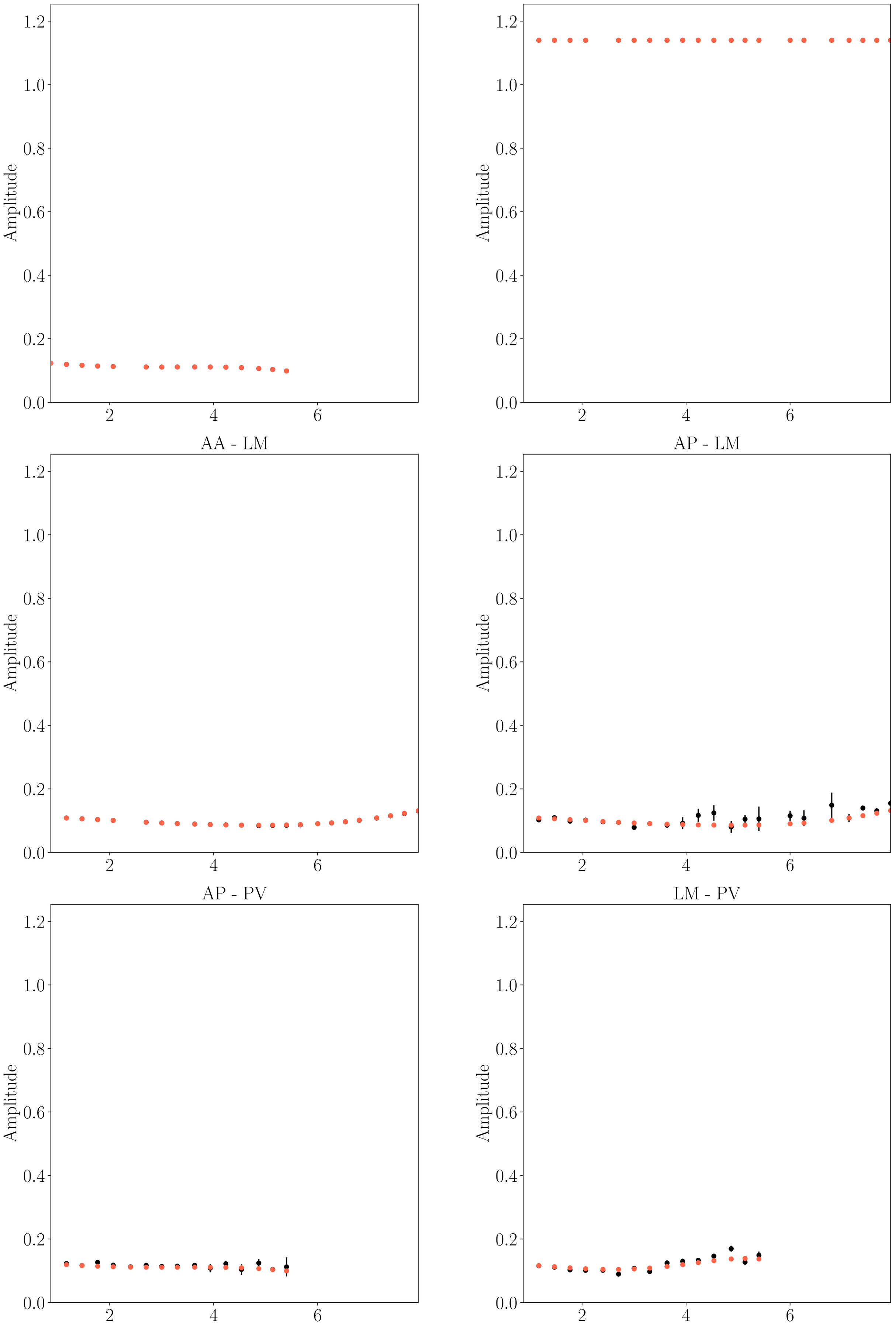
AA - AP

AA - LM

AP - LM

AP - PV

LM - PV



AA - AZ

AP - AZ

AZ - PV

AZ - LM

AA - JC

AP - JC

Amplitude

AZ - JC

JC - LM

JC - PV

AA - SM

AP - SM

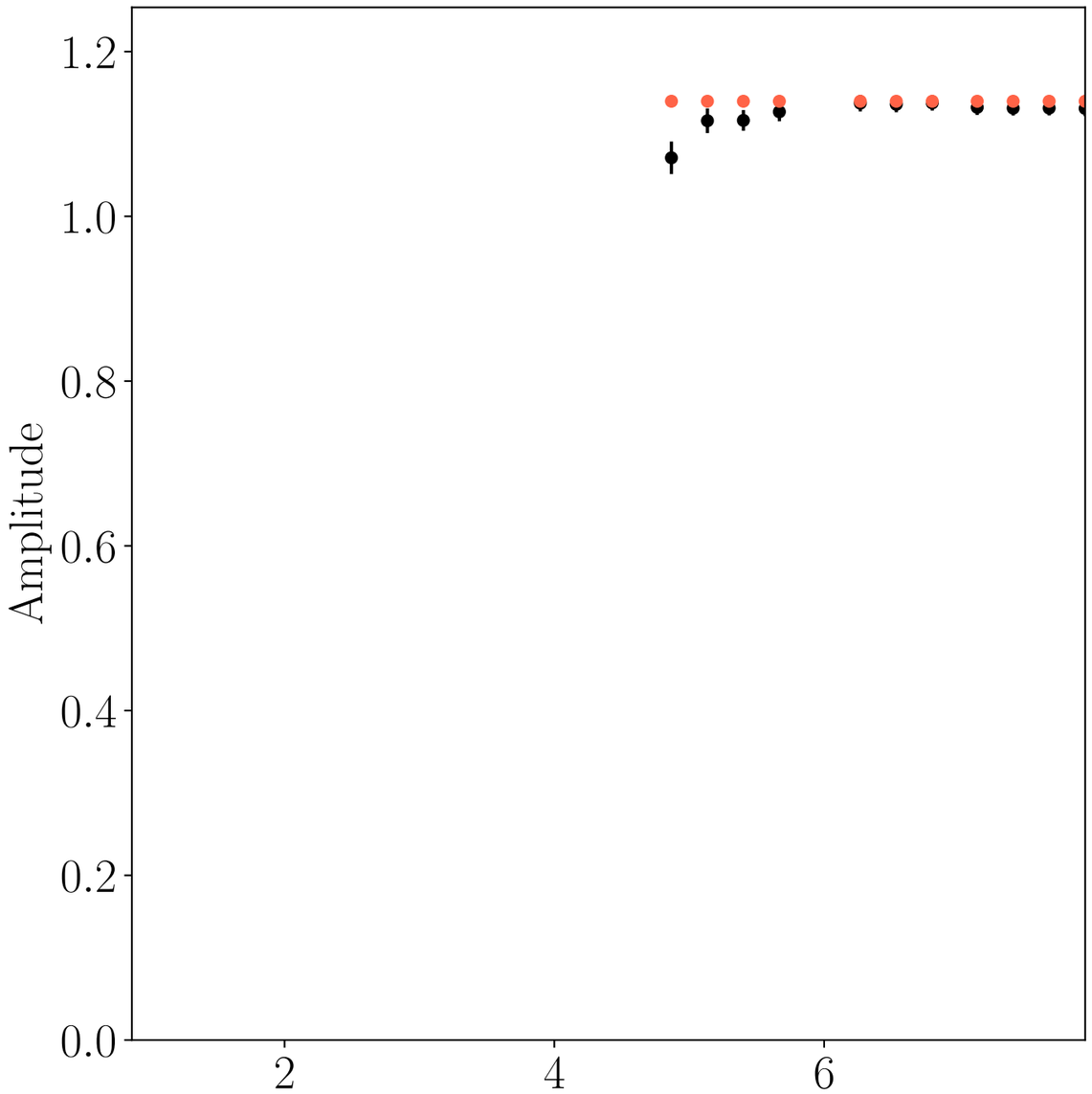
AZ - SM

Amplitude

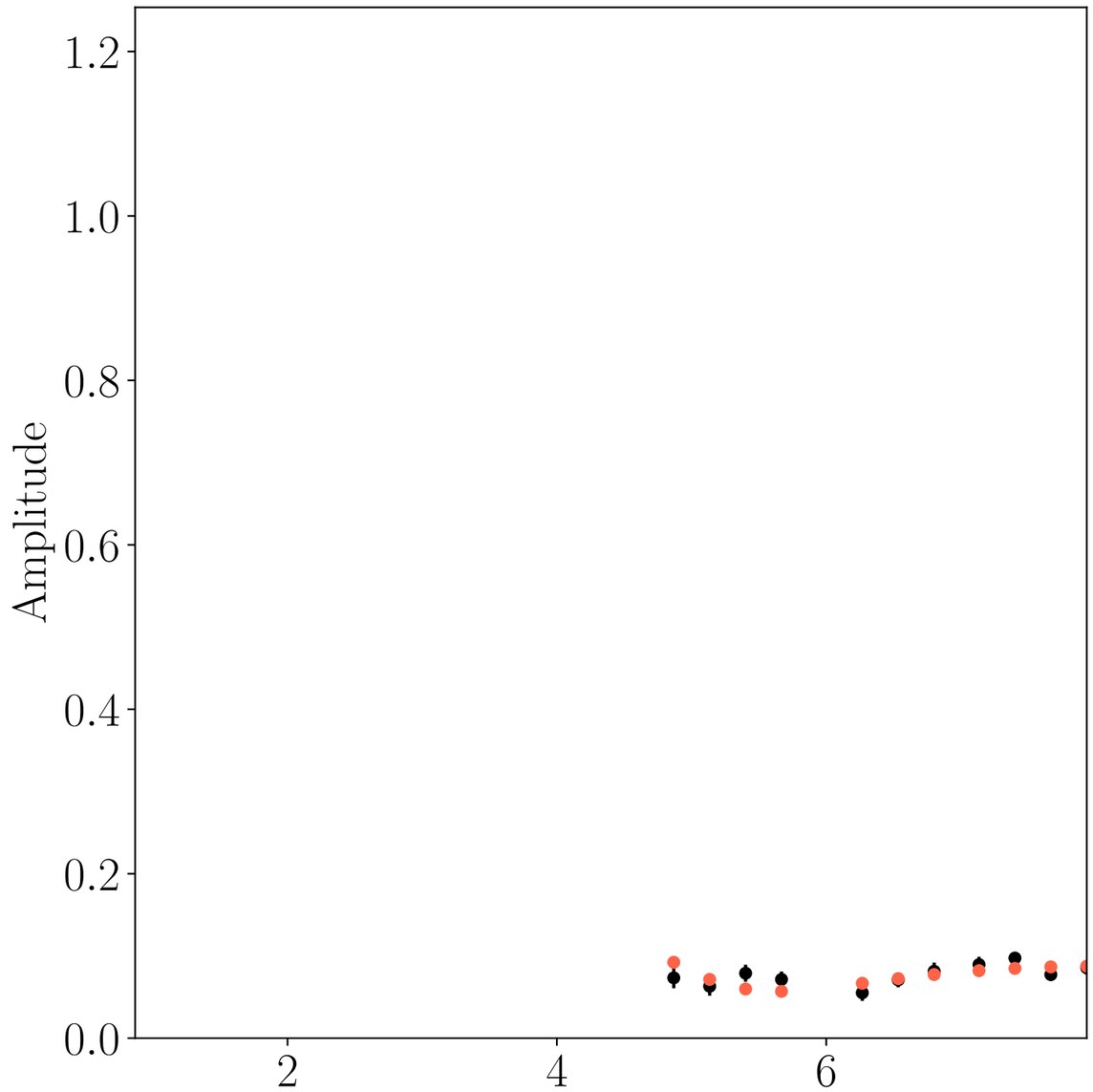
0.0 0.2 0.4 0.6 0.8 1.0 1.2

2 4 6

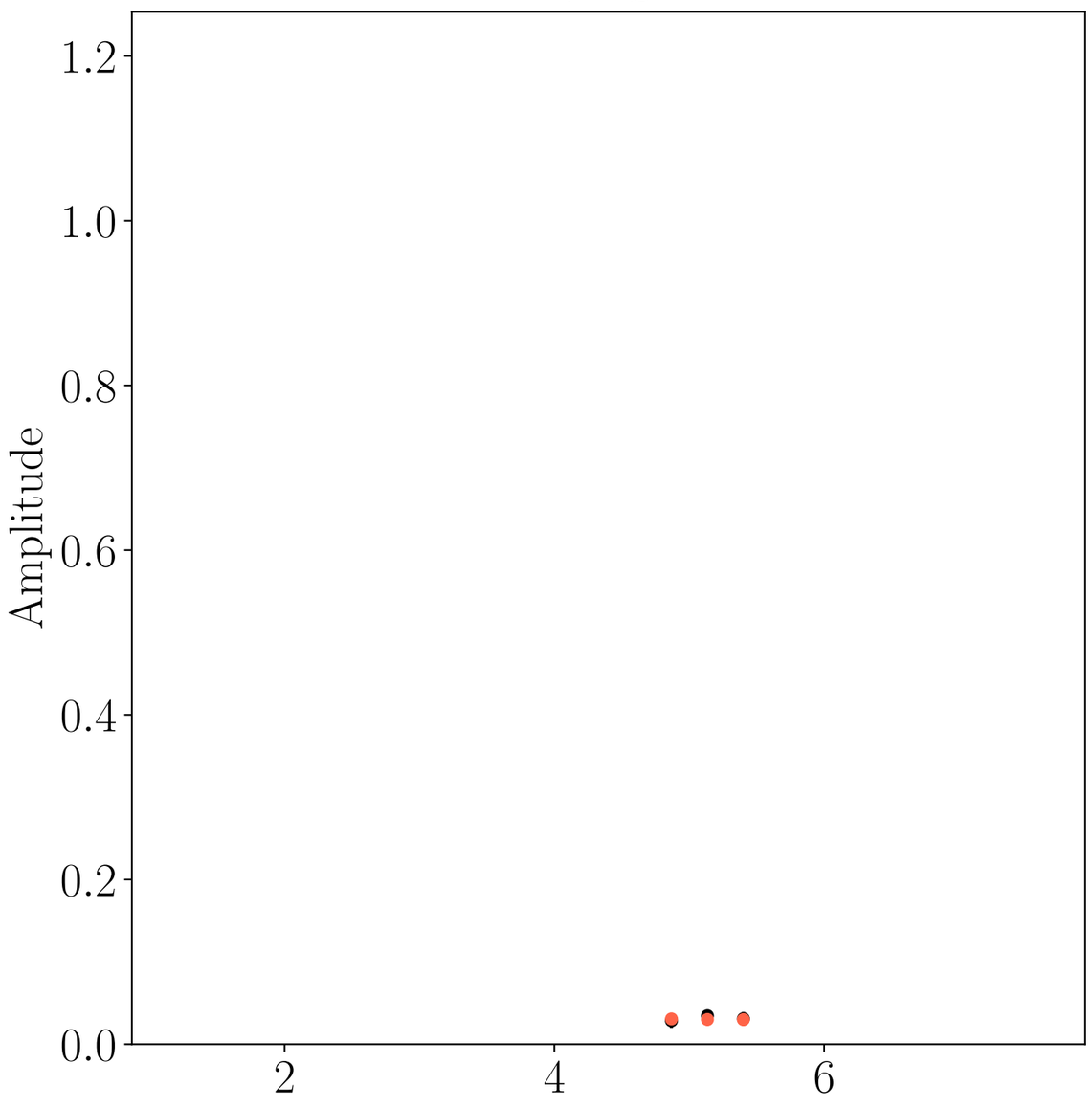
JC - SM



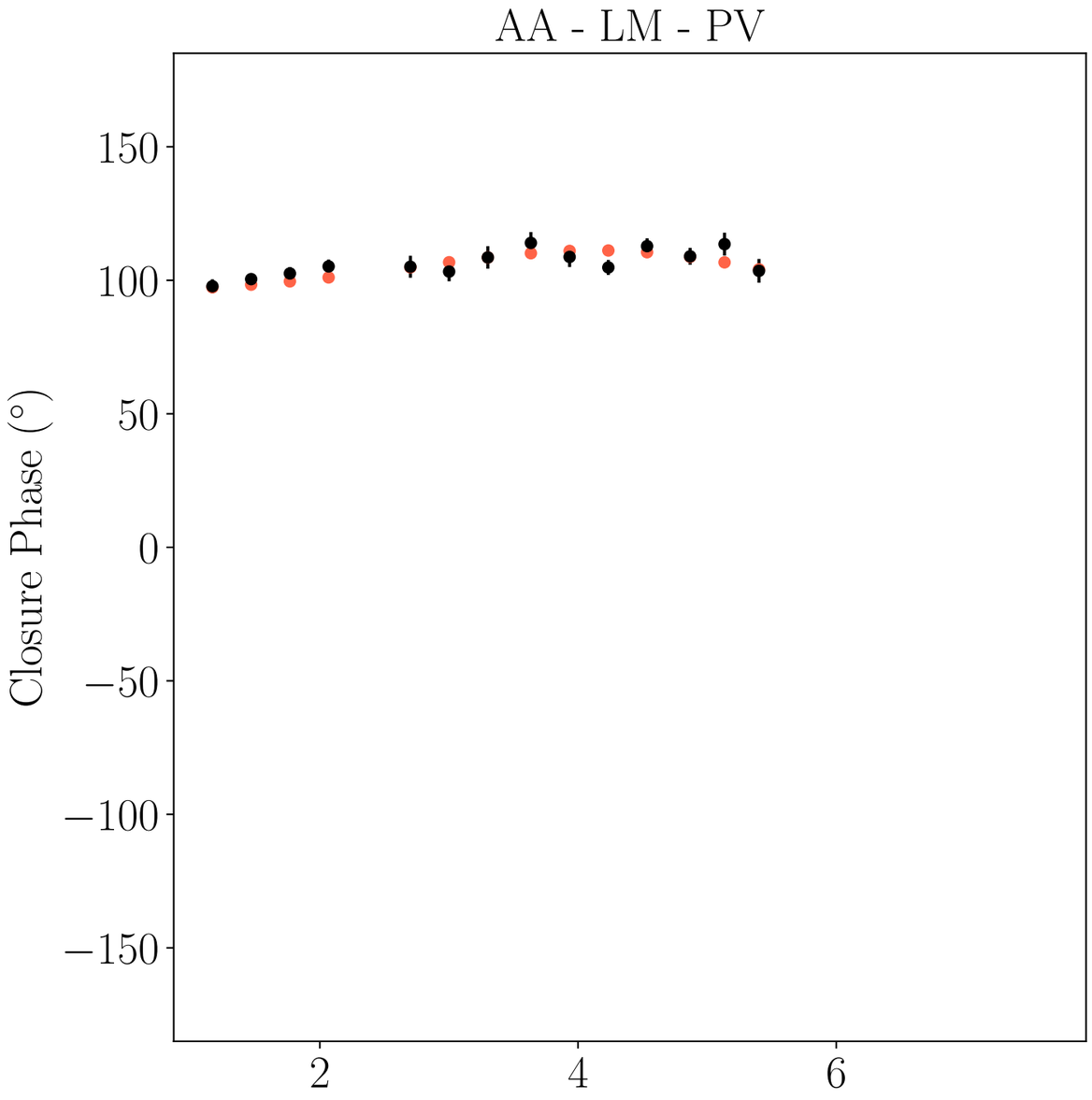
LM - SM

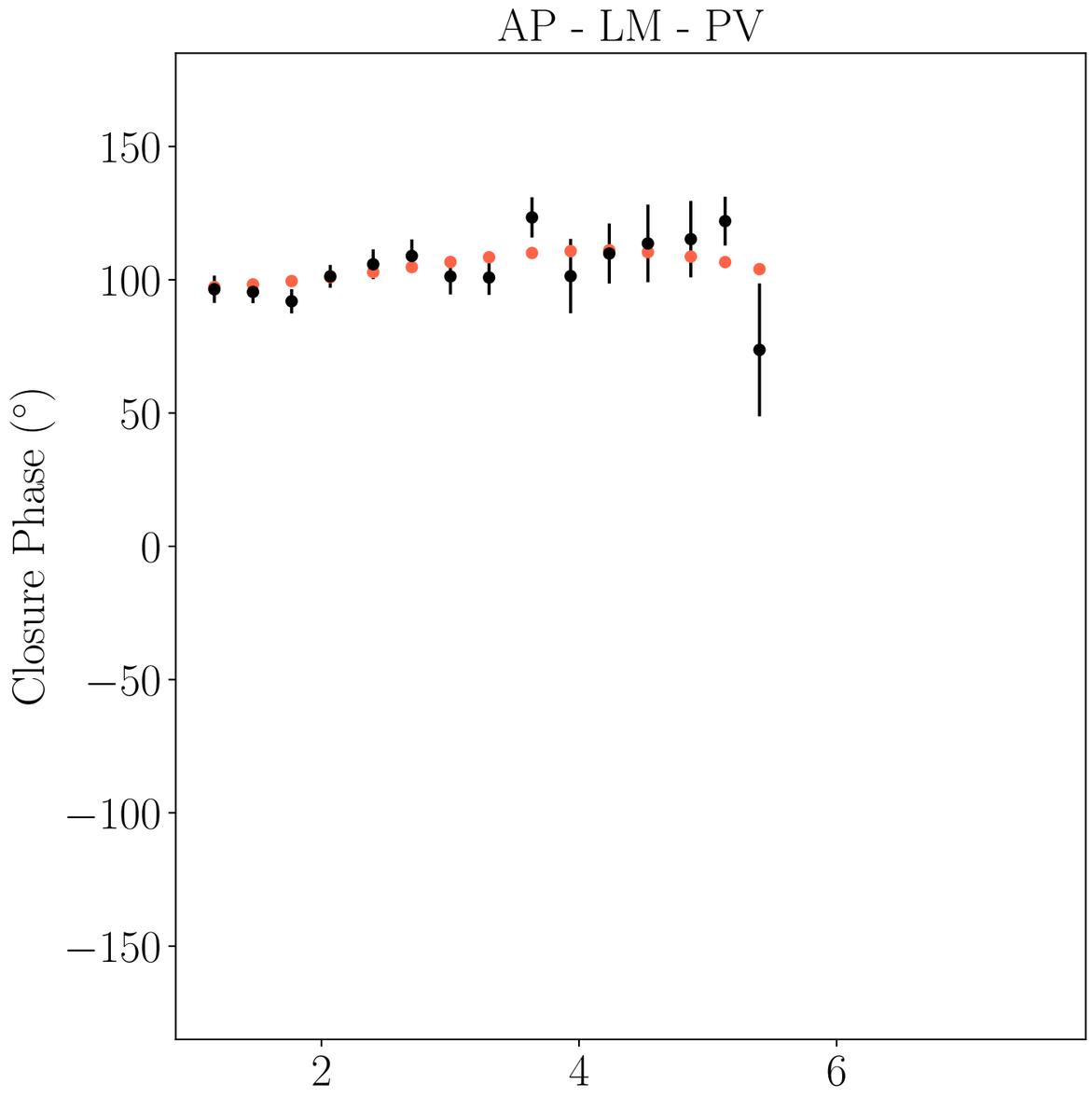


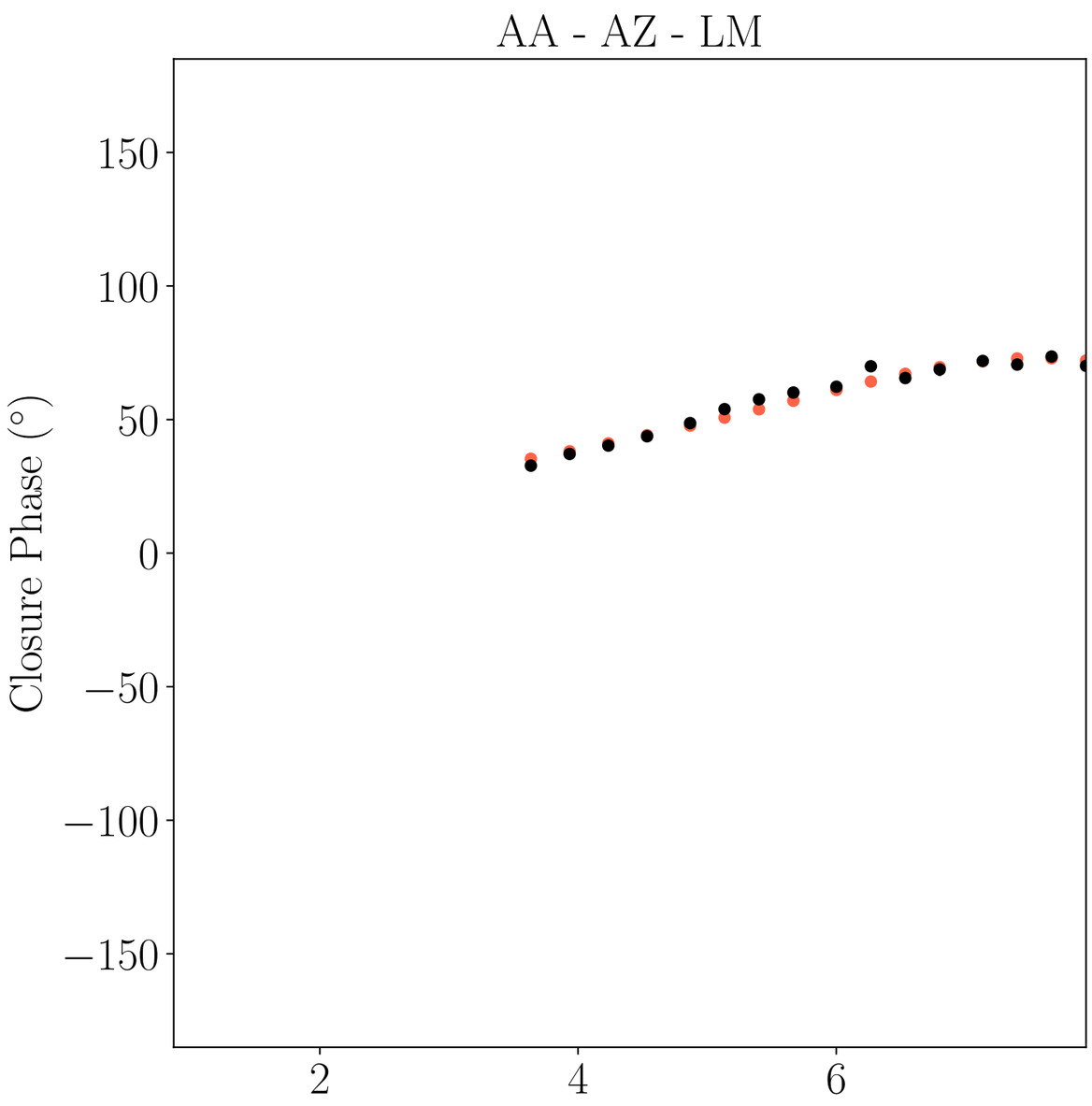
PV - SM

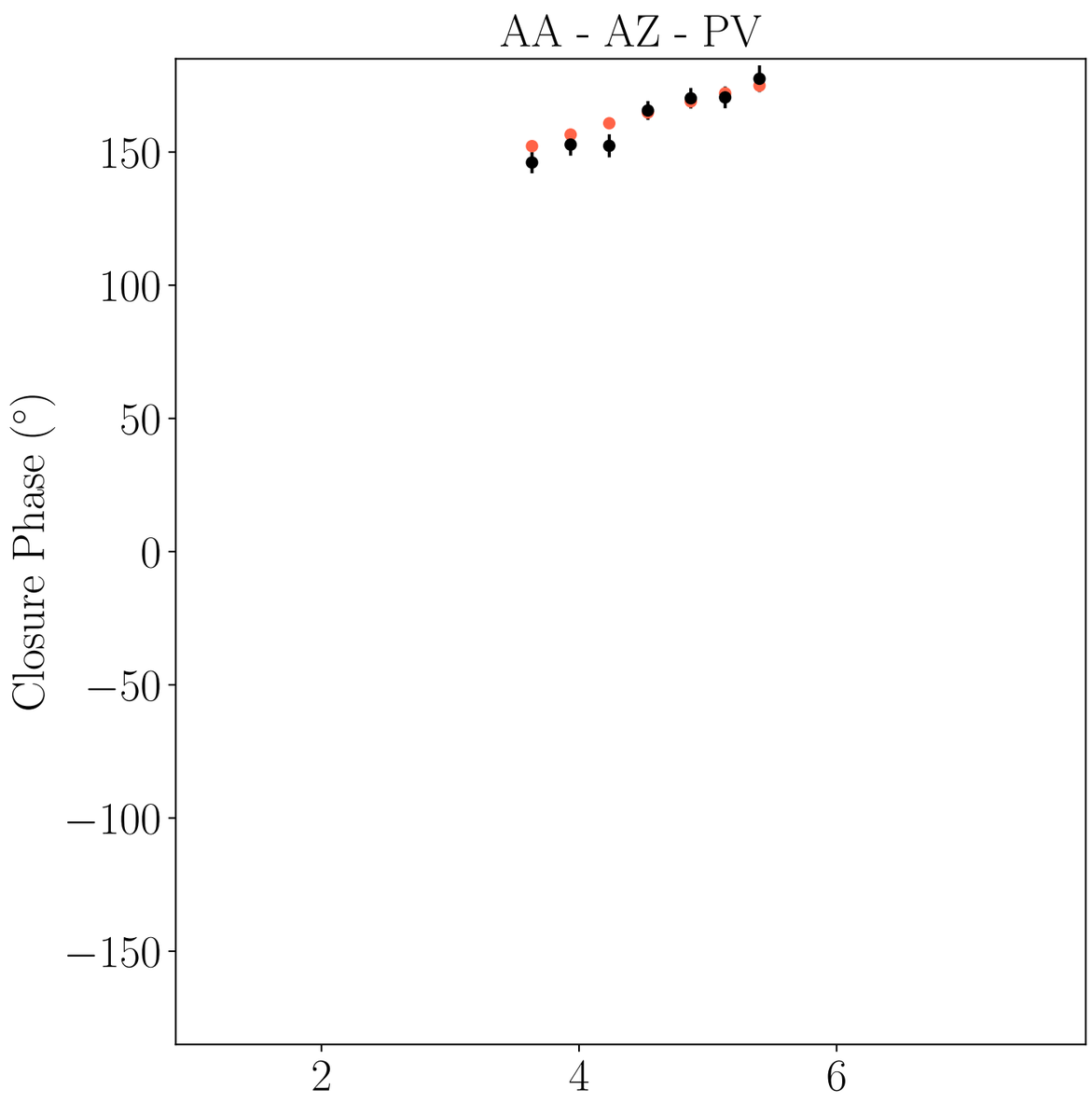


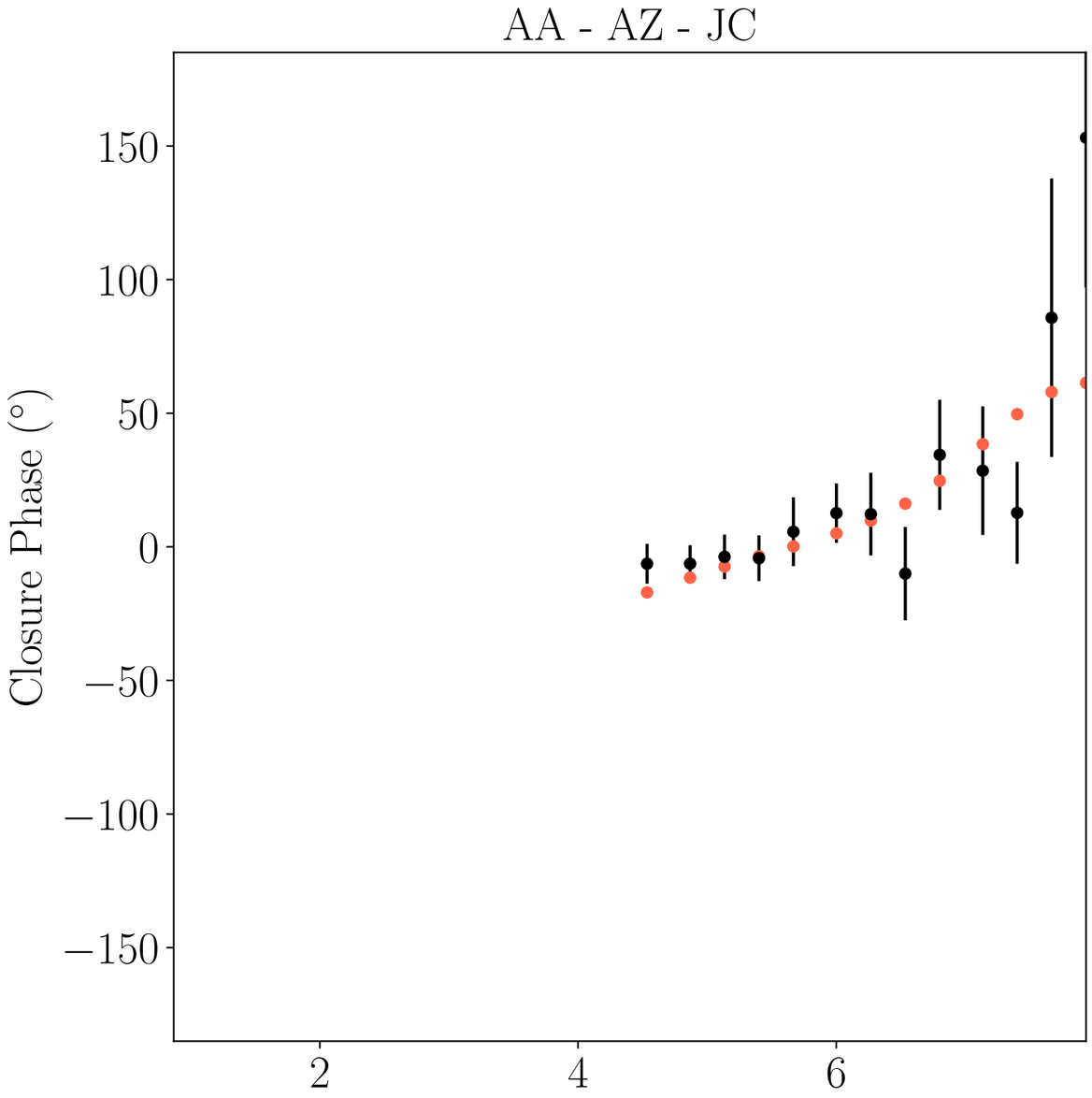
Closure Phase Plots

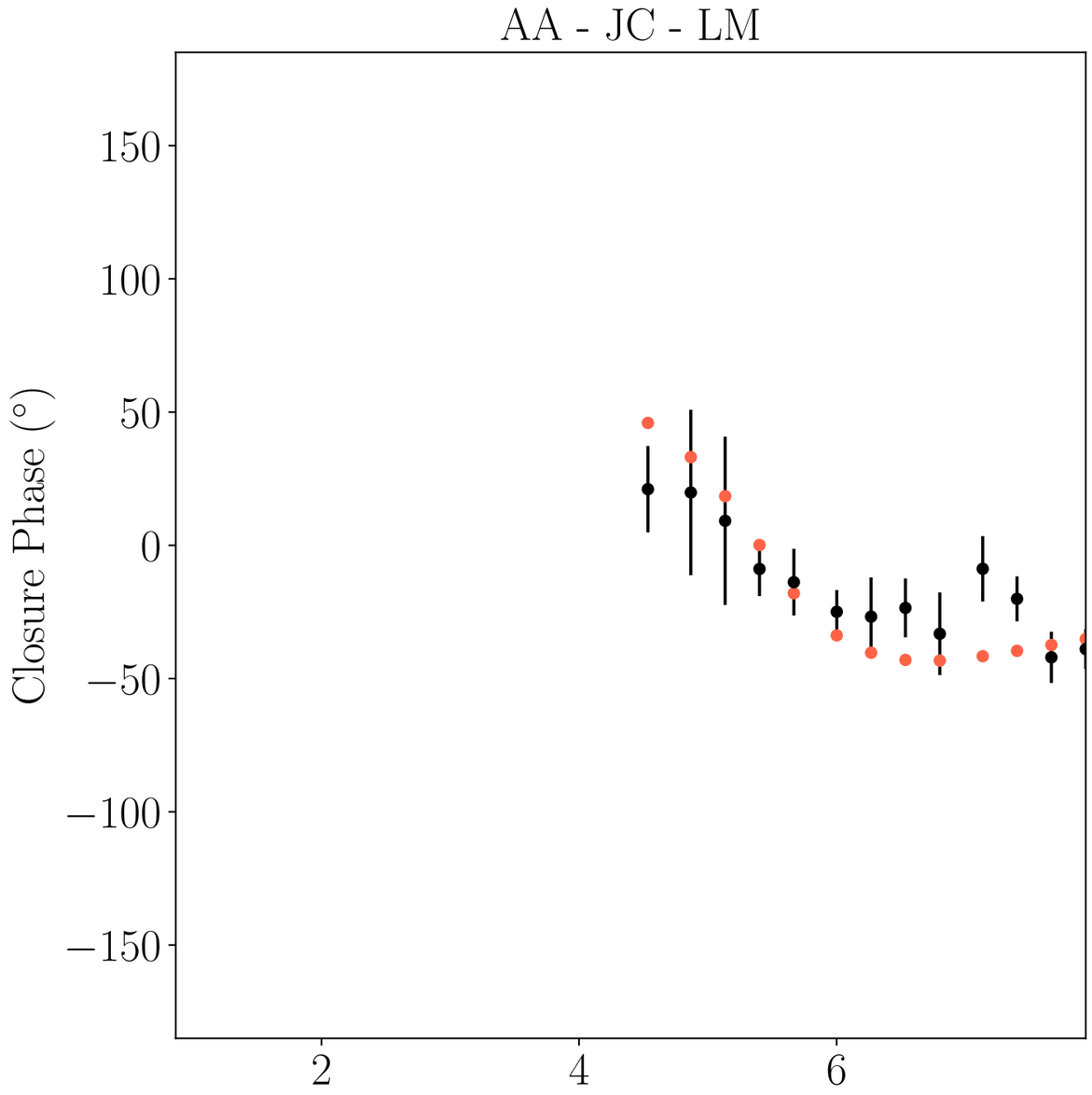












AA - JC - PV

AA - AZ - SM

AA - LM - SM

AA - PV - SM

Closure Phase (°)

150
100
50
0
−50
−100
−150

2
4
6

Closure Amplitude Plots

(AA - PV)(AP - LM)/(AA - LM)(PV - AP)

(AA - PV)(LM - AP)/(AA - AP)(PV - LM)

(AA - LM)(AP - AZ)/(AA - AZ)(LM - AP)

(AA - LM)(AZ - AP)/(AA - AP)(LM - AZ)

(AA - PV)(AP - AZ)/(AA - AZ)(PV - AP)

(AA - PV)(AZ - LM)/(AA - LM)(PV - AZ)

Log Closure Amplitude

10

5

0

−5

−10

2

4

6

(AA - JC)(AP - AZ)/(AA - AZ)(JC - AP)

(AA - JC)(AZ - AP)/(AA - AP)(JC - AZ)

(AA - LM)(AZ - JC)/(AA - JC)(LM - AZ)

(AA - LM)(JC - AP)/(AA - AP)(LM - JC)

(AA - PV)(AZ - JC)/(AA - JC)(PV - AZ)

(AA - PV)(JC - LM)/(AA - LM)(PV - JC)

Log Closure Amplitude

10
5
0
−5
−10

2
4
6

(AA - SM)(AP - AZ)/(AA - AZ)(SM - AP)

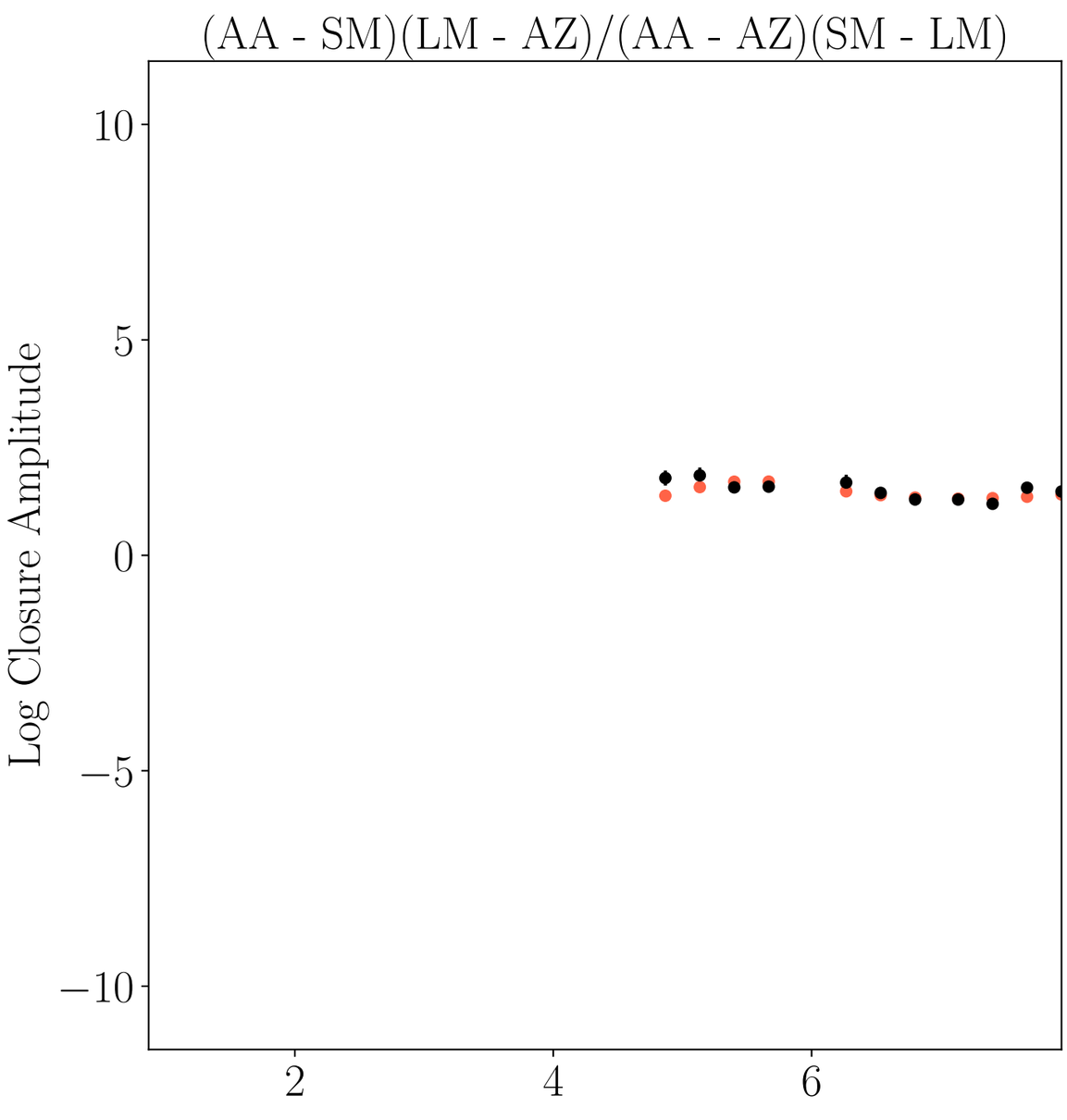
(AA - SM)(AZ - JC)/(AA - JC)(SM - AZ)

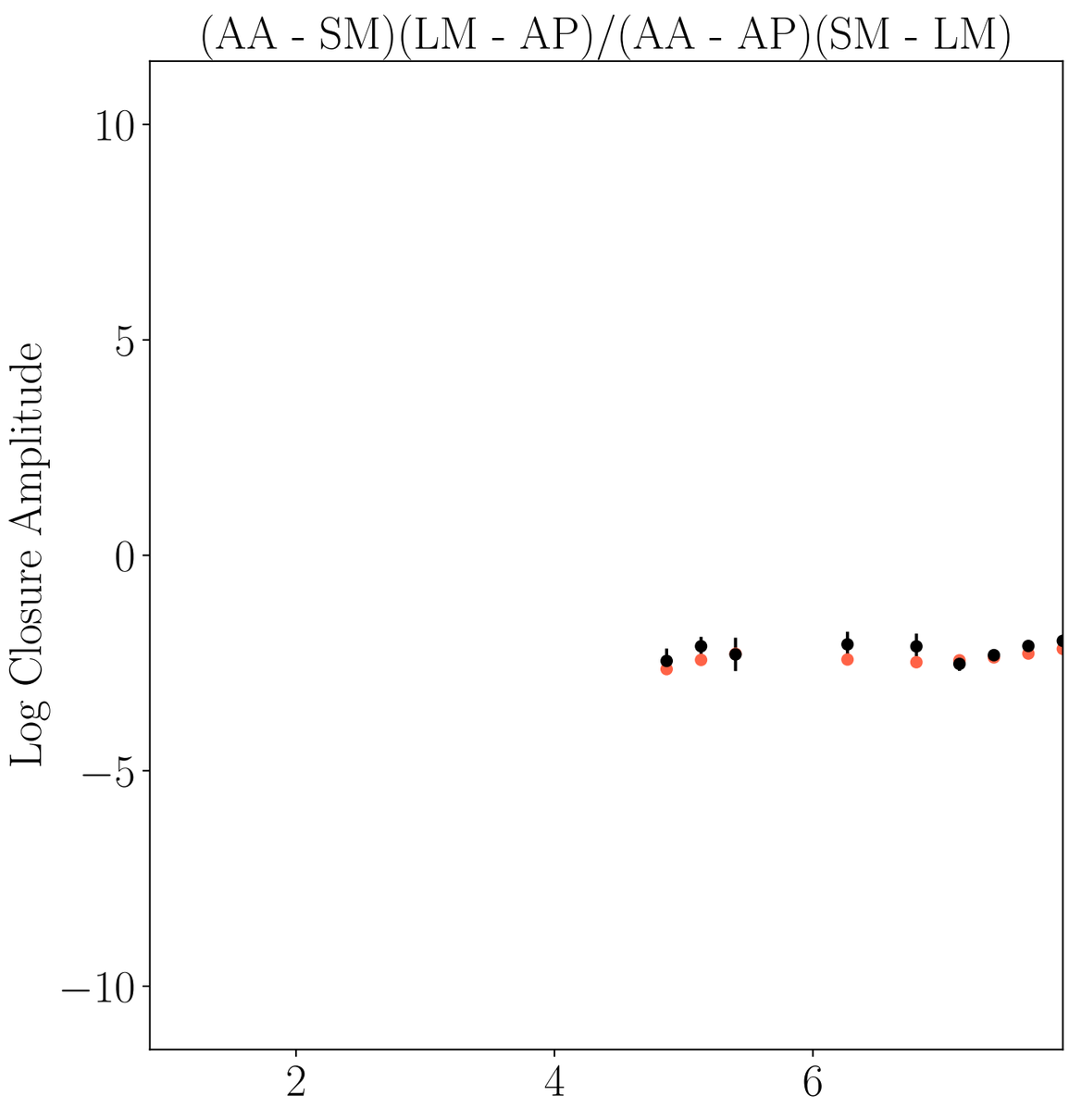
(AA - SM)(JC - LM)/(AA - LM)(SM - JC)

(AA - SM)(LM - PV)/(AA - PV)(SM - LM)

(AA - SM)(PV - AP)/(AA - AP)(SM - PV)

(AA - LM)(JC - AZ)/(AA - AZ)(LM - JC)


(AA - SM)(LM - AZ)/(AA - AZ)(SM - LM)
Log Closure Amplitude
10
5
0
−5
−10
2
4
6


(AA - SM)(LM - AP)/(AA - AP)(SM - LM)
Log Closure Amplitude
10
5
0
−5
−10
2
4
6