Summary Sheet for M87 on MJD 0

Submitted Image

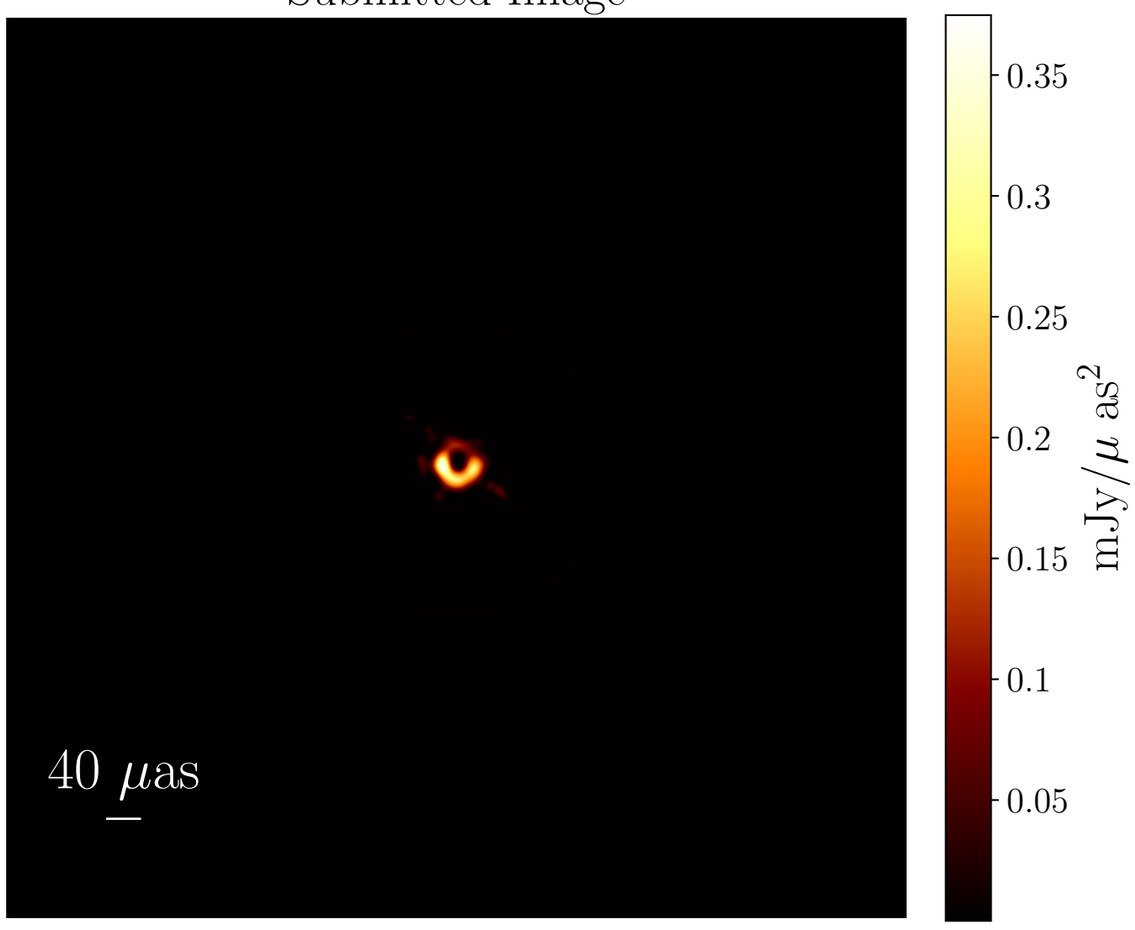


Image blurred to nominal resolution

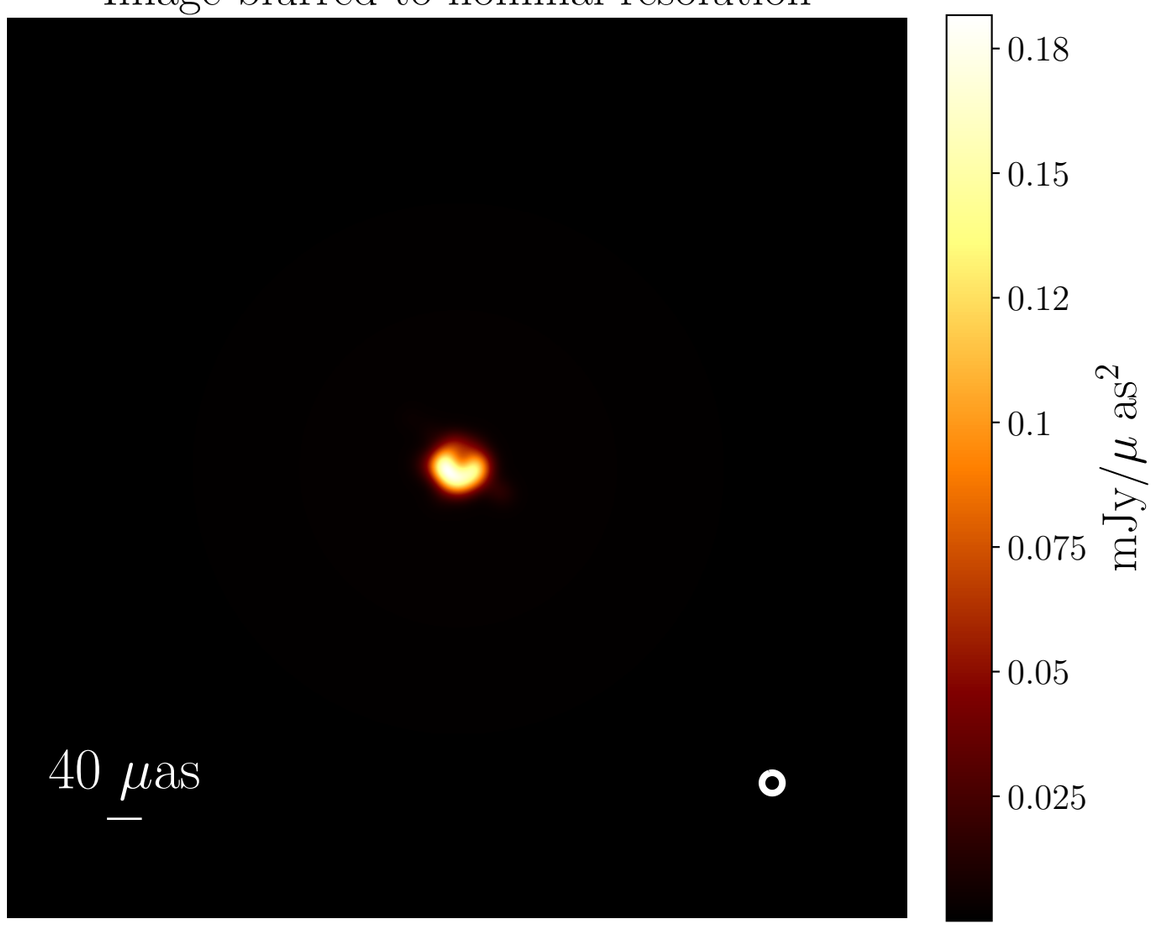


Image statistics

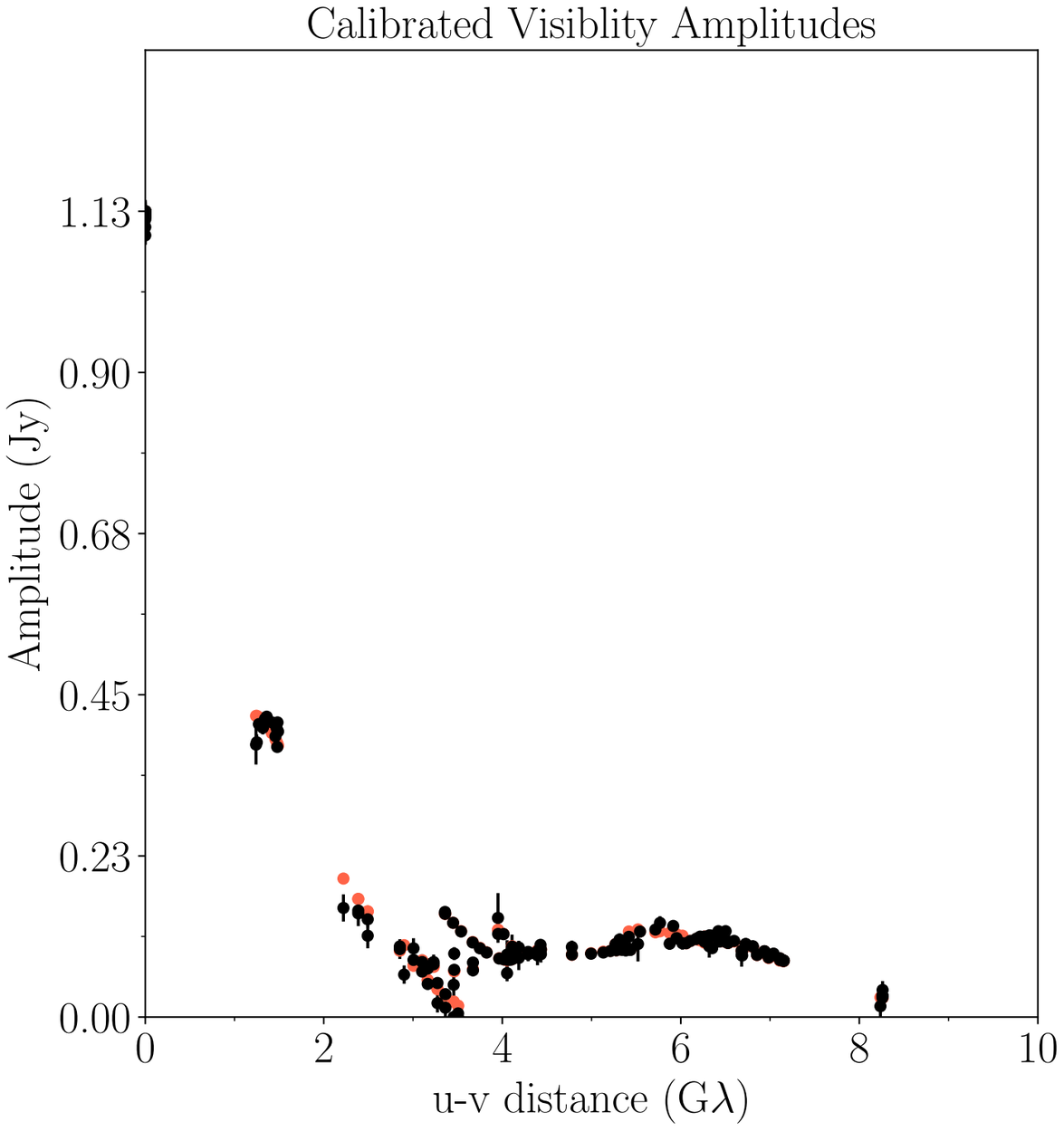
Source:	M87	χ^2_{vis}	1.30	(197040.77)
MJD:	0	χ^2_{amp}	1.25	(1369.16)
FREQ:	227 GHz	χ^2_{cphase}	1.08	(1.08)
FOV:	1104.0 μas	$\chi^2_{logcamp}$	1.37	(1.37)
FLUX:	1.13 Jy	χ^2_{camp}	1.48	(1.48)

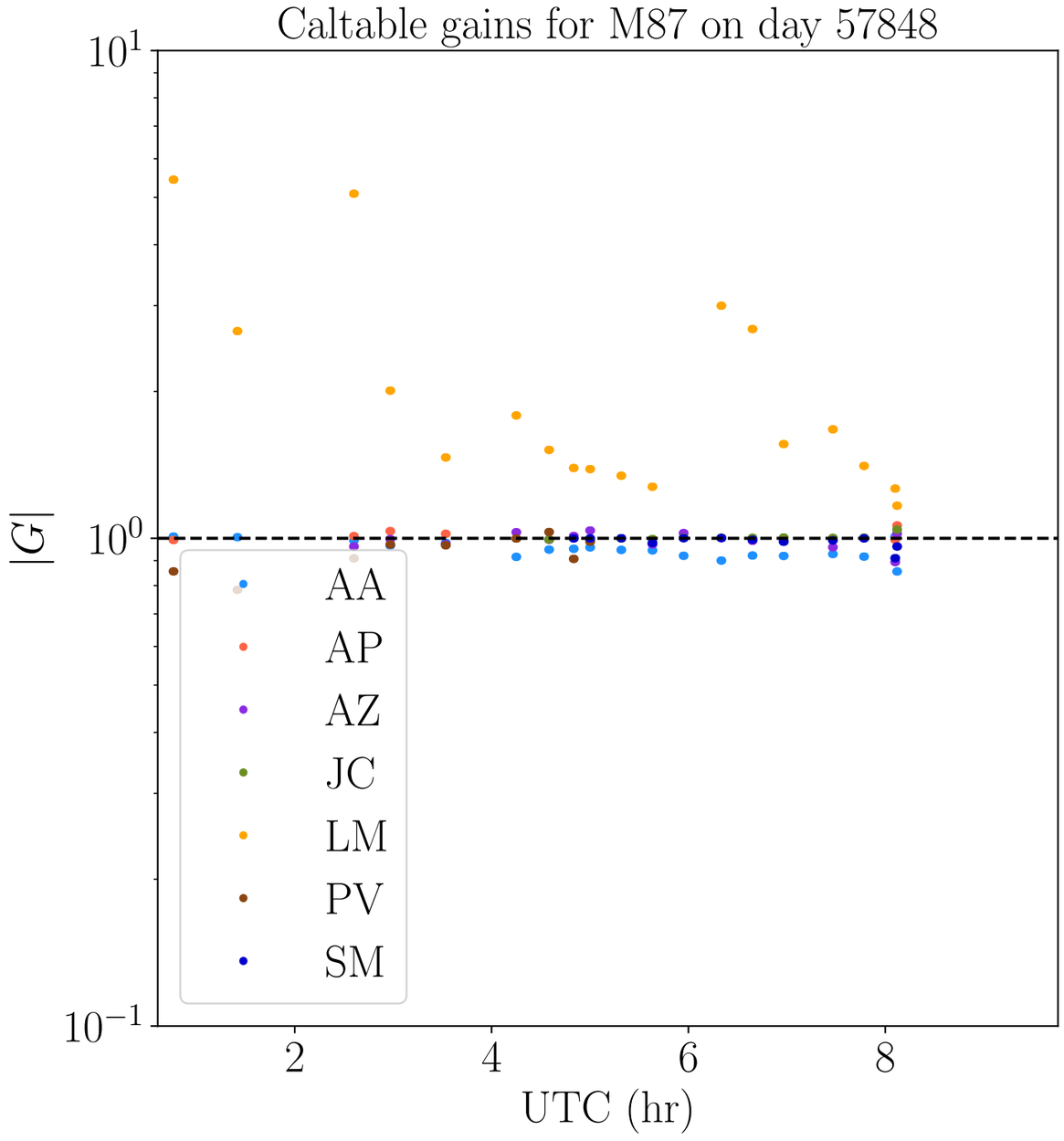
Closure phase statistics

Triangle	N_{tri}	χ^2_{tri}/N_{tri}	χ^2_{tri}/N_{tot}
AA-JC-LM	10	1.8	0.254
AA-LM-SM	10	1.2	0.167
AA-LM-PV	9	1.2	0.148
AA-AZ-LM	13	0.7	0.127
AA-JC-PV	3	2.9	0.123
AA-AZ-JC	9	0.9	0.115
AA-AZ-SM	9	0.5	0.067
AA-AZ-PV	7	0.6	0.062
AA-PV-SM	2	0.7	0.018

Log Closure amplitude statistics

Quadrangle	N_{quad}	χ^2_{quad}/N_{quad}	χ^2_{quad}/N_{tot}
AA-PV-LM-AZ	7	2.9	0.263
AA-PV-AZ-LM	7	2.6	0.231
AA-LM-AZ-JC	8	2.0	0.202
AA-SM-JC-AZ	8	1.9	0.199
AA-SM-JC-LM	9	1.3	0.154
AA-SM-LM-AZ	8	1.3	0.138
AA-LM-JC-AZ	8	1.3	0.131
AA-SM-LM-JC	9	1.1	0.125
AA-SM-AZ-JC	8	0.8	0.086
AA-LM-AZ-AP	4	1.7	0.085
AA-SM-AZ-LM	8	0.7	0.072
AA-PV-AZ-JC	3	1.7	0.066
AA-SM-LM-PV	2	2.2	0.057
AA-PV-AP-LM	4	1.1	0.054
AA-SM-AP-AZ	1	2.4	0.031
AA-PV-LM-AP	4	0.5	0.023
AA-PV-AP-AZ	3	0.5	0.021
AA-PV-JC-LM	3	0.5	0.019
AA-LM-AP-AZ	4	0.3	0.016
AA-SM-PV-AZ	2	0.4	0.010
AA-SM-LM-AP	1	0.0	0.001





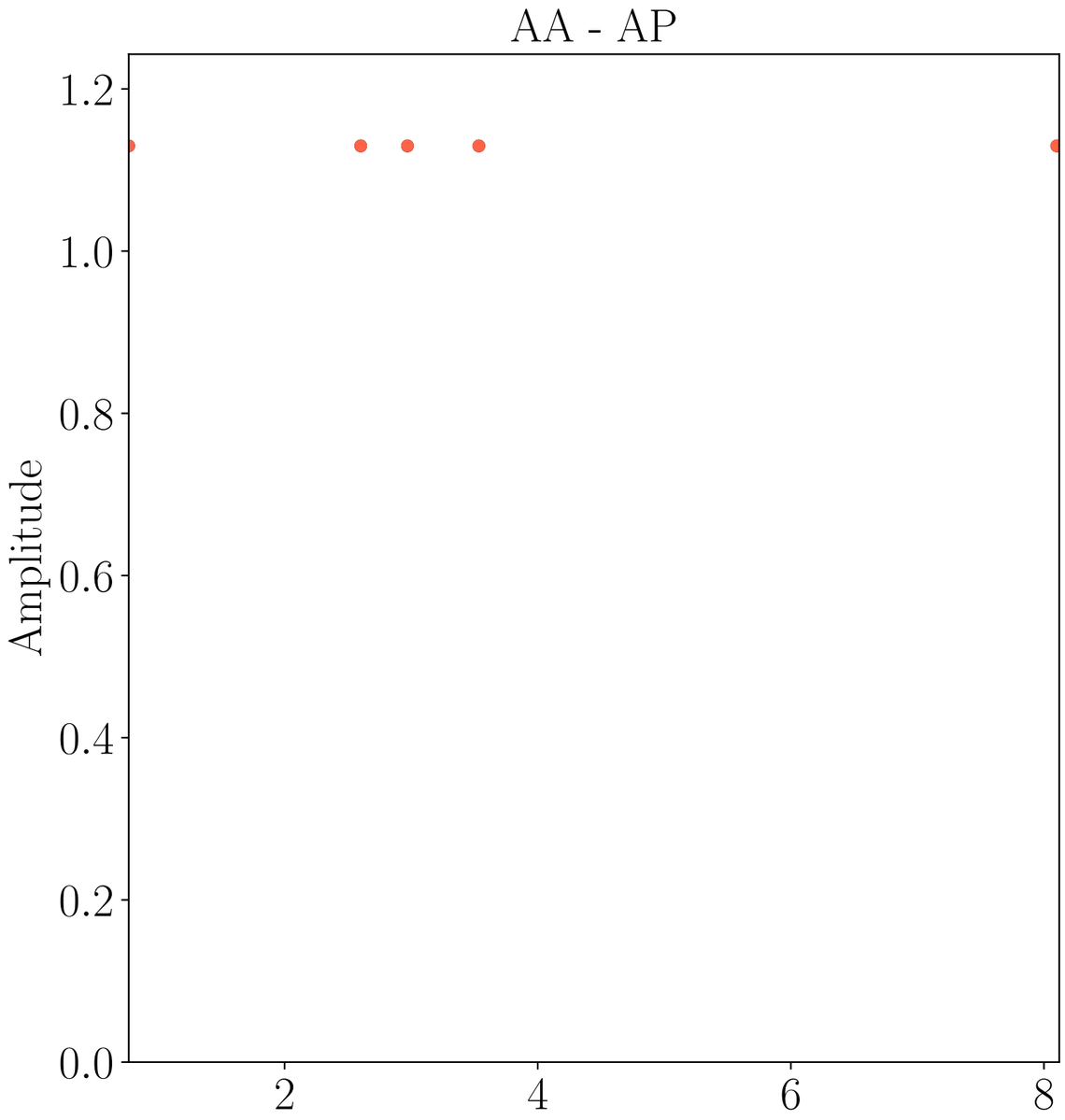
Visibility amplitude statistics

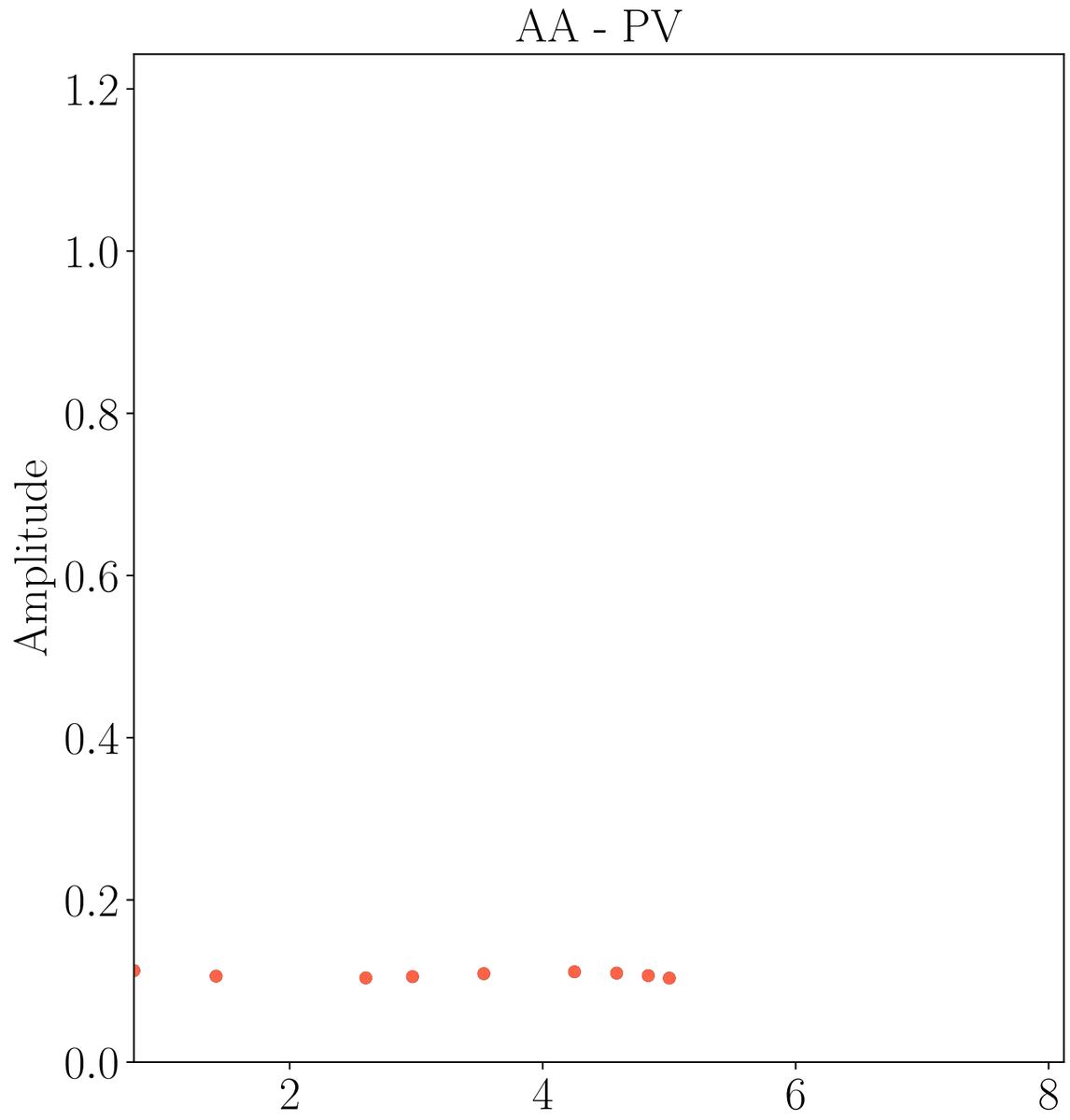
Baseline	N_{amp}	χ^2_{amp}/N_{amp}	χ^2_{amp}/N_{total}
AZ-LM	13	4.0	0.311
AZ-JC	10	2.1	0.123
JC-LM	11	1.7	0.114
AA-JC	12	1.5	0.106
AP-PV	4	3.5	0.083
LM-SM	10	1.4	0.083
AZ-SM	9	1.5	0.081
JC-SM	11	1.2	0.076
LM-PV	9	1.2	0.064
AZ-PV	7	1.4	0.059
AA-AZ	14	0.5	0.041
AA-LM	17	0.4	0.039
AA-SM	11	0.5	0.032
AP-AZ	4	0.6	0.014
JC-PV	3	0.5	0.009
AP-SM	1	0.9	0.005
AP-LM	5	0.1	0.003
AA-PV	9	0.0	0.002
AP-JC	1	0.1	0.001
PV-SM	2	0.0	0.001
AA-AP	5	0.0	0.000

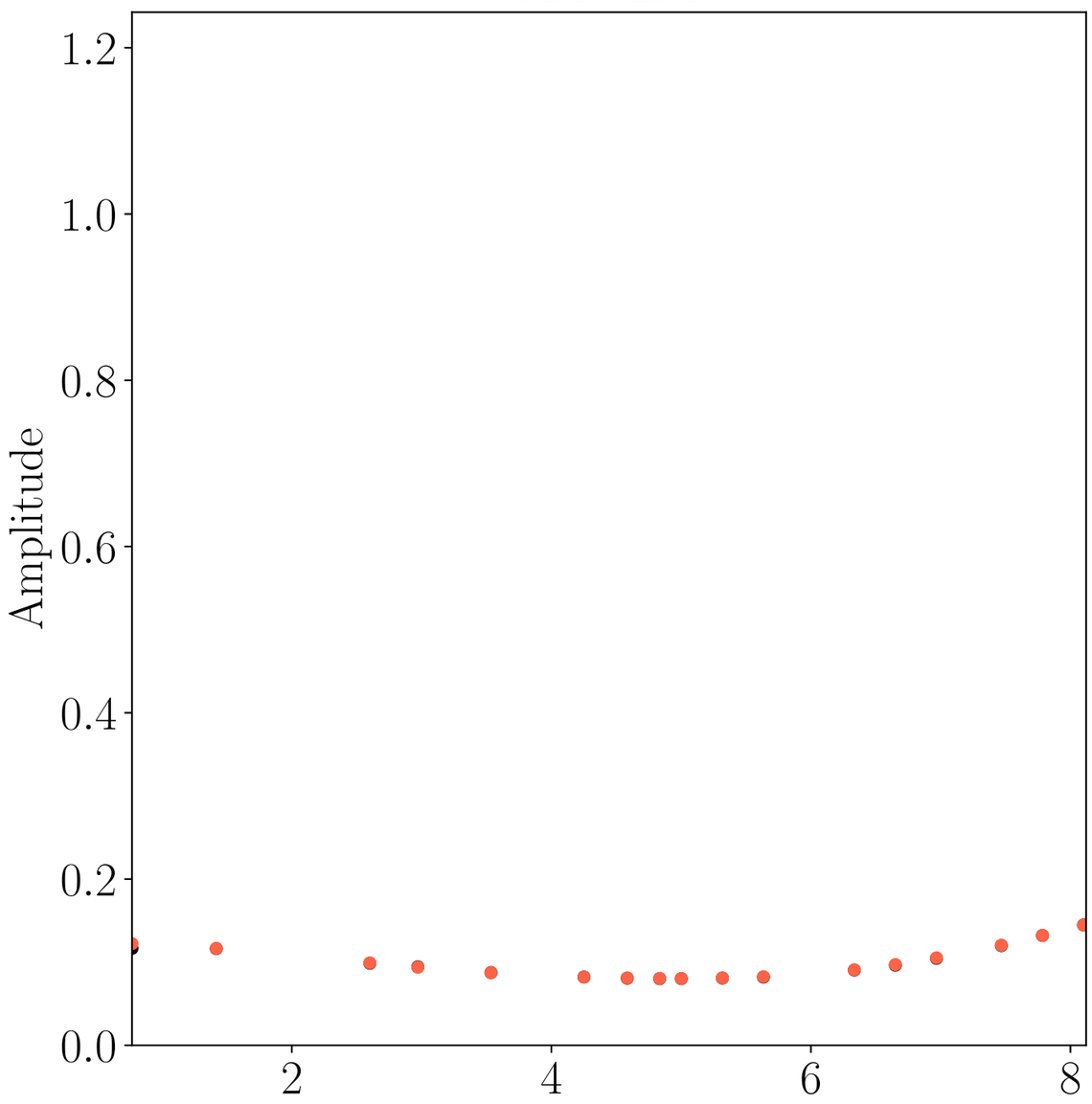
Station gain statistics

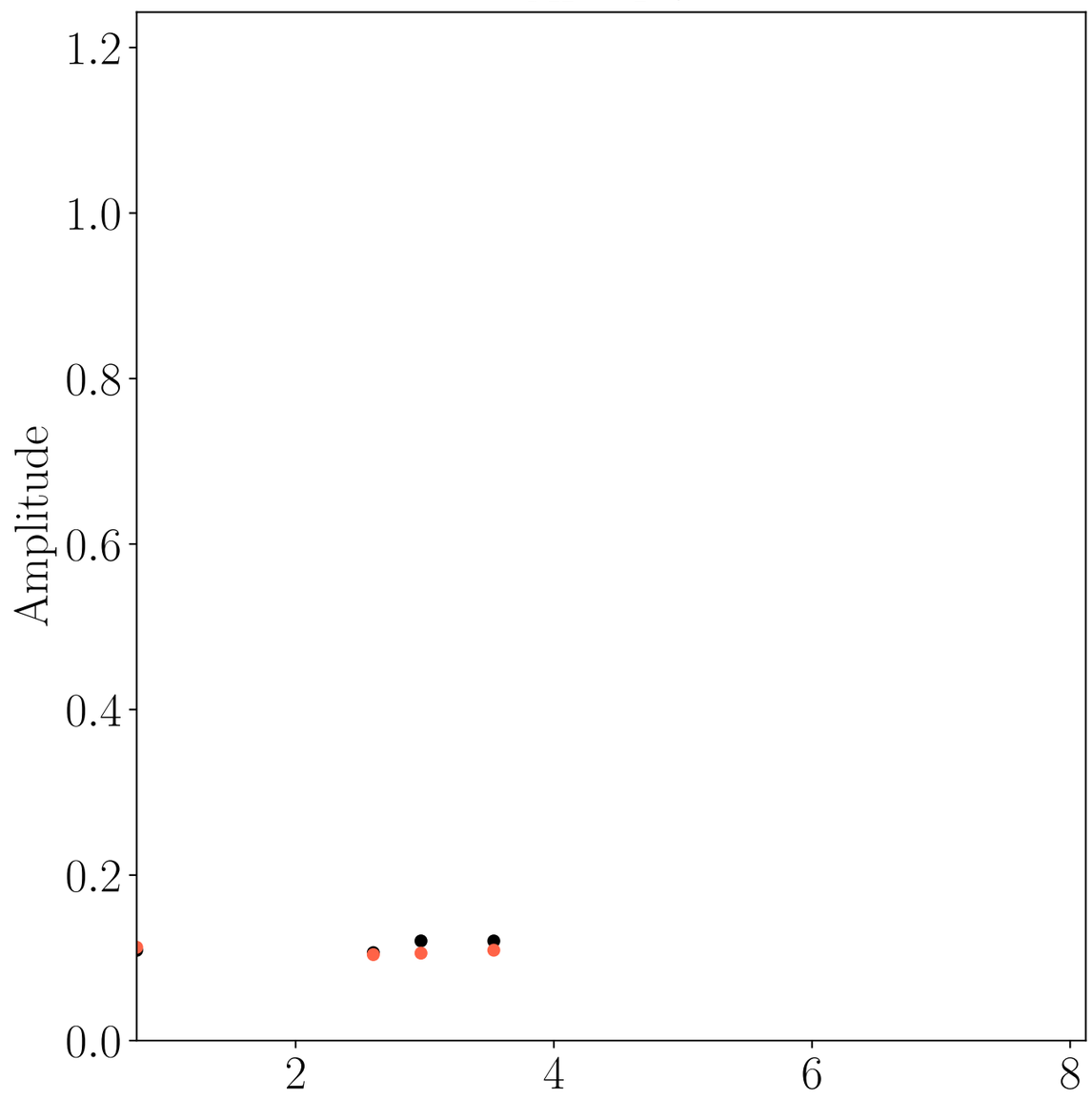
Site	Median Gain	Percent diff.
LM	1.54	54
AA	0.95	5
PV	0.97	3
AP	1.02	2
AZ	0.99	1
SM	1.00	0
JC	1.00	0

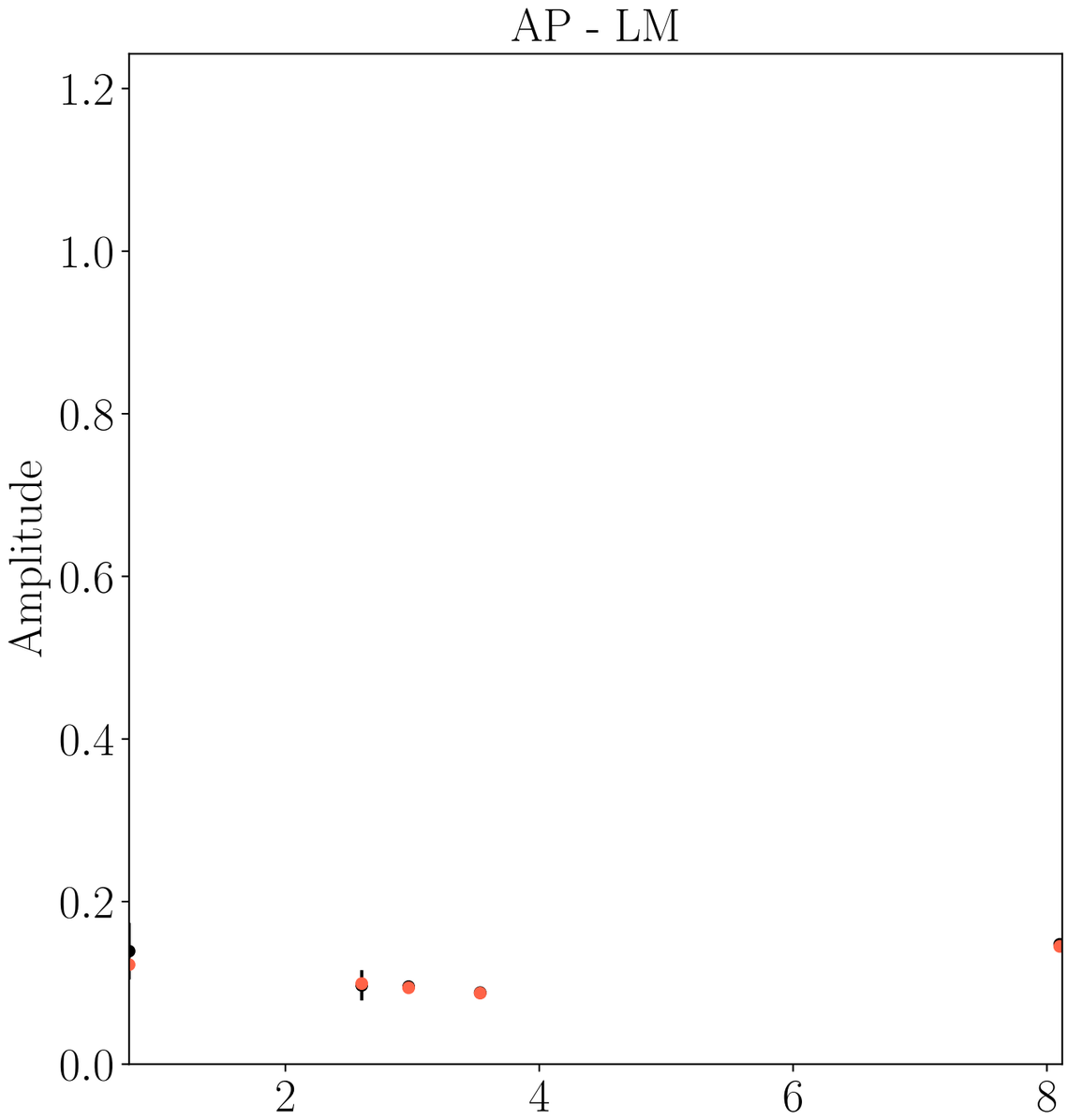
Amplitude Plots

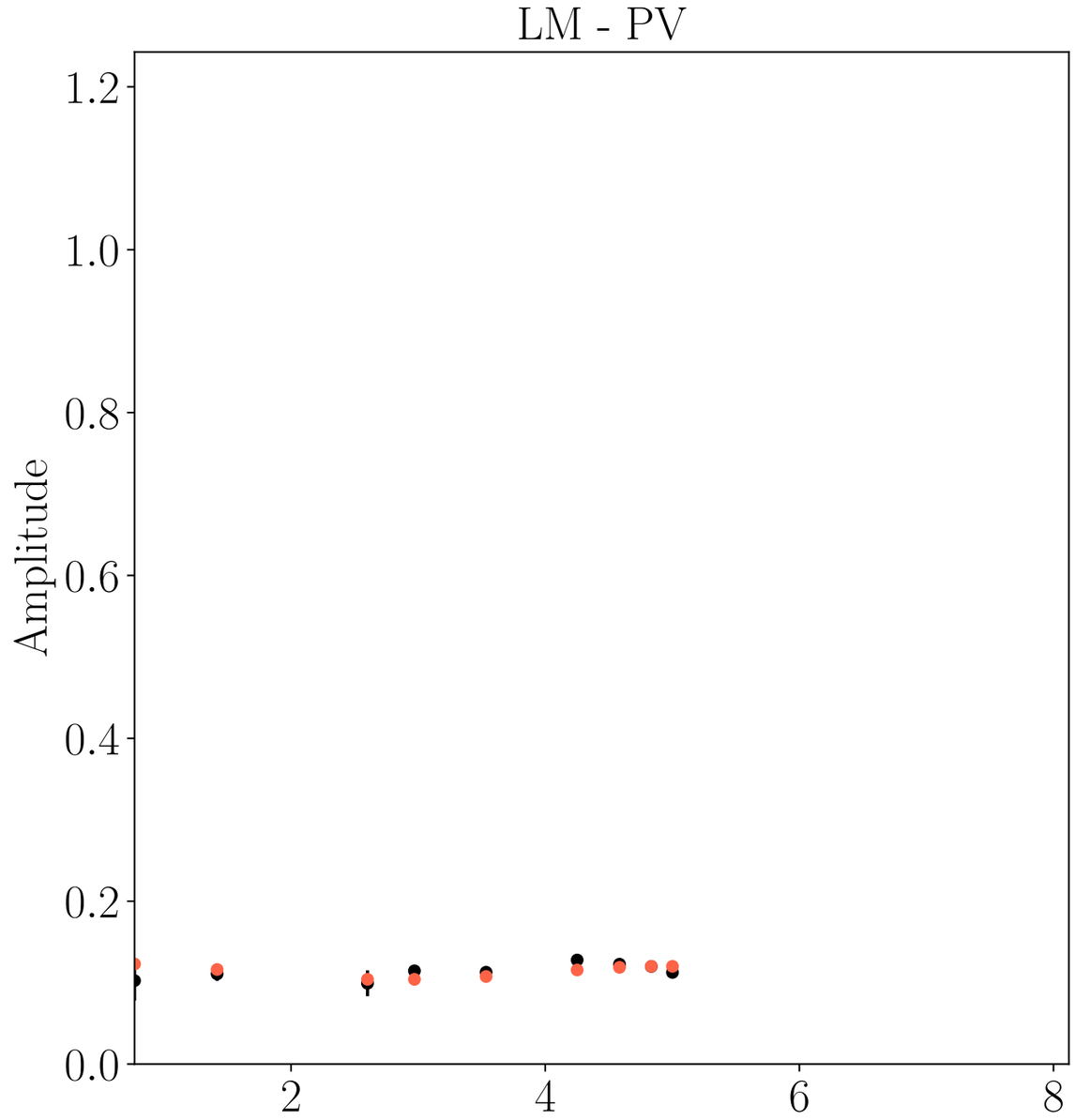












AA - AZ

AP - AZ

AZ - PV

AZ - LM

AA - JC

AZ - JC

Amplitude

JC - LM

JC - PV

AA - SM

AZ - SM

JC - SM

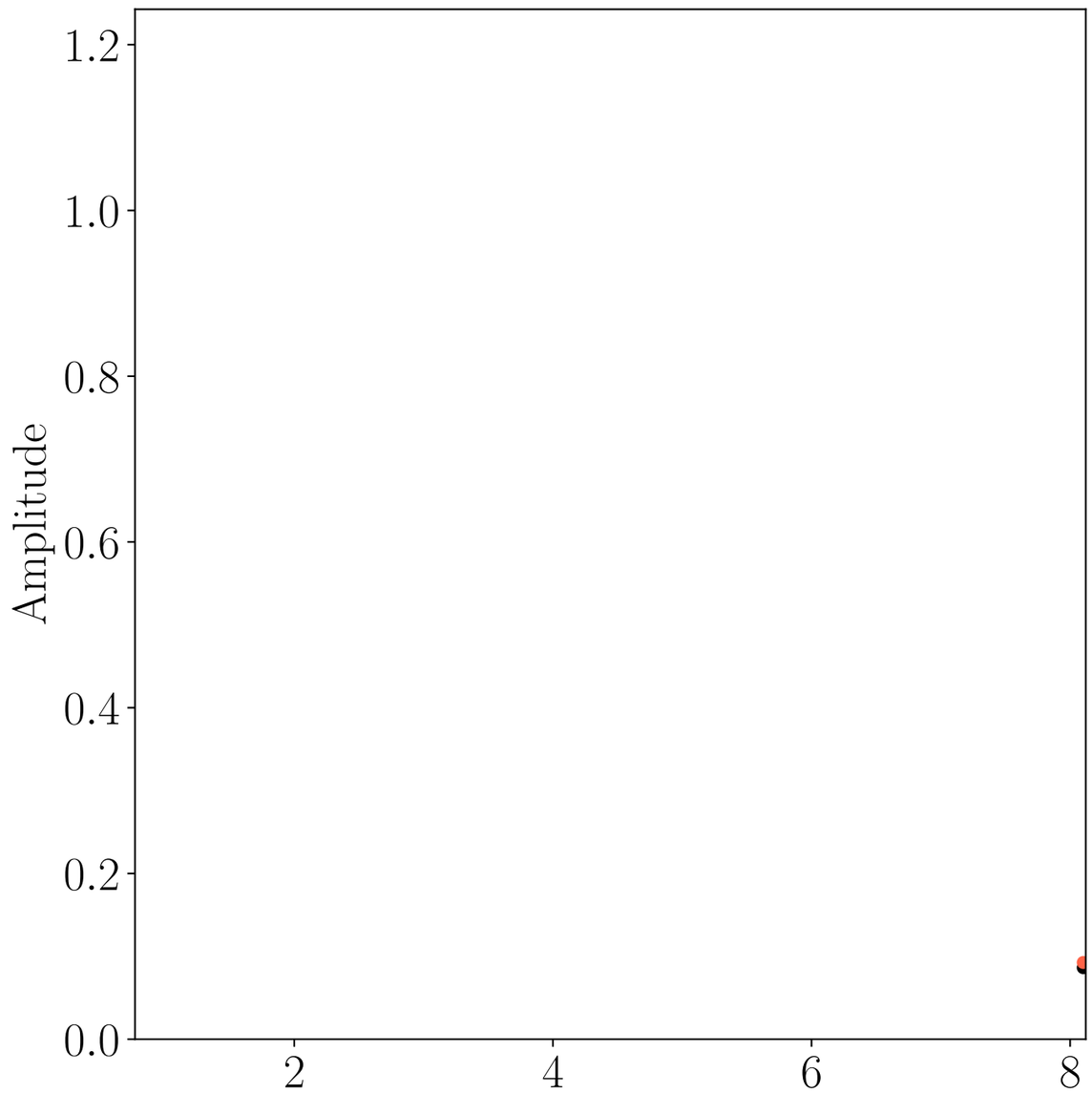
LM - SM

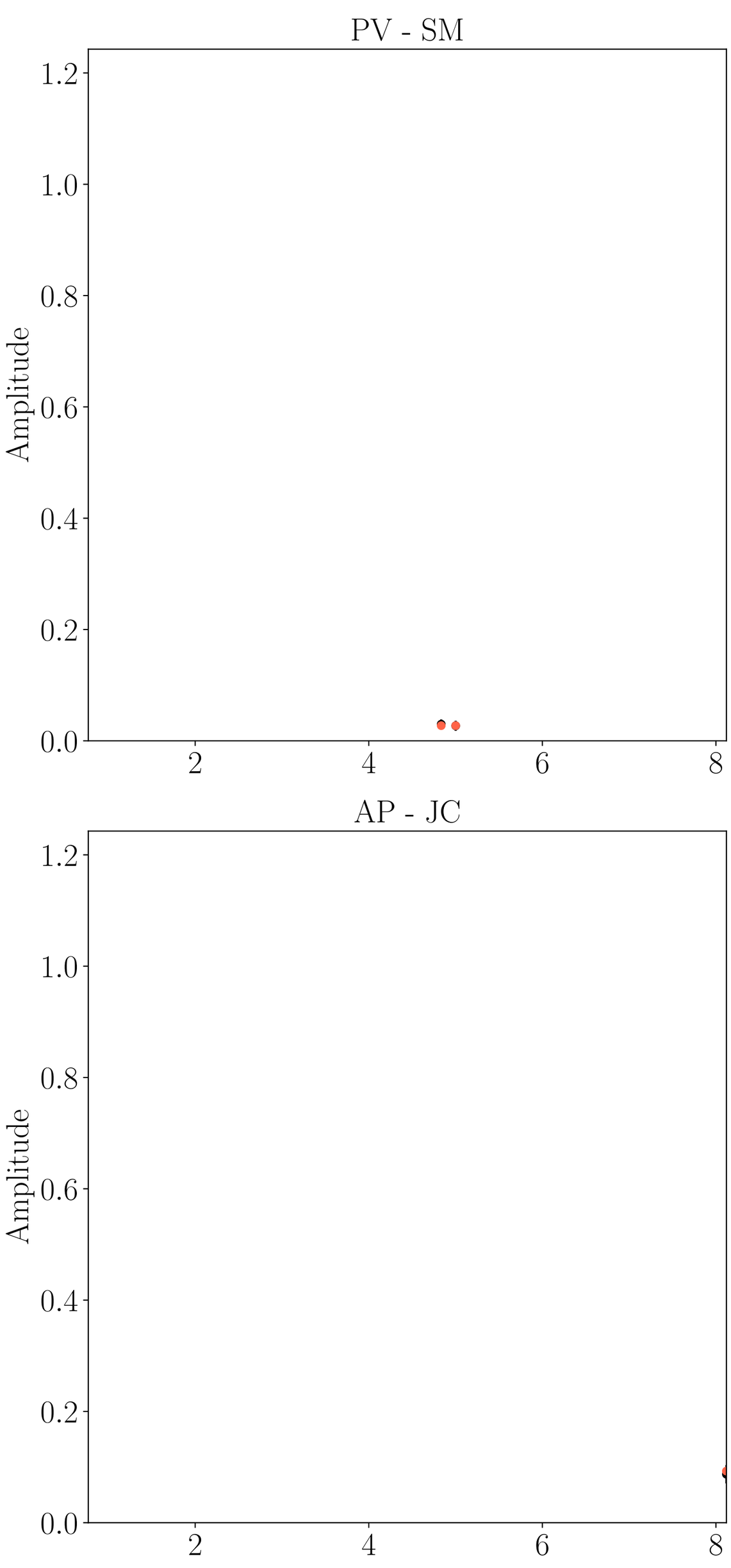
Amplitude

0.0 0.2 0.4 0.6 0.8 1.0 1.2

2 4 6 8

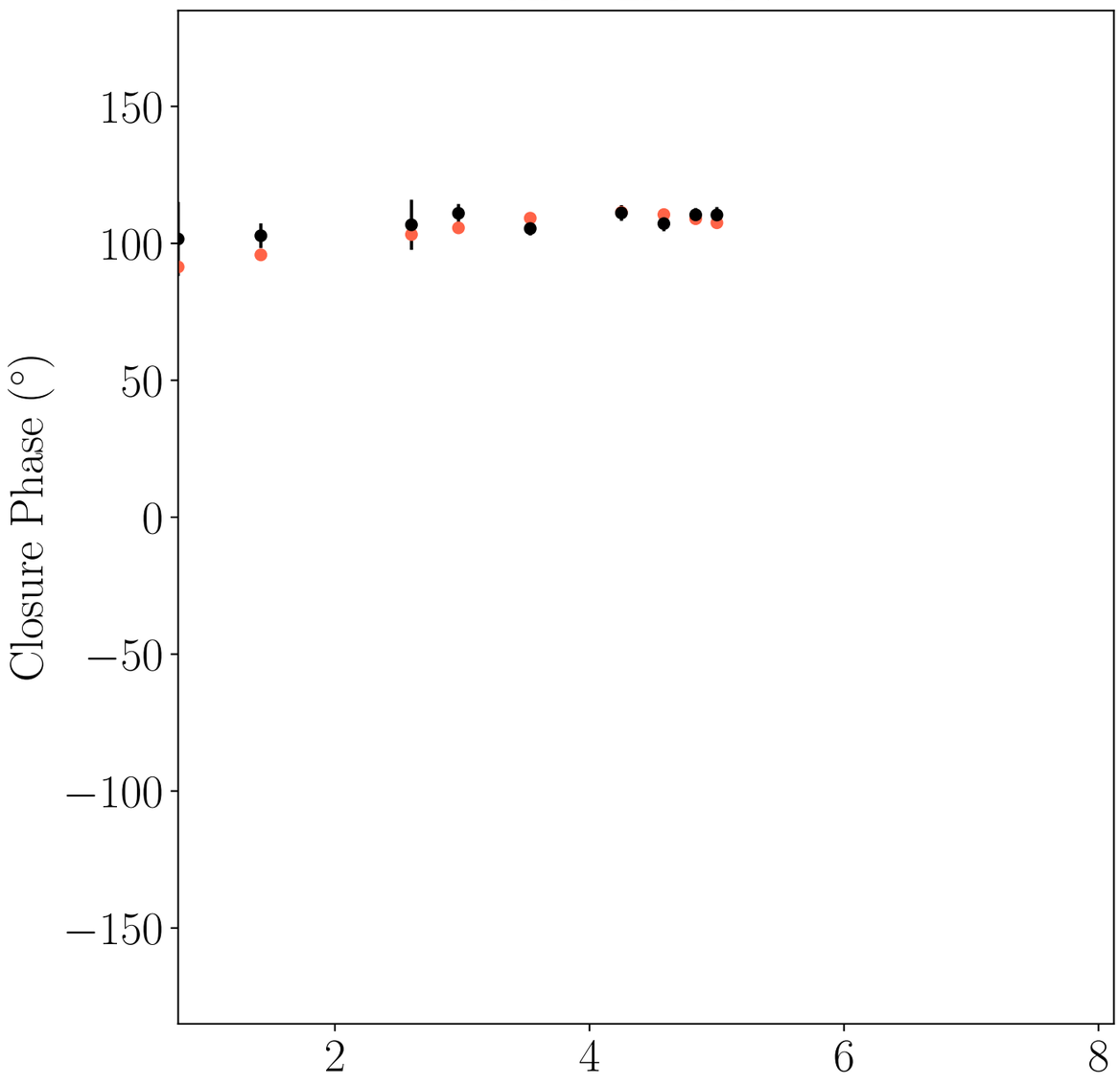
PV - SM
Amplitude
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2
4
6
8


AP - SM
Amplitude
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2
4
6
8

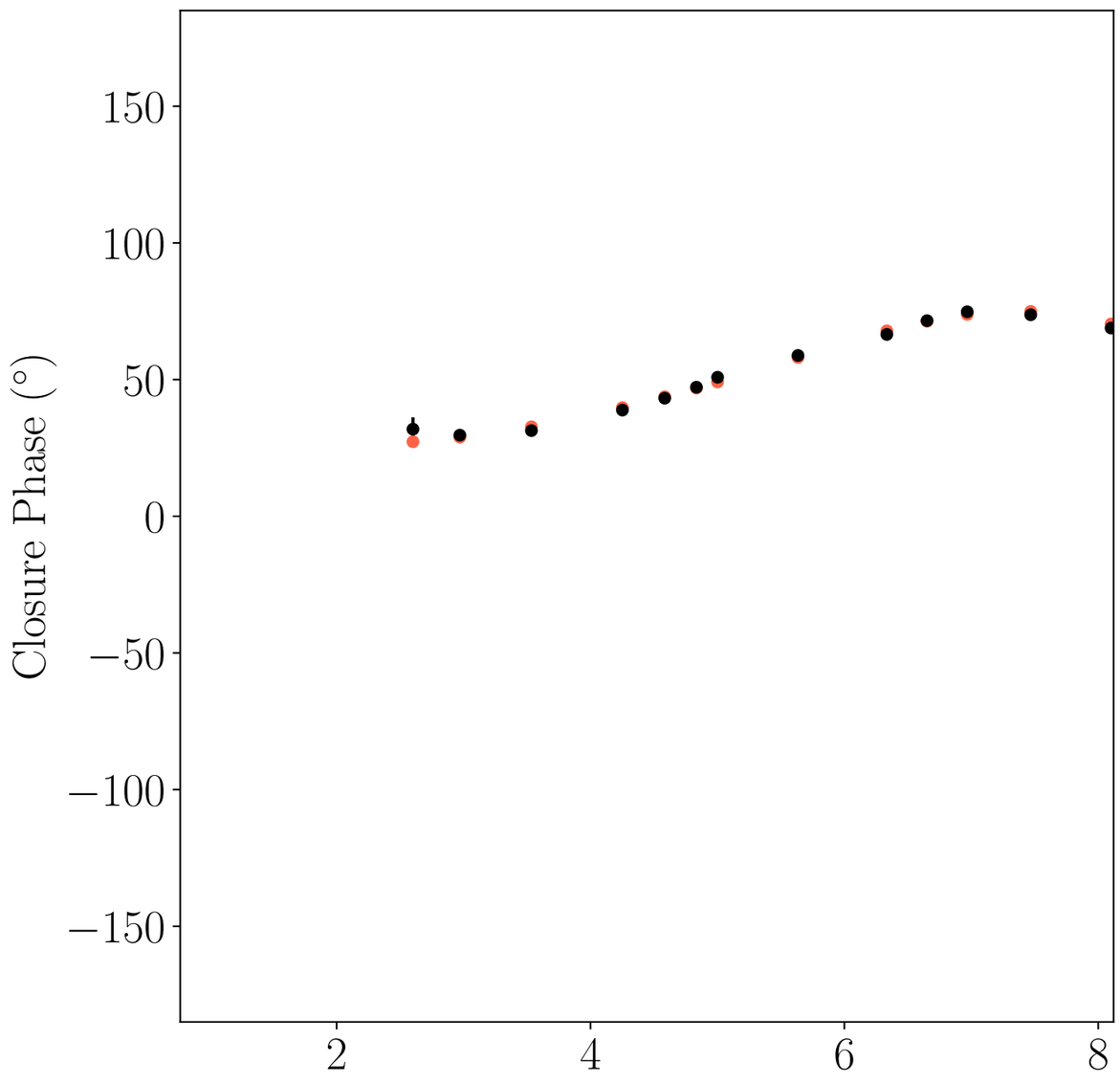

AP - JC
Amplitude
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2
4
6
8

Closure Phase Plots

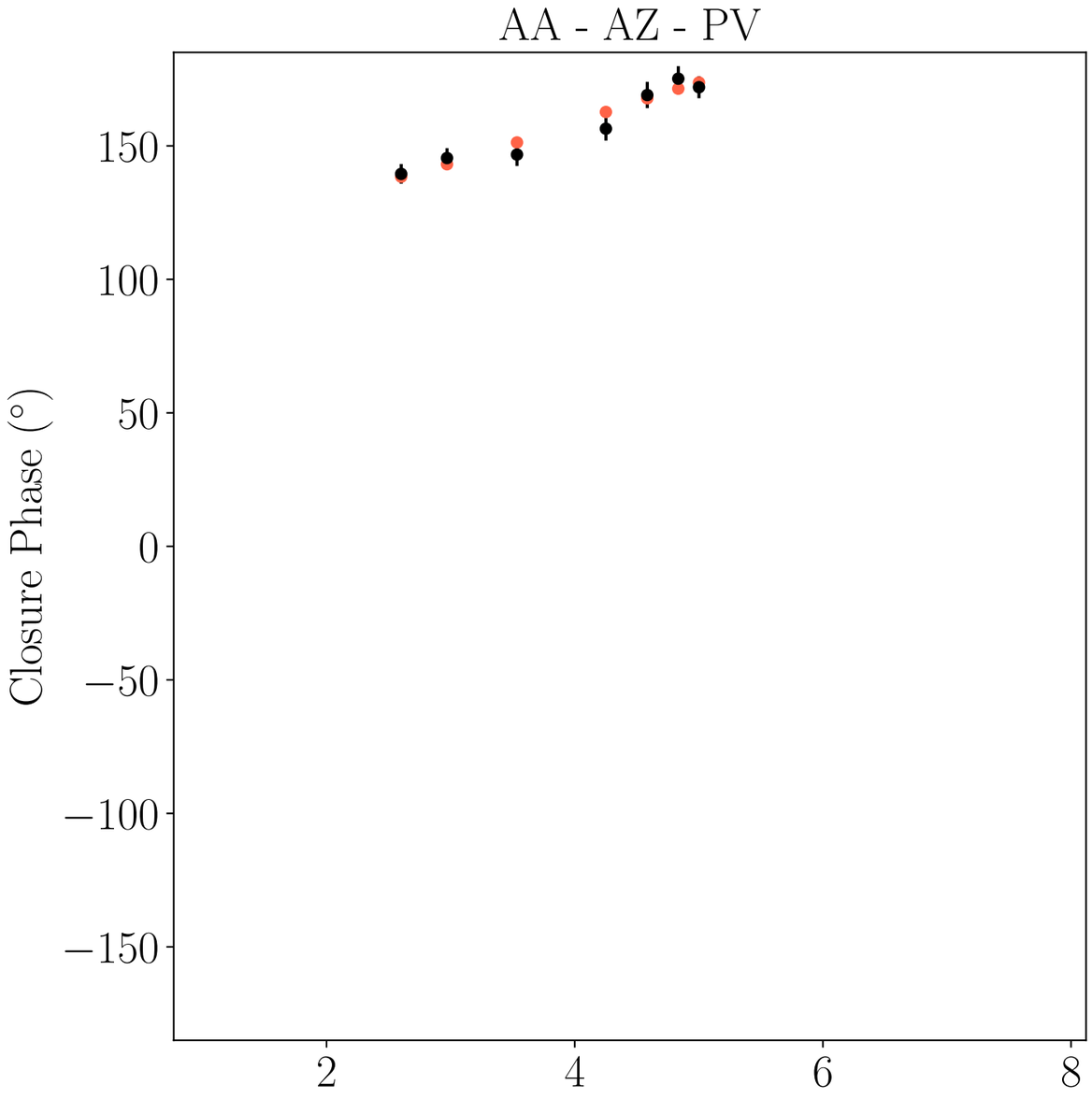
AA - LM - PV



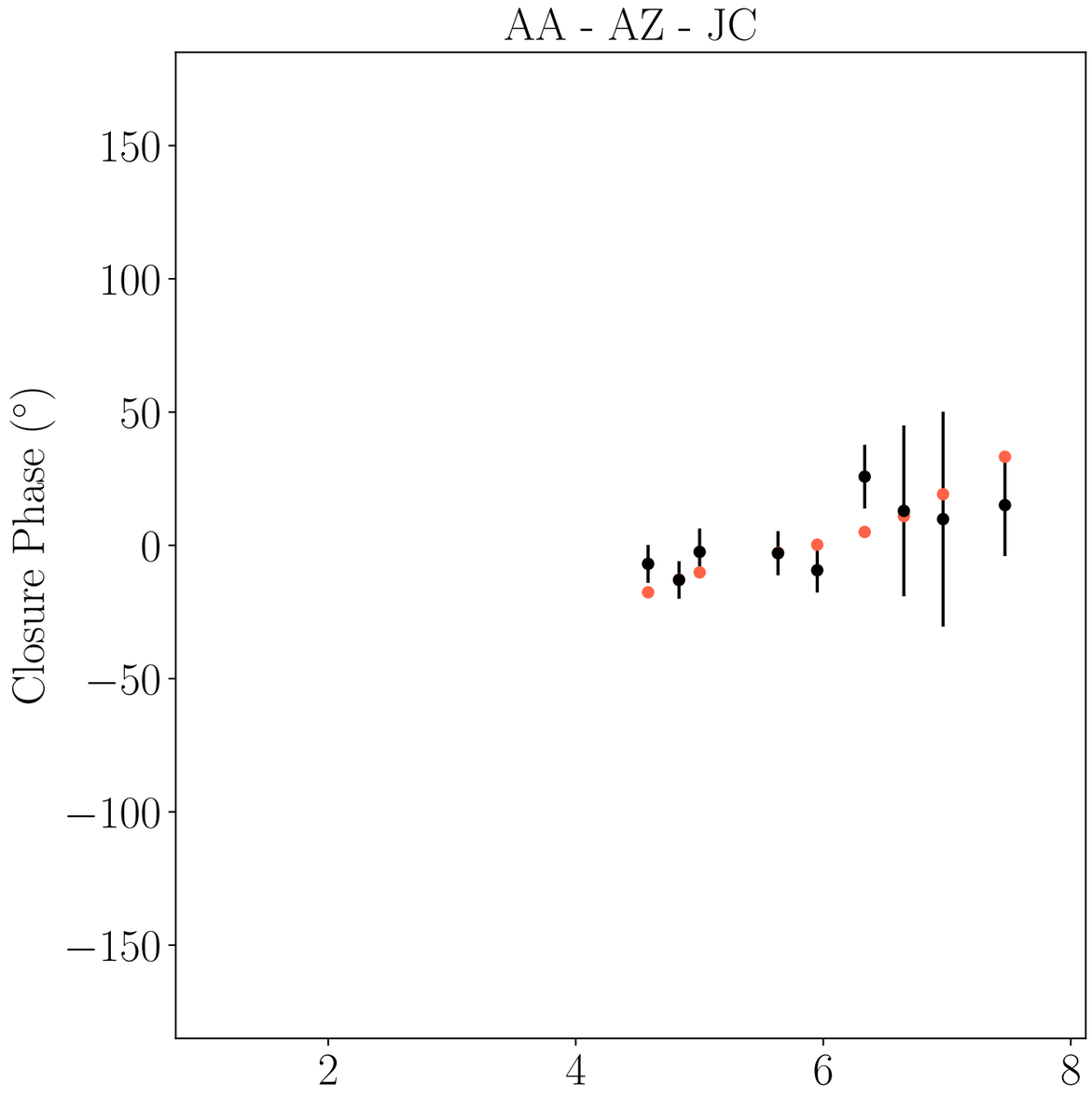
AA - AZ - LM



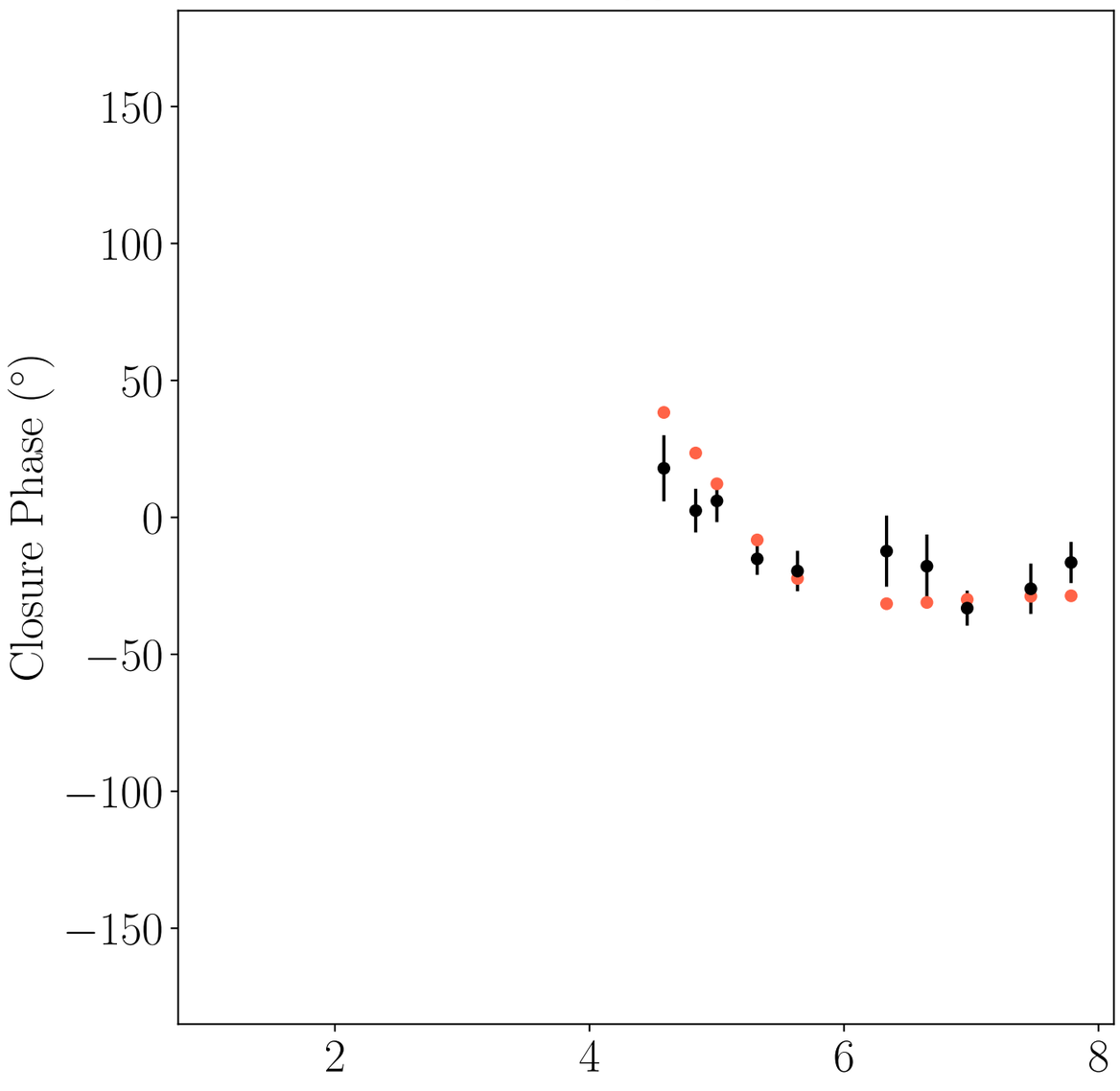
AA - AZ - PV



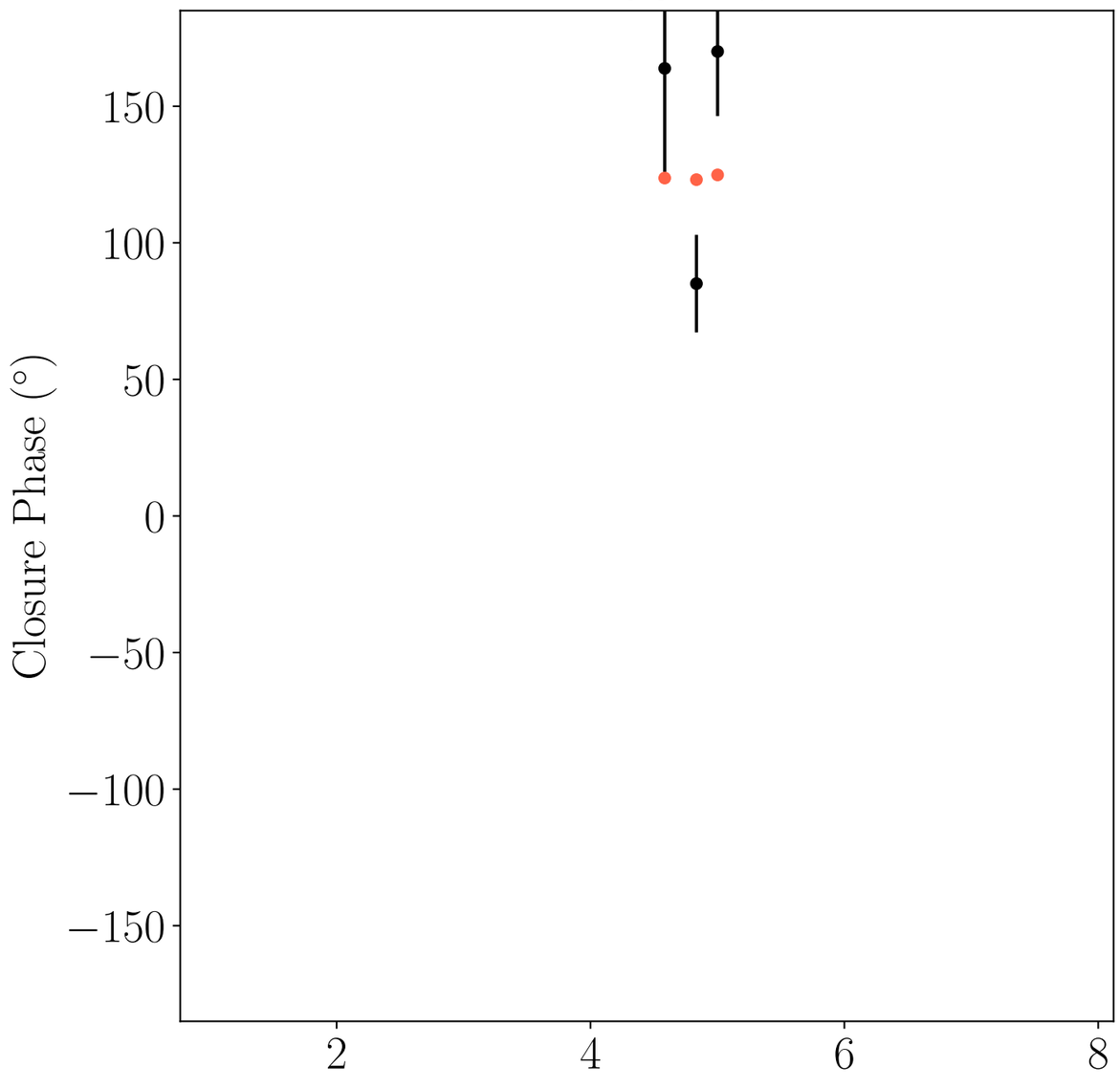
AA - AZ - JC



AA - JC - LM



AA - JC - PV



AA - AZ - SM

AA - LM - SM

AA - PV - SM

Closure Phase (°)

150
100
50
0
−50
−100
−150

2
4
6
8

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)

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

Log Closure Amplitude

6
4
2
0
−2
−4
−6

2
4
6
8

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

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

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

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

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

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

Log Closure Amplitude

6
4
2
0
−2
−4
−6

2
4
6
8

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

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

(AA - SM)(PV - AZ)/(AA - AZ)(SM - PV)

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

(AA - SM)(LM - AZ)/(AA - AZ)(SM - LM)

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

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

Log Closure Amplitude

6
4
2
0
−2
−4
−6

2
4
6
8

(AA - SM)(AZ - LM)/(AA - LM)(SM - AZ)

Log Closure Amplitude

6
4
2
0
−2
−4
−6

2
4
6
8

(AA - SM)(LM - AP)/(AA - AP)(SM - LM)

Log Closure Amplitude

6
4
2
0
−2
−4
−6

2
4
6
8