

Plot of Hitomi Attitude Accuracy (STT ON/OFF)

Ver. 3.5 16/09/20

- Image position
 - stability
 - variation (1-sigma) of median 50 percentile (python “media_grouped”) at every 300 sec (crab 60sec) exposure
 - criteria: photon Number > 50 at each exposure (IGR_J and RXJ : photon Number >15)
 - accuracy
 - image center determined by fitting with 2-dimensional Lorentz fitting at total exposure
 - offset from simbad center to above center
- data : DET (non ATT corrected) and SKY (ATT corrected)
 - plotted at (SAT-X) and -(SAT-Y) coordinate
- 4 pattern
 - 1: STT-ALL (STT-ON/OFF)
 - 2: STT-QV (STT_1_QVALID == 1 or STT_2_QVALID==1)
 - 3: STT-CTL (See document “jaxa_hitomi_memo_2016-001.pdf”)
 - 4: STT-OFF (STT_1_QVALID == 0 and STT_2_QVALID==0)
- Comparison of 2 data/attitude file
 - 1st (8/1) release data and ATT (current ATT)
 - 2nd (9/E) release data and ATT (new ATT)

position error at each exposure

	Exp	Stderr
Perseus	300s	~0.5”
N132D	300s	~0.7”
IGR_J	300s	~5”
RXJ	300s	~3”
G21.5	300s	~1”
RXJ	300s	~3”
Crab	60s	~0.7”

Summary

Curre : Current ATT (8/1)

Stability: median

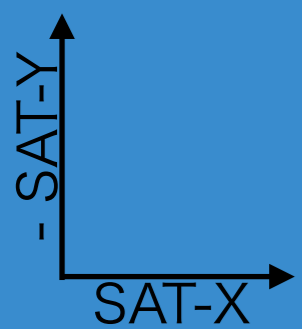
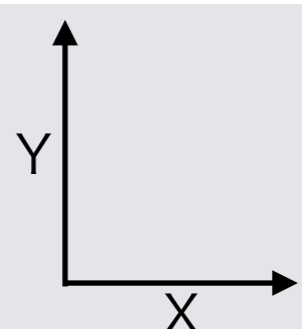
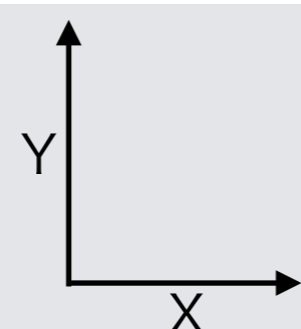



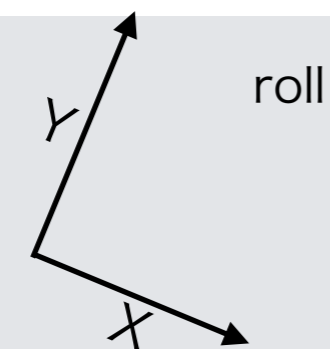
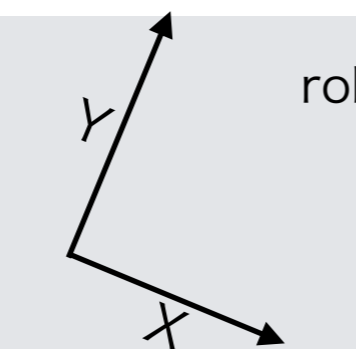
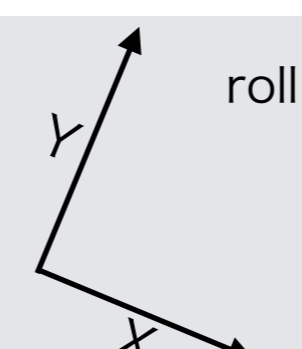
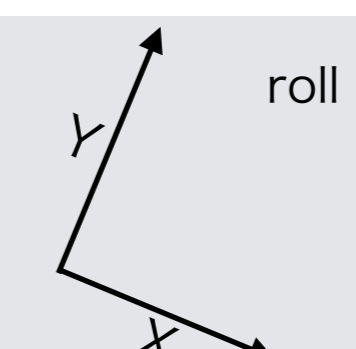
New : New ATT (9/E)

Accuracy: 2d-lorentz

Target	Seq ID	Stability								Accuracy (simbad)							
		Curre STT-ALL	Curre STT-QV	Curre STT-CTL	Curre STT-OFF	New STT-ALL	New STT-QV	New STT-CTL	New STT-OFF	Curre STT-ALL	Curre STT-QV	Curre STT-CTL	Curre STT-OFF	New STT-ALL	New STT-QV	New STT-CTL	New STT-OFF
Perseus_core	100040010	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Perseus_core_adjustment	100040020	7.9"	6.1"	4.9"	8.8"	7.1"	6.2"	5.0"	10.3"	5.8"	9.3"	12.6"	14.4"	2.9"	3.4"	6.9"	10.8"
Perseus	100040030	10.3"	7.7"	5.6"	7.6"	9.6"	7.7"	5.6"	12.7"	7.5"	8.5"	11.6"	20.3"	6.7"	4.9"	5.9"	14.4"
	100040040	11.3"	9.7"	6.1"	8.8"	10.0"	9.3"	5.9"	12.1"	9.1"	8.8"	12.3"	21.5"	7.7"	5.8"	6.4"	14.5"
	100040050	11.3"	8.6"	7.1"	8.7"	12.7"	8.9"	7.4"	7.1"	10.2"	12.0"	19.4"	11.5"	13.4"	6.8"	12.6"	23.6"
Perseus_adjustment	100040060	8.8"	7.0"	5.3"	8.1"	8.3"	8.3"	5.6"	11.0"	25.7"	24.8"	24.9"	31.4"	17.1"	17.1"	16.4"	21.9"
N132D (SXI)	100041010	23.6"	23.8"	2.0"	△	23.6"	23.9"	1.9"	△	23.9"	23.8"	23.4"	△	6.1"	5.7"	3.1"	△
	100041020	8.0"	7.8"	7.7"	7.4"	7.6"	7.7"	7.5"	4.3"	21.7"	21.8"	22.1"	20.8"	3.1"	3.4"	3.4"	3.3"
IGR_J16318-4848 (SXI)	100042010	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	100042020	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	100042030	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	100042040	8.5"	8.0"	7.3"	8.6"	8.4"	8.1"	7.4"	7.9"	8.2"	7.7"	7.9"	15.2"	4.9"	5.5"	5.4"	6.4"
RXJ1856.5-3754 (SXI)	100043010	7.1"	7.4"	8.0"	6.6"	6.7"	7.5"	8.0"	5.5"	22.4"	40.0"	35.4"	11.8"	16.9"	30.6"	20.8"	10.1"
	100043020																
	100043030																
	100043040																
G21.5-0.9	100050010	6.5"	5.9"	4.9"	10.2"	5.8"	5.5"	4.9"	7.5"	9.8"	9.5"	8.9"	10.7"	9.1"	9.3"	9.1"	7.5"
	100050020	7.4"	6.3"	4.9"	11.0"	6.0"	5.8"	4.8"	7.7"	10.8"	10.1"	9.0"	14.9"	9.8"	9.7"	9.1"	11.4"
	100050030	6.9"	4.9"	4.8"	12.3"	5.2"	5.0"	5.0"	6.2"	9.8"	9.3"	9.1"	17.0"	9.2"	9.3"	9.2"	11.0"
	100050040	6.4"	5.9"	5.0"	8.7"	5.8"	5.6"	4.9"	7.2"	9.9"	9.4"	8.9"	13.5"	9.6"	9.6"	9.3"	11.0"
	100050050	3.5"	6.1"	2.5"	△	4.0"	3.2"	3.3"	△	10.1"	10.2"	6.7"	16.1"	11.4"	13.3"	13.9"	31.4"
RXJ1856.5-3754 (SXI)	100043050	9.1"	9.3"	9.2"	7.0"	9.3"	9.4"	9.3"	6.9"	19.0"	18.6"	18.4"	17.1"	18.8"	17.8"	18.0"	17.3"
	100043060	8.6"	8.8"	9.3"	6.1"	8.7"	8.7"	9.3"	5.9"	19.7"	19.2"	18.8"	21.1"	19.6"	19.0"	18.7"	22.0"
Crab	100044010	7.9"	3.3"	3.1"	6.5"	3.9"	3.1"	2.9"	4.2"	6.4"	4.4"	4.4"	20.6"	5.1"	3.4"	4.5"	9.1"

△ : short exposure because of STT-OFF

DET/SKY coordinates

	SXS	SXI	HXI1	HXI2	memo
NAME center look-up	DET 3.5, 3.5 29.982"/pix	DET 747.8, 748.6 1.768"/pix	DET 128.5, 128.5 4.297"/pix	DET 128.5, 128.5 4.297"/pix	DET ATT non-corrected
			 22.5 deg	 22.5 deg	
Name center look-up	SKY 1215.5, 1215.5 1.768"/pix	SKY 1215.5, 1215.5 1.768"/pix	SKY 1215.5, 1215.5 1.768"/pix	SKY 1215.5, 1215.5 1.768"/pix	SKY ATT corrected
	 roll	 roll	 roll	 roll	

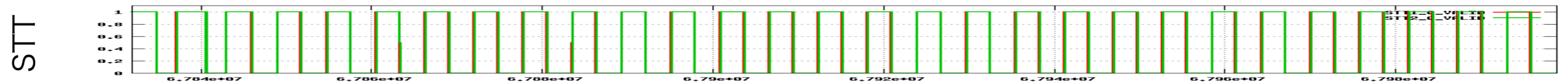
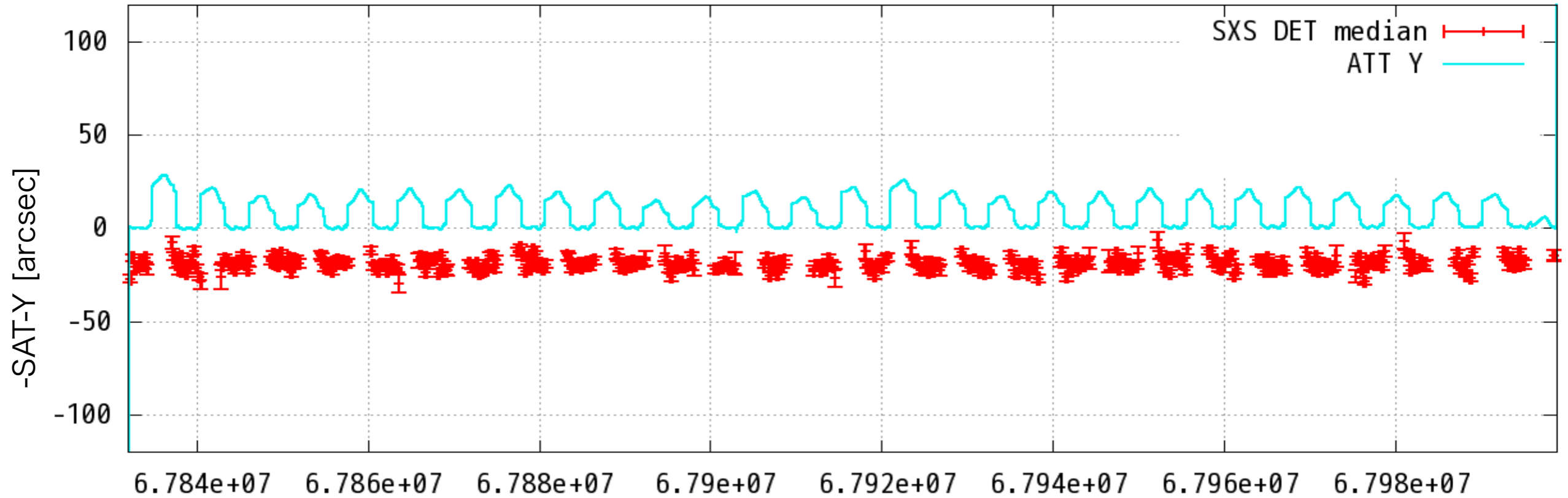
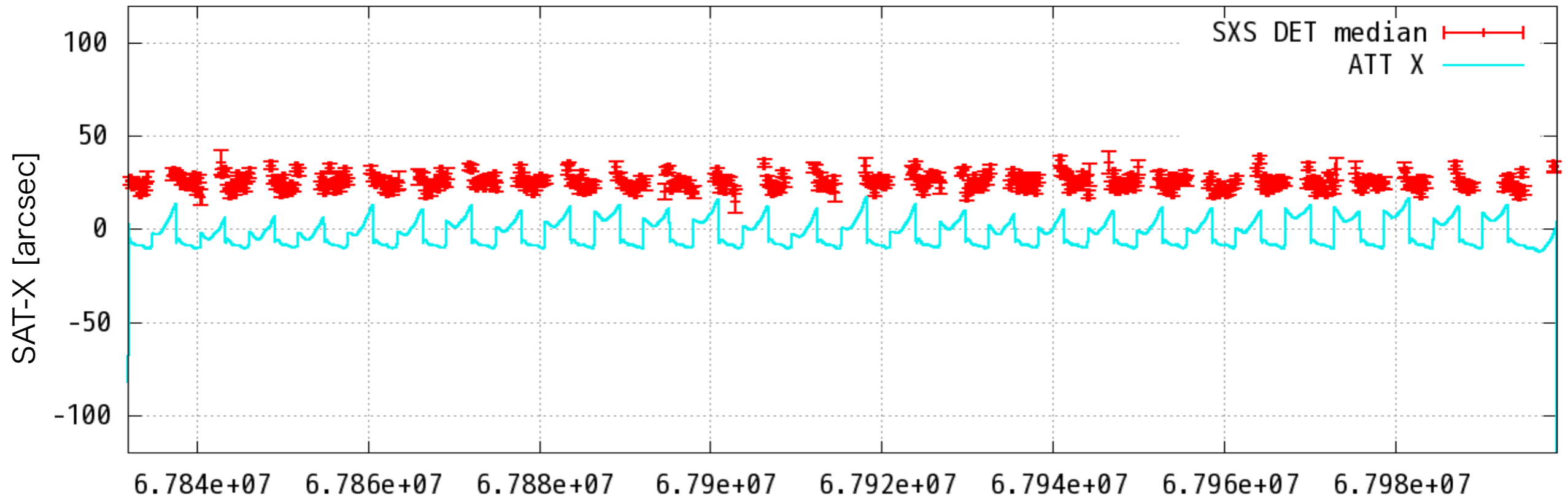
Perseus_core_adjustment

100040020

100040020

Perseus_core_adjustment DET-X/DET-Y (unit: arcsec)

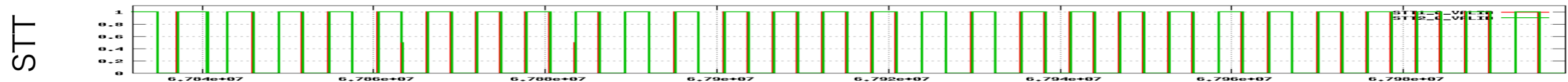
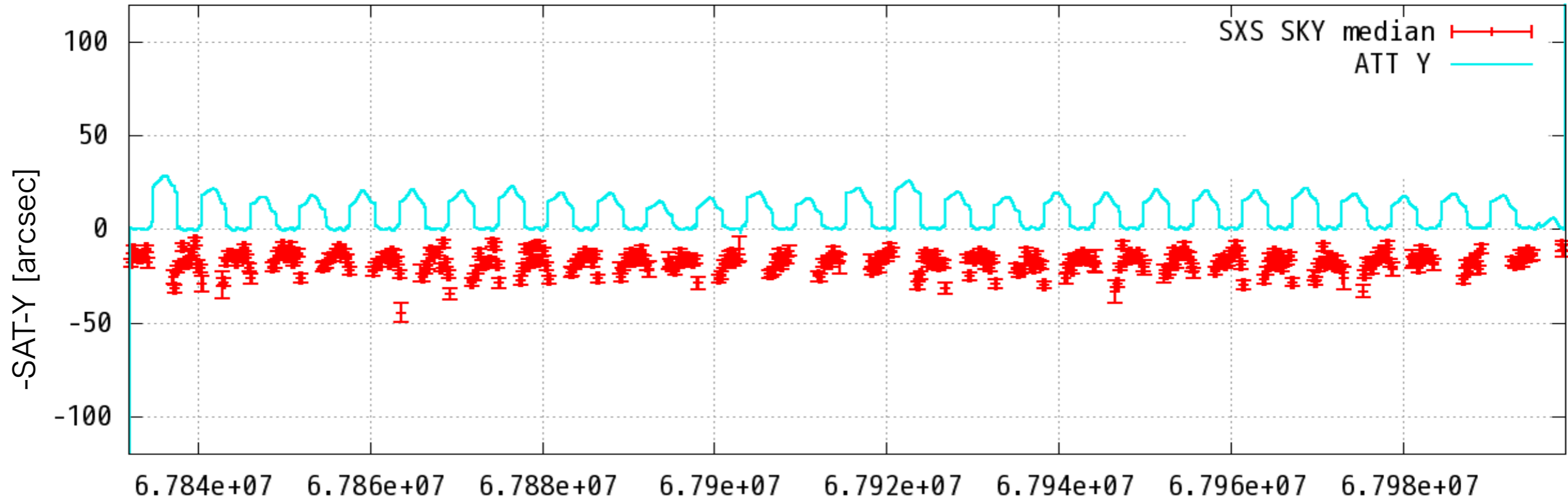
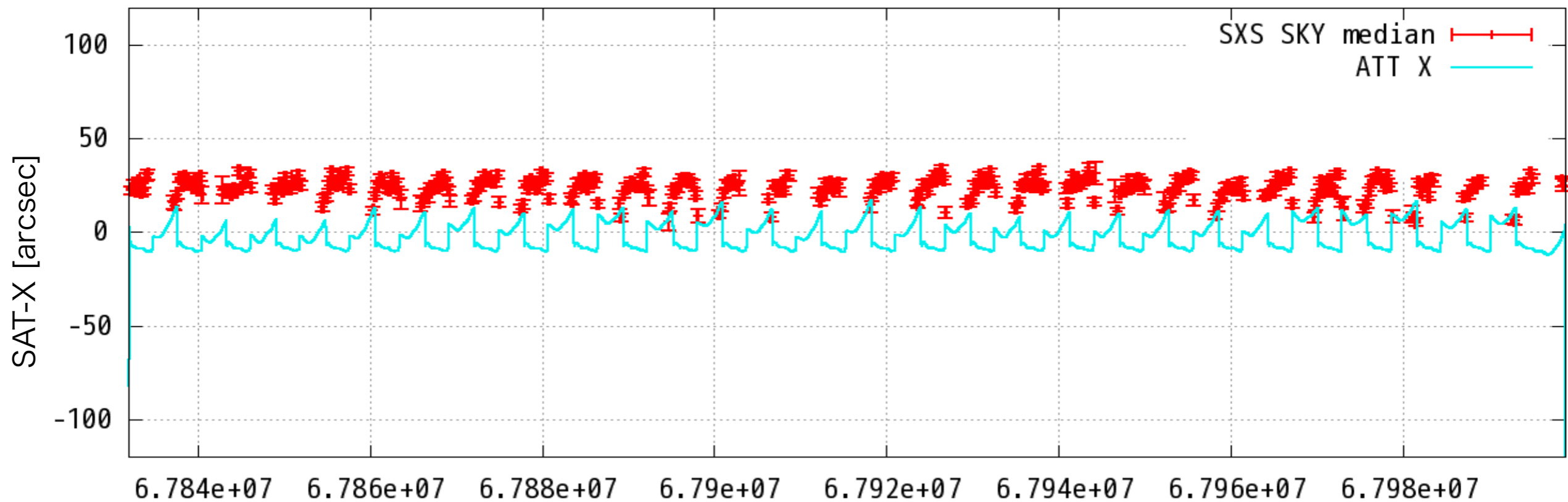
STT-ALL



100040020

Perseus_core_adjustment SKY-X/SKY-Y (unit: arcsec)

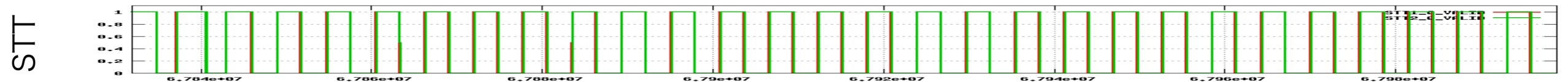
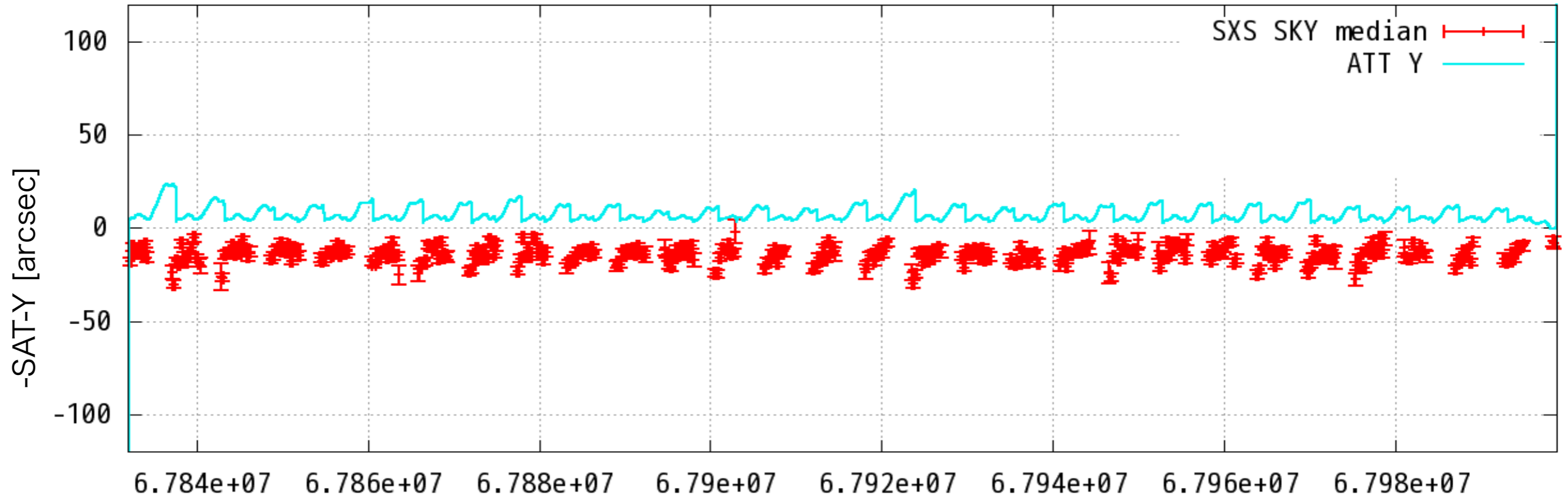
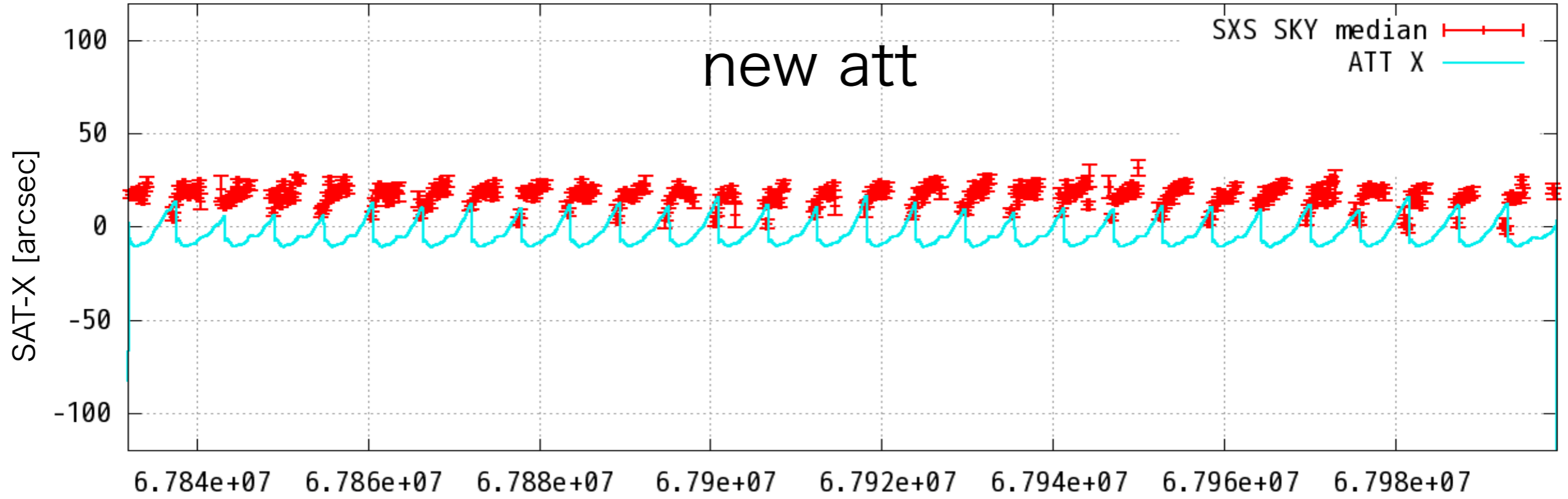
STT-ALL



100040020

Perseus_core_adjustment SKY-X/SKY-Y (unit: arcsec)

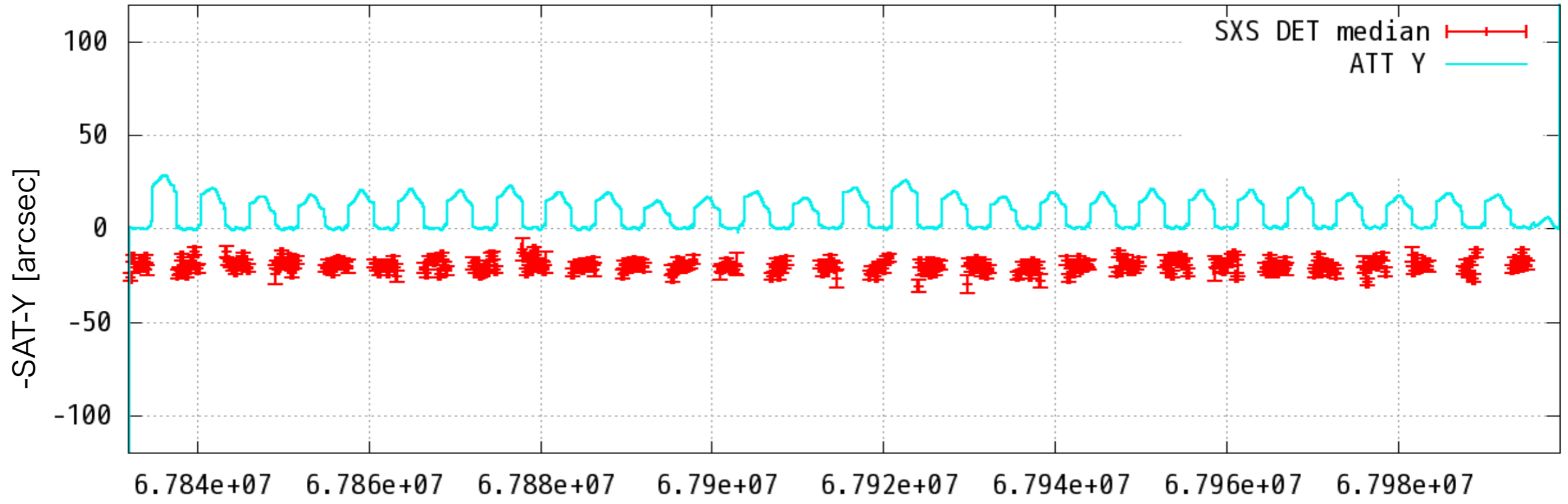
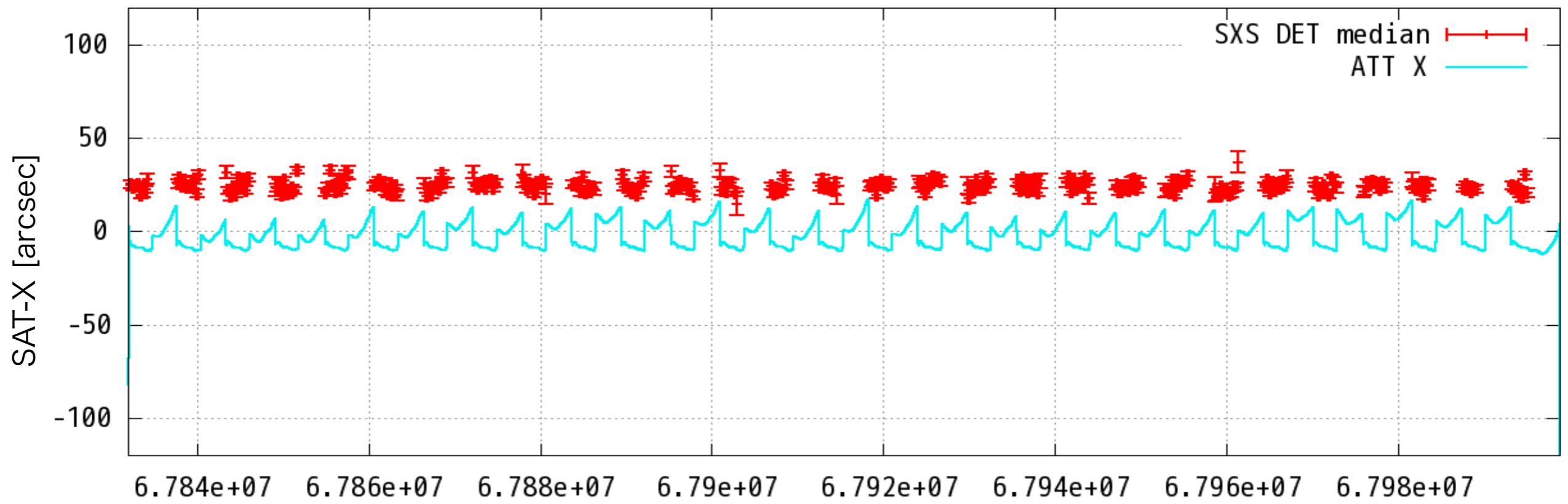
STT-ALL



100040020

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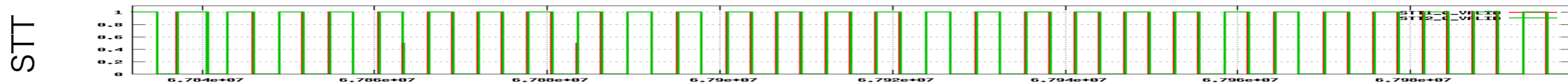
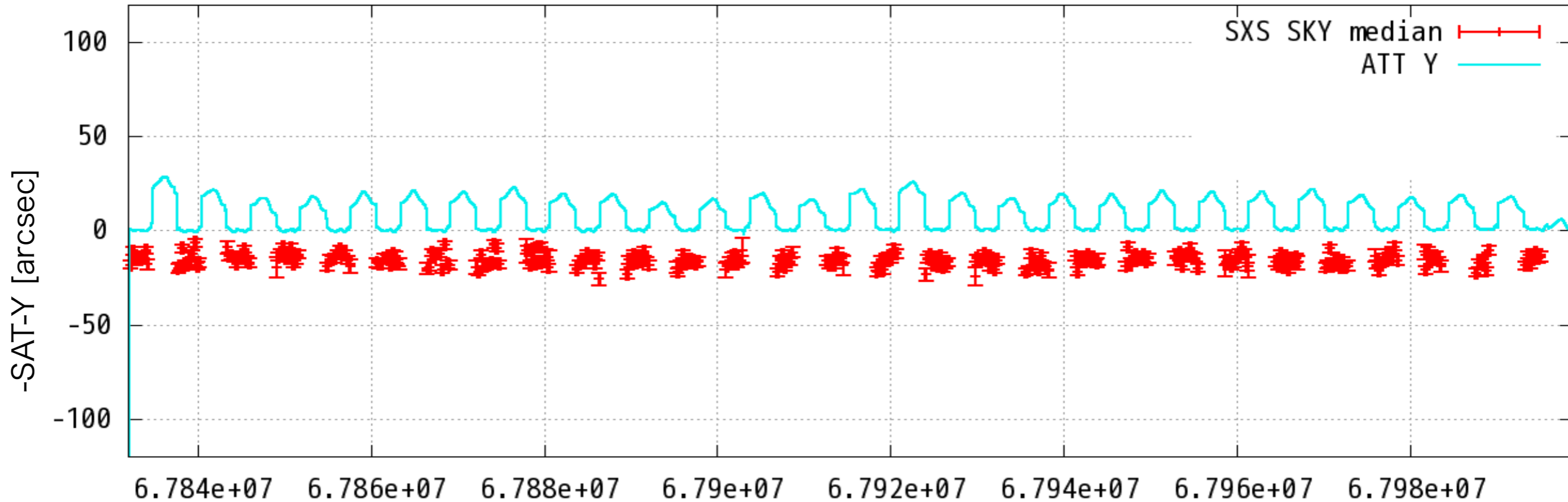
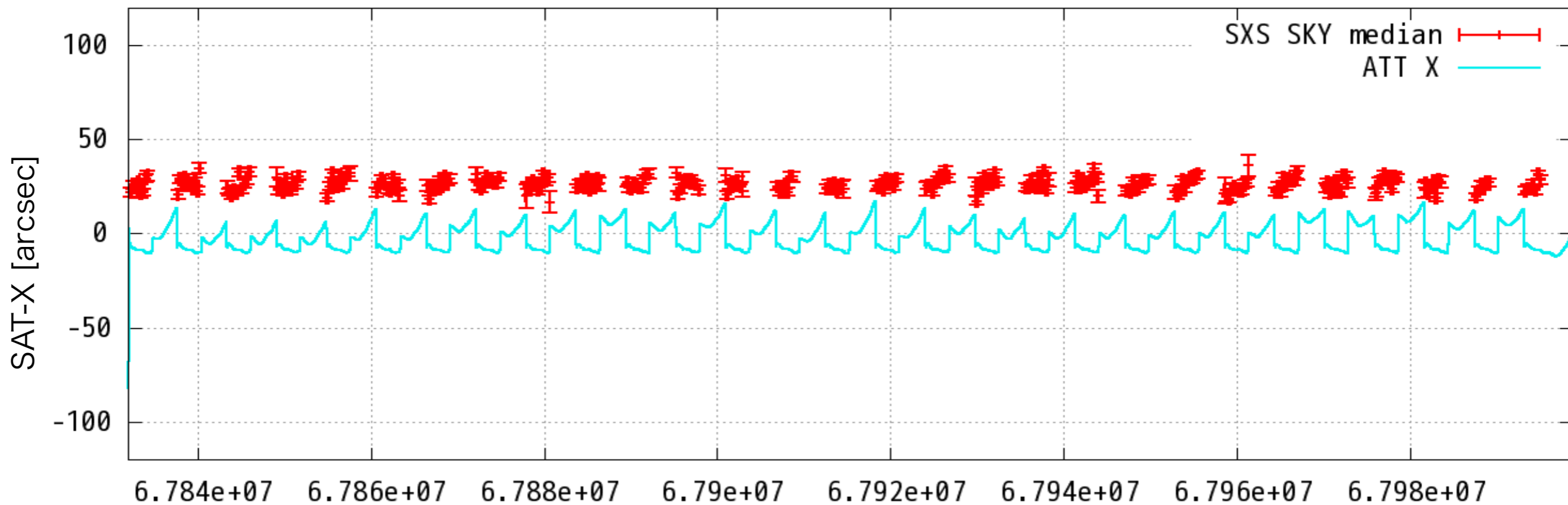
STT-CTL



100040020

Perseus_core_adjustment SKY-X/SKY-Y (unit: arcsec)

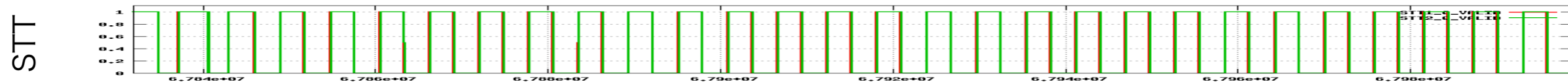
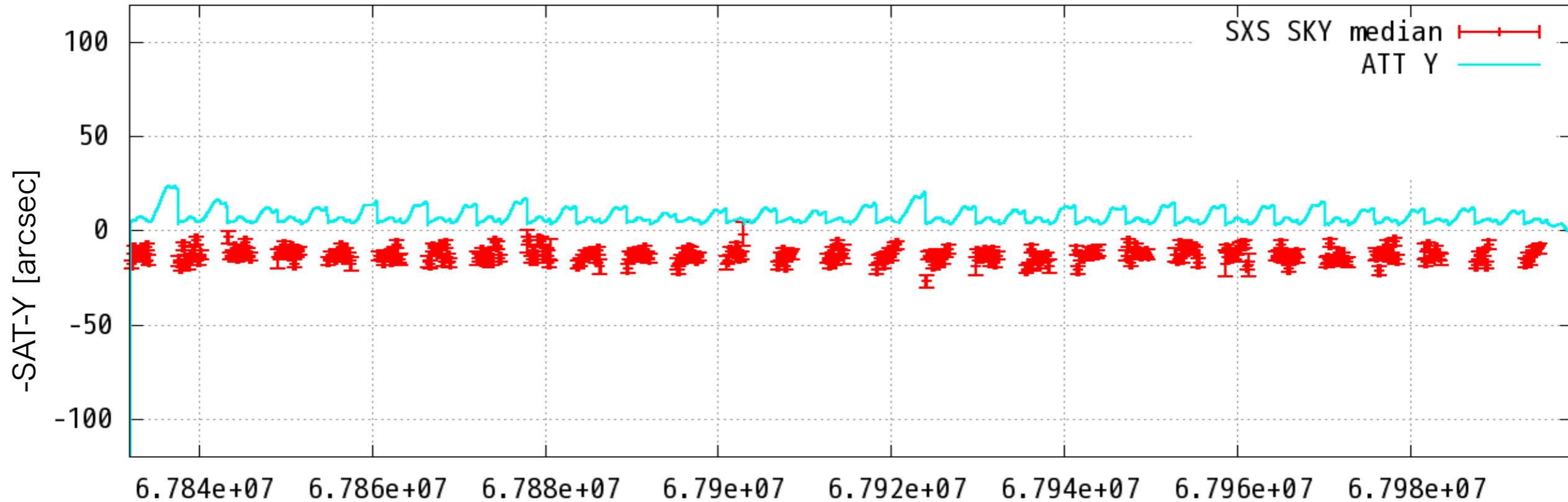
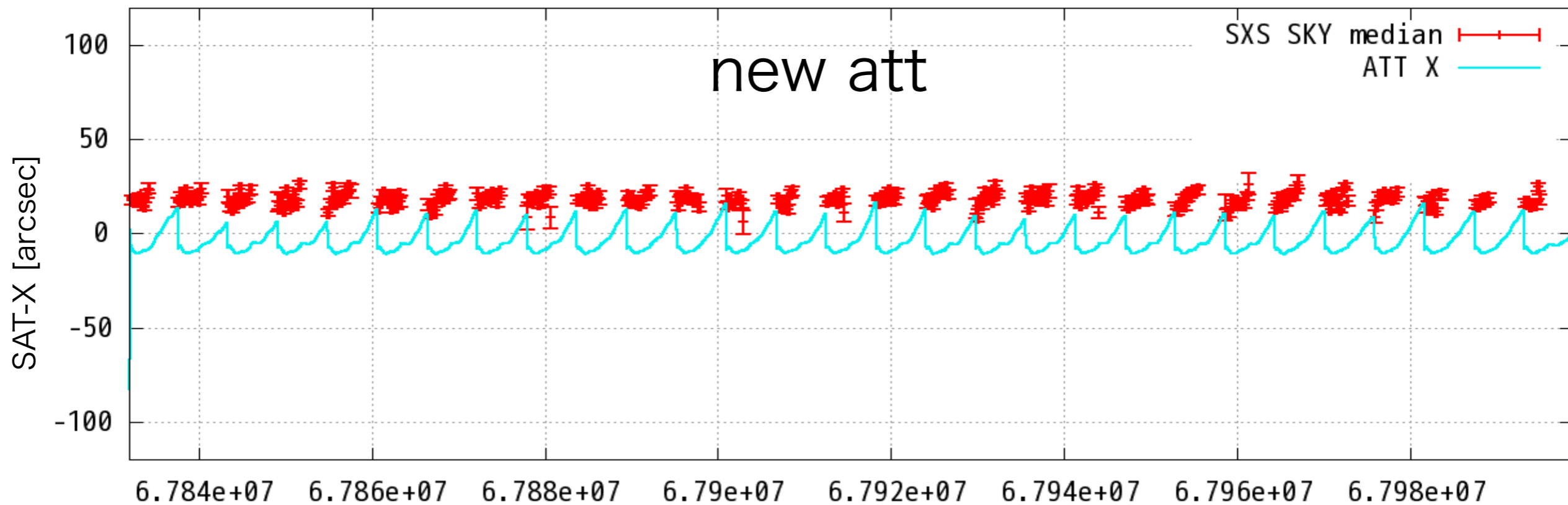
STT-CTL



100040020

Perseus_core_adjustment SKY-X/SKY-Y (unit: arcsec)

STT-CTL

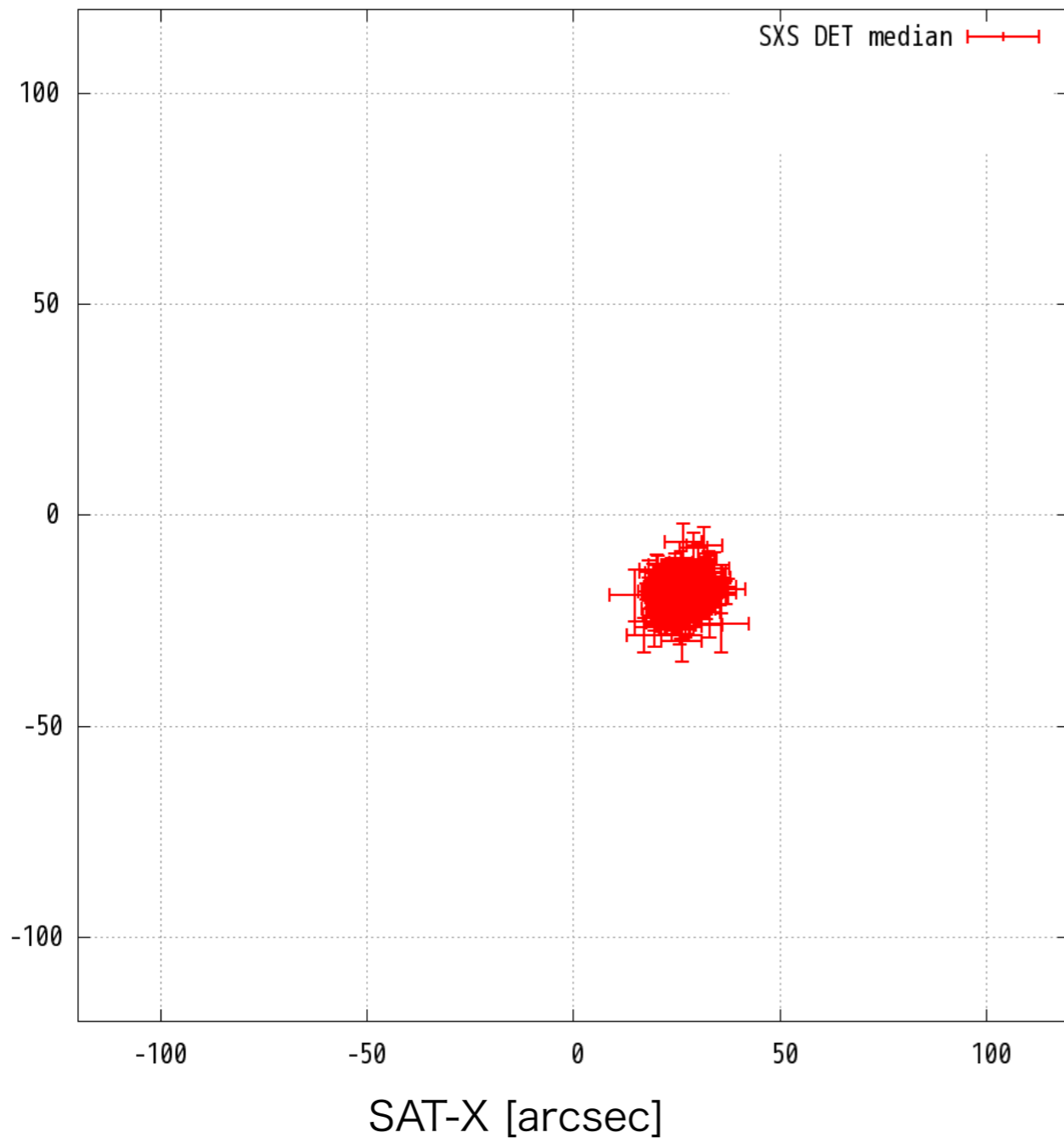


Perseus_core_adjustment (STT-ALL)

seq: 100040020

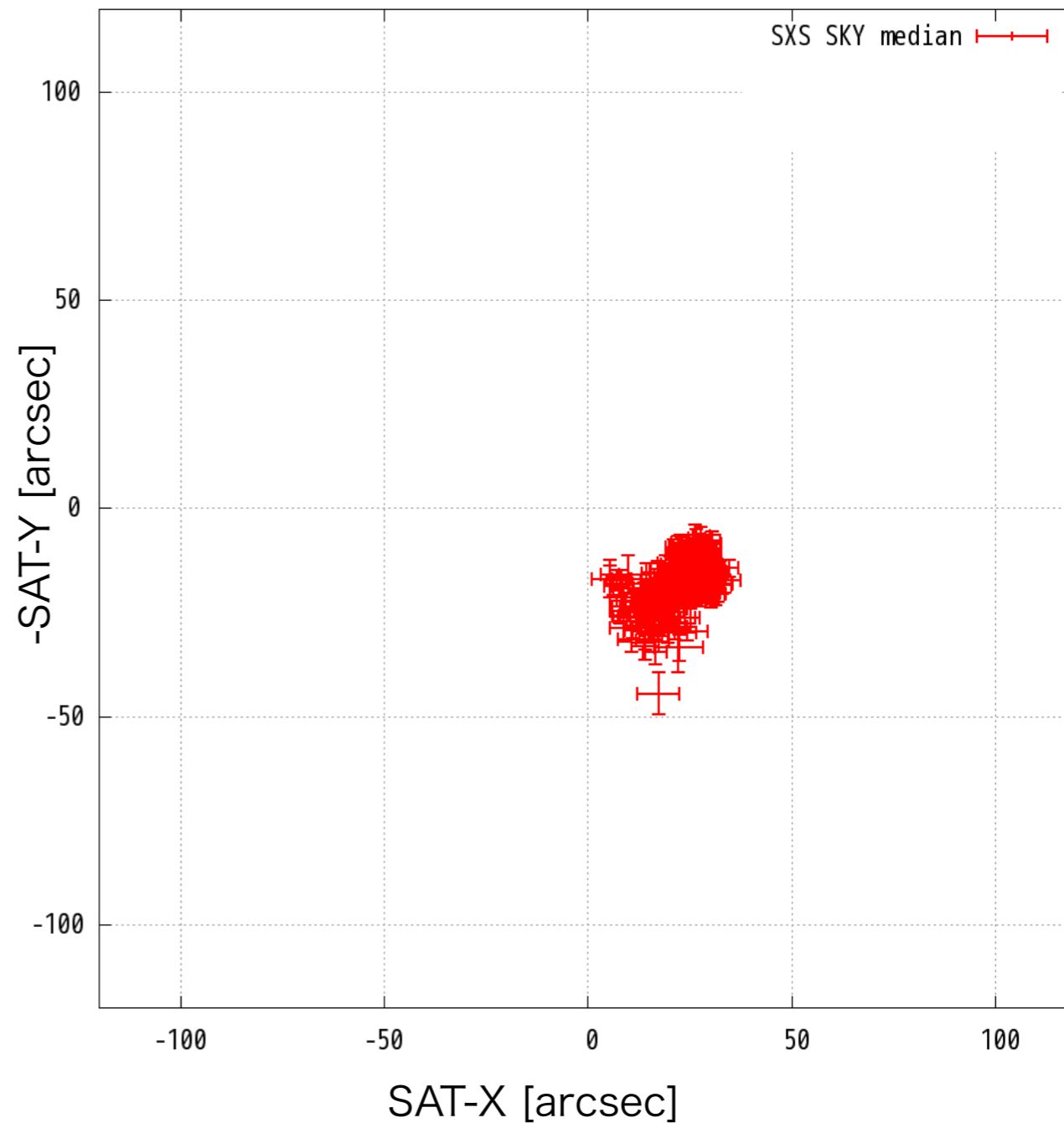
DET

Perseus_core_adjustment DET-X/DET-Y (unit: arcsec)



SKY

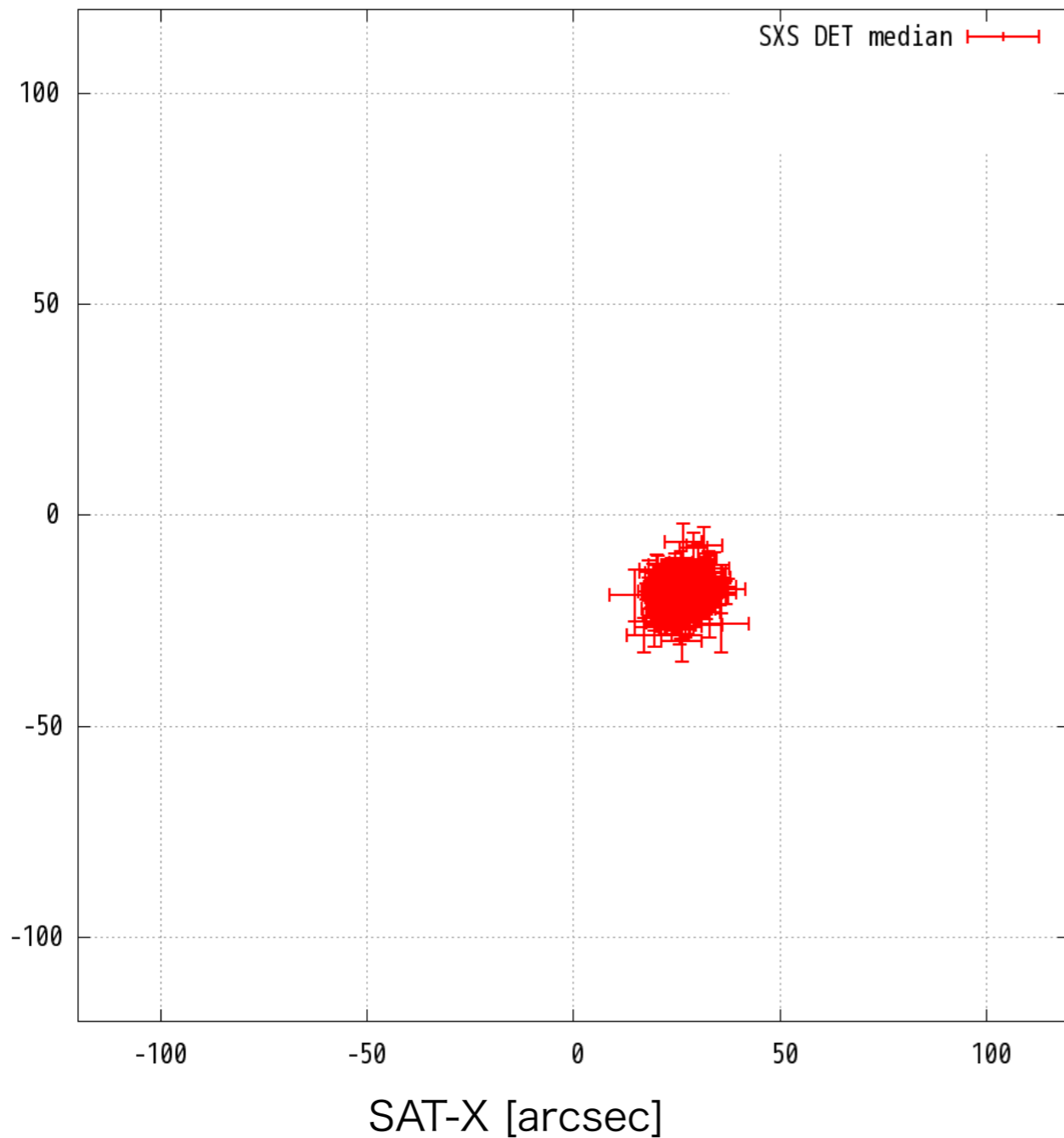
Perseus_core_adjustment SKY-X/SKY-Y (unit: arcsec)



Perseus_core_adjustment (STT-ALL) seq: 100040020

DET

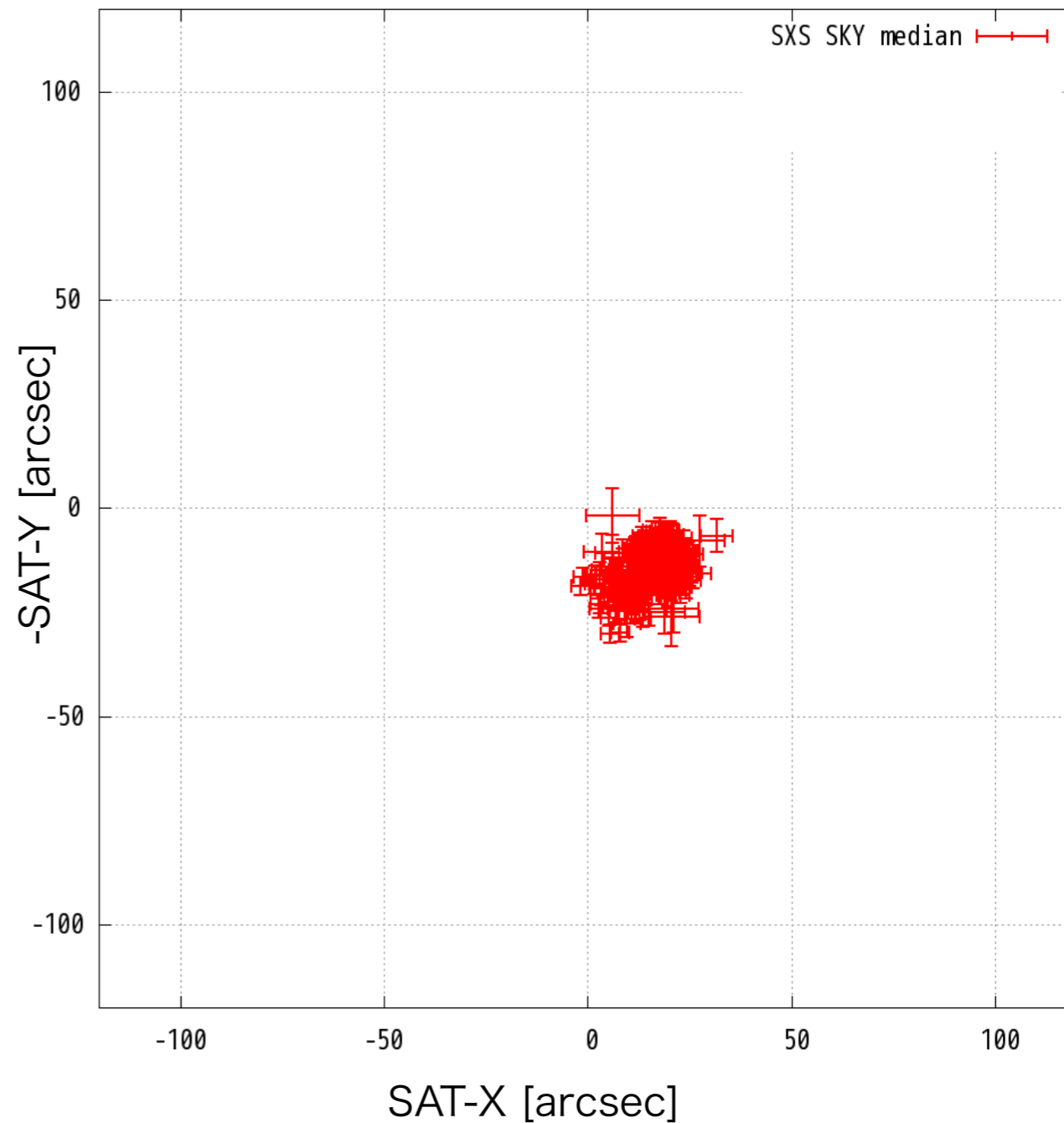
Perseus_core_adjustment DET-X/DET-Y (unit: arcsec)



SKY

new att

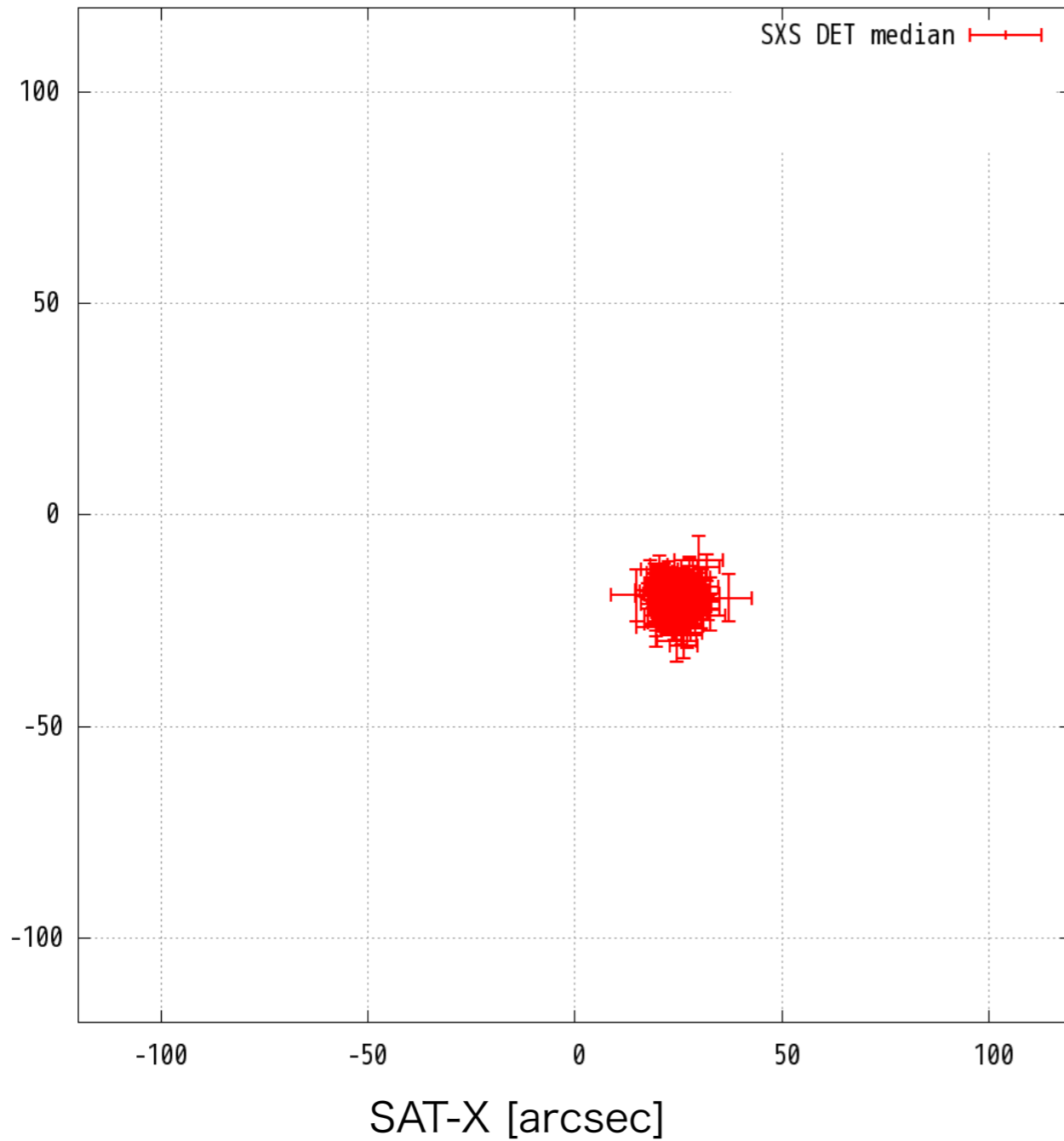
Perseus_core_adjustment SKY-X/SKY-Y (unit: arcsec)



Perseus_core_adjustment (STT-CTL) seq: 100040020

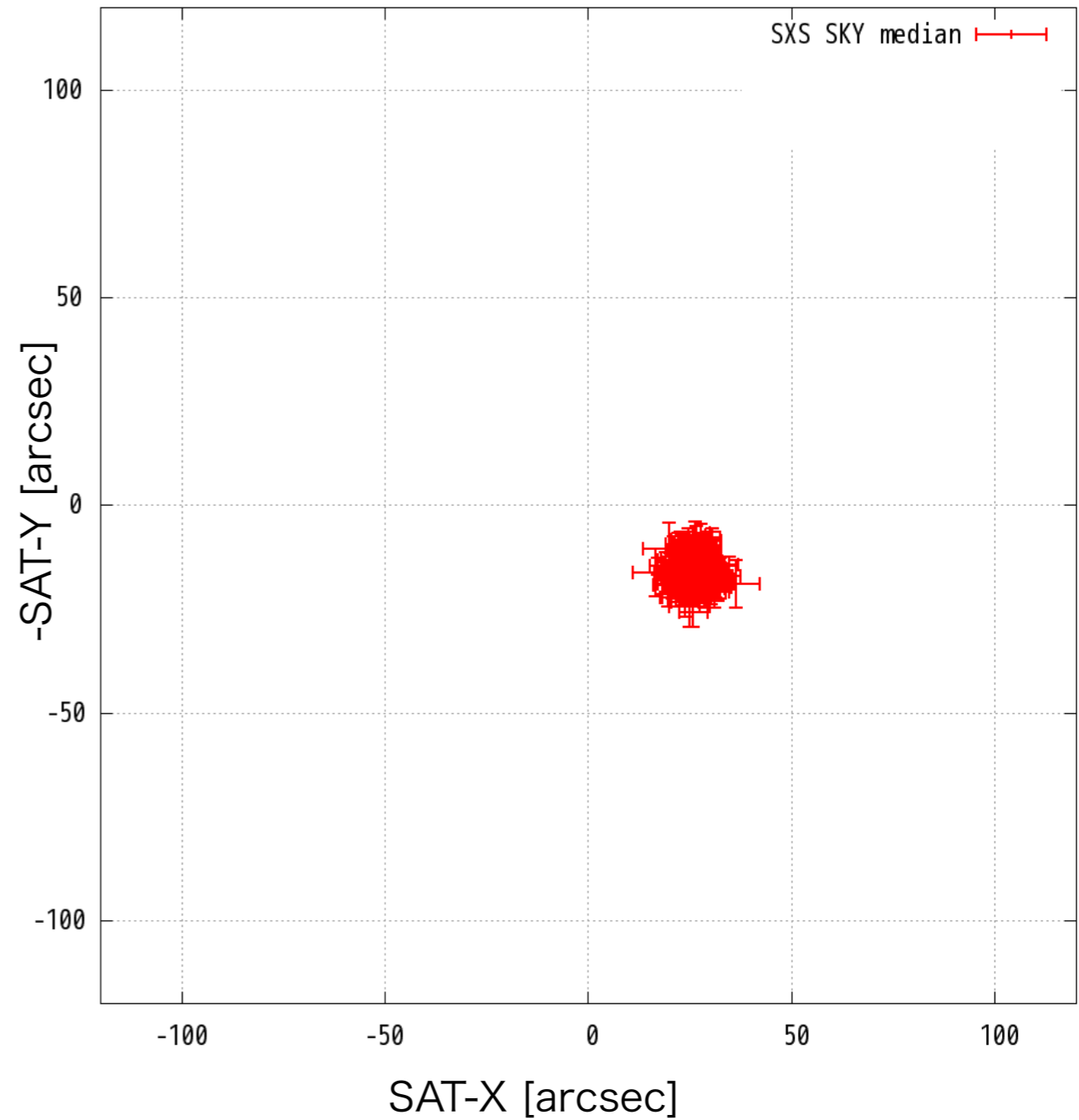
DET

Perseus_core_adjustment DET-X/DET-Y (unit: arcsec)



SKY

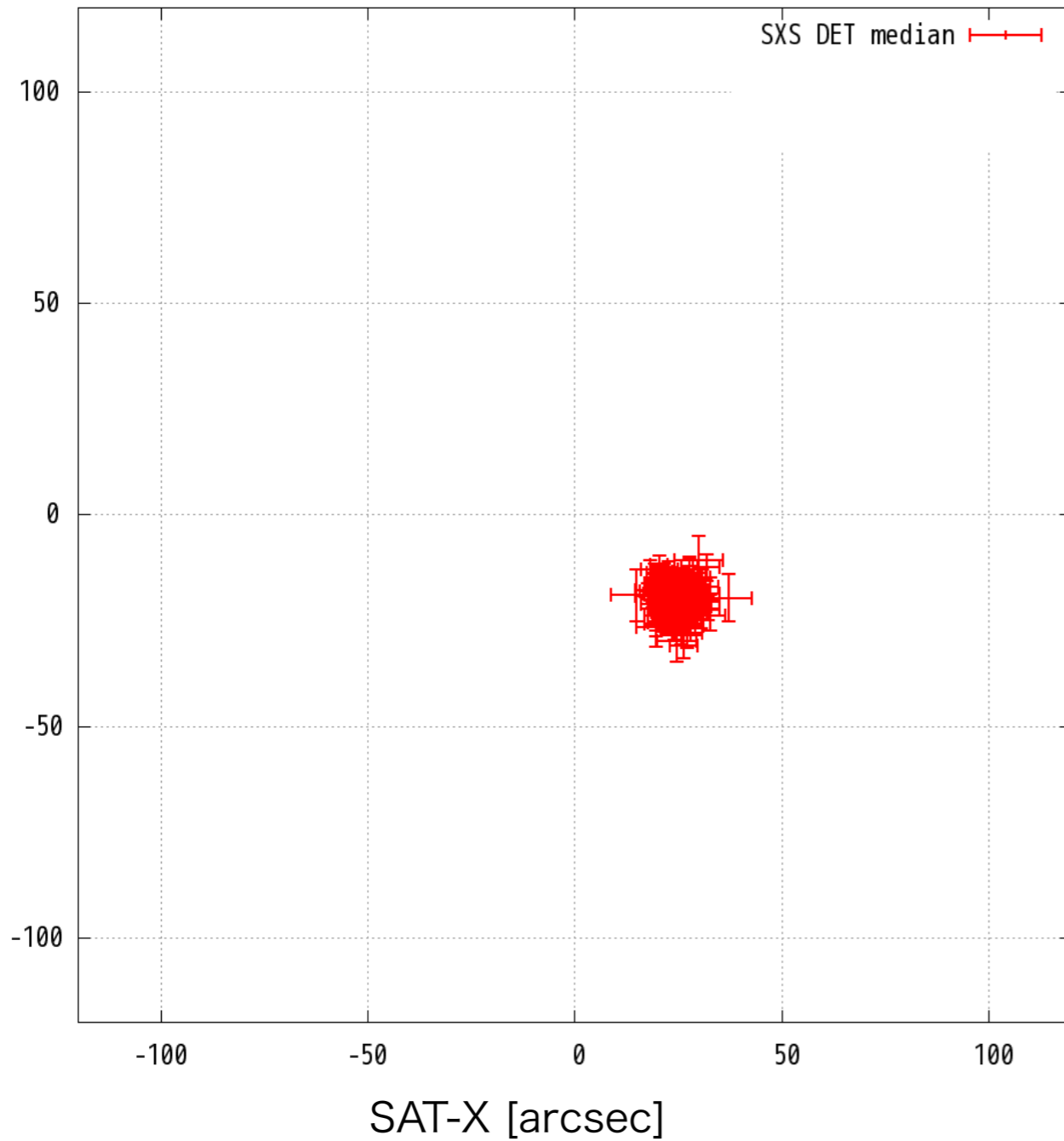
Perseus_core_adjustment SKY-X/SKY-Y (unit: arcsec)



Perseus_core_adjustment (STT-CTL) seq: 100040020

DET

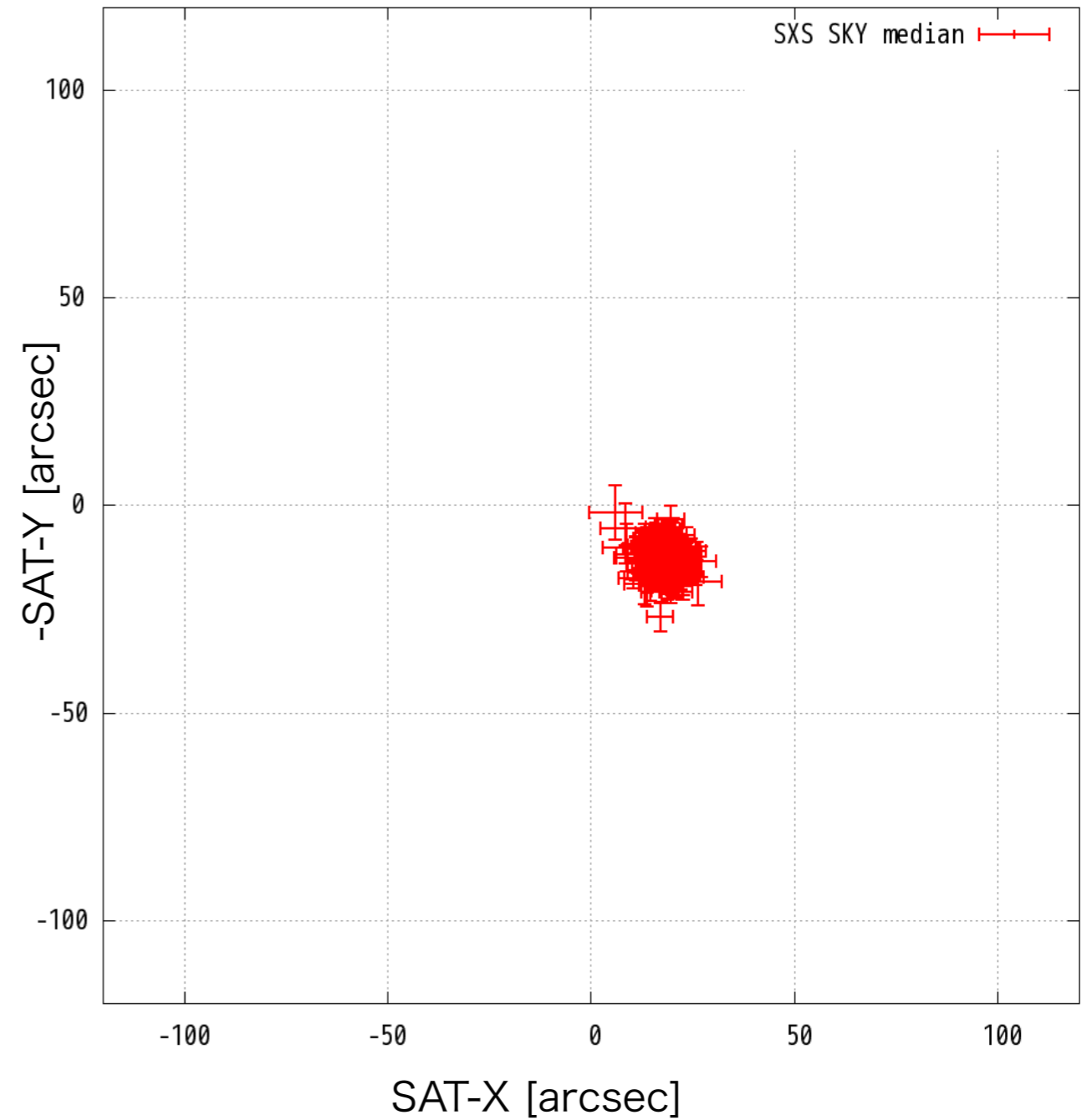
Perseus_core_adjustment DET-X/DET-Y (unit: arcsec)



SKY

new att

Perseus_core_adjustment SKY-X/SKY-Y (unit: arcsec)



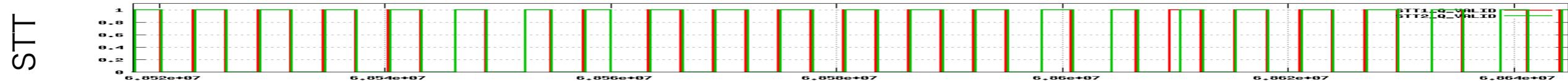
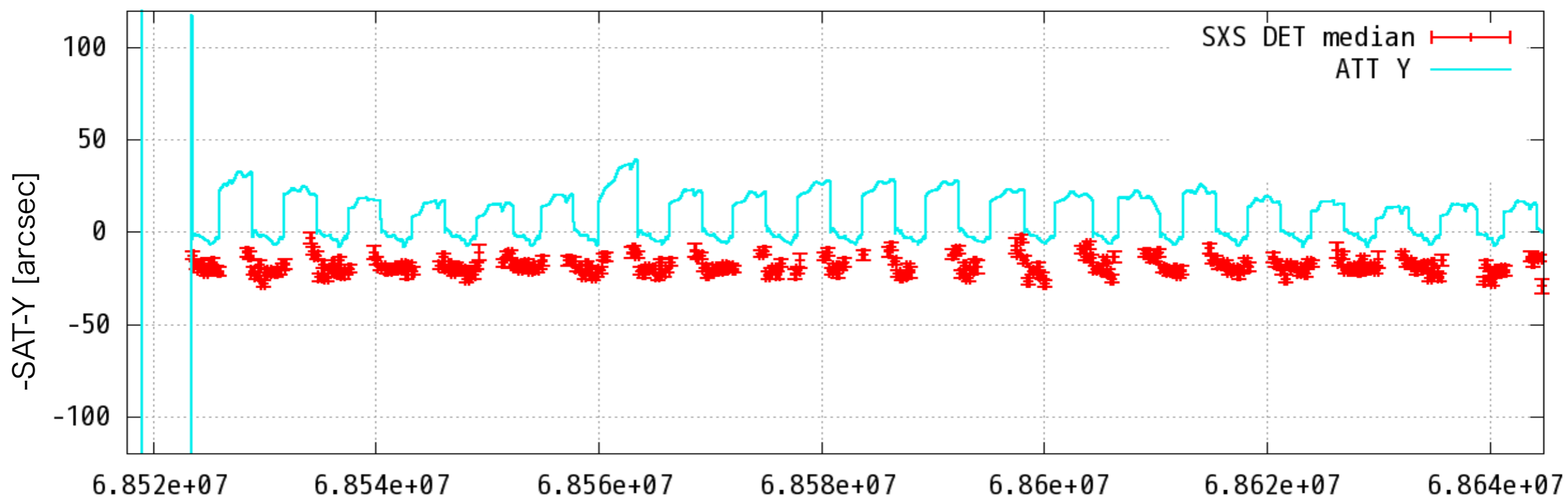
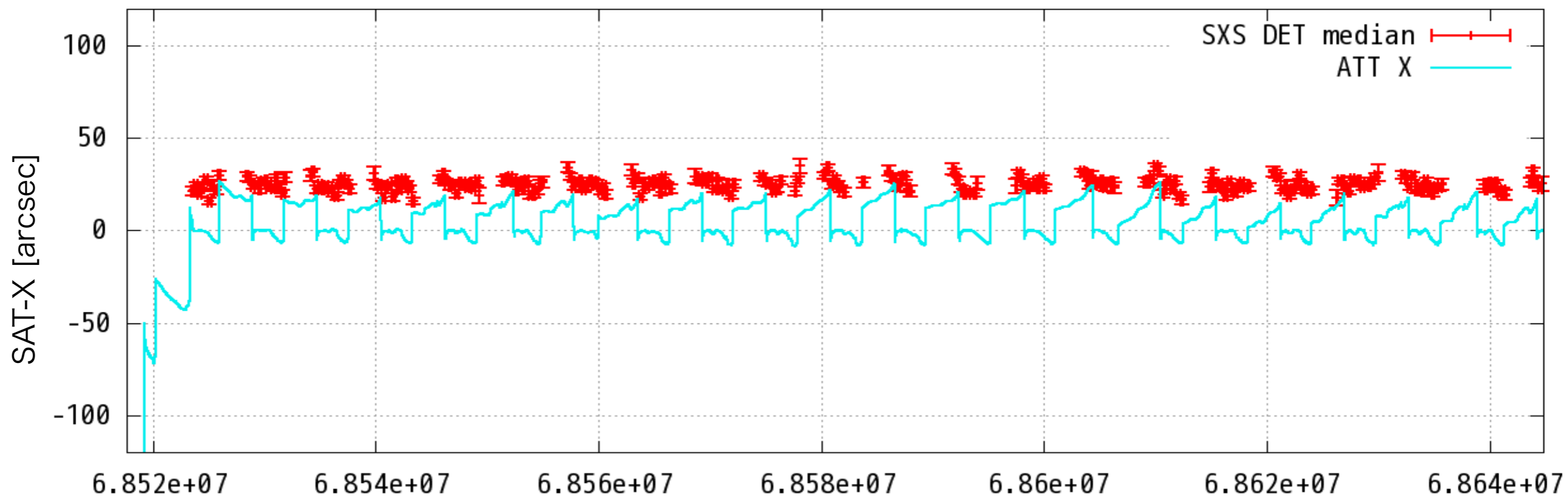
Perseus

100040030, 40, 50

100040030

Perseus DET-X/DET-Y (unit: arcsec)

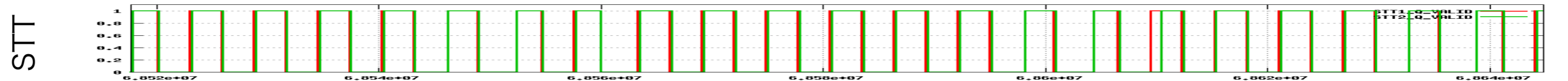
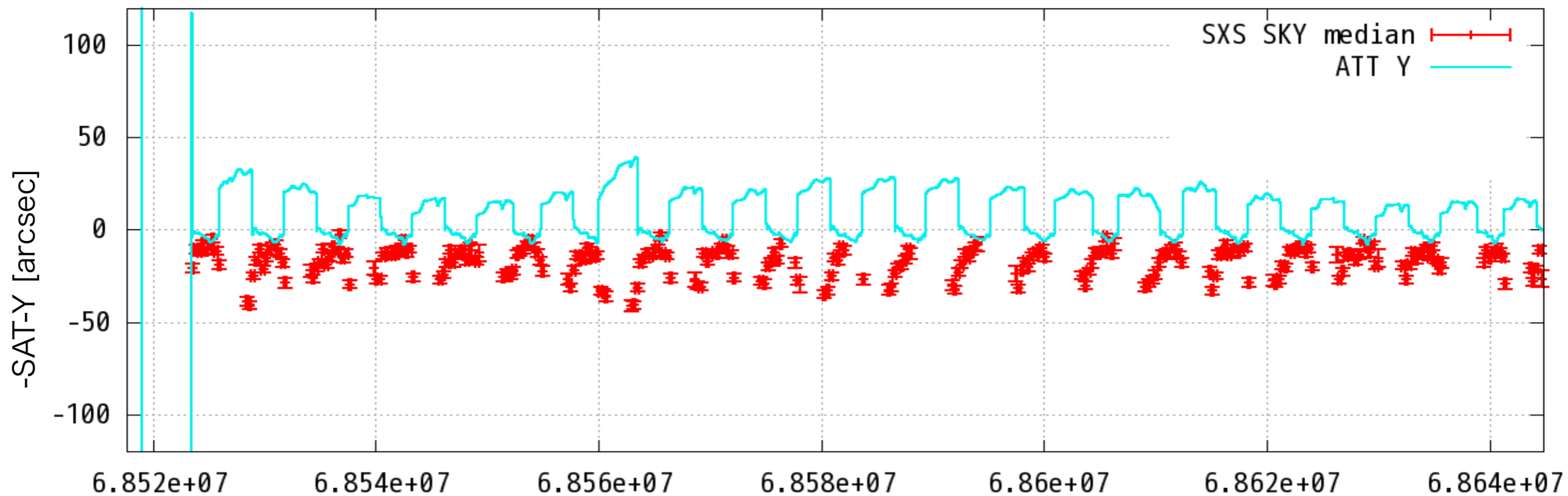
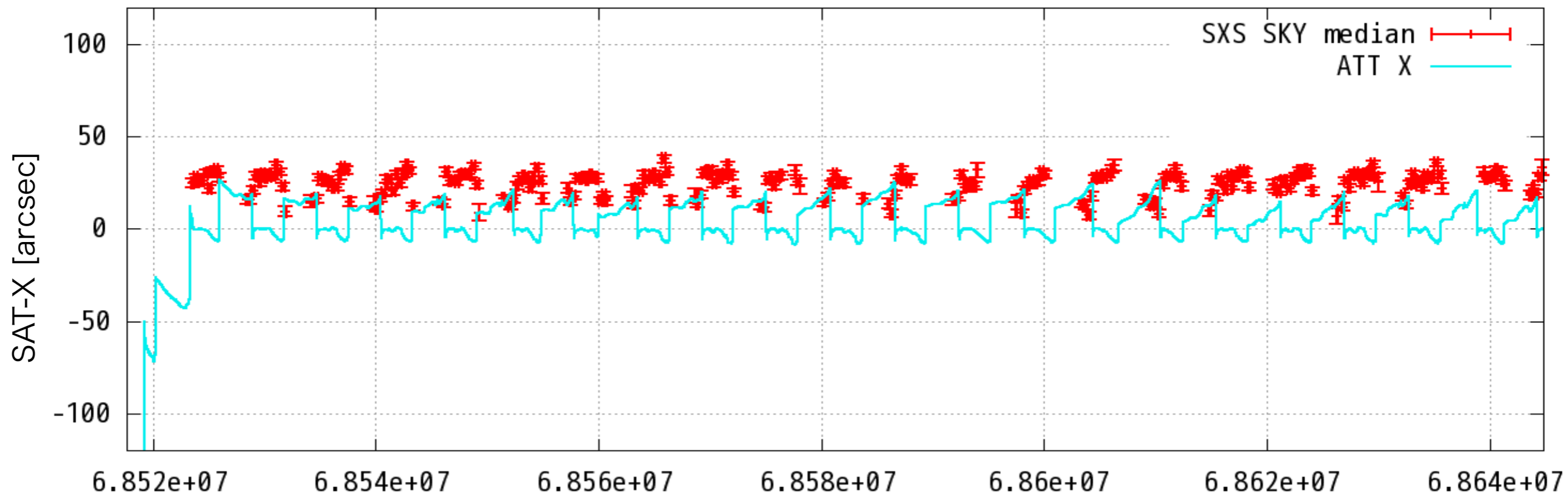
STT-ALL



100040030

Perseus SKY-X/SKY-Y (unit: arcsec)

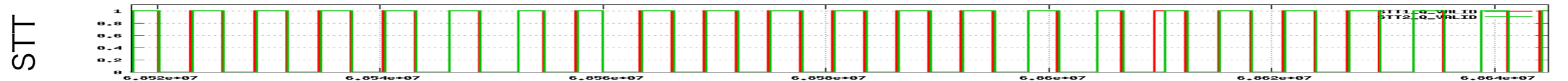
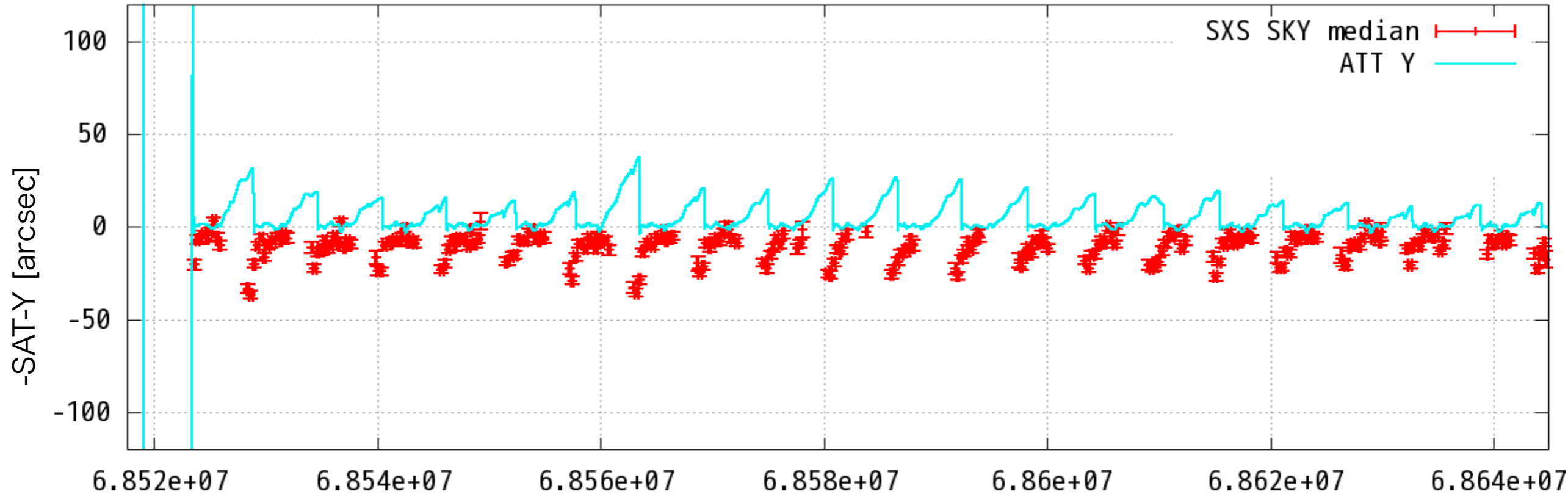
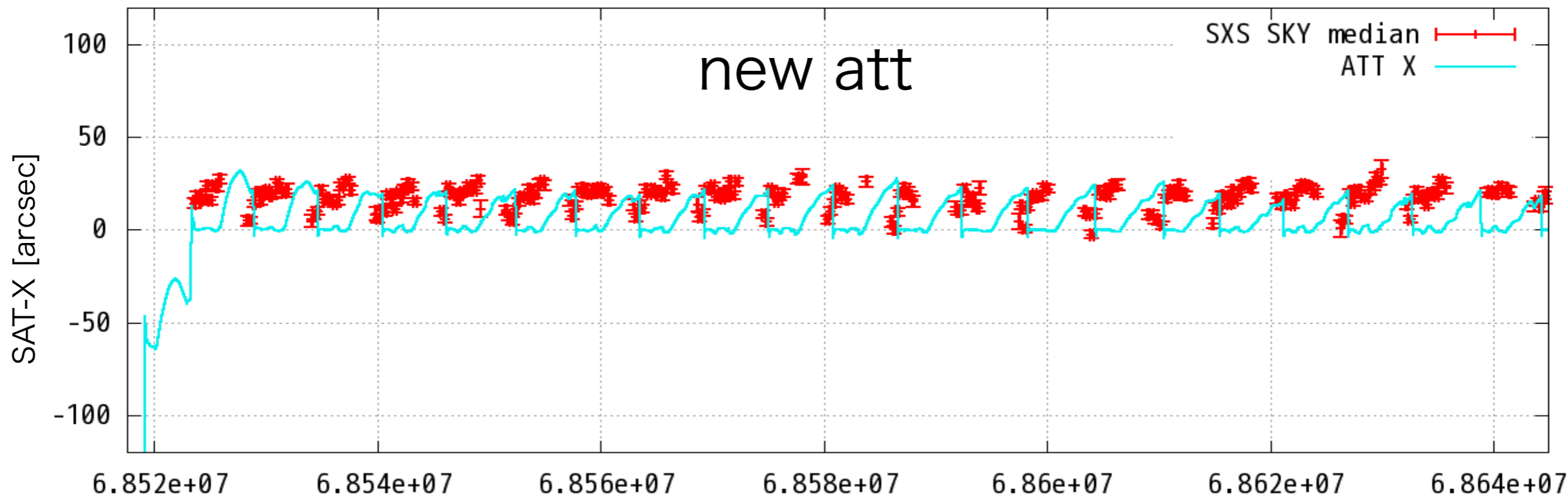
STT-ALL



100040030

Perseus SKY-X/SKY-Y (unit: arcsec)

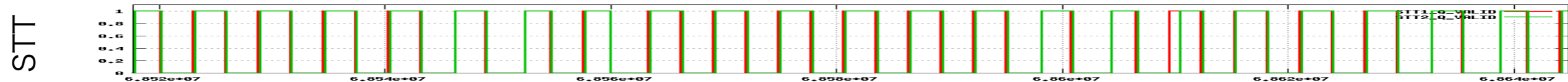
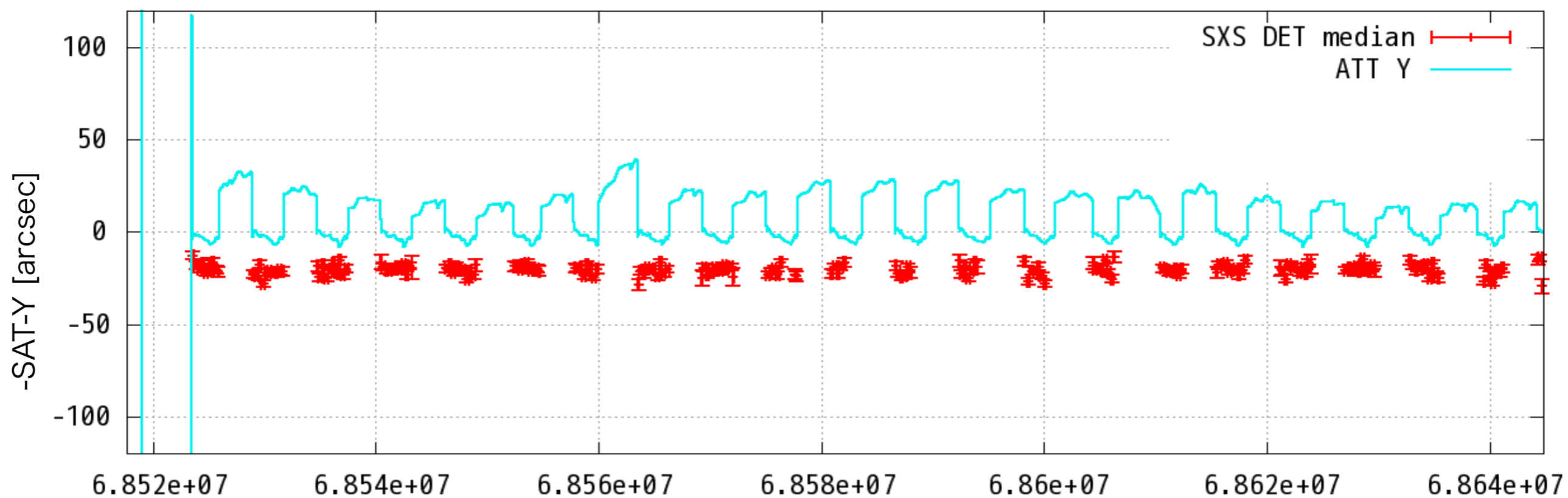
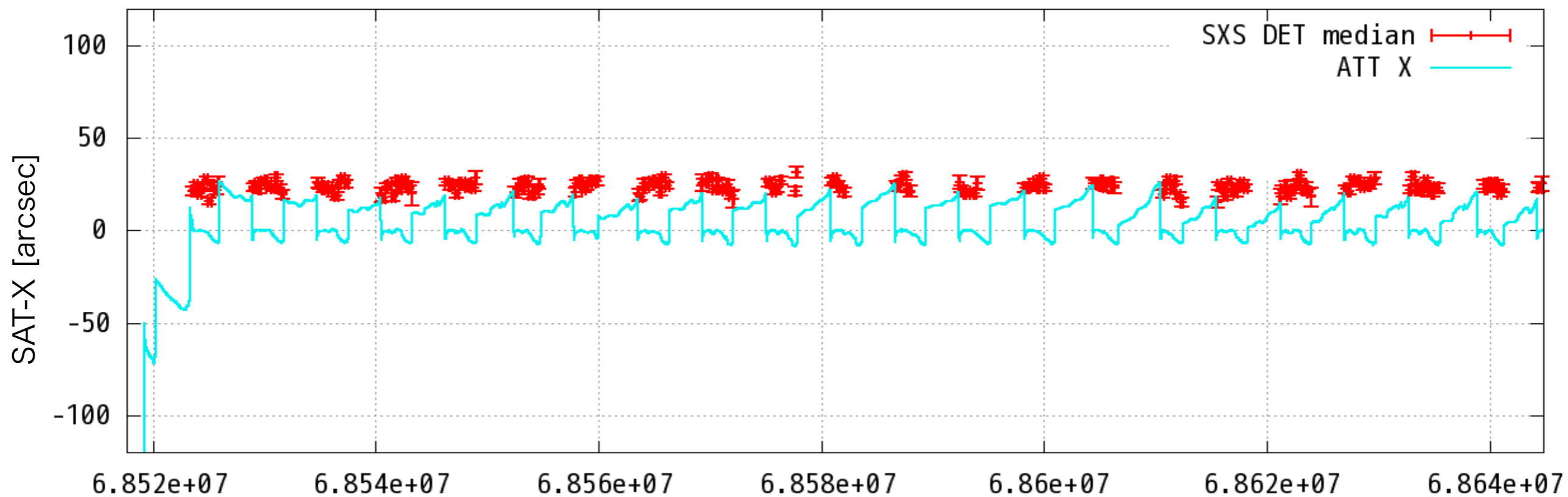
STT-ALL



100040030

Perseus DET-X/DET-Y (unit: arcsec)

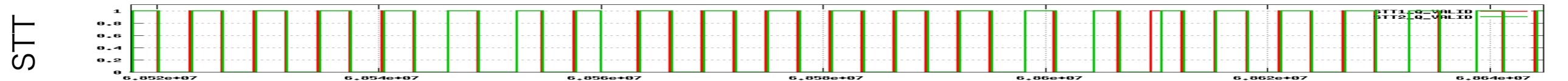
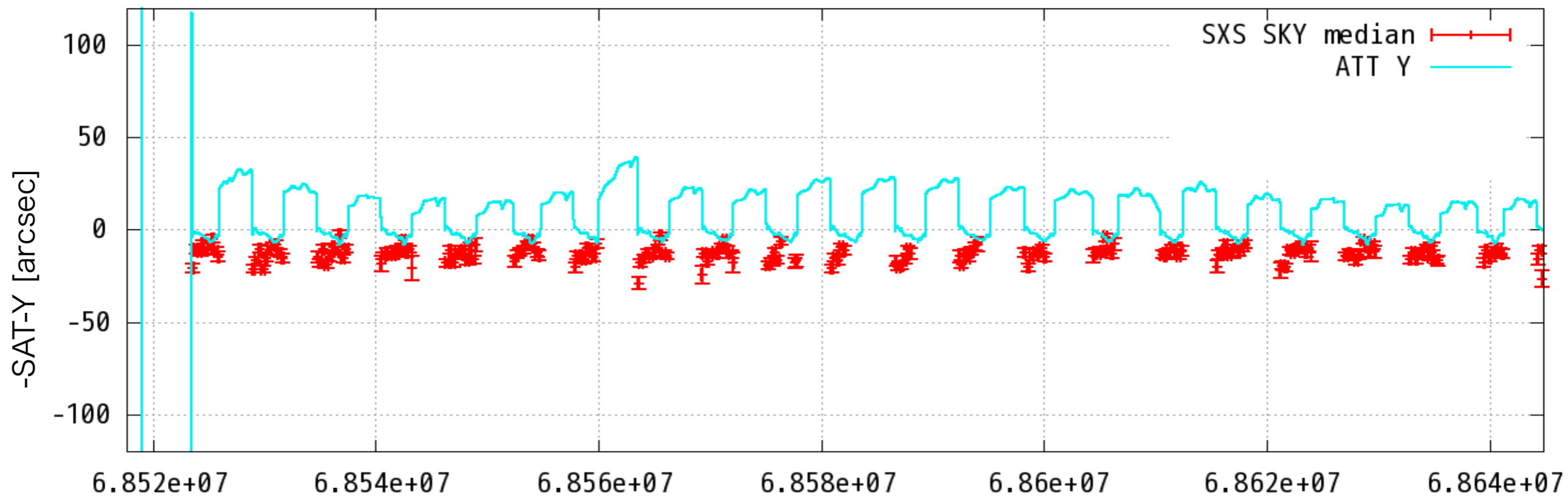
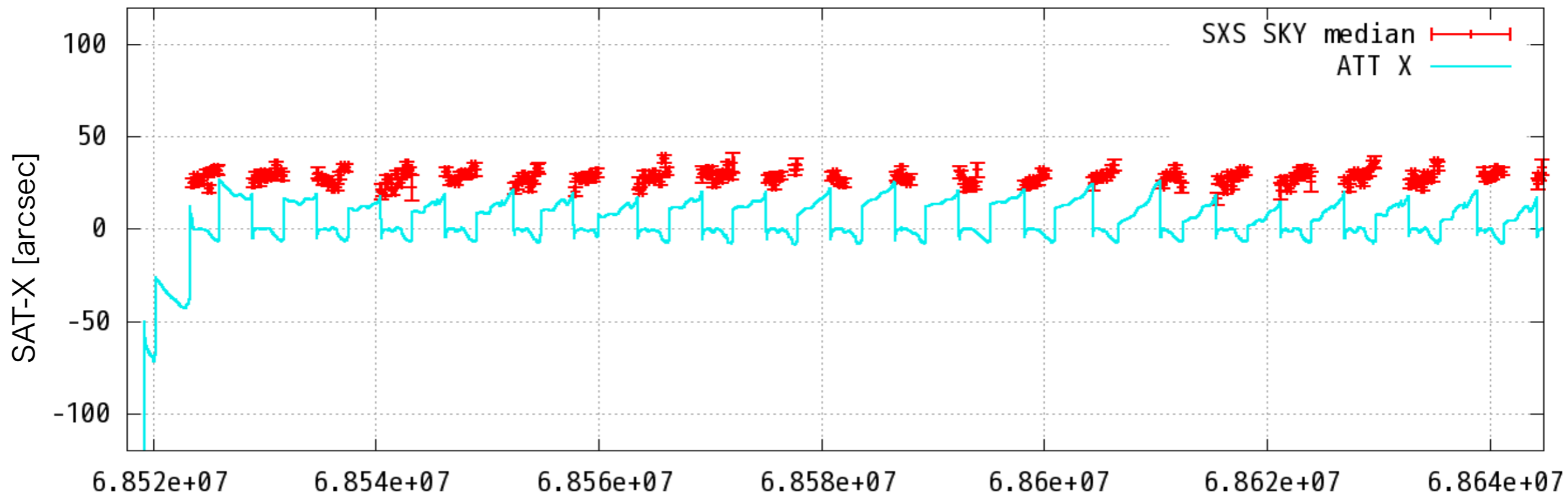
STT-CTL



100040030

Perseus SKY-X/SKY-Y (unit: arcsec)

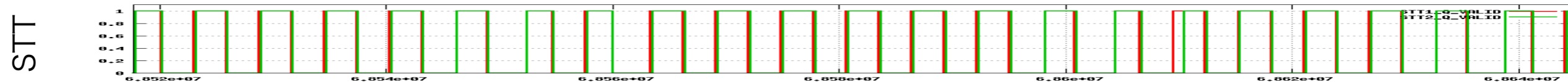
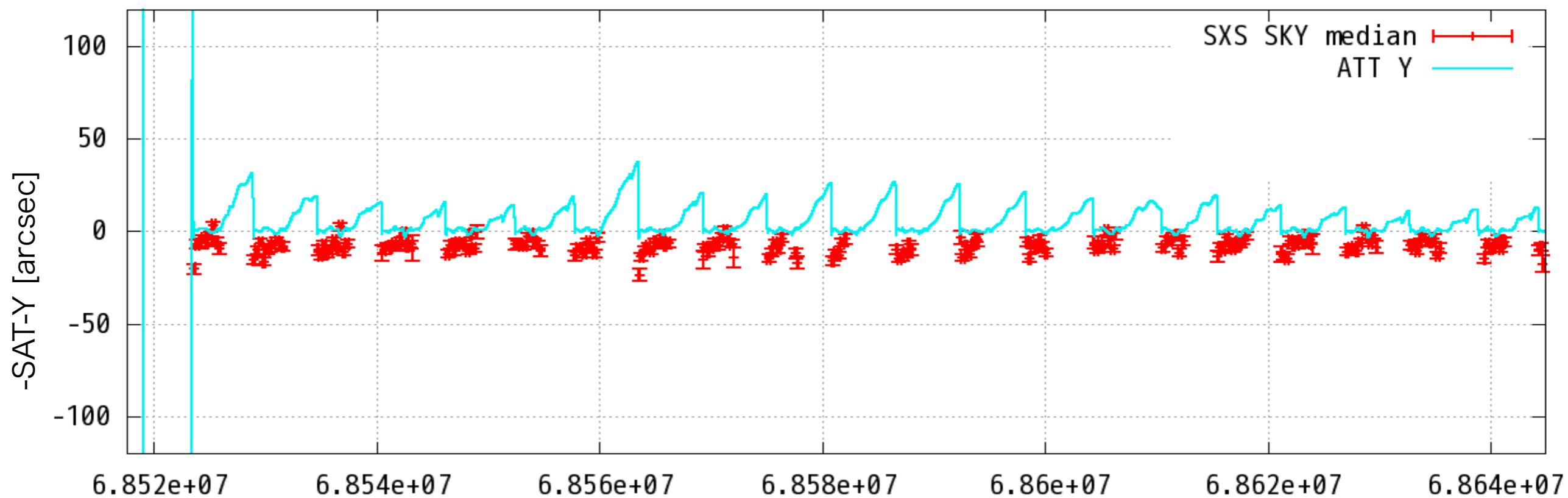
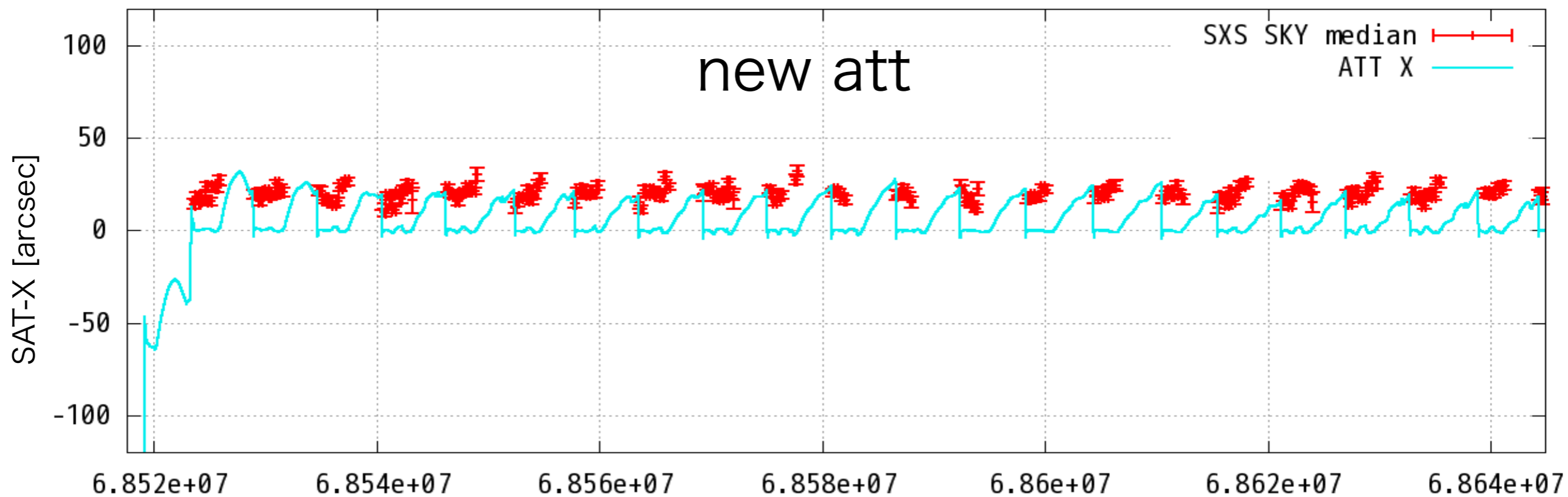
STT-CTL



100040030

Perseus SKY-X/SKY-Y (unit: arcsec)

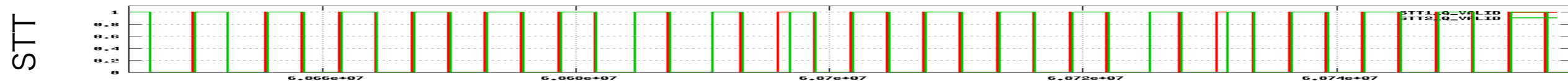
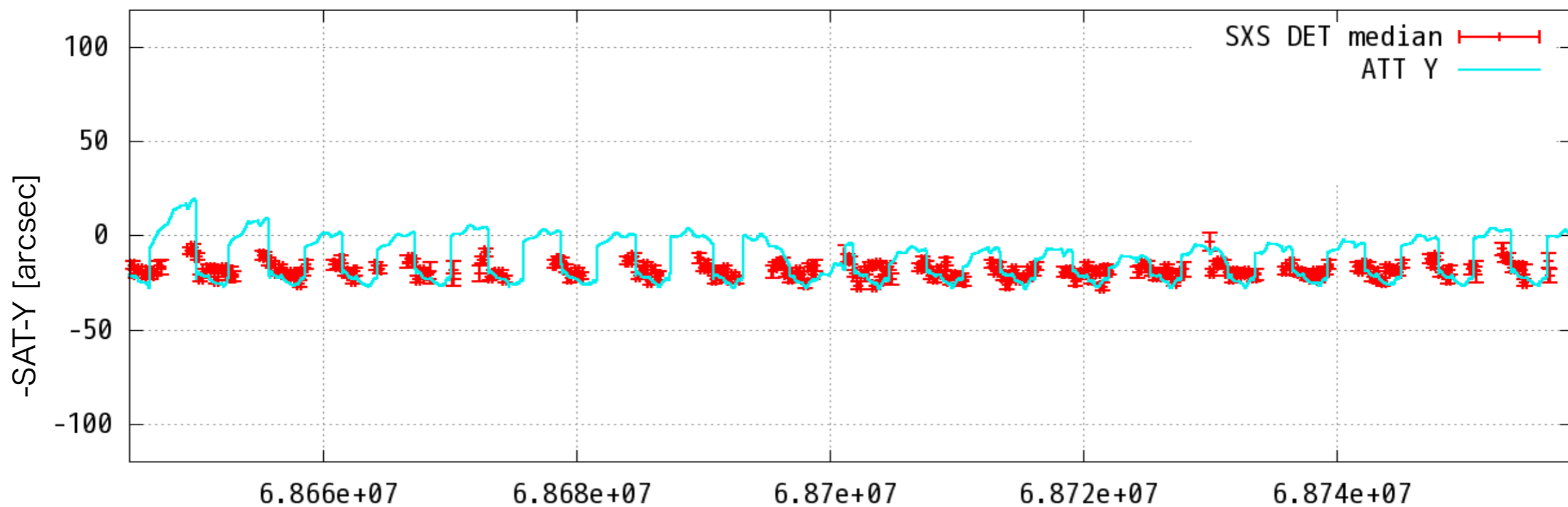
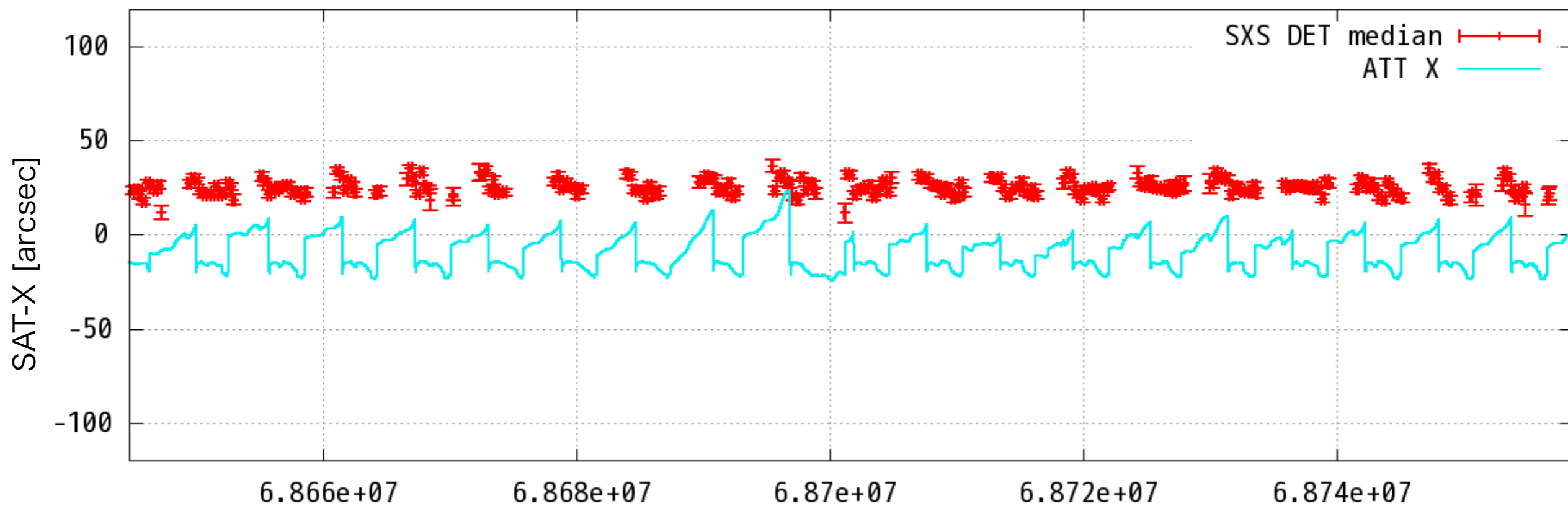
STT-CTL



100040040

Perseus DET-X/DET-Y (unit: arcsec)

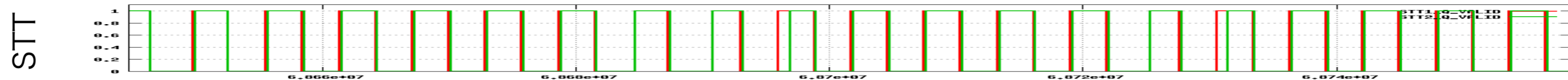
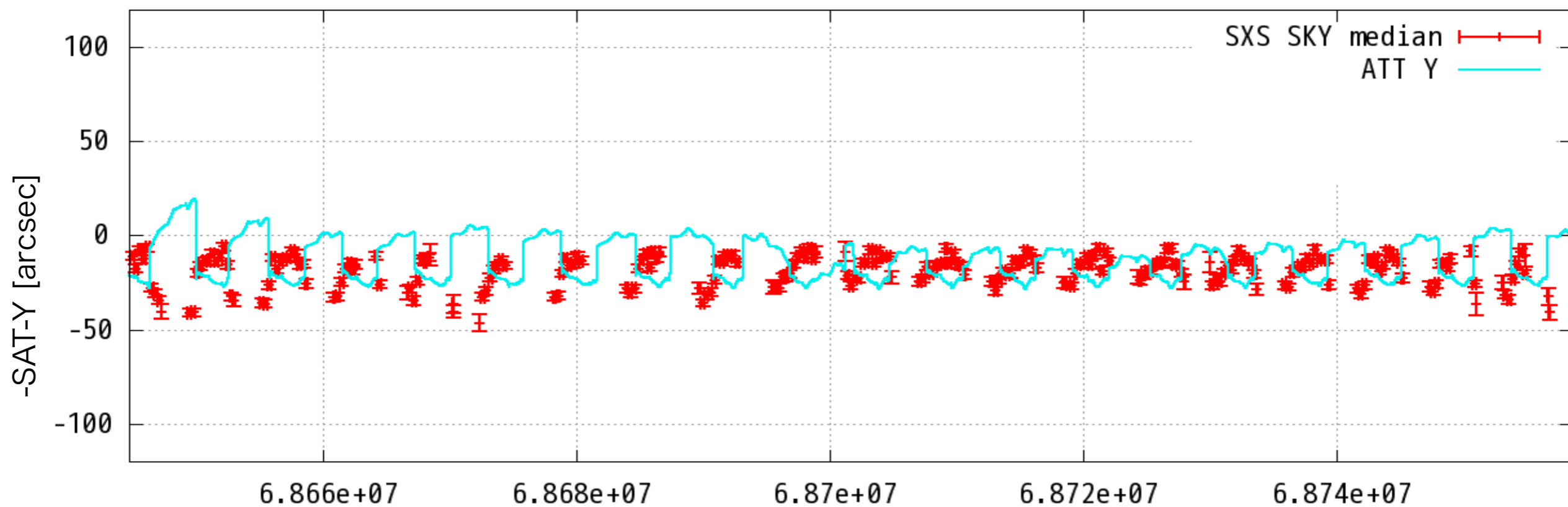
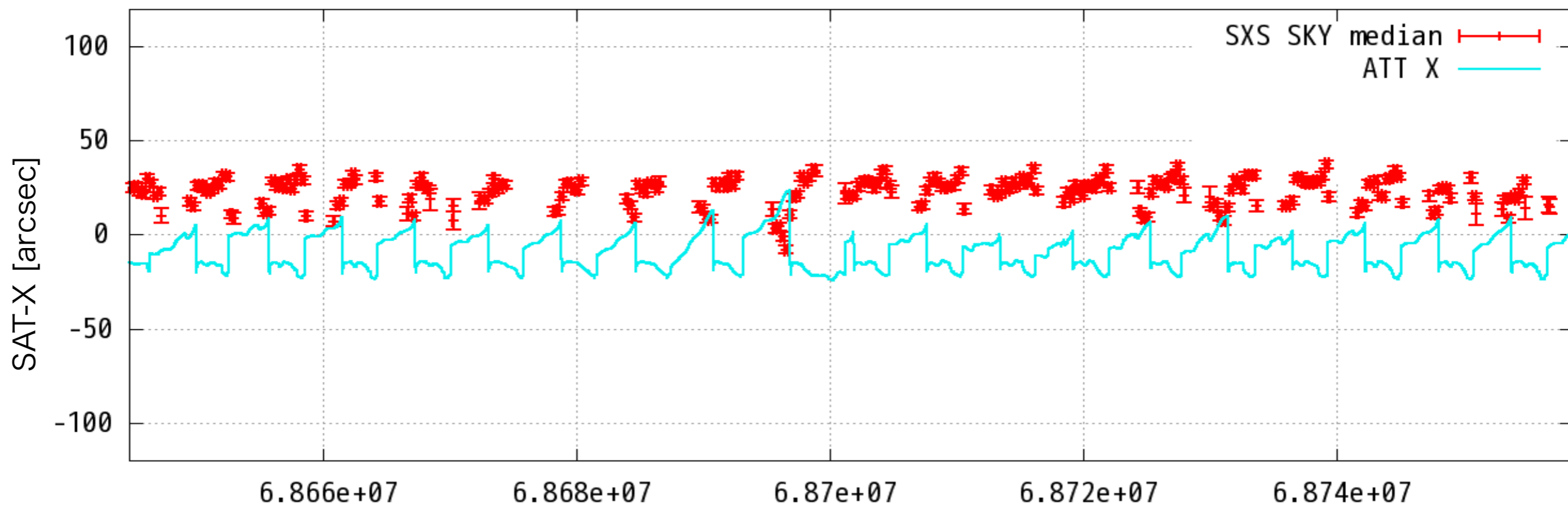
STT-ALL



100040040

Perseus SKY-X/SKY-Y (unit: arcsec)

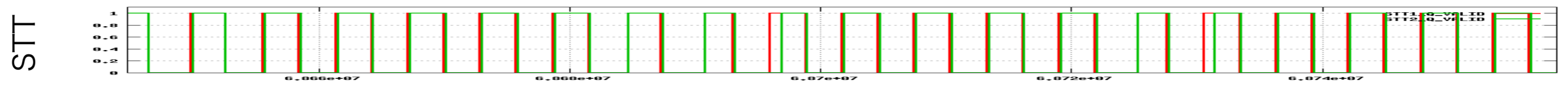
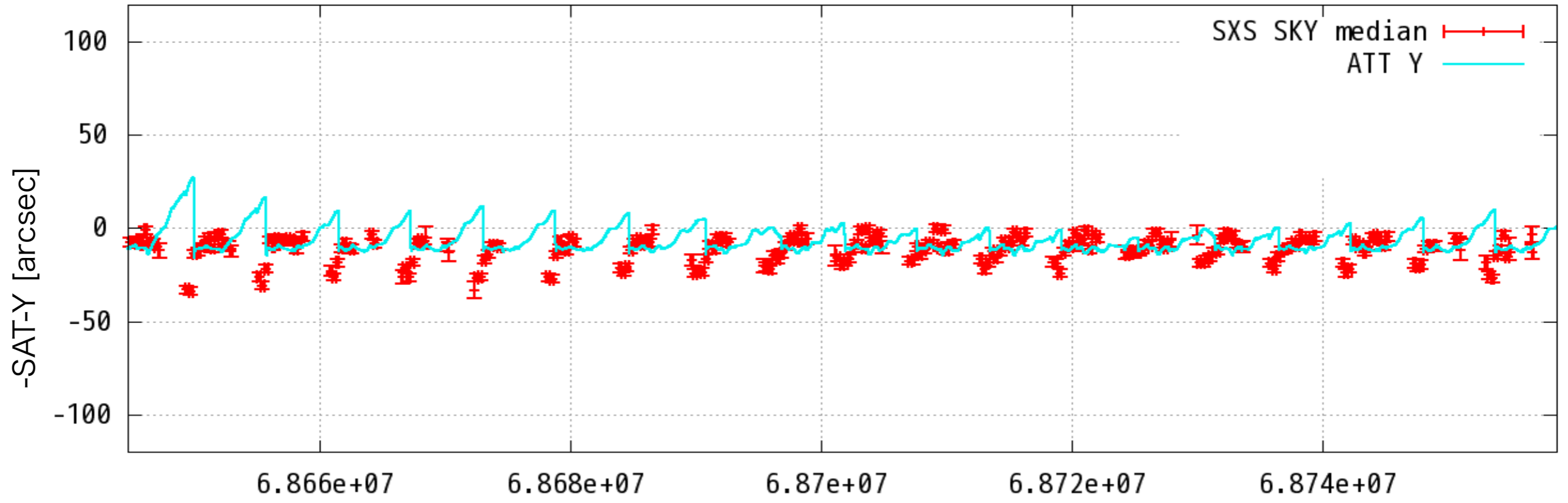
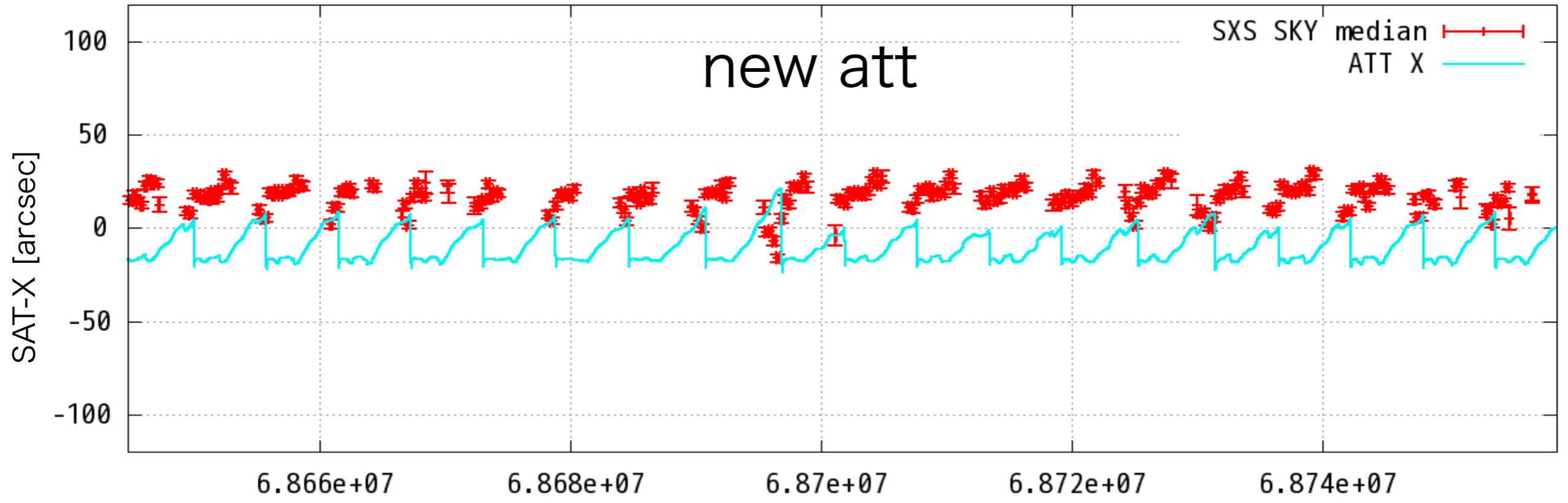
STT-ALL



100040040

Perseus SKY-X/SKY-Y (unit: arcsec)

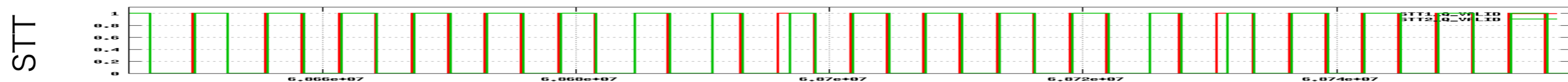
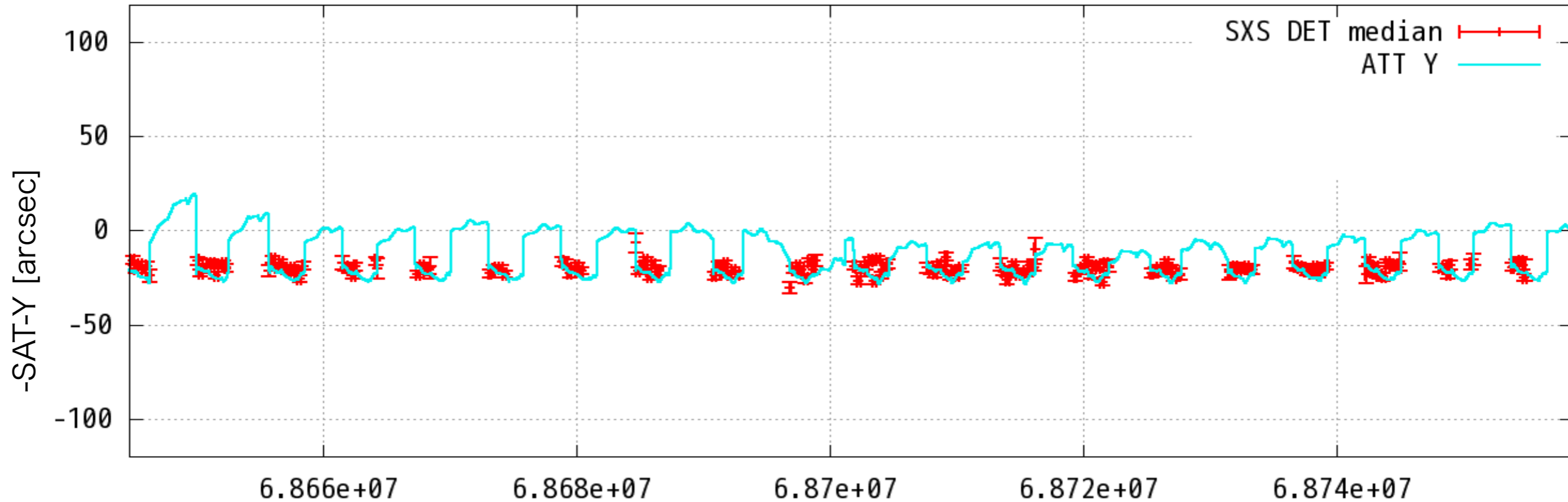
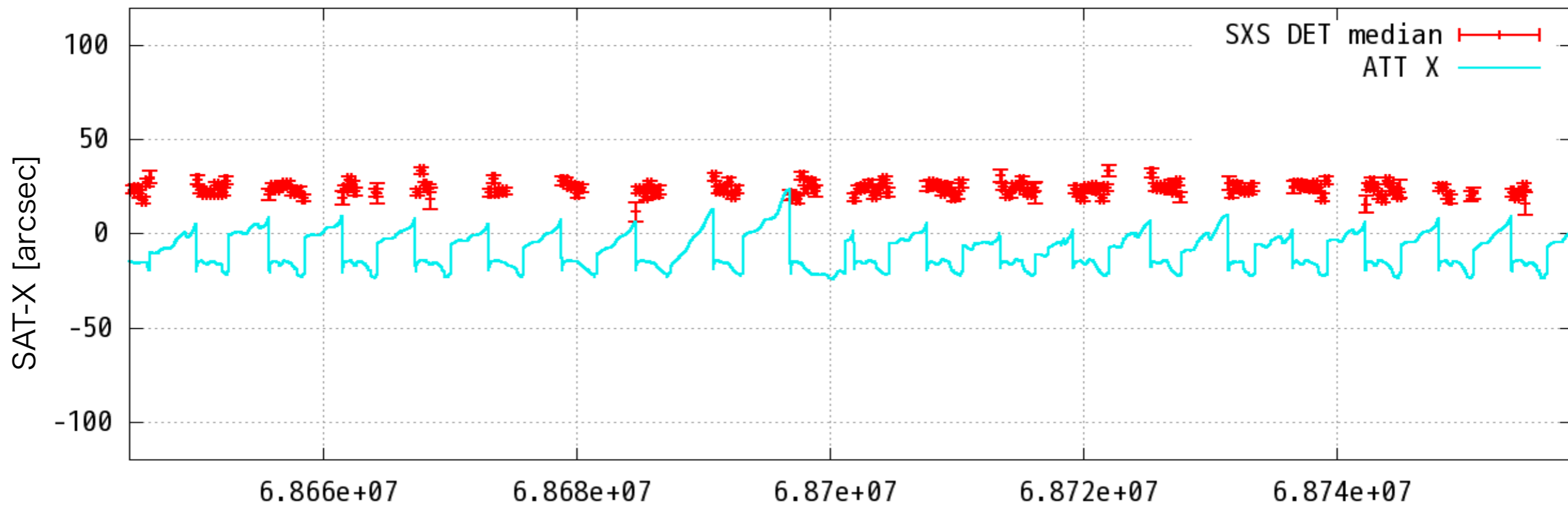
STT-ALL



100040040

Perseus DET-X/DET-Y (unit: arcsec)

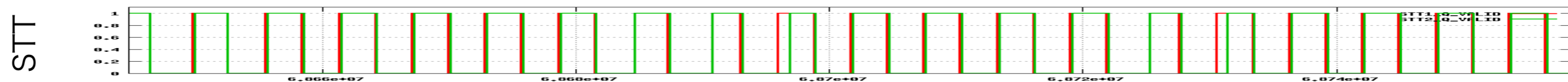
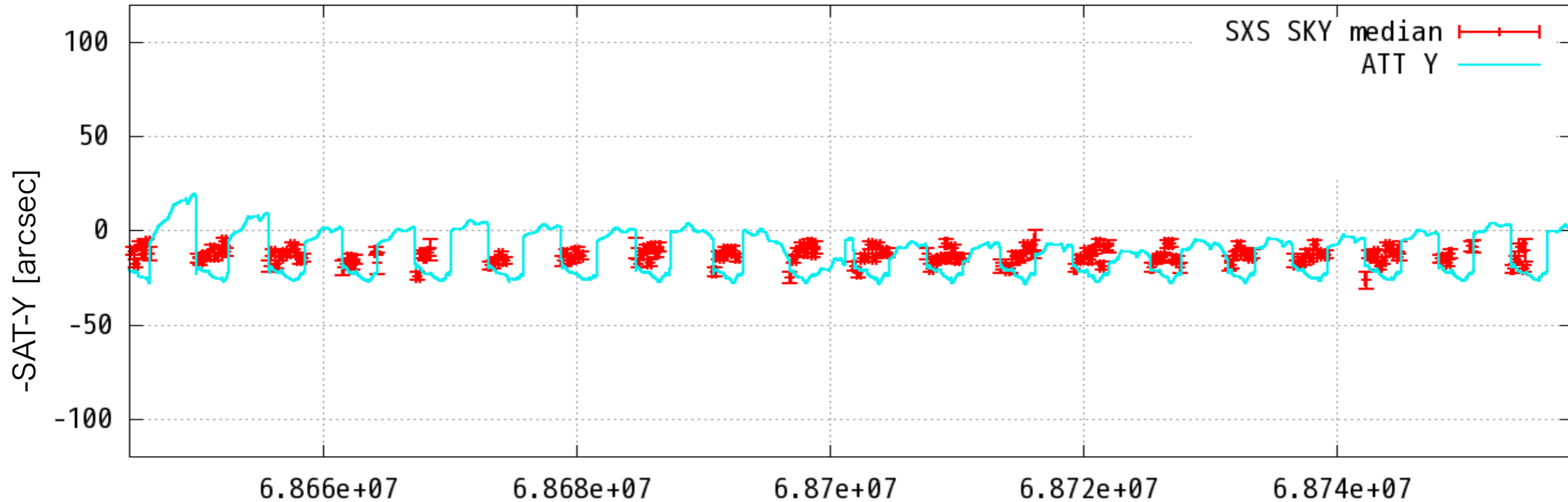
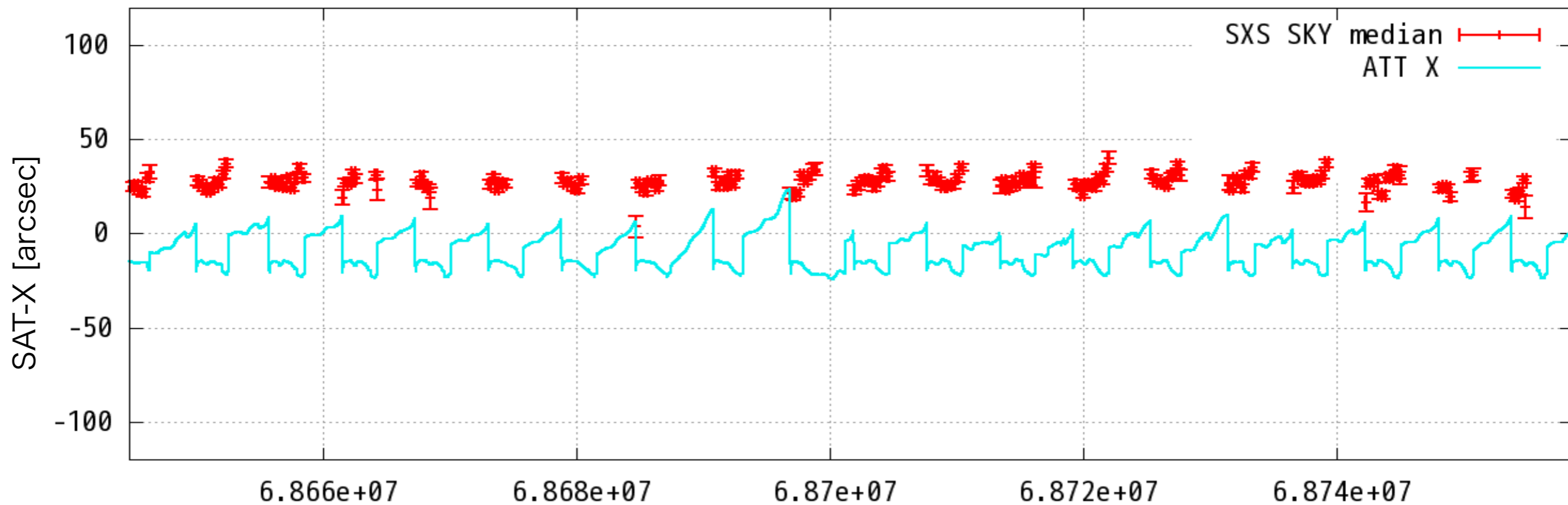
STT-CTL



100040040

Perseus SKY-X/SKY-Y (unit: arcsec)

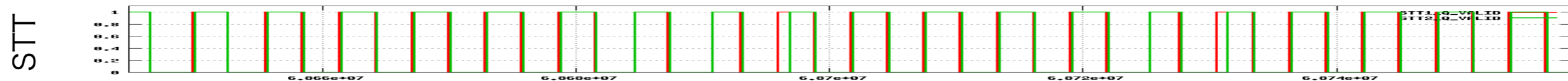
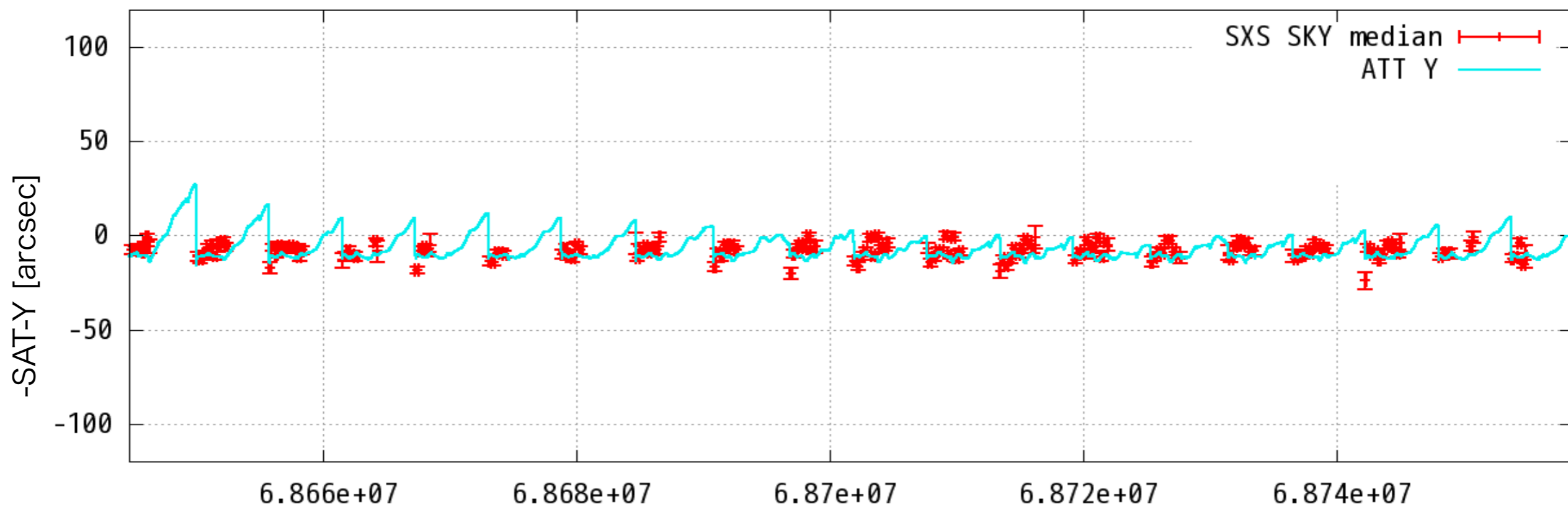
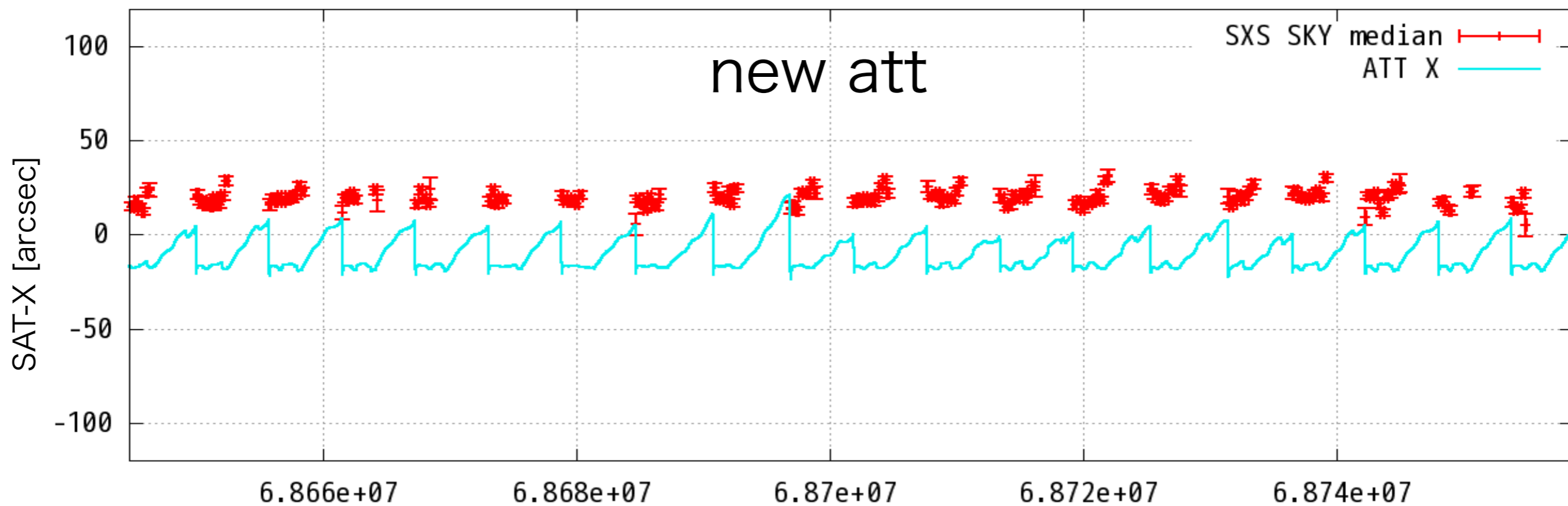
STT-CTL



100040040

Perseus SKY-X/SKY-Y (unit: arcsec)

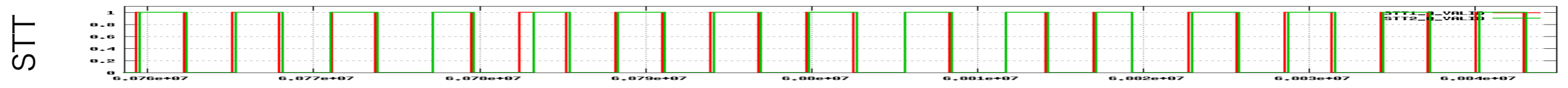
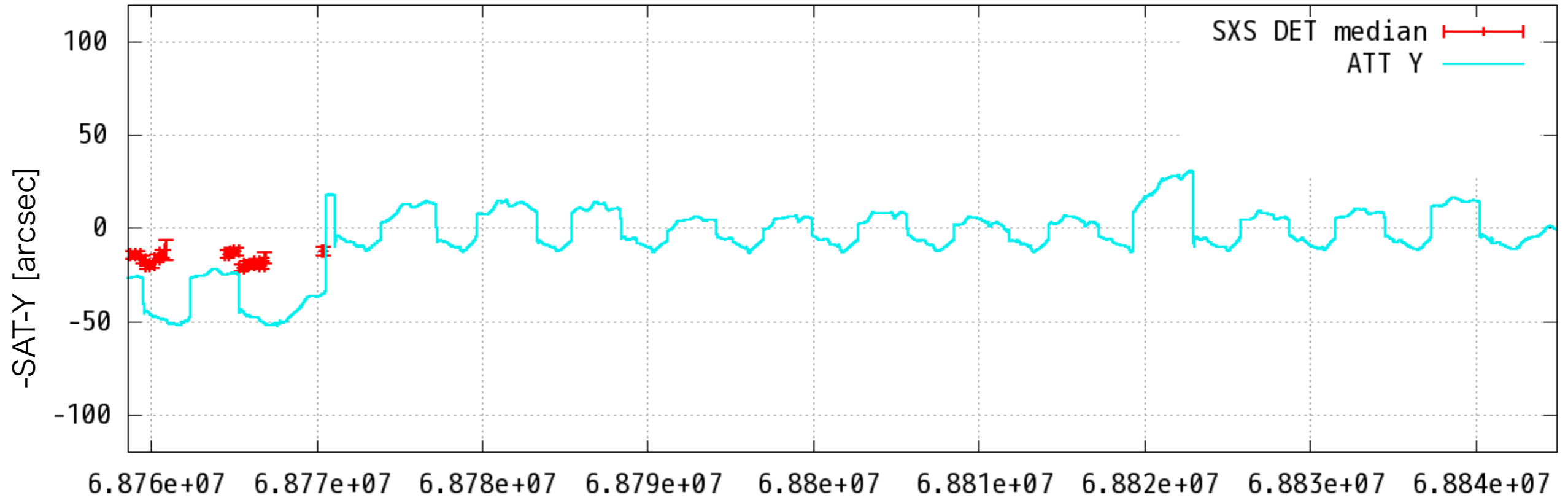
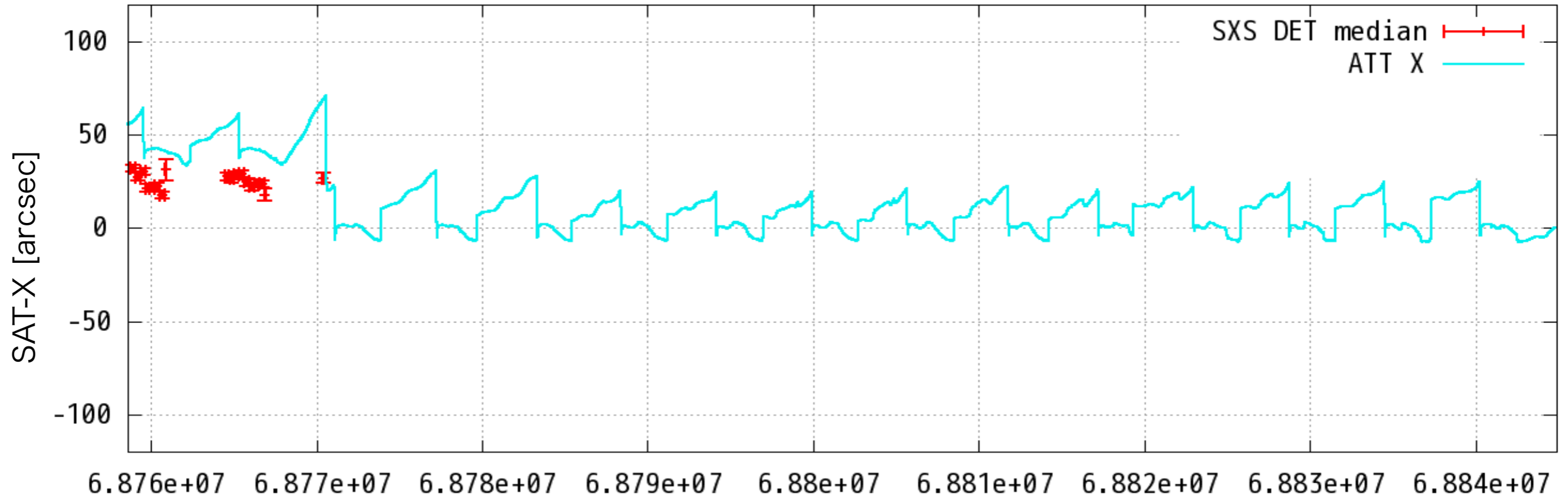
STT-CTL



100040050

Perseus DET-X/DET-Y (unit: arcsec)

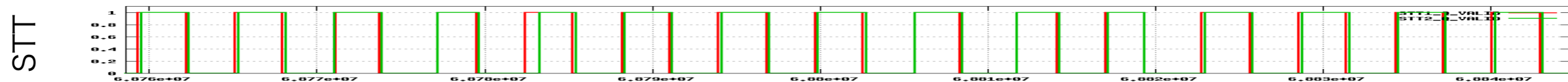
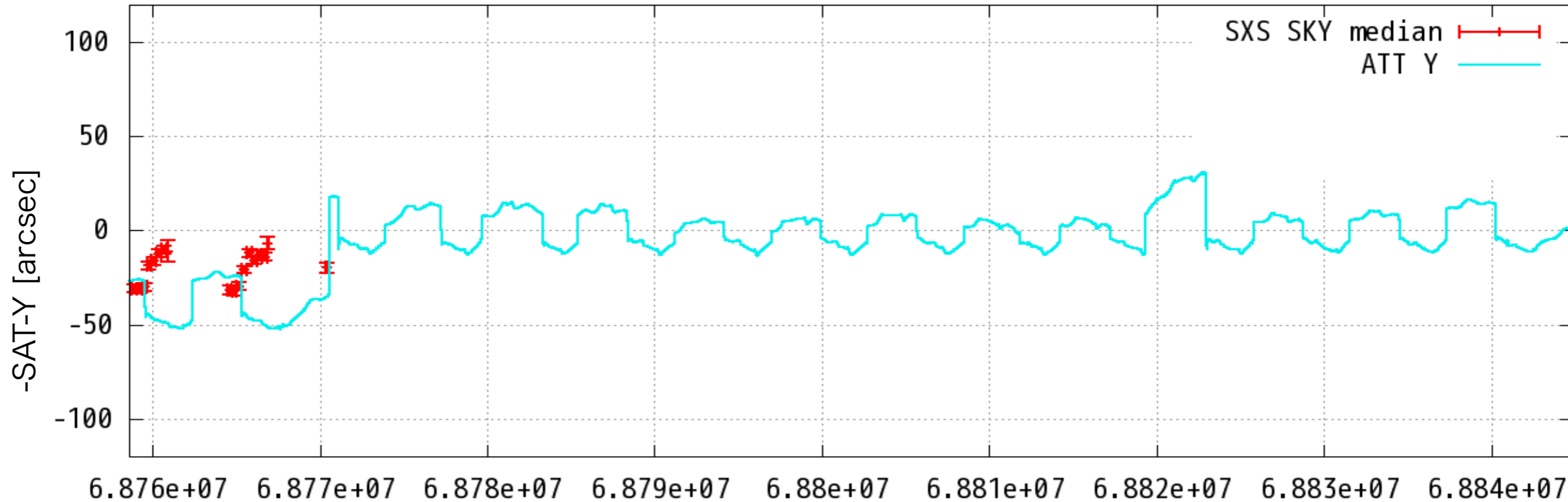
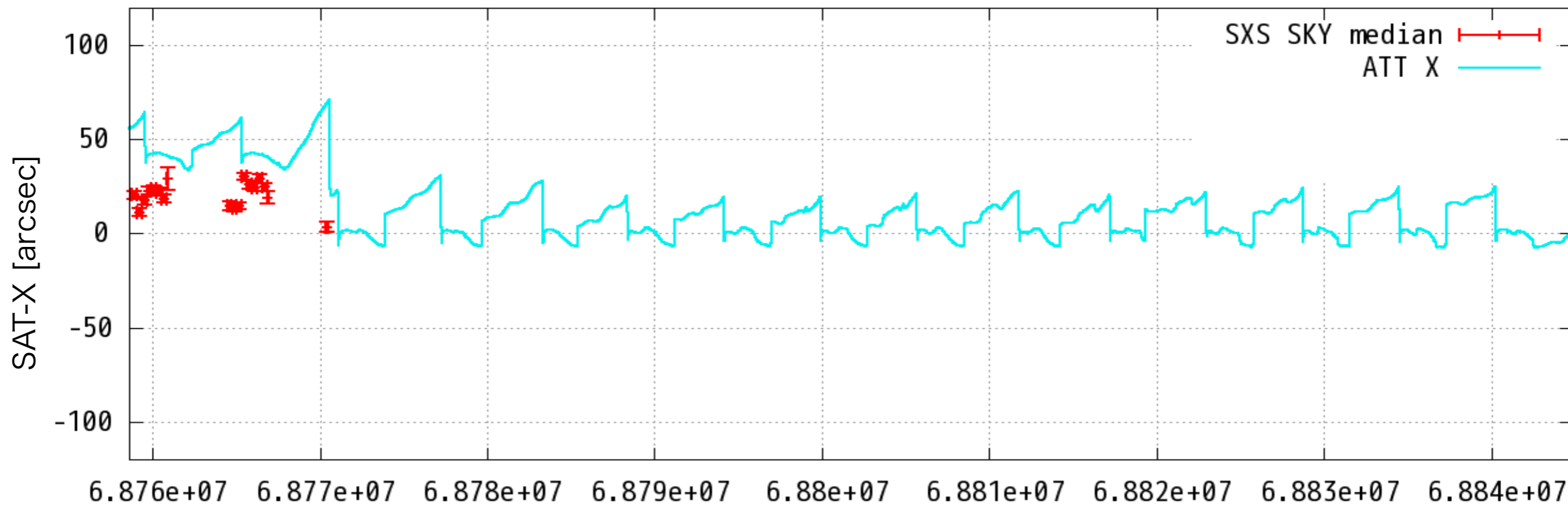
STT-ALL



100040050

Perseus SKY-X/SKY-Y (unit: arcsec)

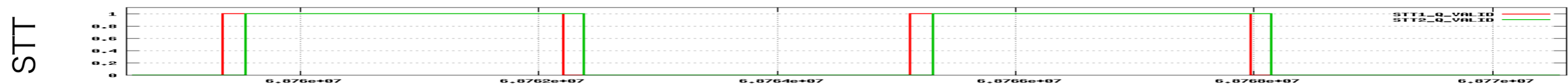
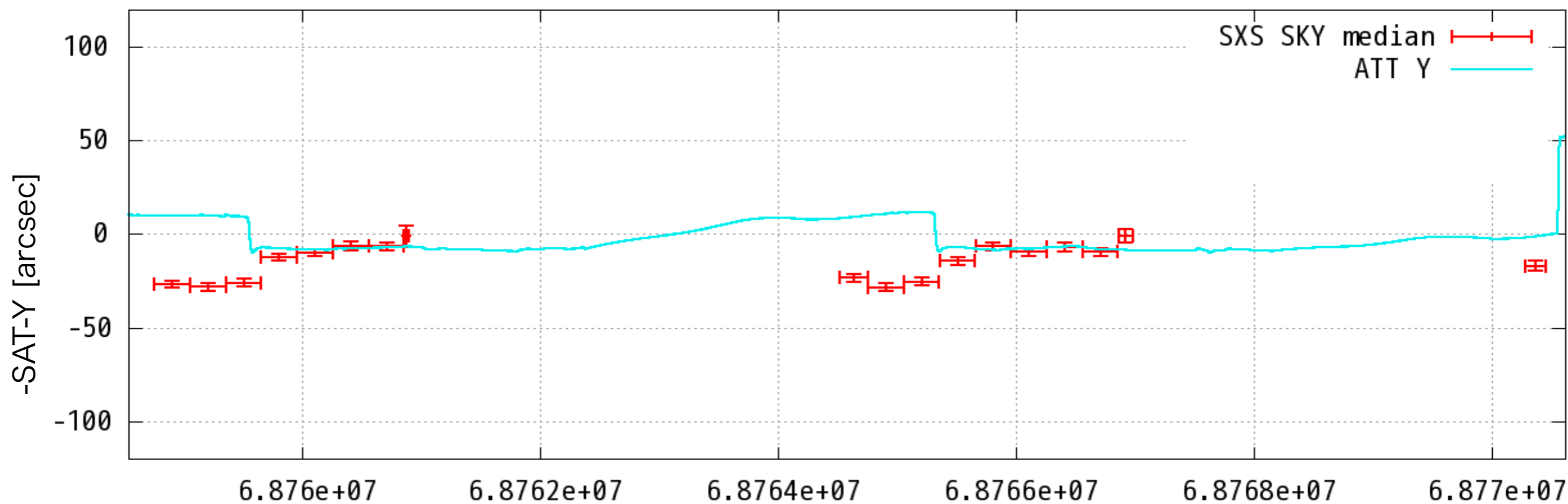
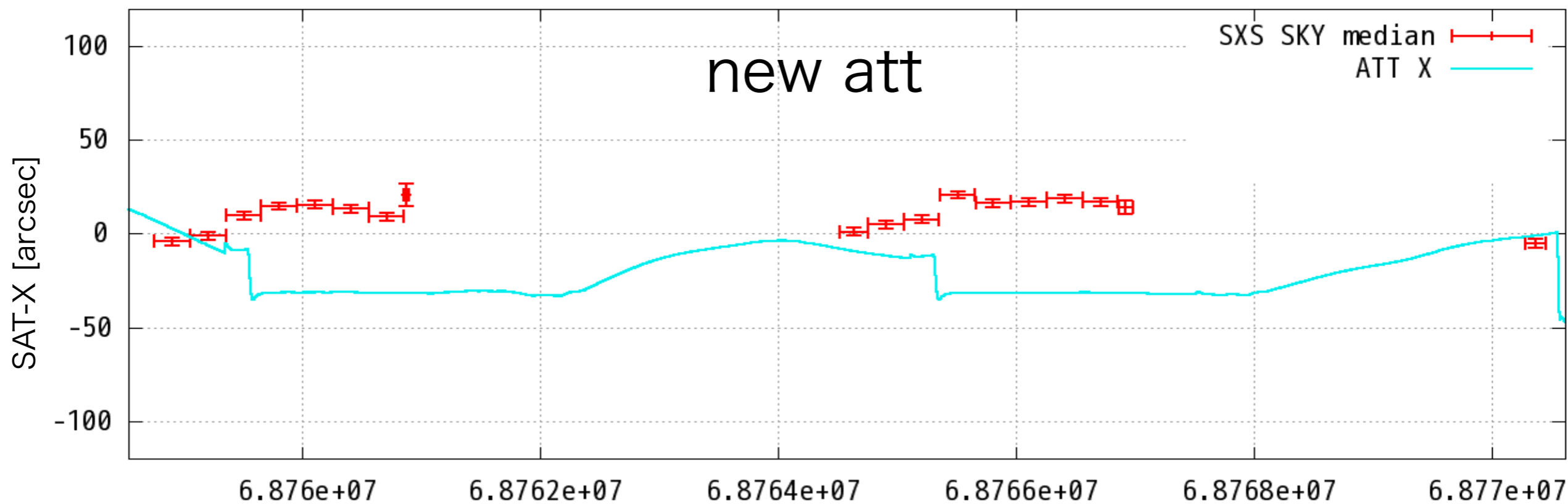
STT-ALL



100040050

Perseus SKY-X/SKY-Y (unit: arcsec)

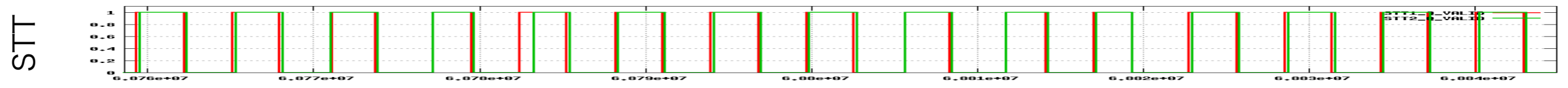
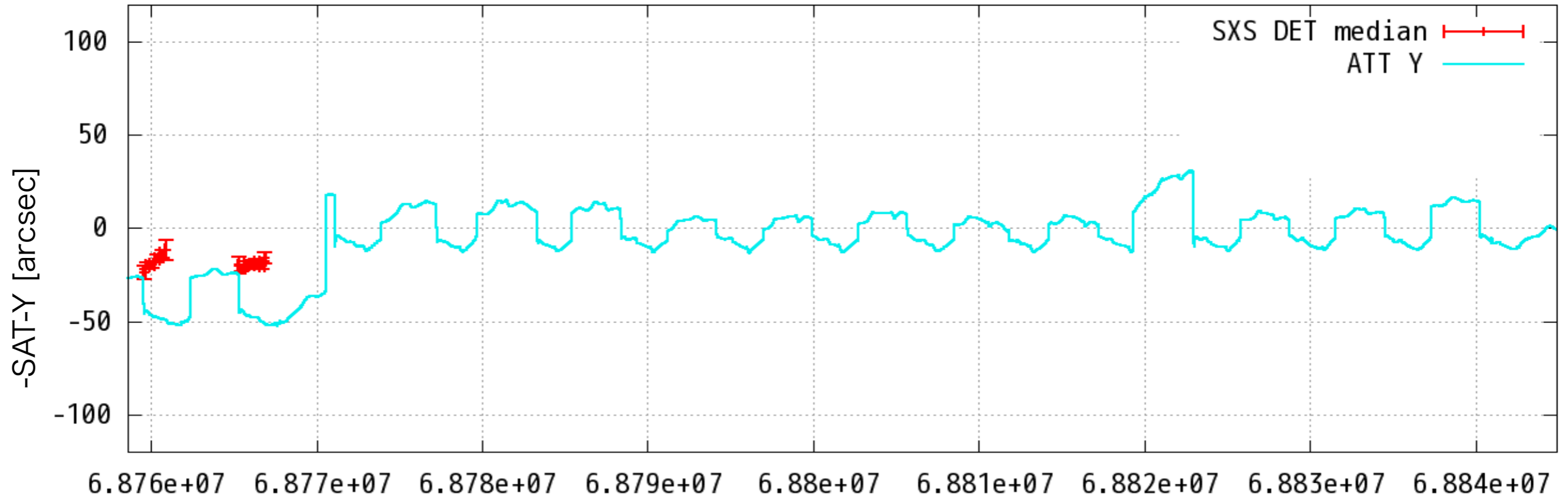
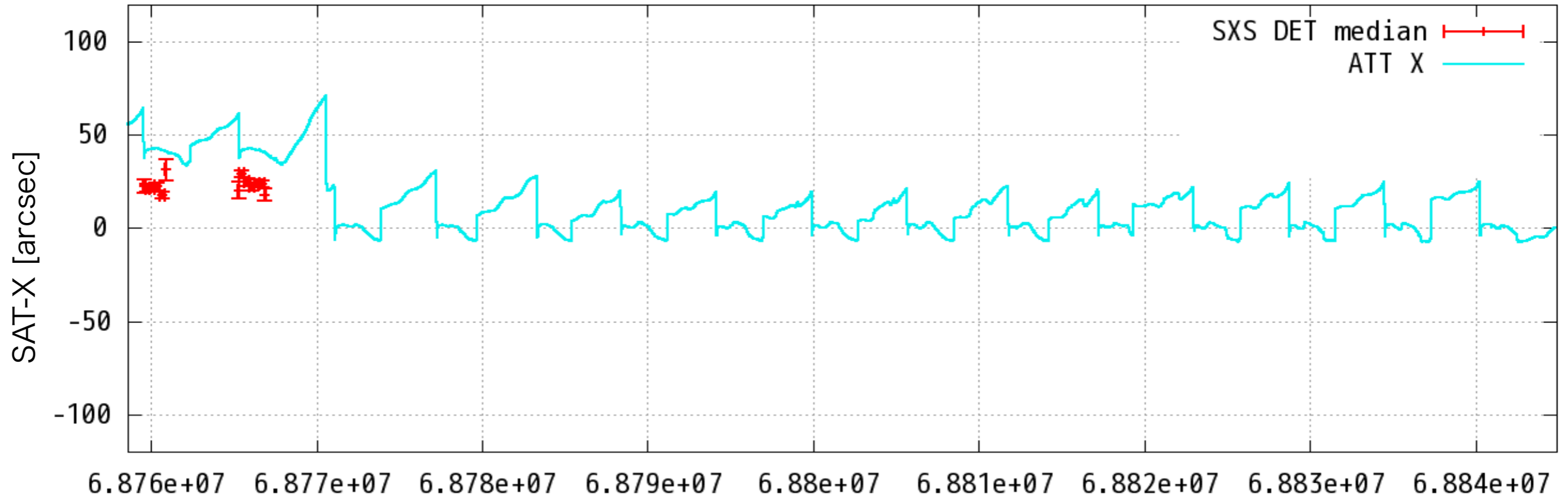
STT-ALL



100040050

Perseus DET-X/DET-Y (unit: arcsec)

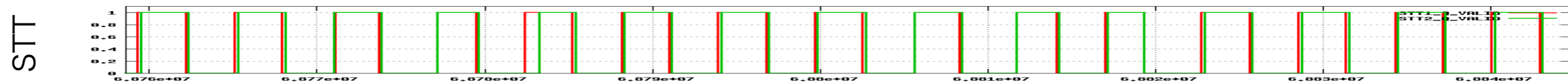
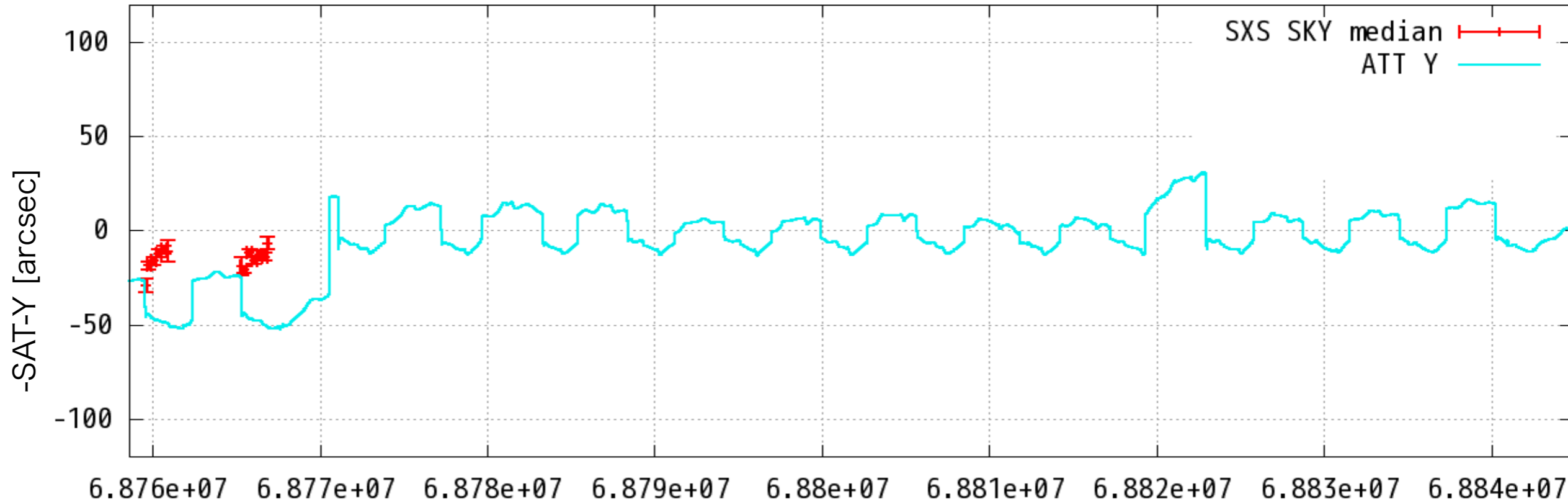
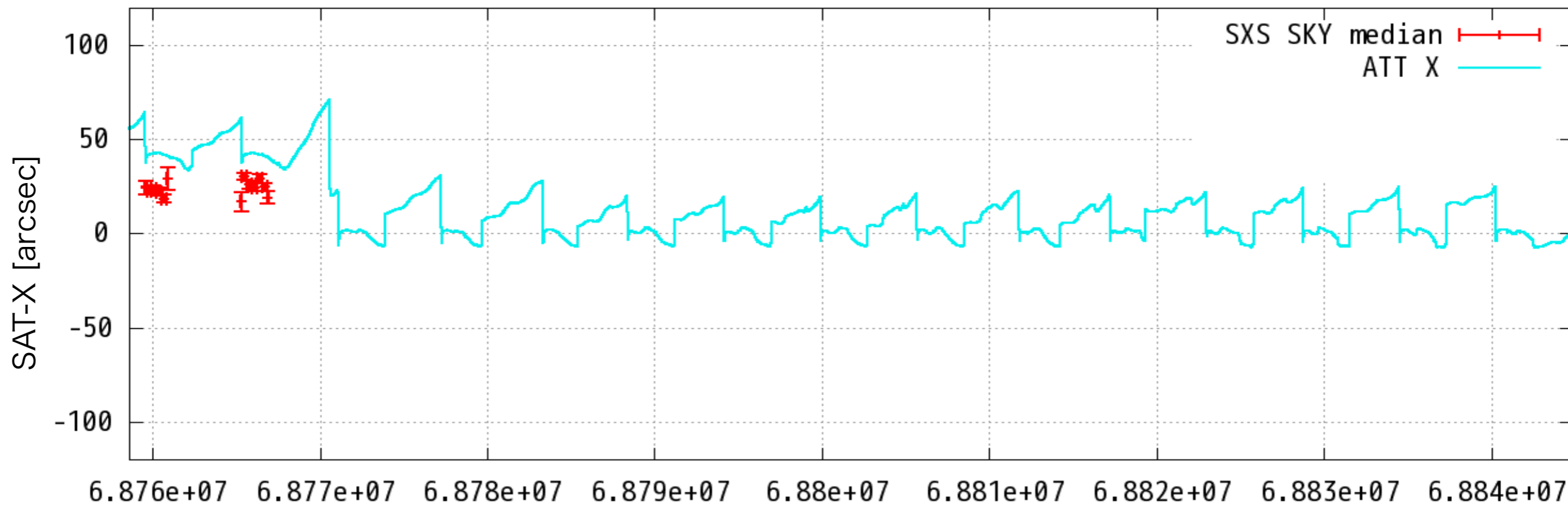
STT-CTL



100040050

Perseus SKY-X/SKY-Y (unit: arcsec)

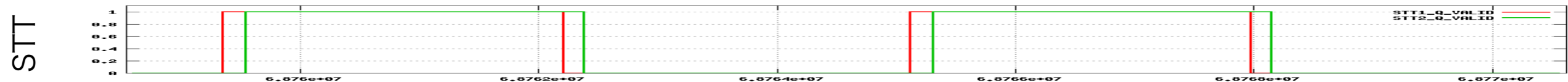
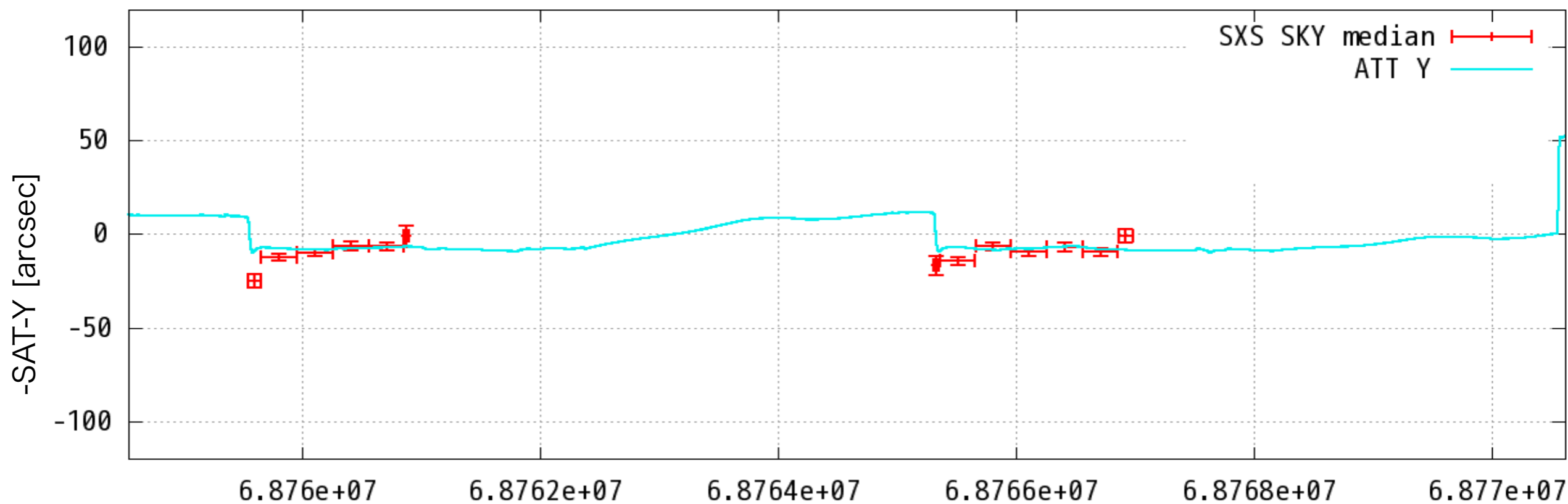
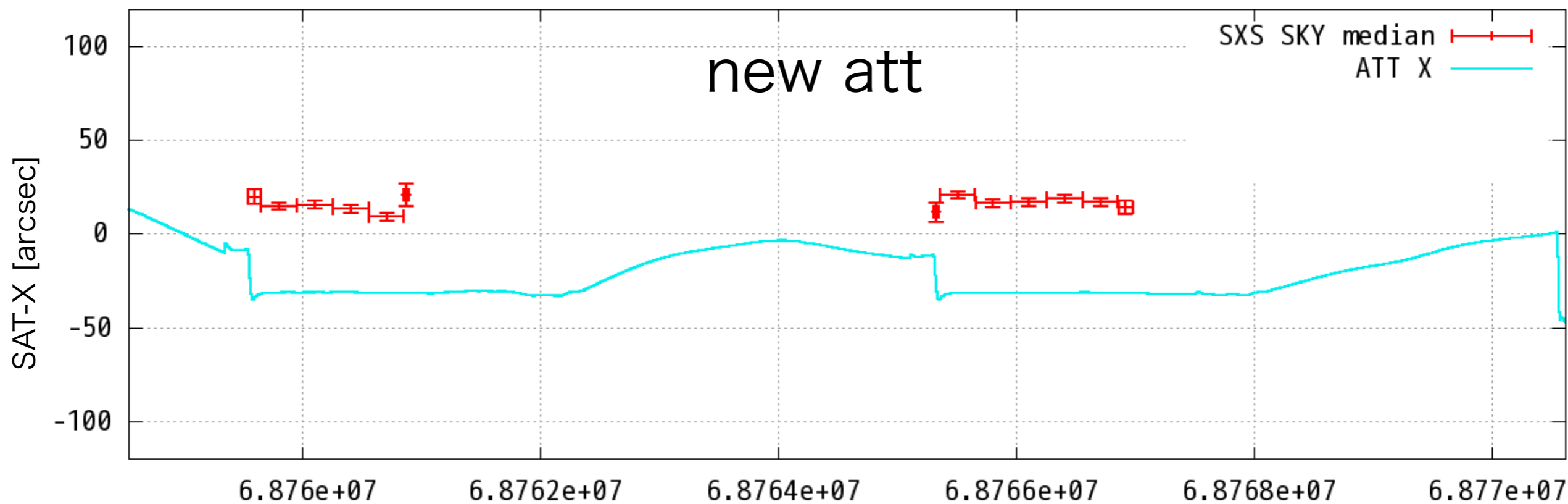
STT-CTL



100040050

Perseus SKY-X/SKY-Y (unit: arcsec)

STT-CTL

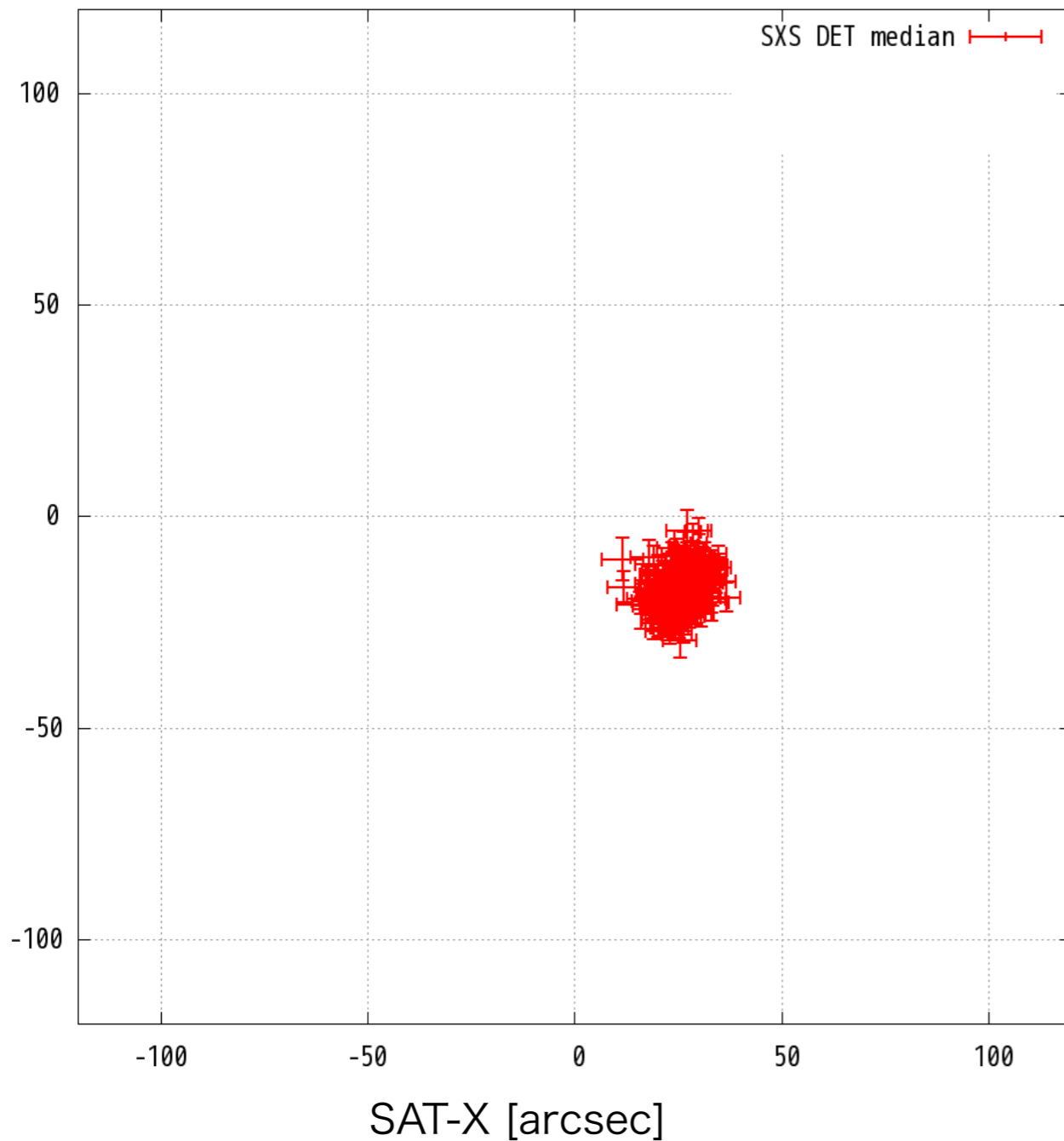


Perseus (STT-ALL)

seq: 100040030, 40, 50

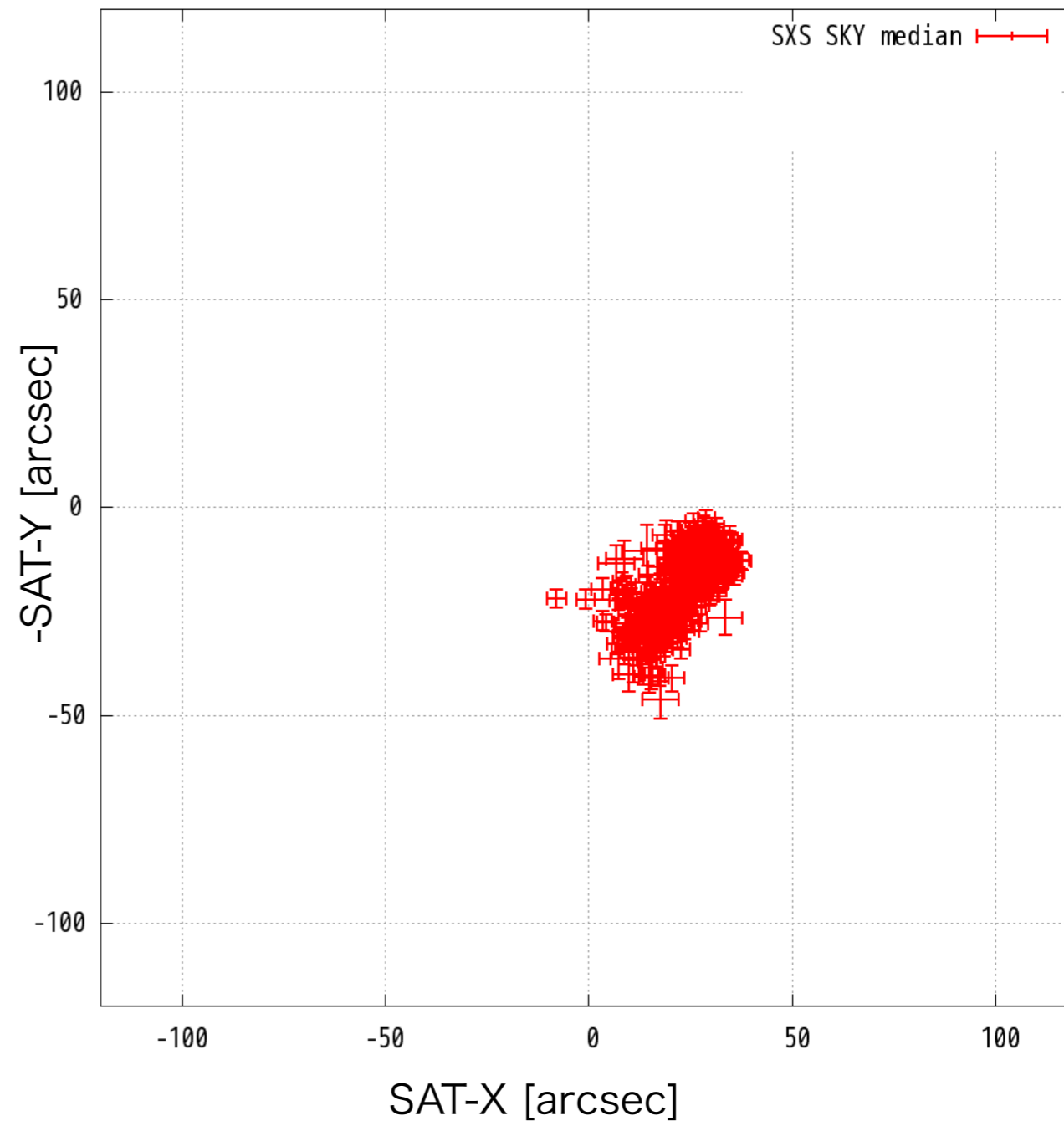
DET

Perseus DET-X/DET-Y (unit: arcsec)



SKY

Perseus SKY-X/SKY-Y (unit: arcsec)

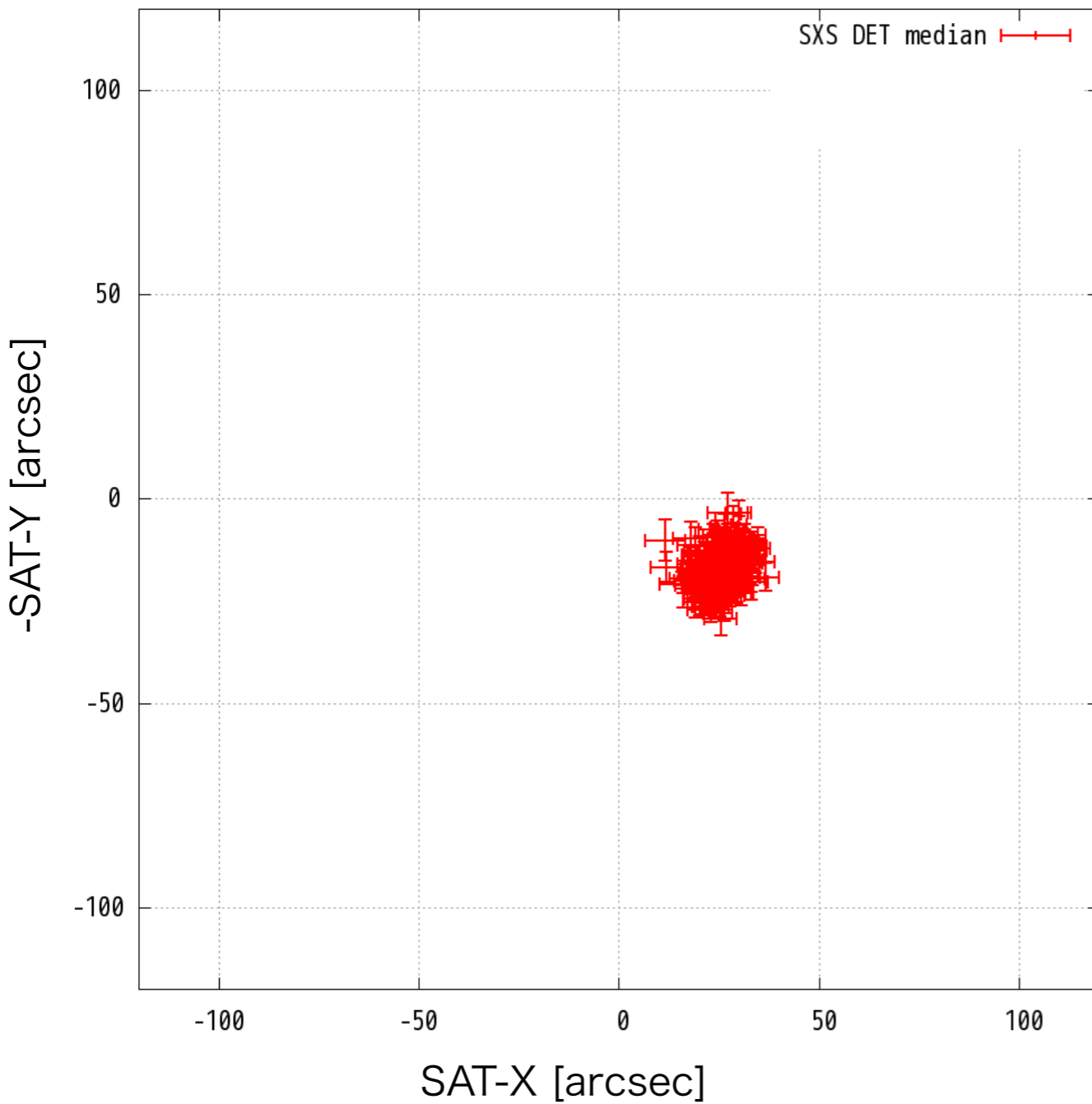


Perseus (STT-ALL)

seq: 100040030, 40, 50

DET

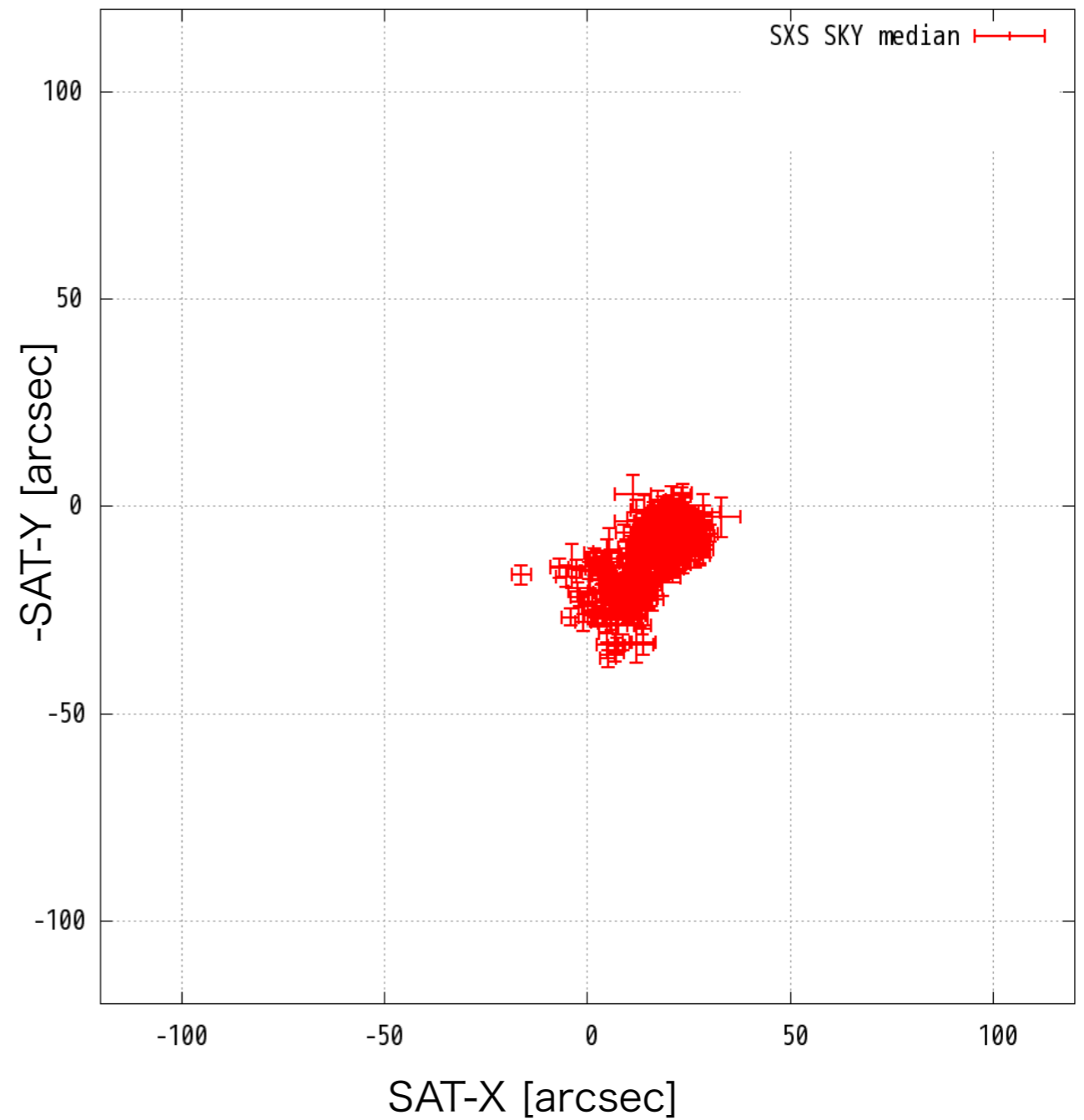
Perseus DET-X/DET-Y (unit: arcsec)



SKY

new att

Perseus SKY-X/SKY-Y (unit: arcsec)

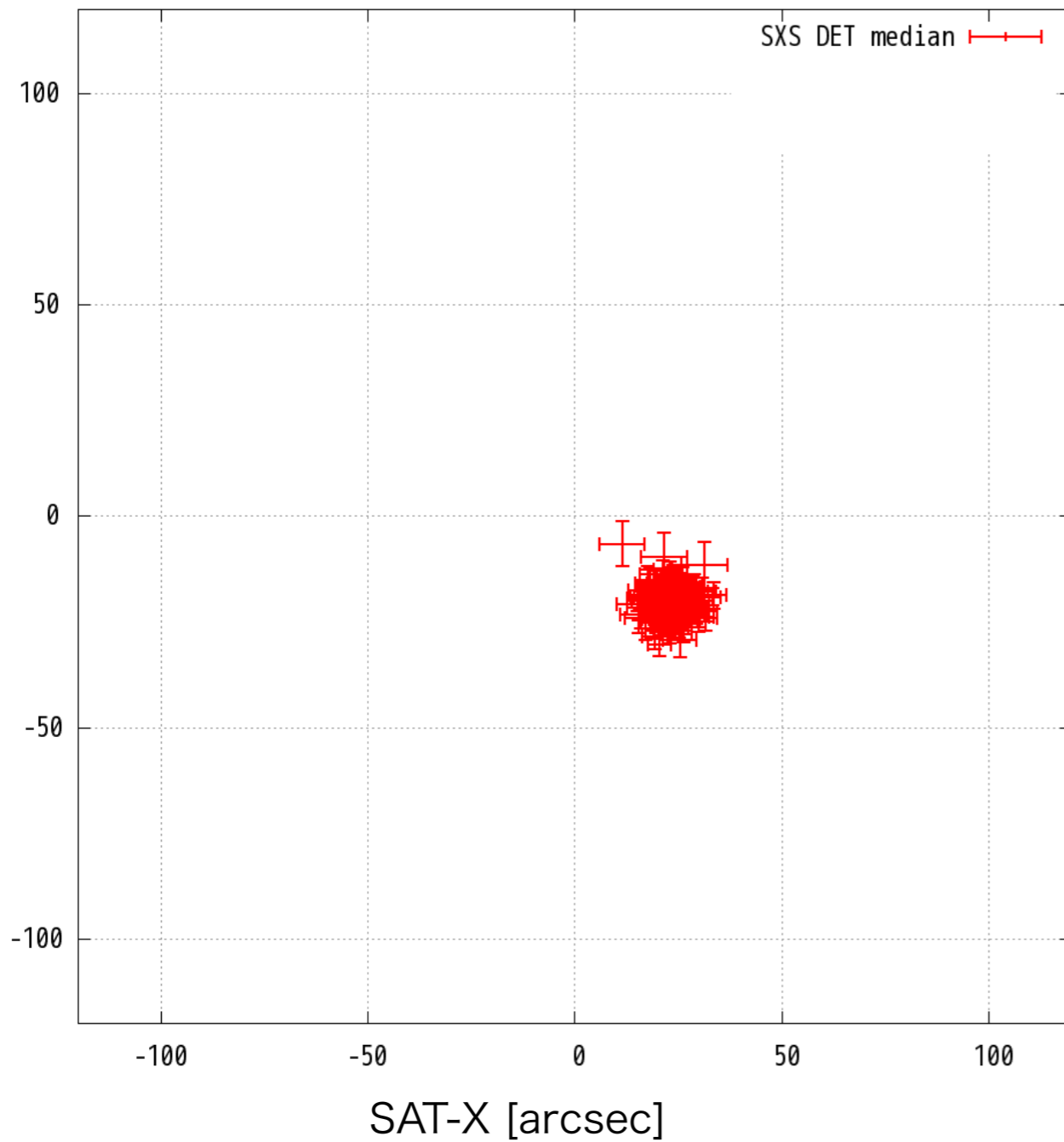


Perseus (STT-CTL)

seq: 100040030, 40, 50

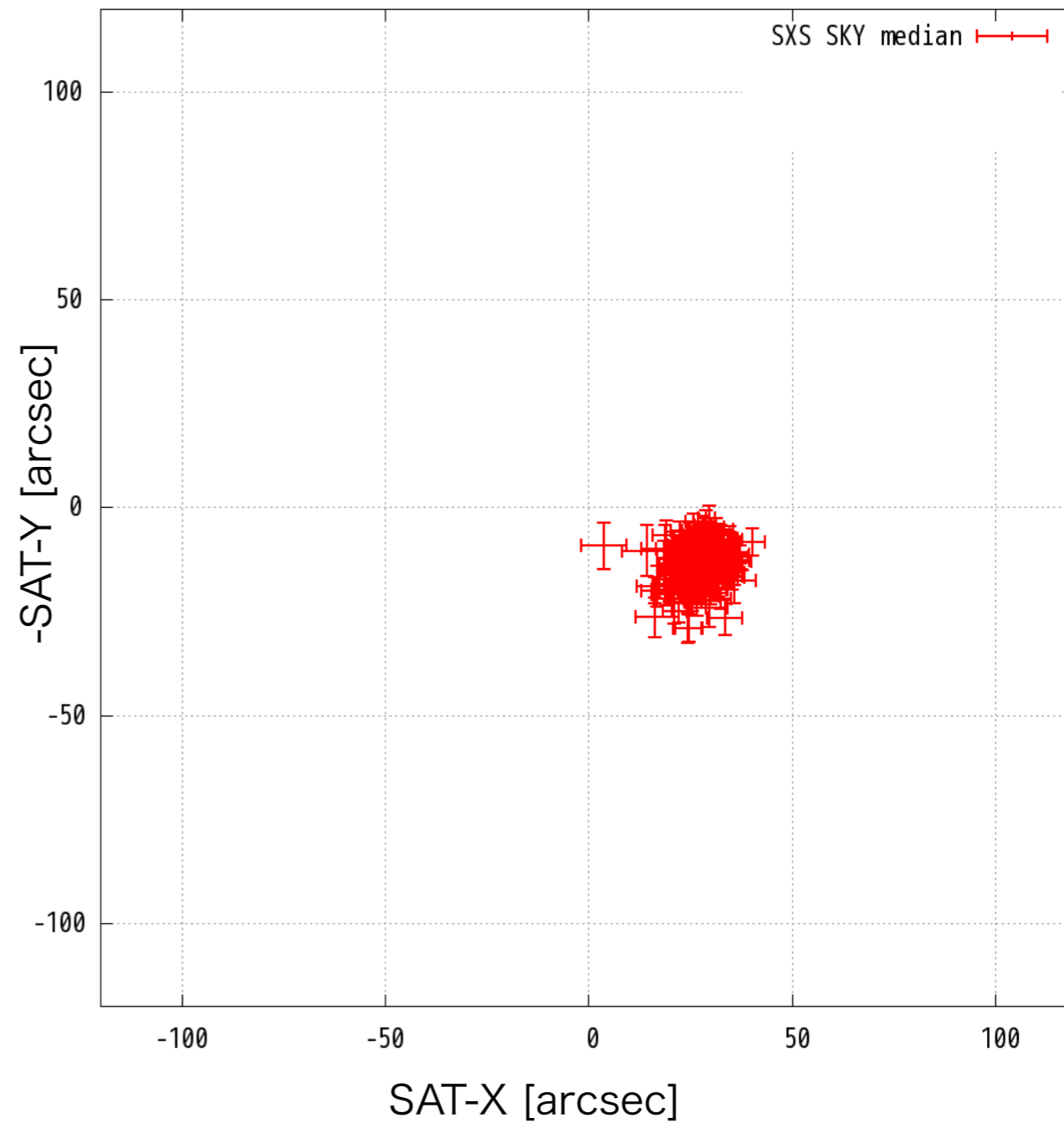
DET

Perseus DET-X/DET-Y (unit: arcsec)



SKY

Perseus SKY-X/SKY-Y (unit: arcsec)

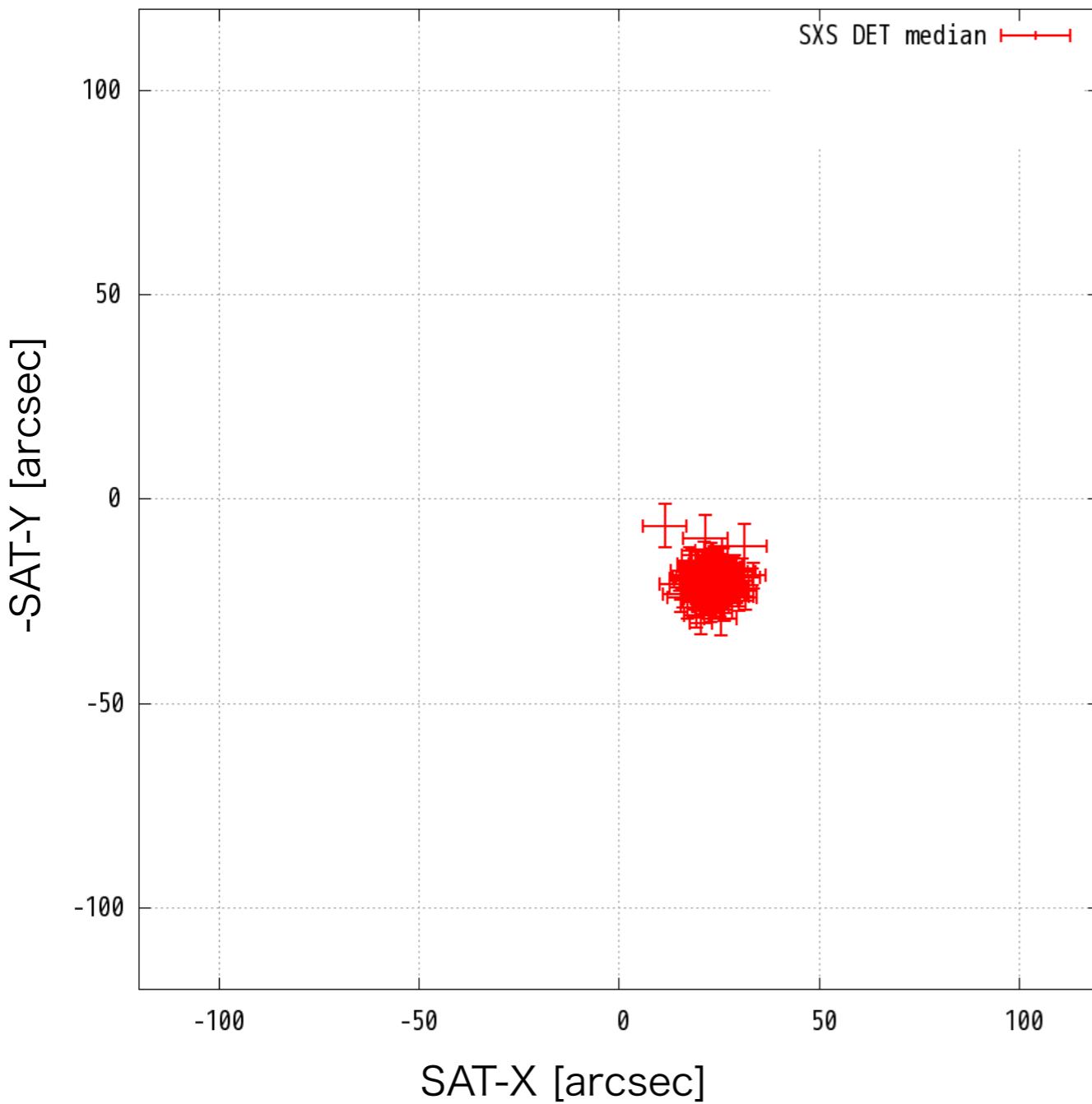


Perseus (STT-CTL)

seq: 100040030, 40, 50

DET

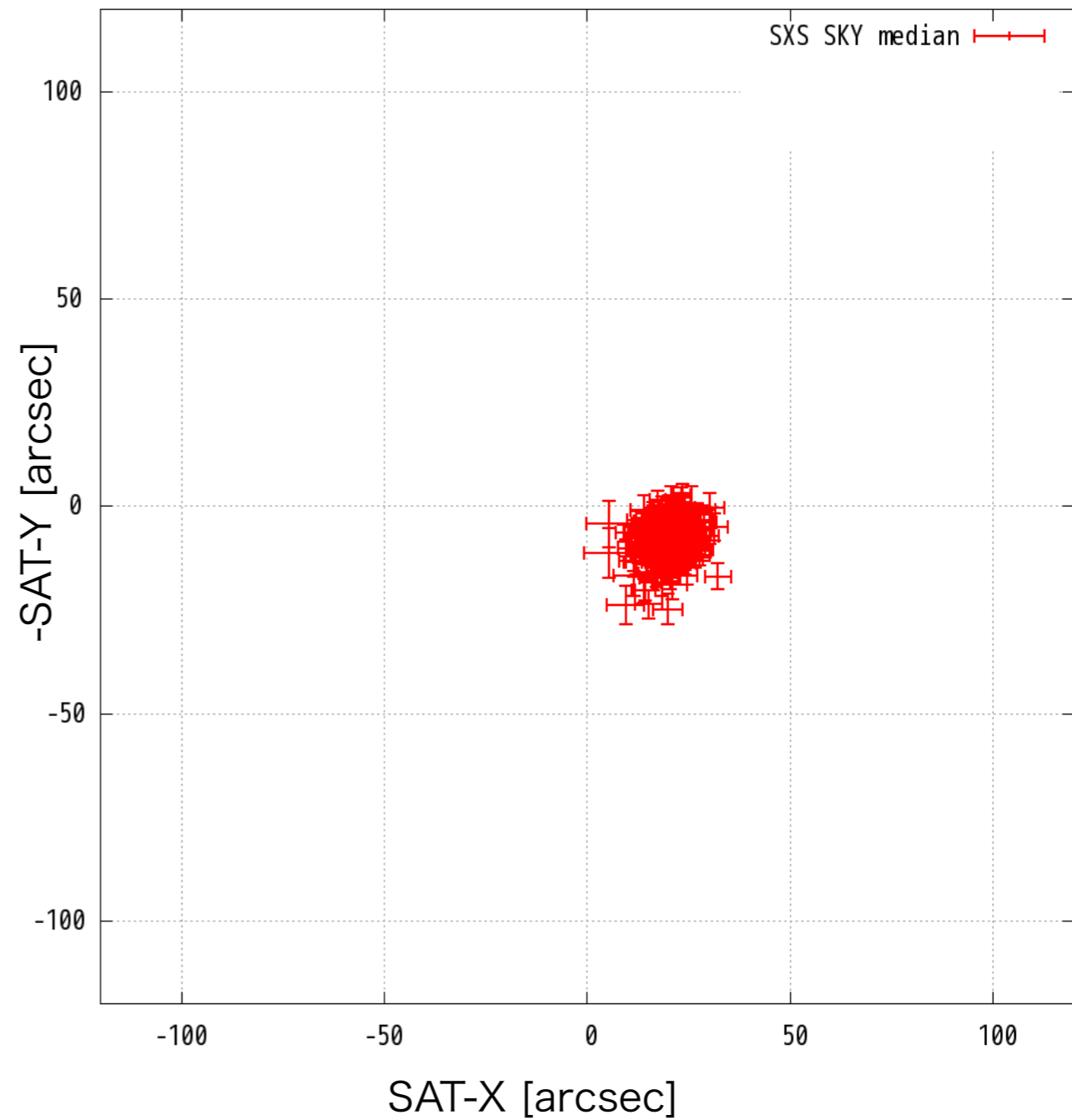
Perseus DET-X/DET-Y (unit: arcsec)



SKY

new att

Perseus SKY-X/SKY-Y (unit: arcsec)



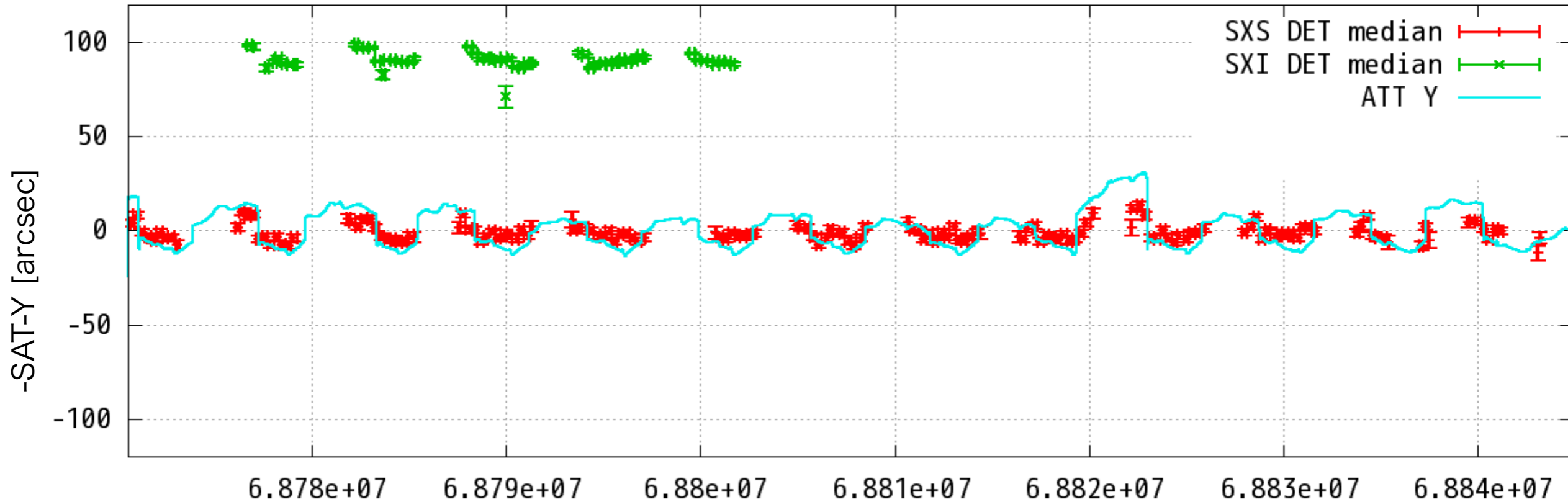
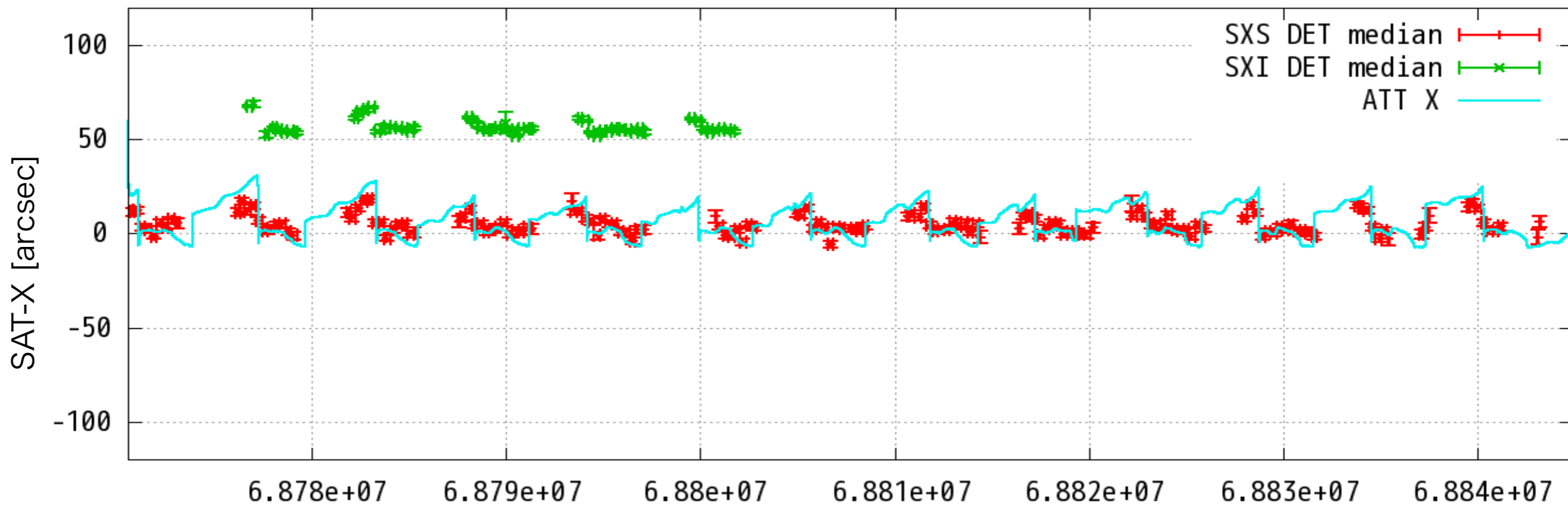
Perseus_adjustment

100040060

100040060

Perseus_adjustment DET-X/DET-Y (unit: arcsec)

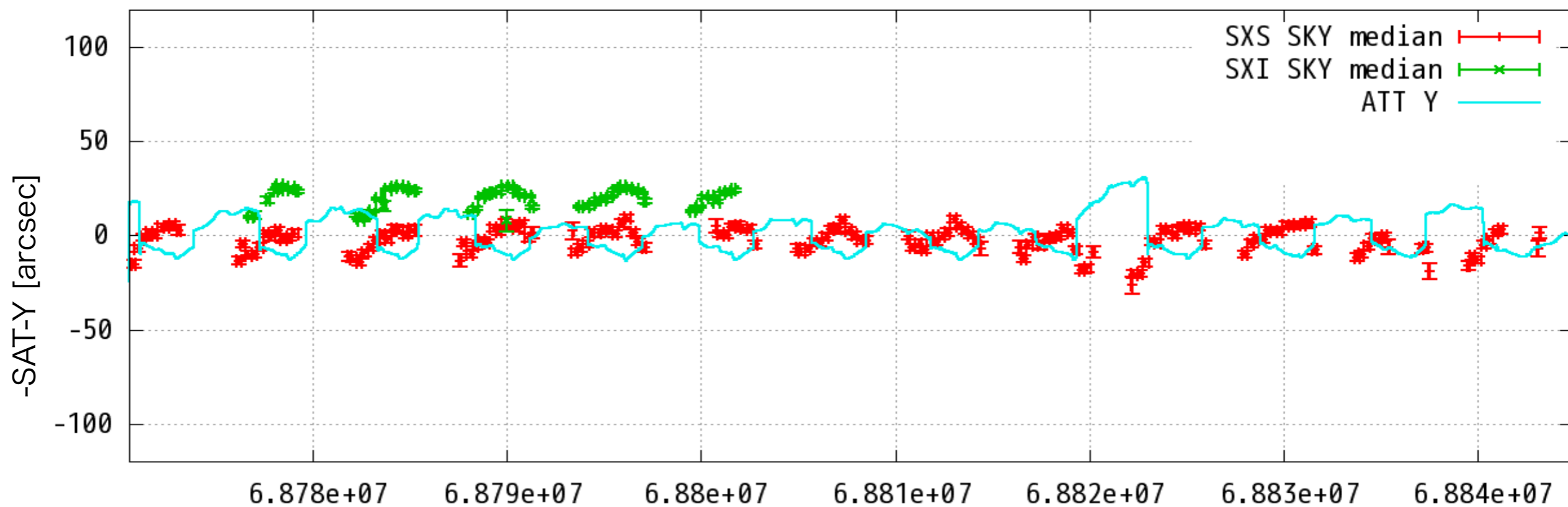
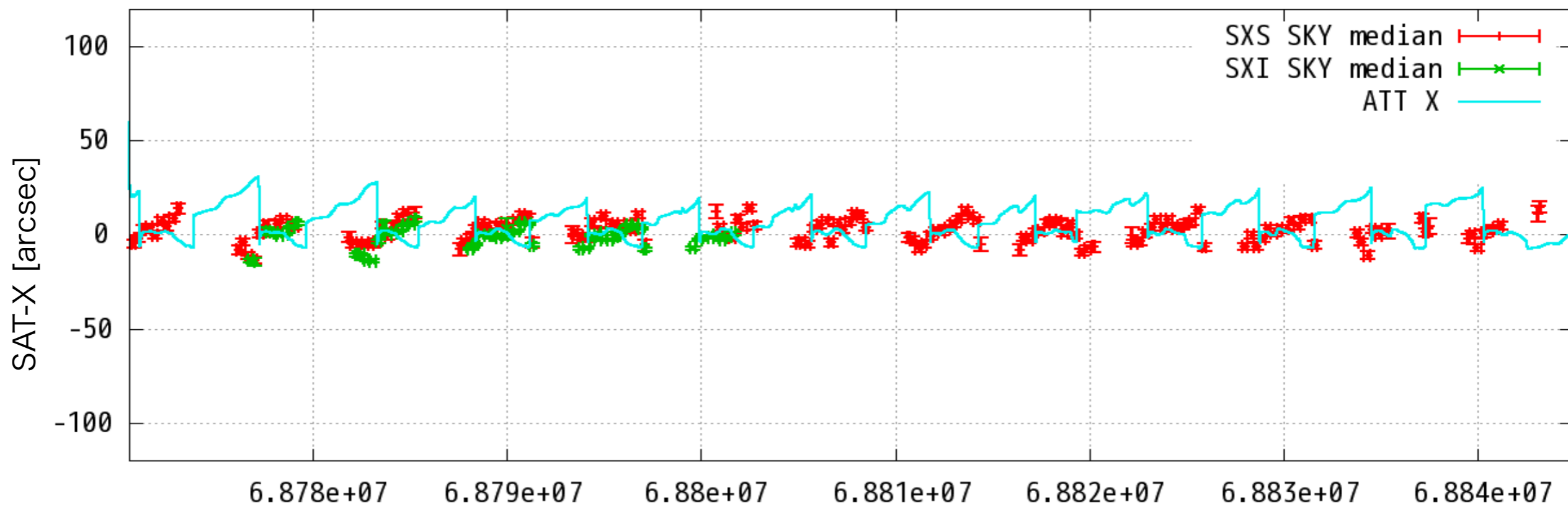
STT-ALL



100040060

Perseus_adjustment SKY-X/SKY-Y (unit: arcsec)

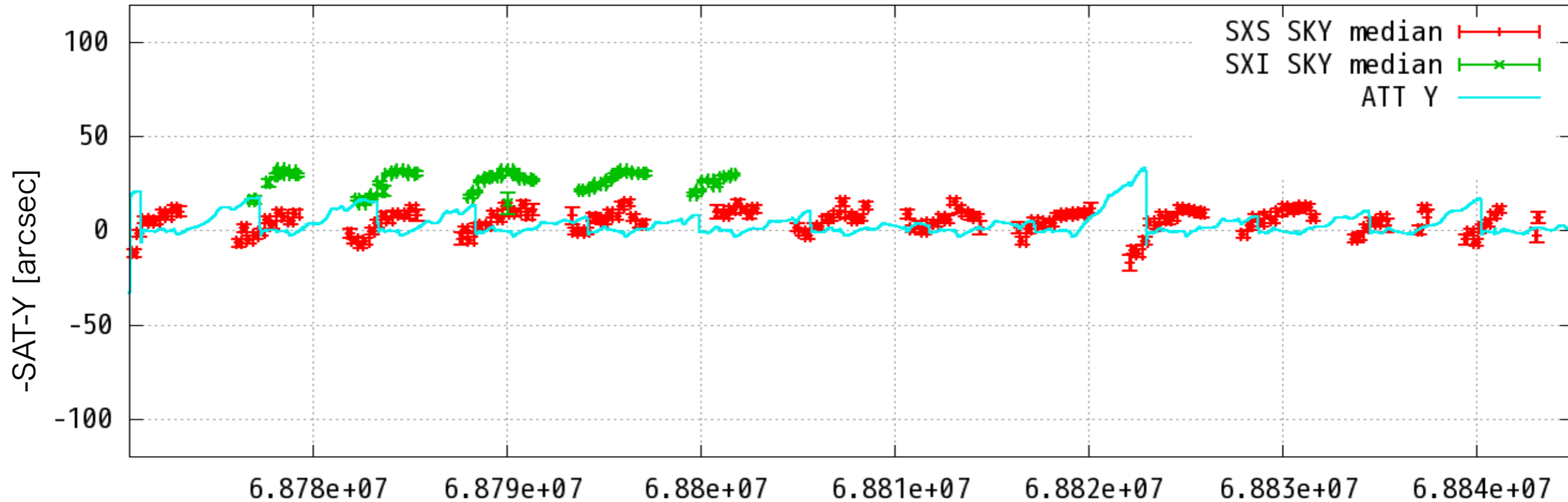
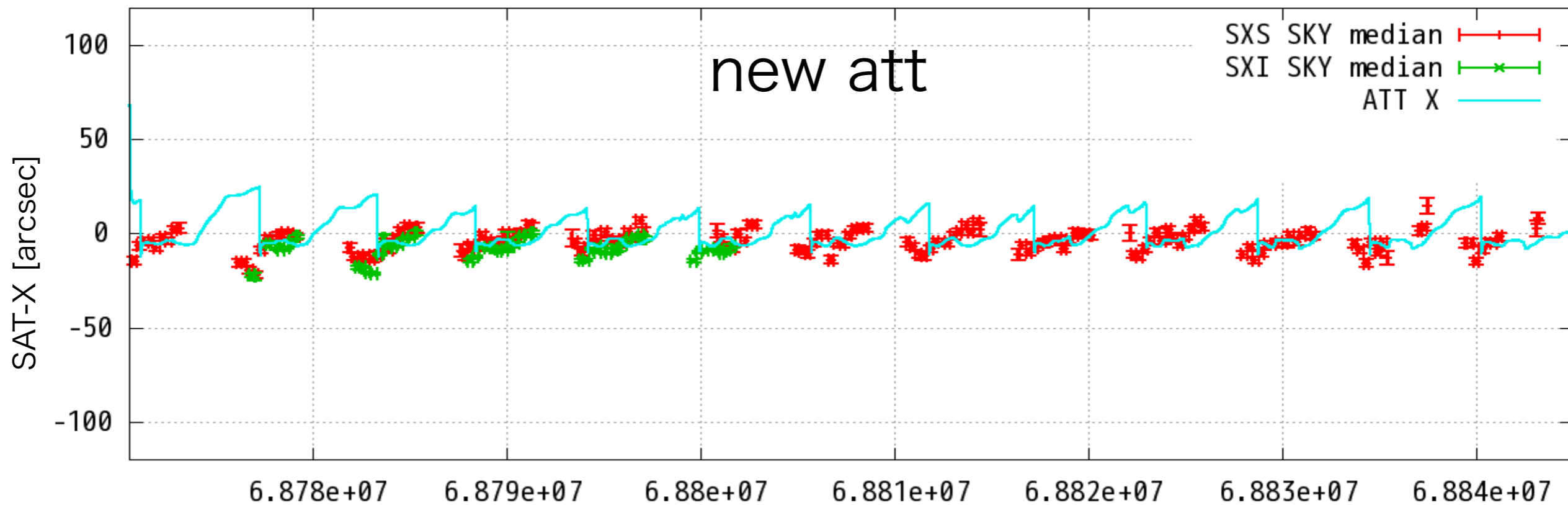
STT-ALL



100040060

Perseus_adjustment SKY-X/SKY-Y (unit: arcsec)

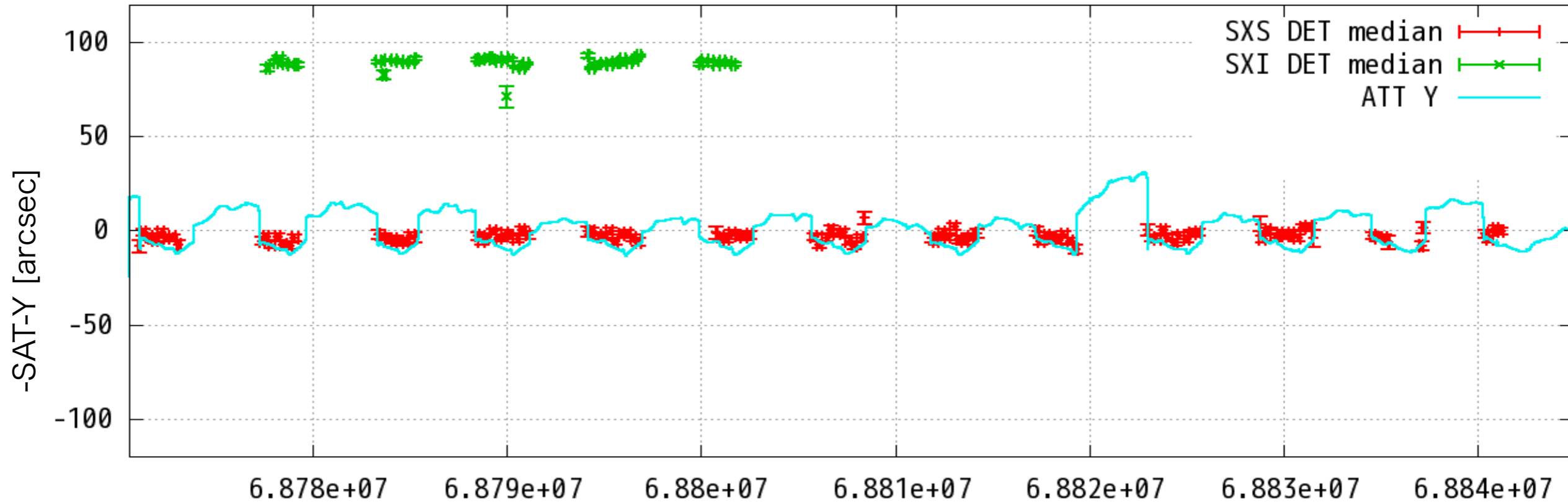
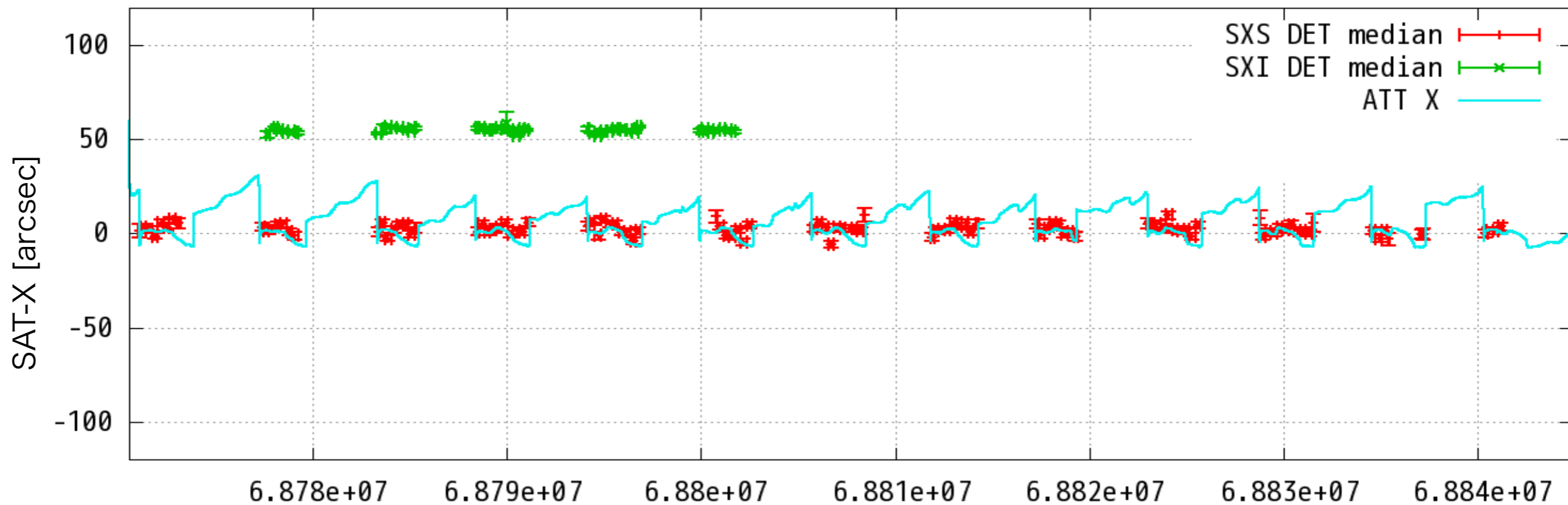
STT-ALL



100040060

Perseus_adjustment DET-X/DET-Y (unit: arcsec)

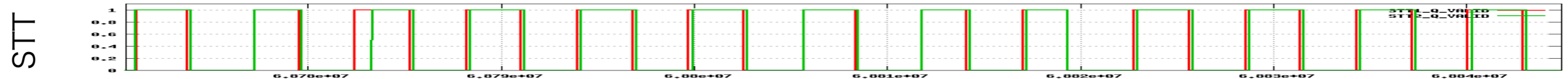
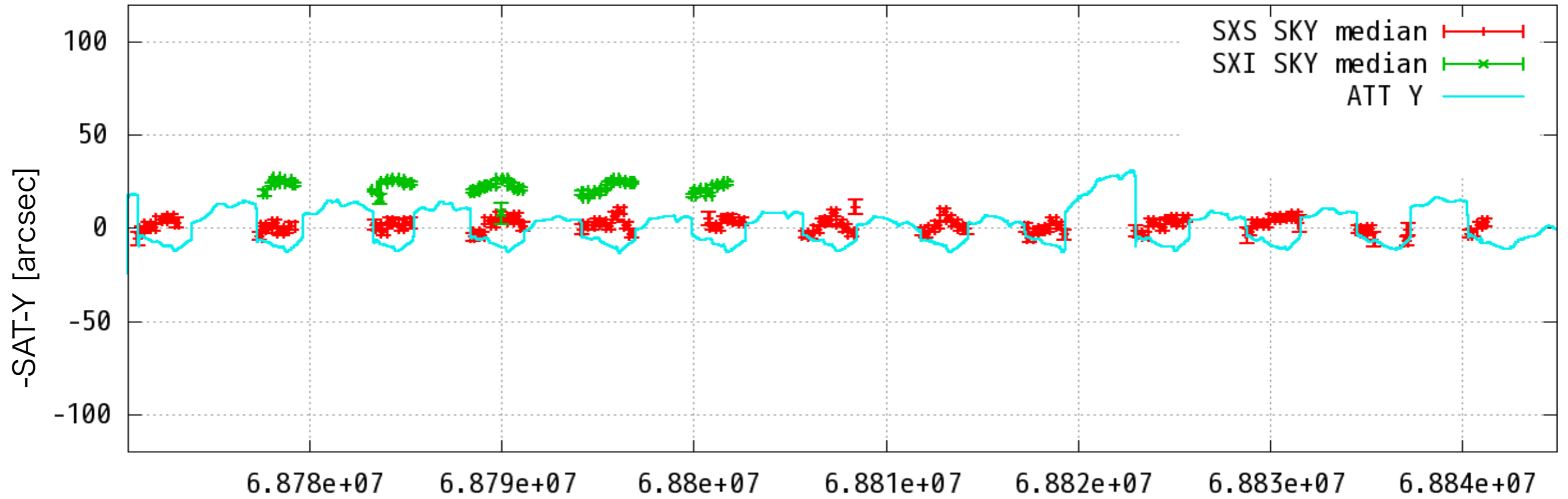
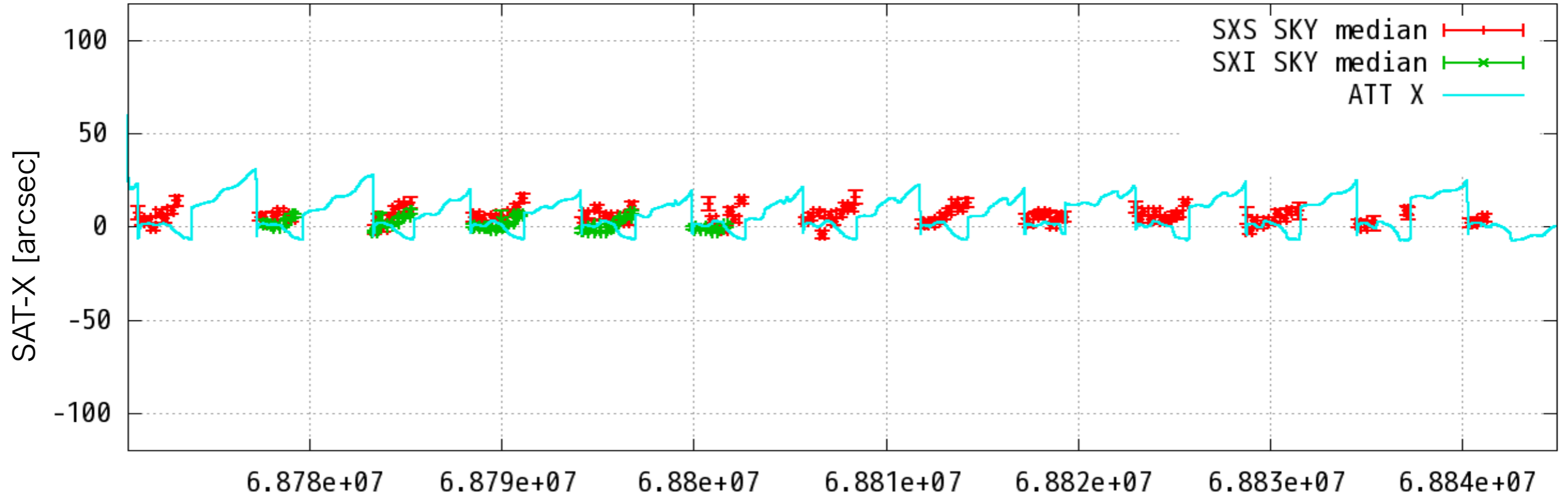
STT-CTL



100040060

Perseus_adjustment SKY-X/SKY-Y (unit: arcsec)

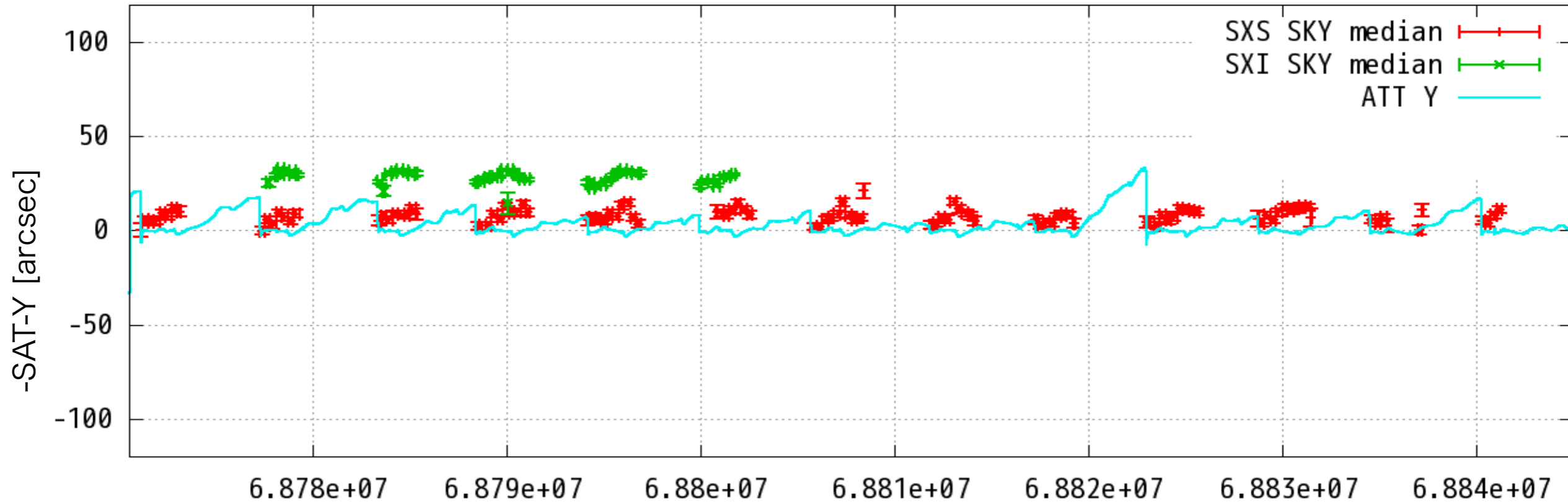
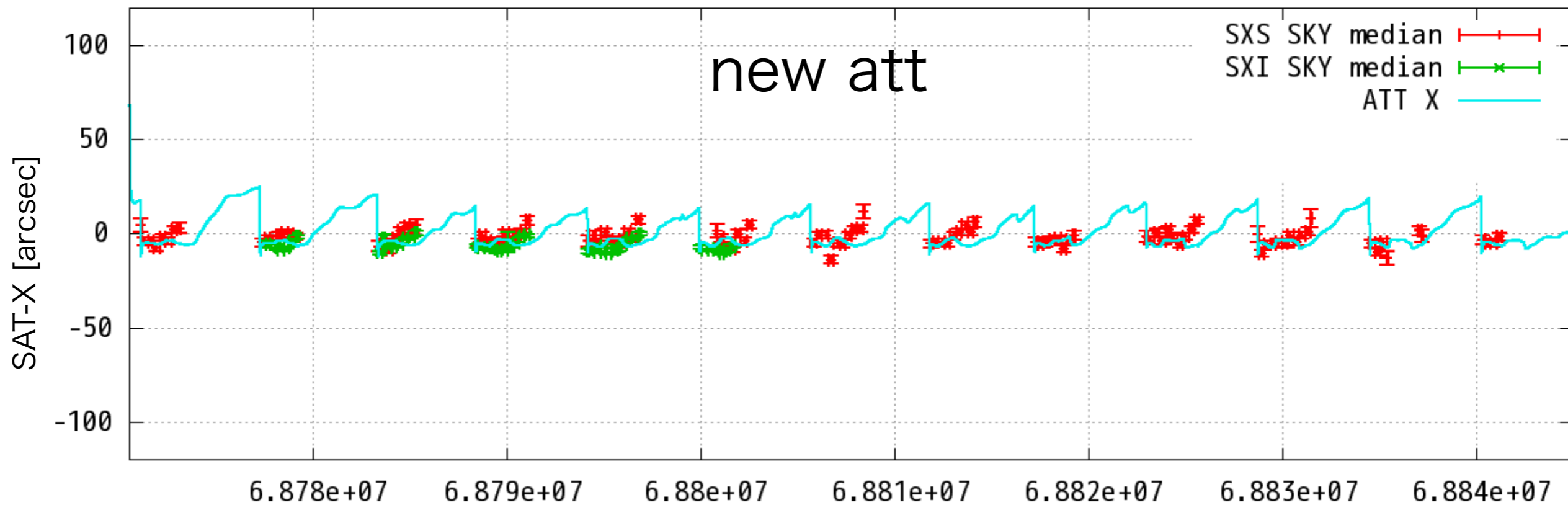
STT-CTL



100040060

Perseus_adjustment SKY-X/SKY-Y (unit: arcsec)

STT-CTL

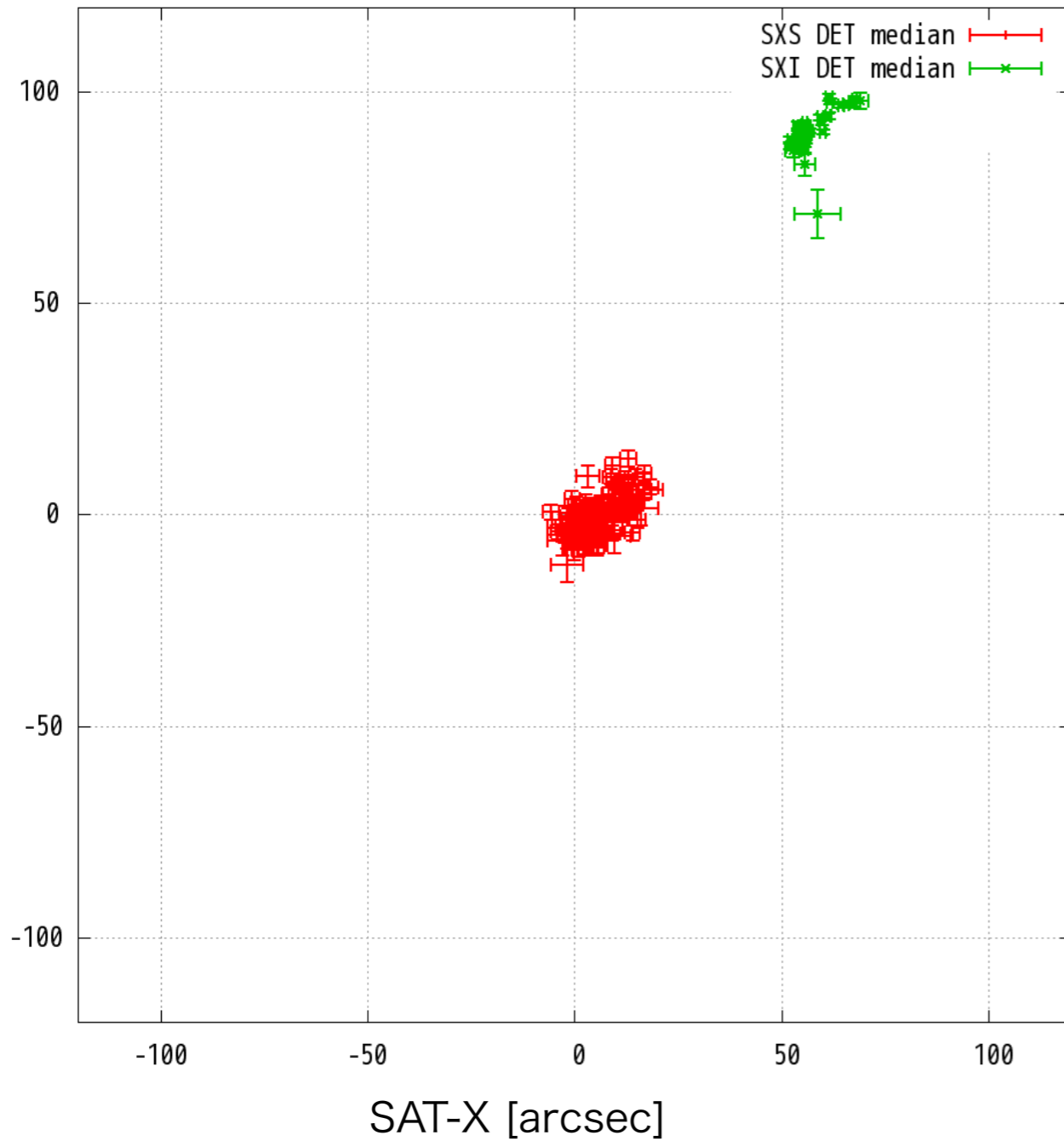


Perseus_adjustment (STT-ALL)

seq: 100040060

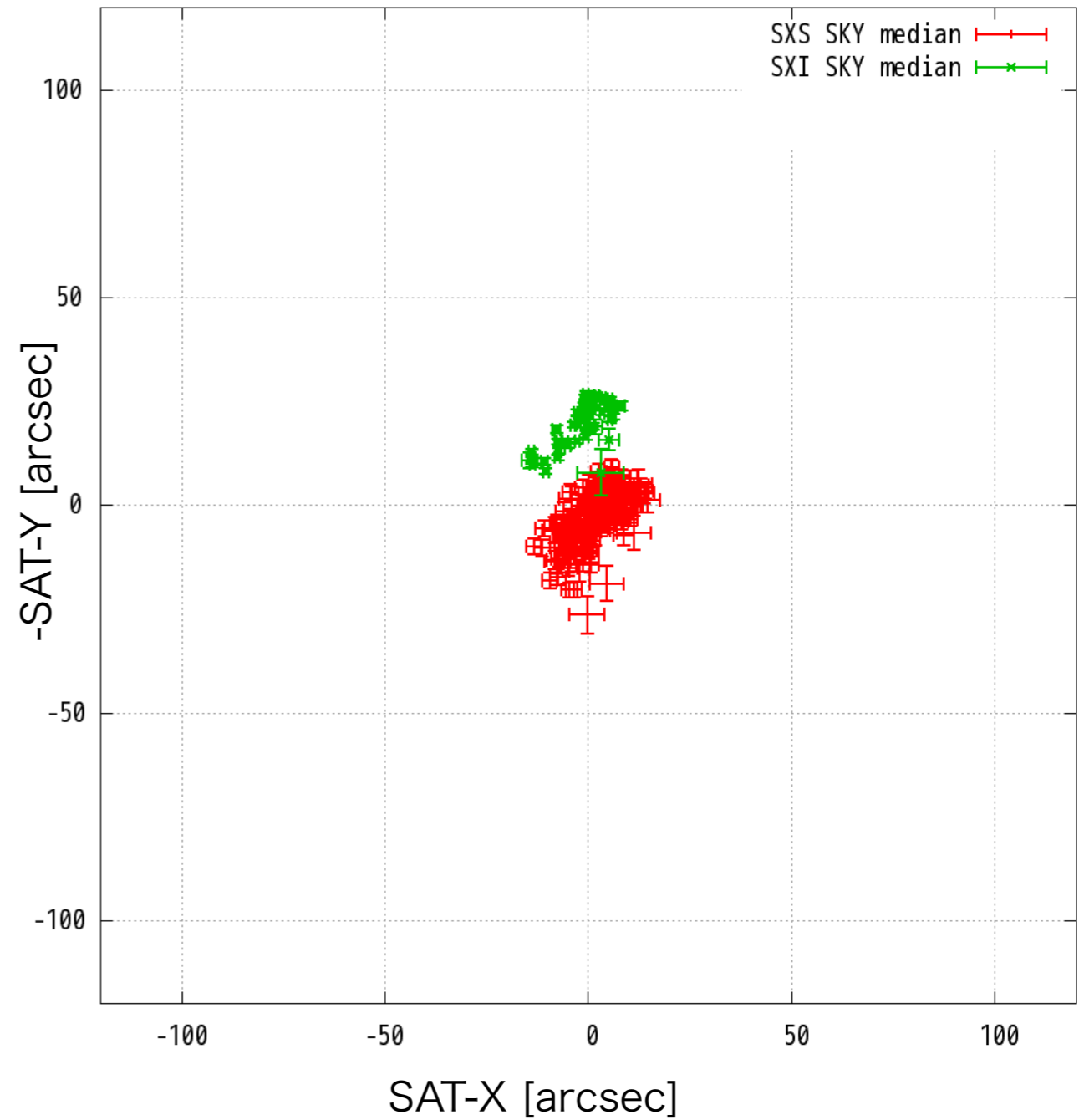
DET

Perseus_adjustment DET-X/DET-Y (unit: arcsec)



SKY

Perseus_adjustment SKY-X/SKY-Y (unit: arcsec)

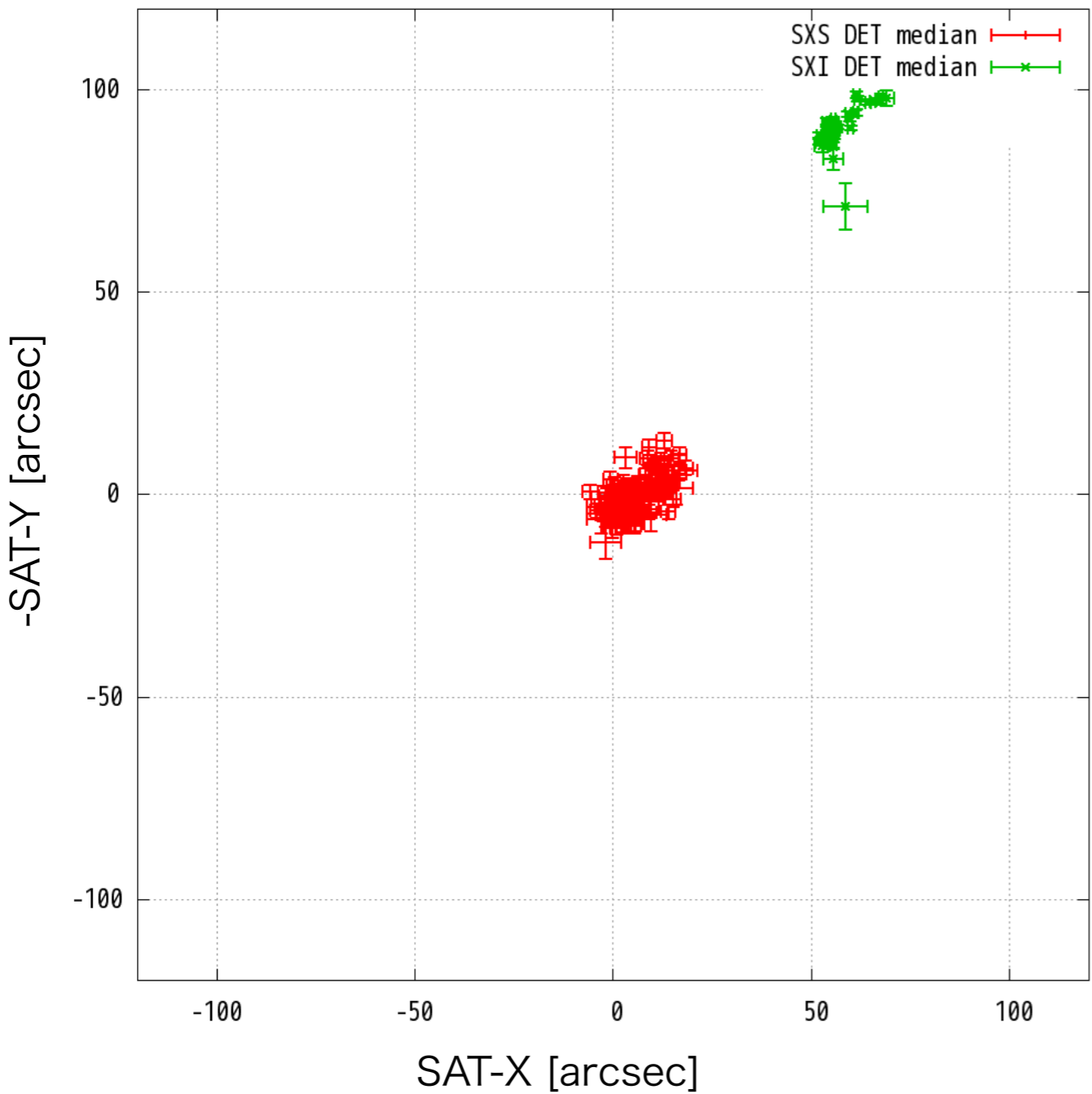


Perseus_adjustment (STT-ALL)

seq: 100040060

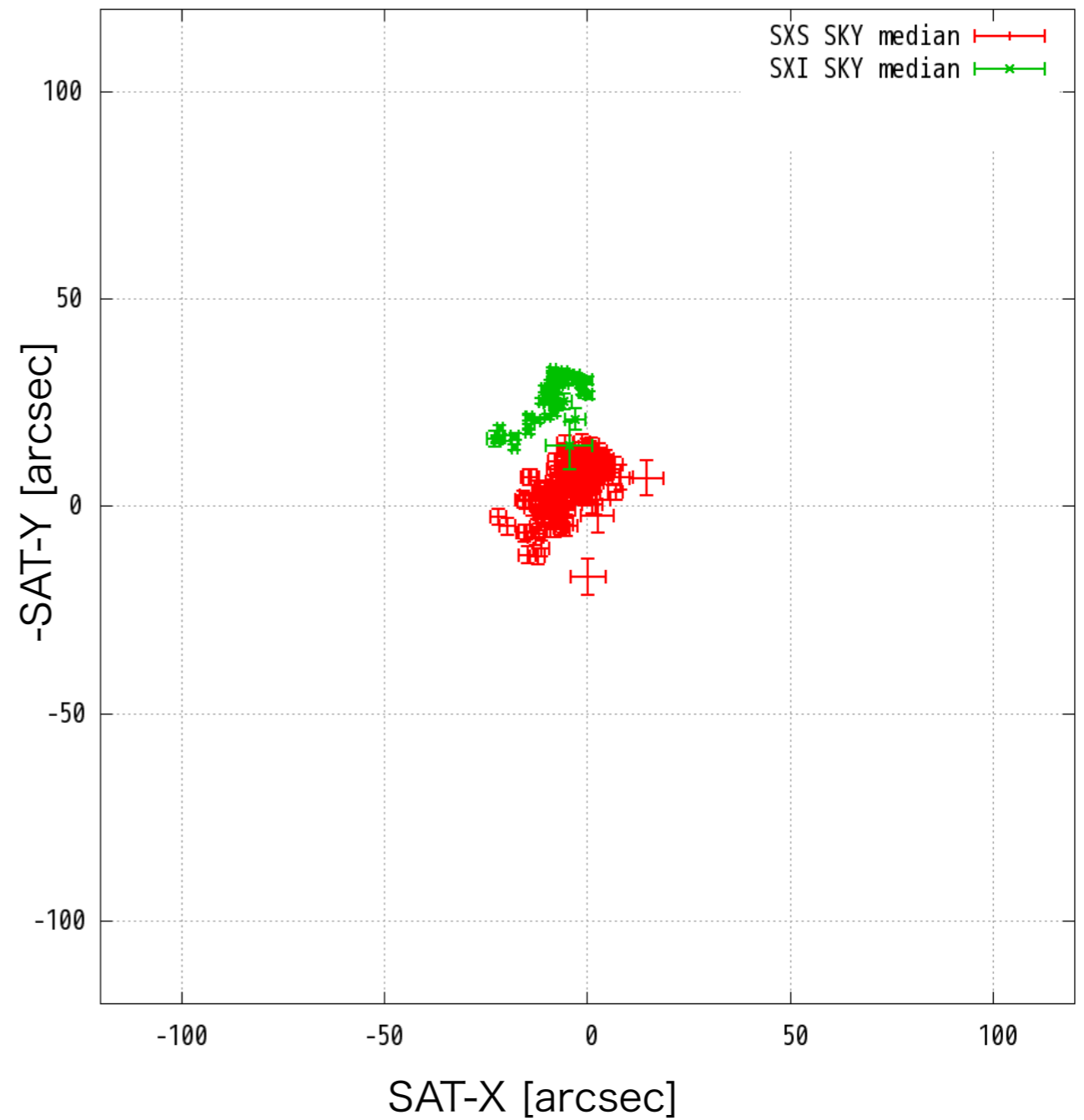
DET

Perseus_adjustment DET-X/DET-Y (unit: arcsec)



SKY new att

Perseus_adjustment SKY-X/SKY-Y (unit: arcsec)

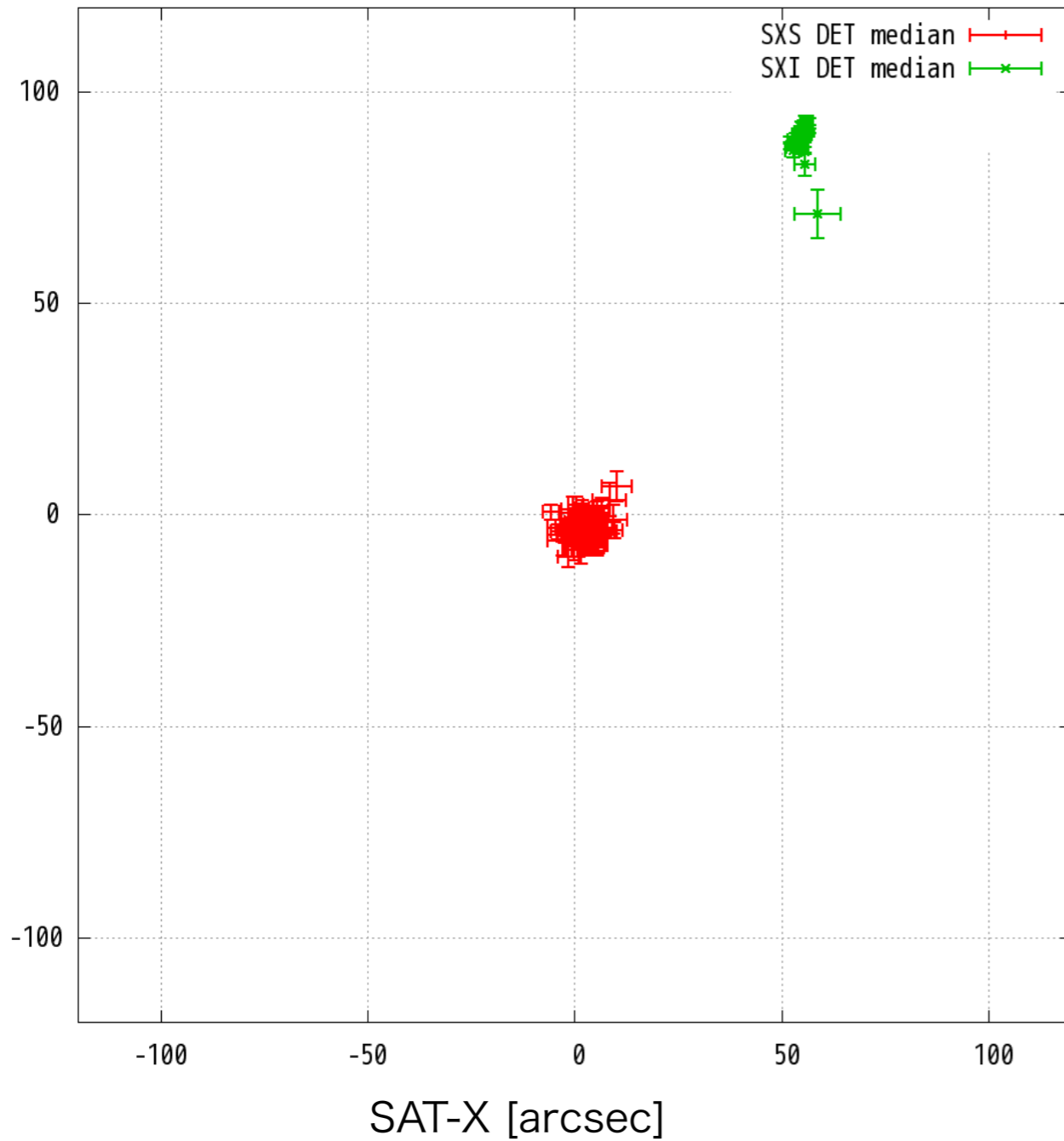


Perseus_adjustment (STT-CTL)

seq: 100040060

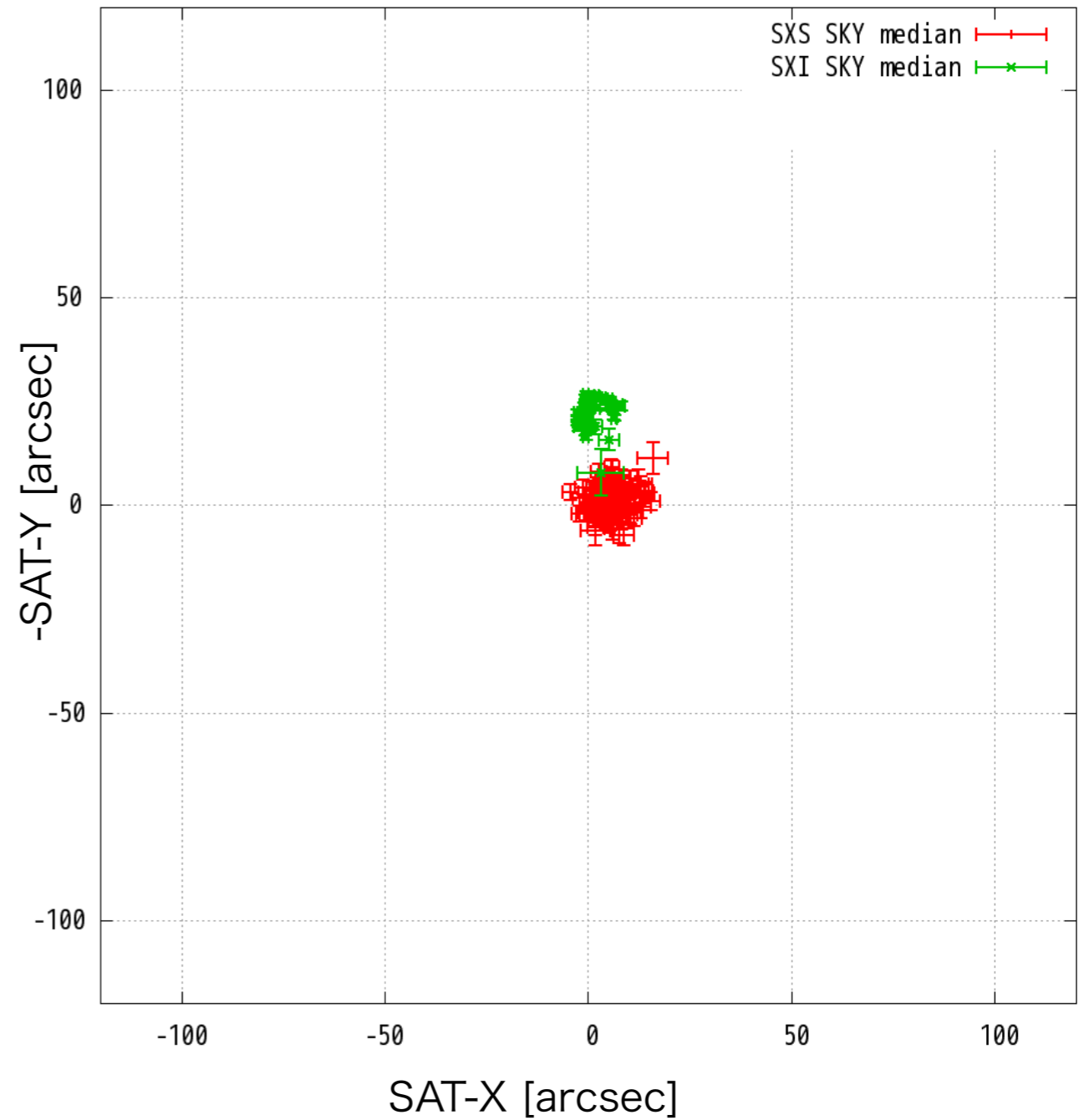
DET

Perseus_adjustment DET-X/DET-Y (unit: arcsec)



SKY

Perseus_adjustment SKY-X/SKY-Y (unit: arcsec)



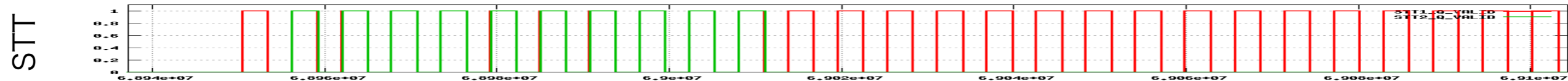
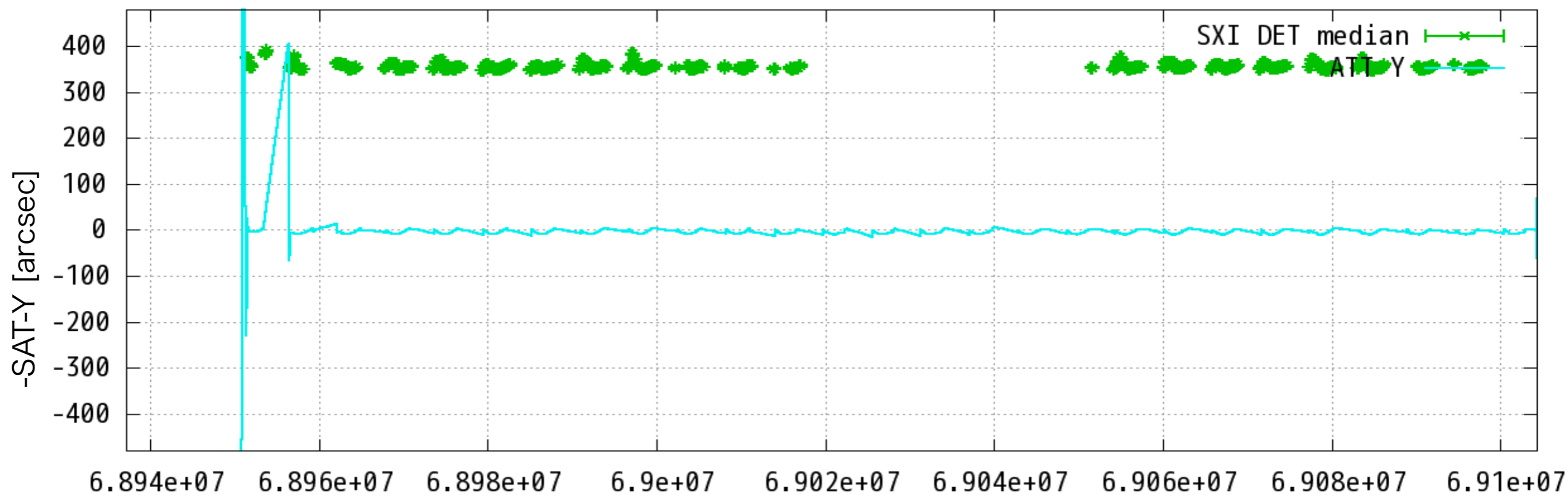
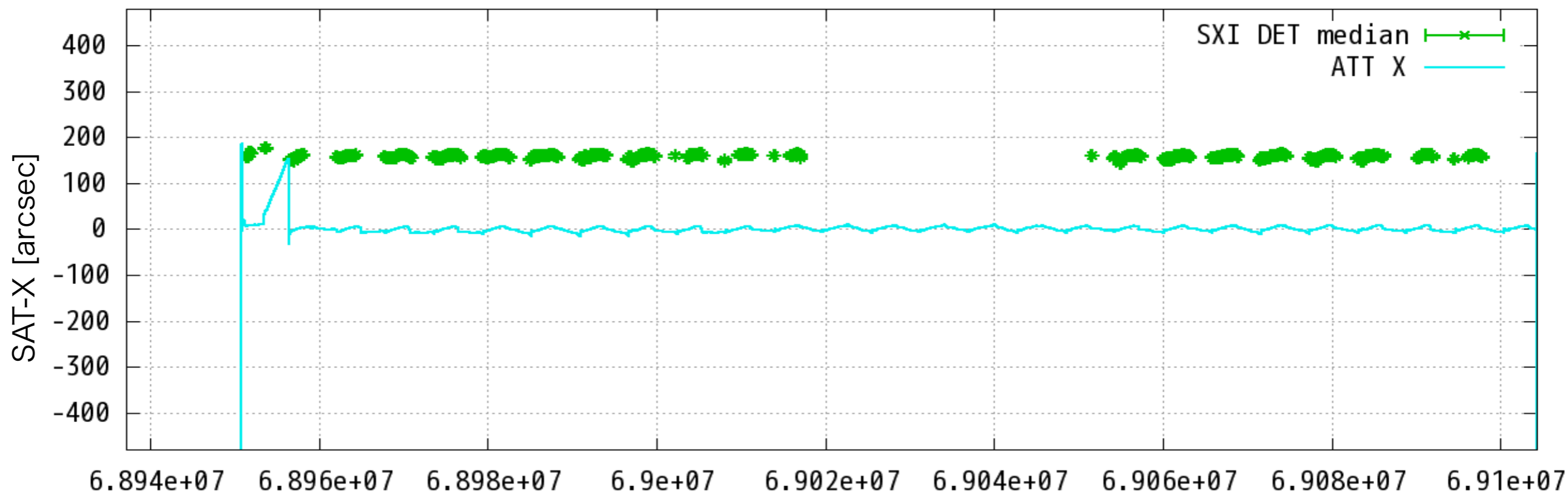
N132D

100041020

100041020

N132D DET-X/DET-Y (unit: arcsec)

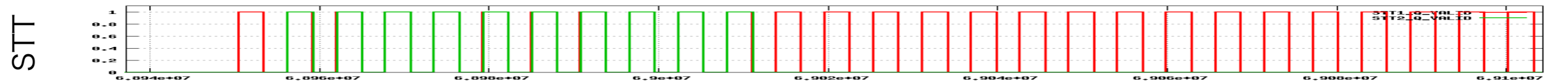
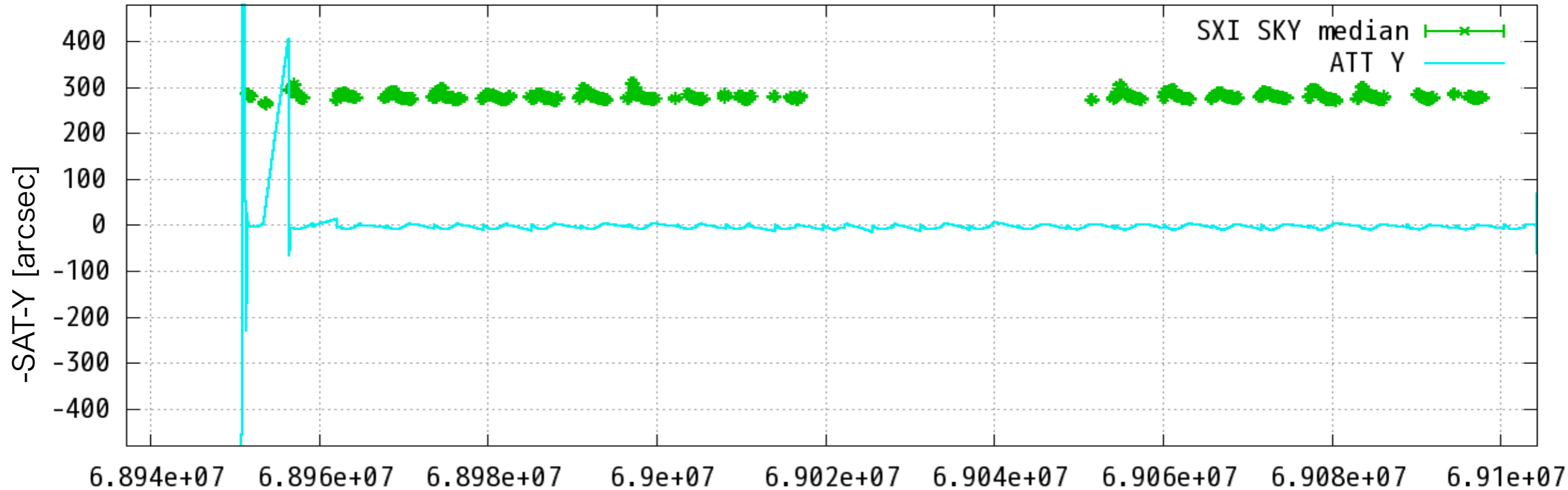
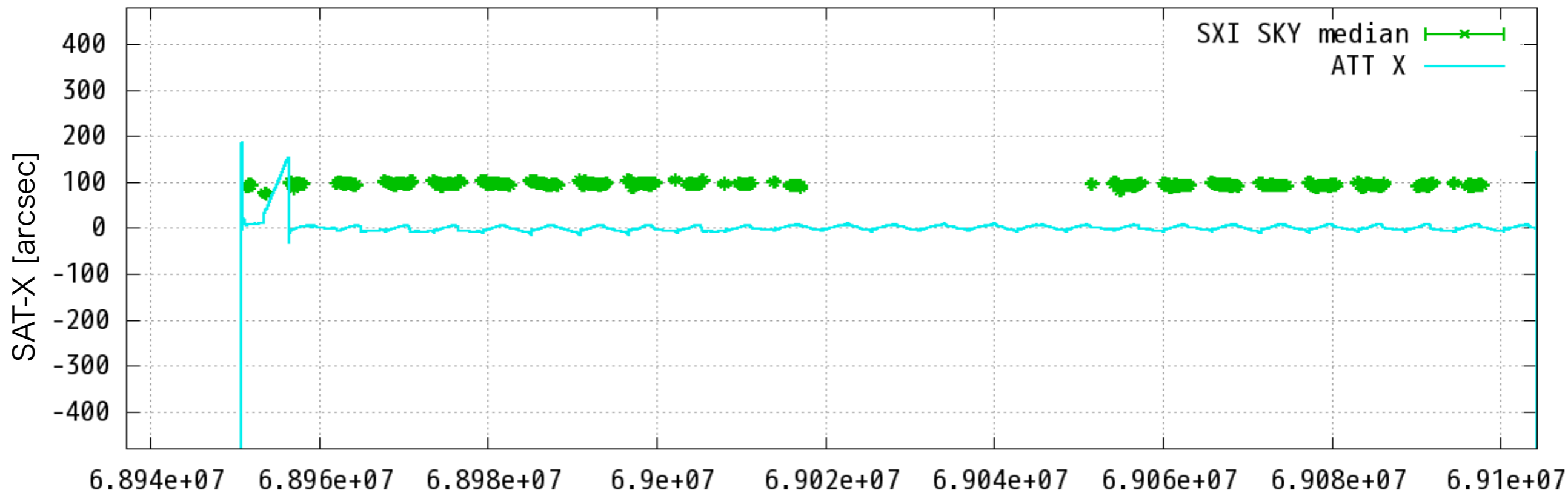
STT-ALL



100041020

N132D SKY-X/SKY-Y (unit: arcsec)

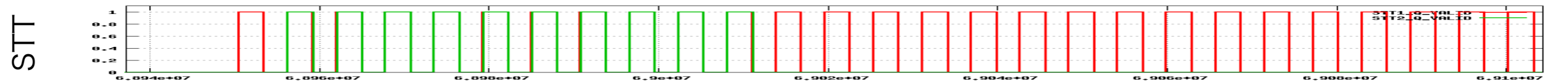
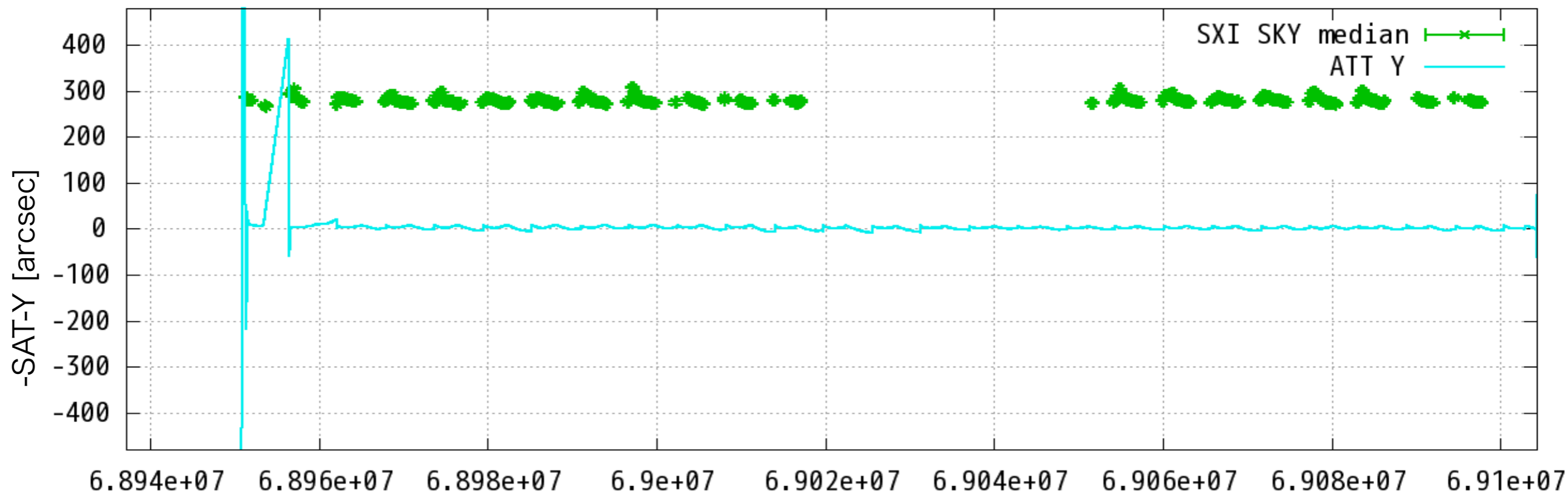
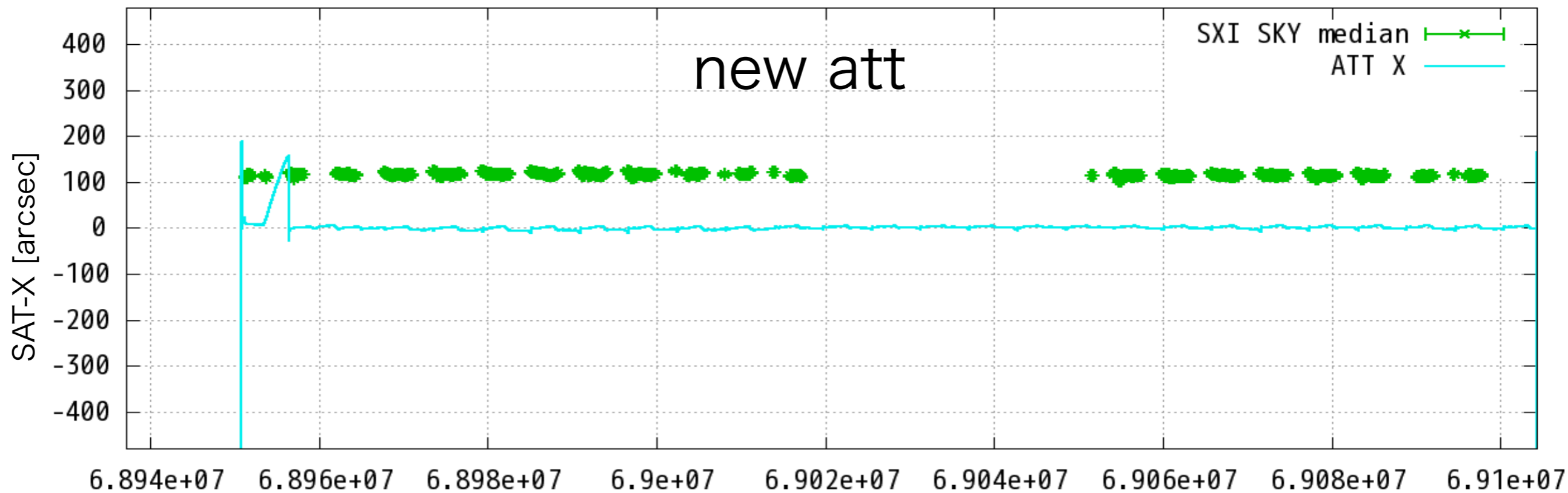
STT-ALL



100041020

N132D SKY-X/SKY-Y (unit: arcsec)

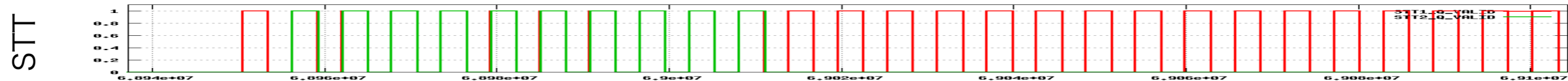
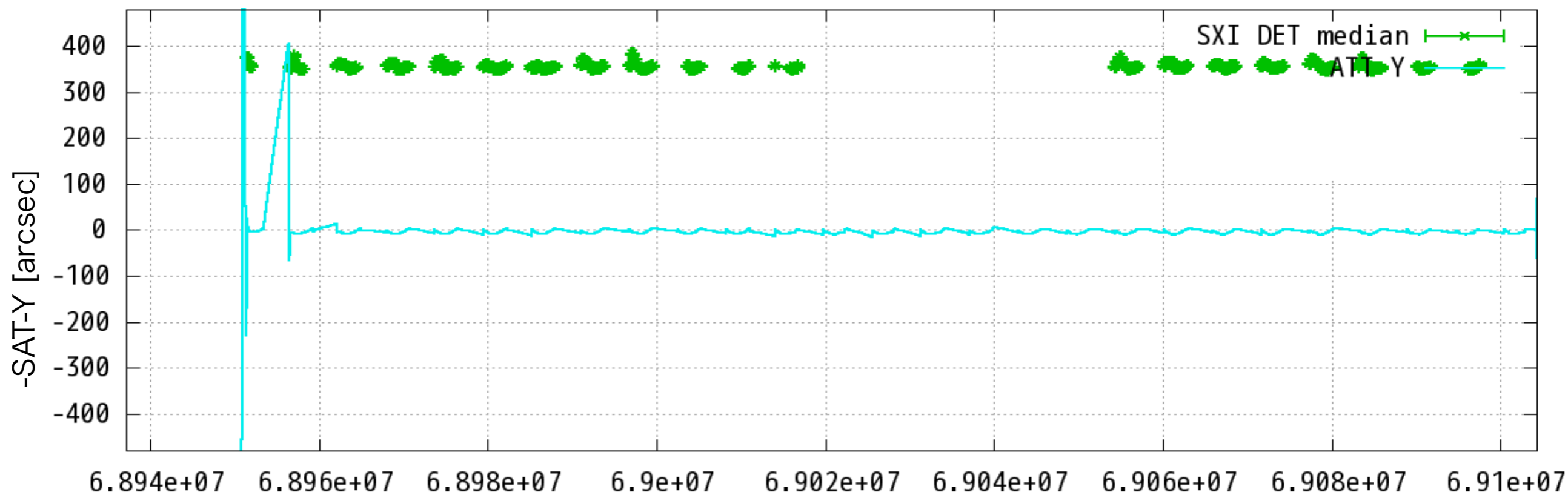
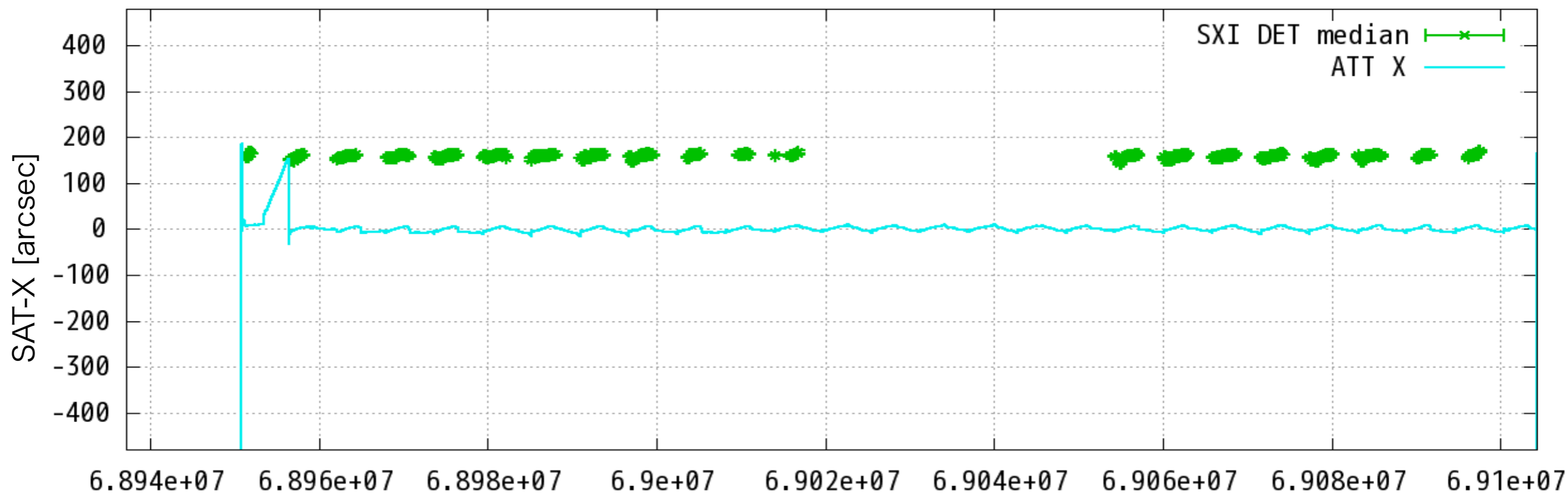
STT-ALL



100041020

N132D DET-X/DET-Y (unit: arcsec)

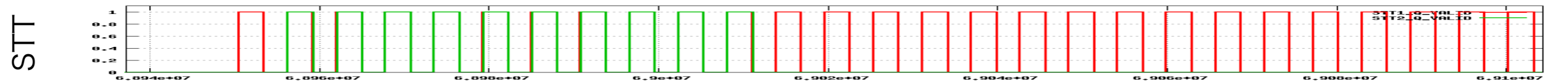
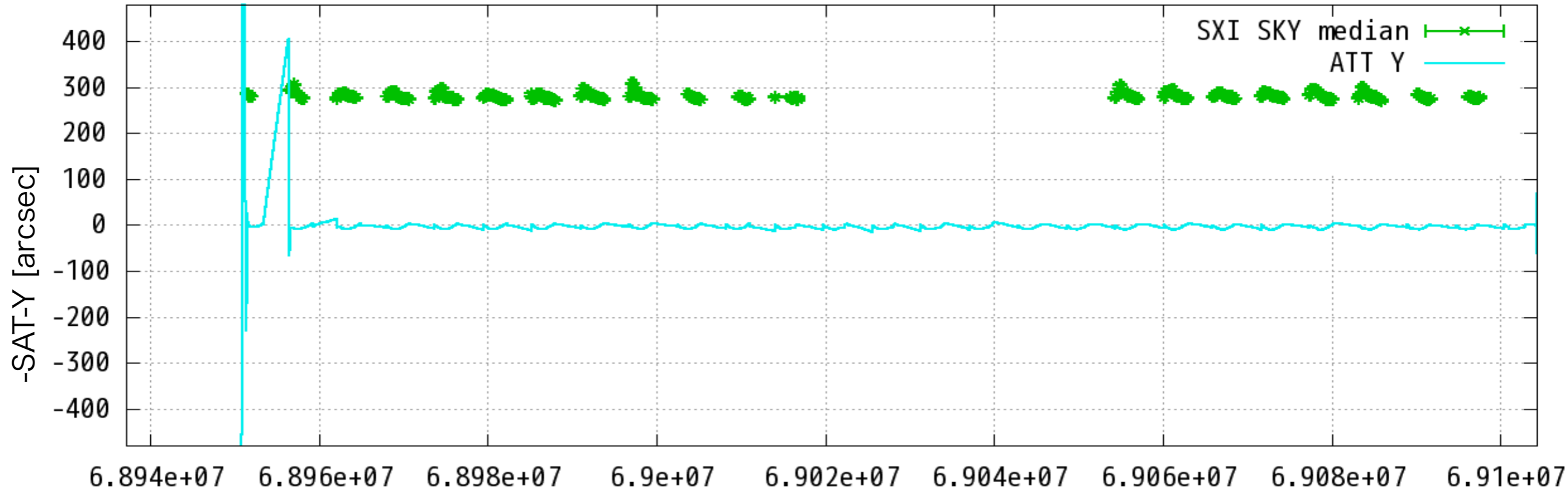
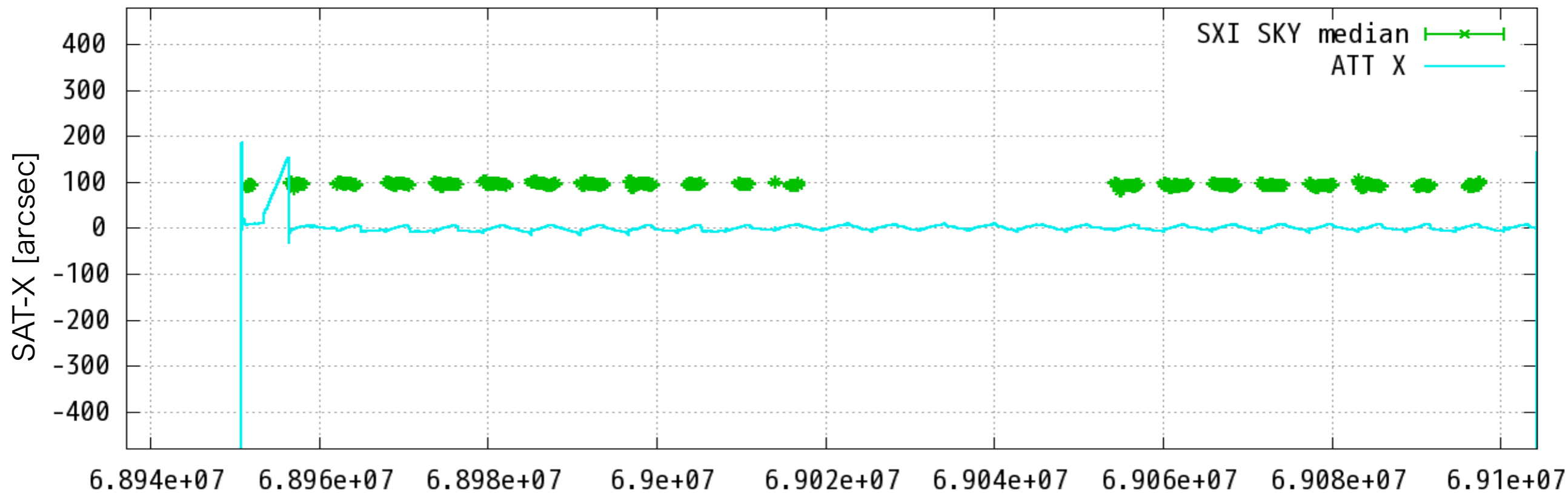
STT-CTL



100041020

N132D SKY-X/SKY-Y (unit: arcsec)

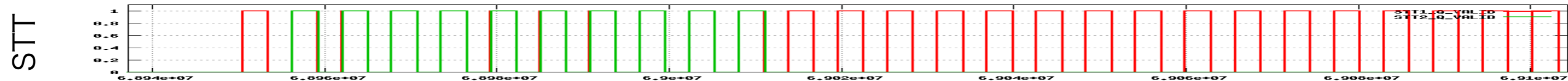
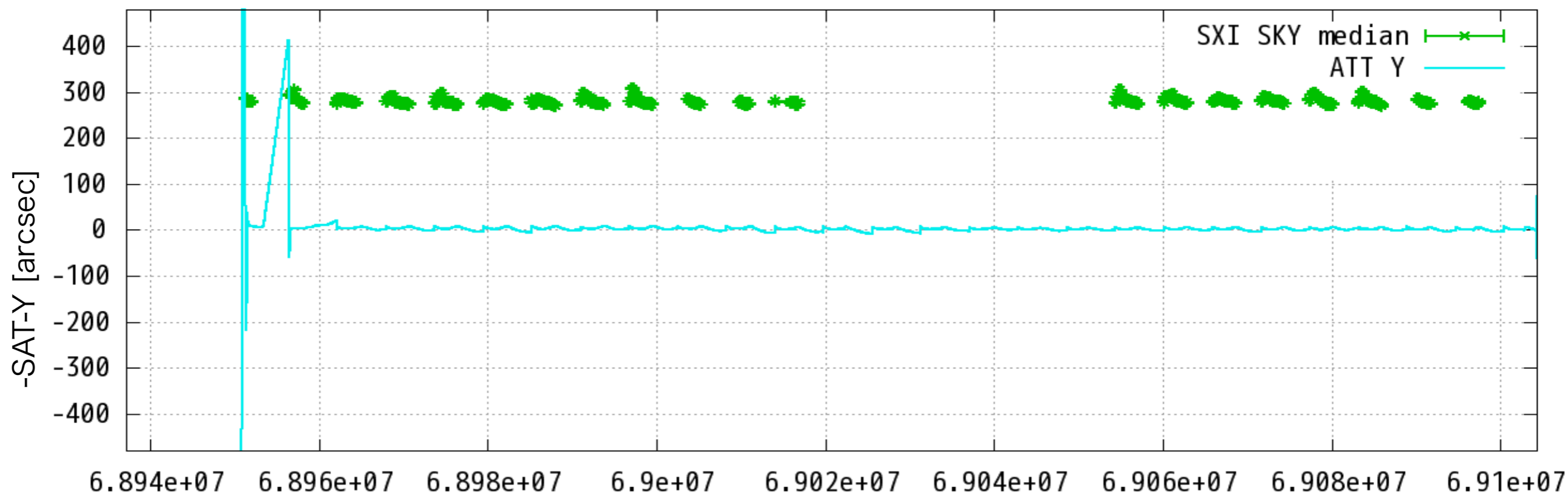
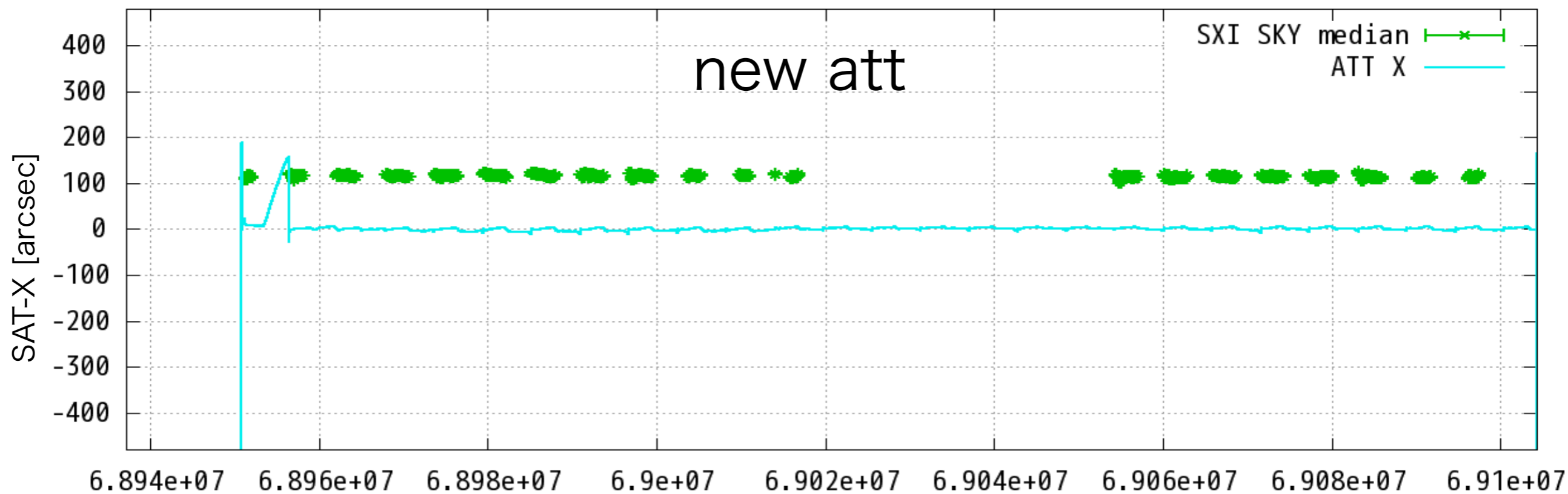
STT-CTL



100041020

N132D SKY-X/SKY-Y (unit: arcsec)

STT-CTL

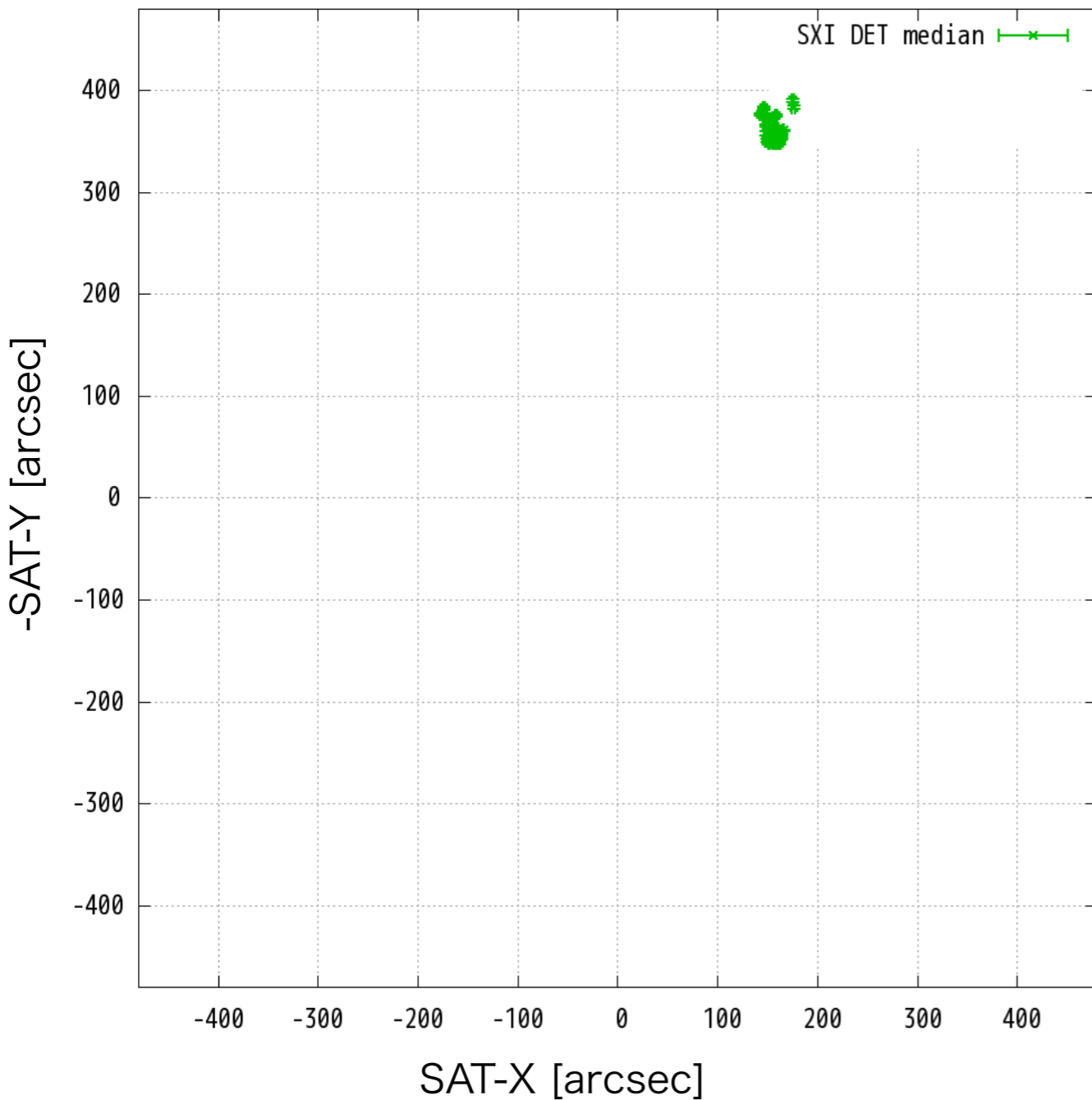


N132D (STT-ALL)

seq: 100041020

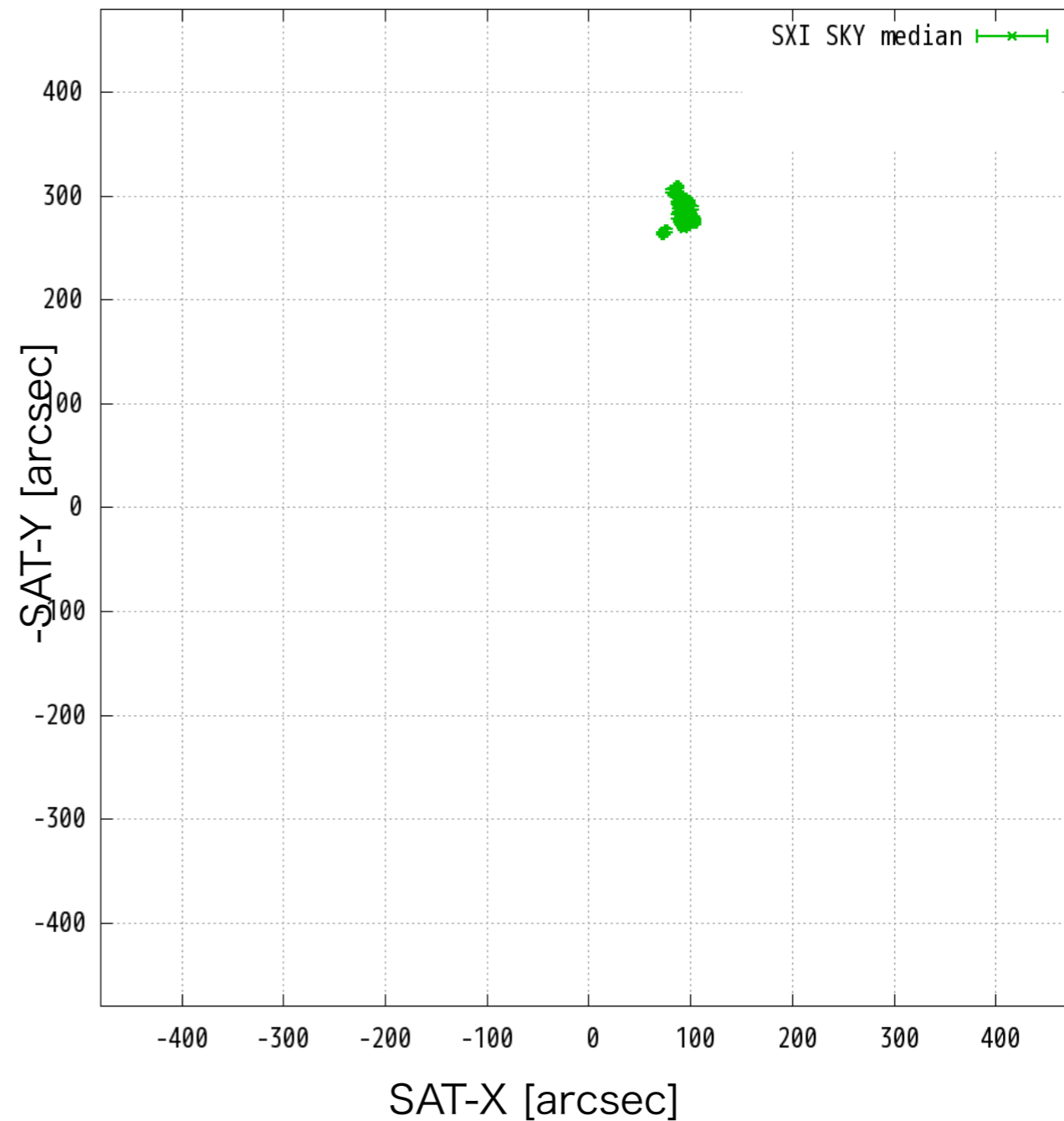
DET

N132D DET-X/DET-Y (unit: arcsec)



SKY

N132D SKY-X/SKY-Y (unit: arcsec)

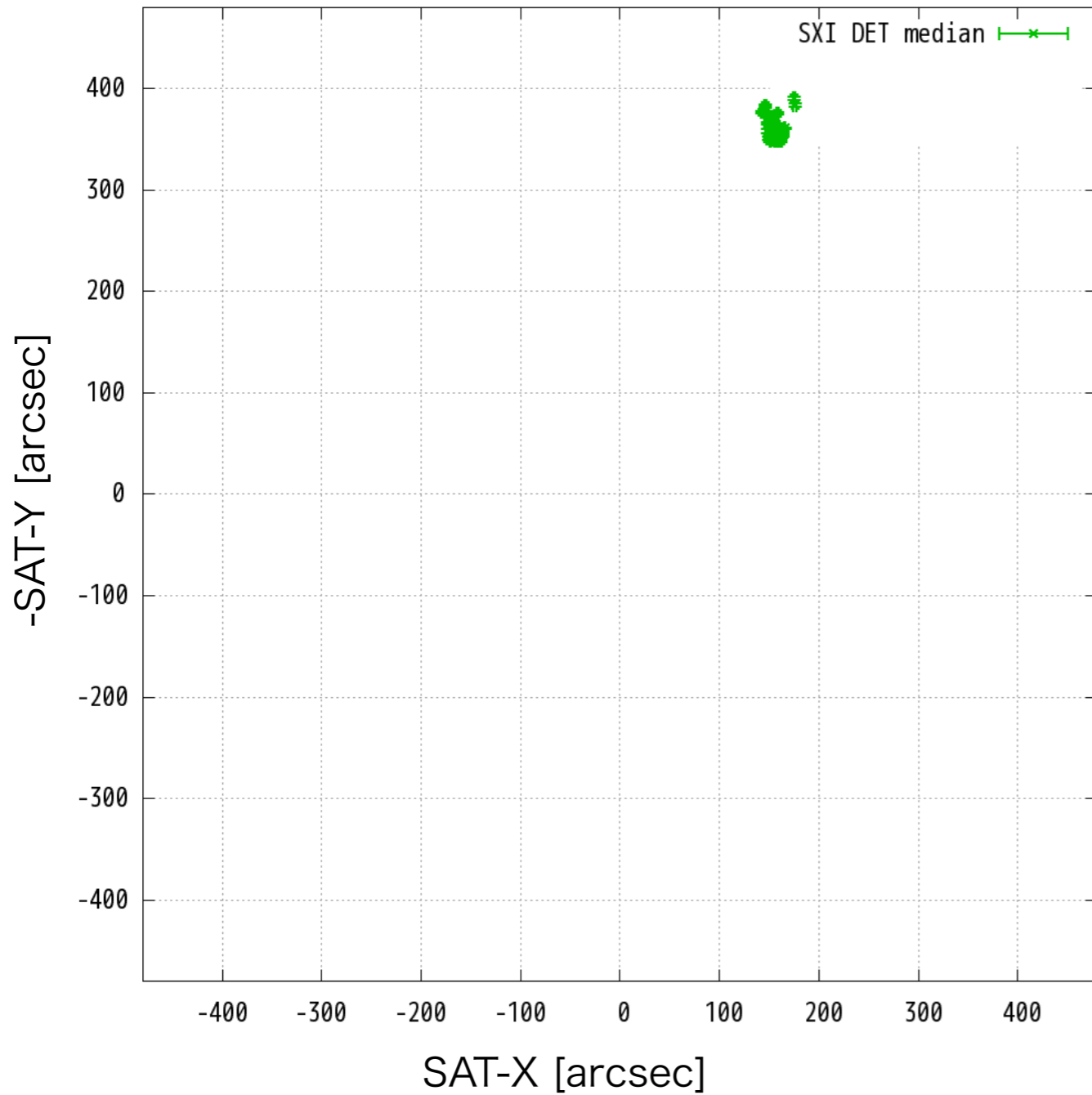


N132D (STT-ALL)

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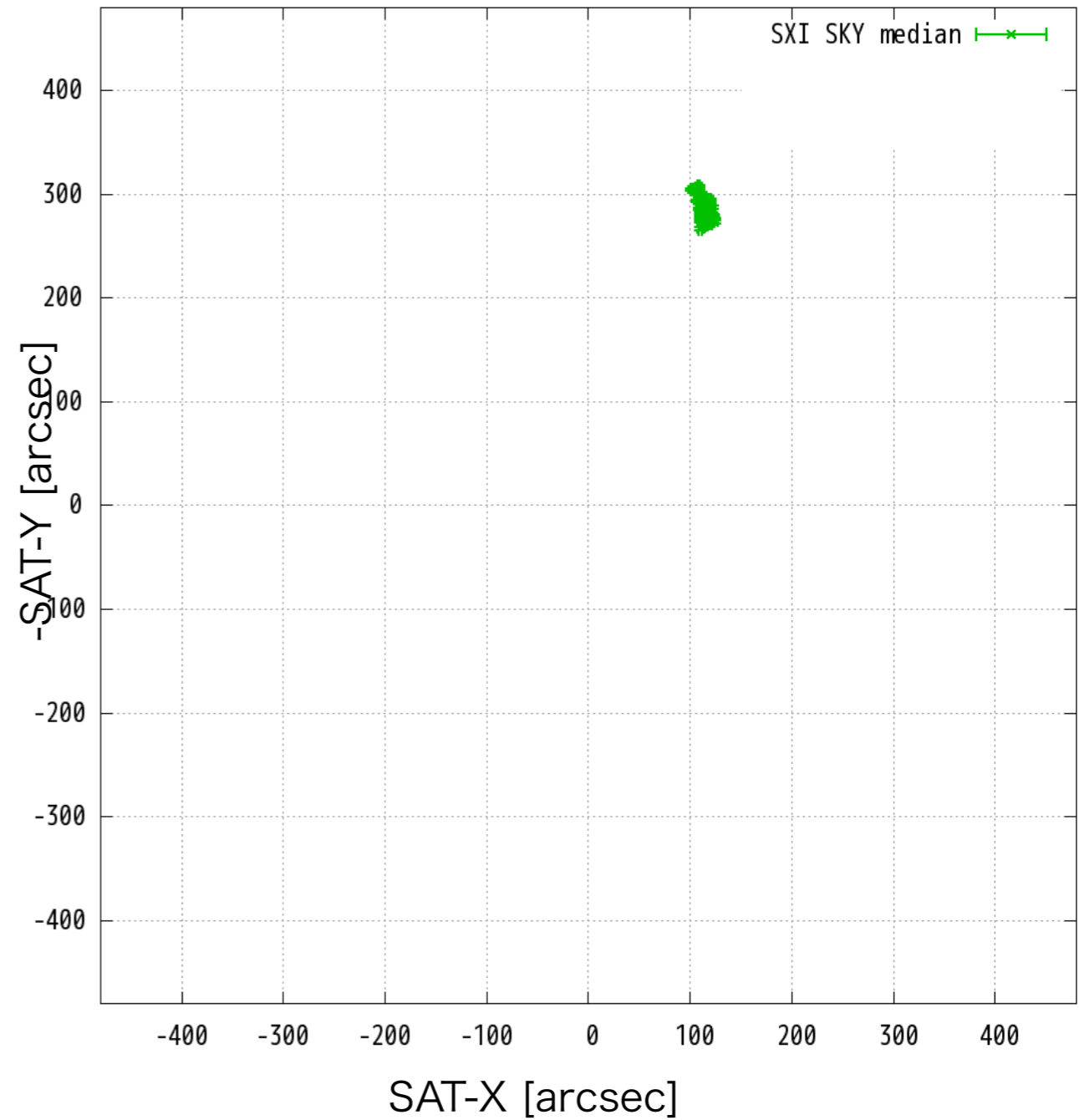
DET

N132D DET-X/DET-Y (unit: arcsec)



SKY

N132D SKY-X/SKY-Y (unit: arcsec)



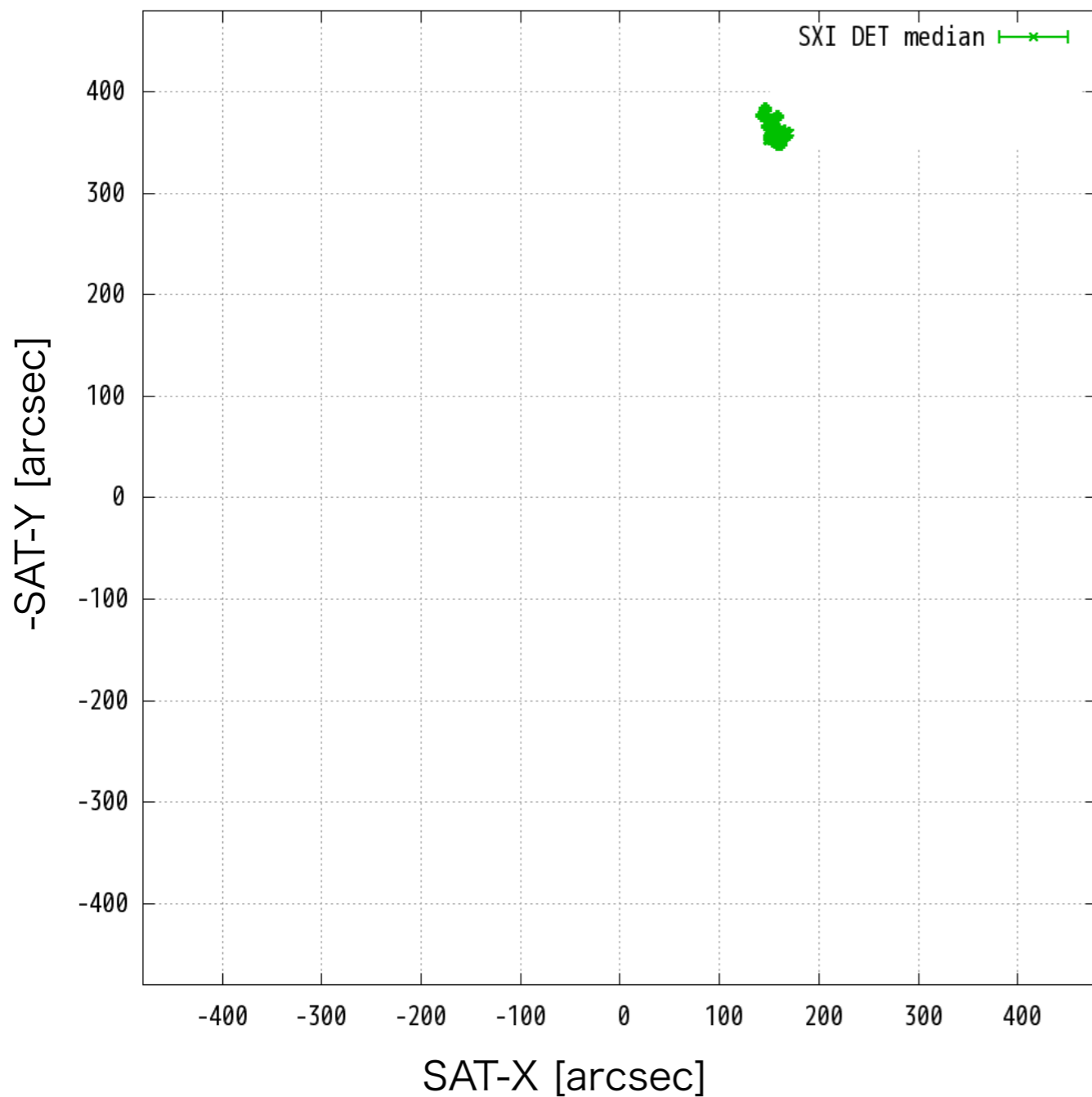
new att

N132D (STT-CTL)

seq: 100041020

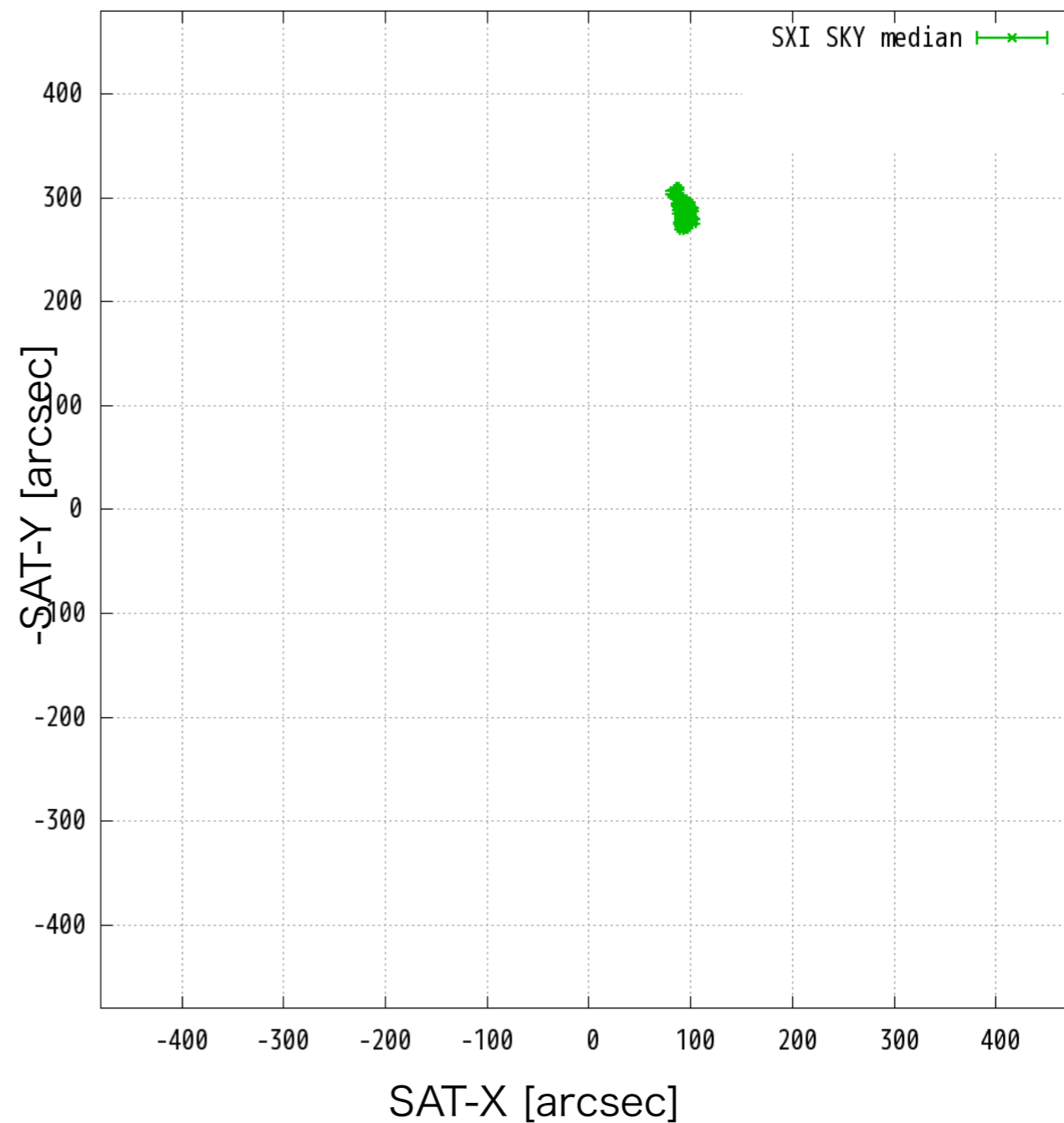
DET

N132D DET-X/DET-Y (unit: arcsec)



SKY

N132D SKY-X/SKY-Y (unit: arcsec)

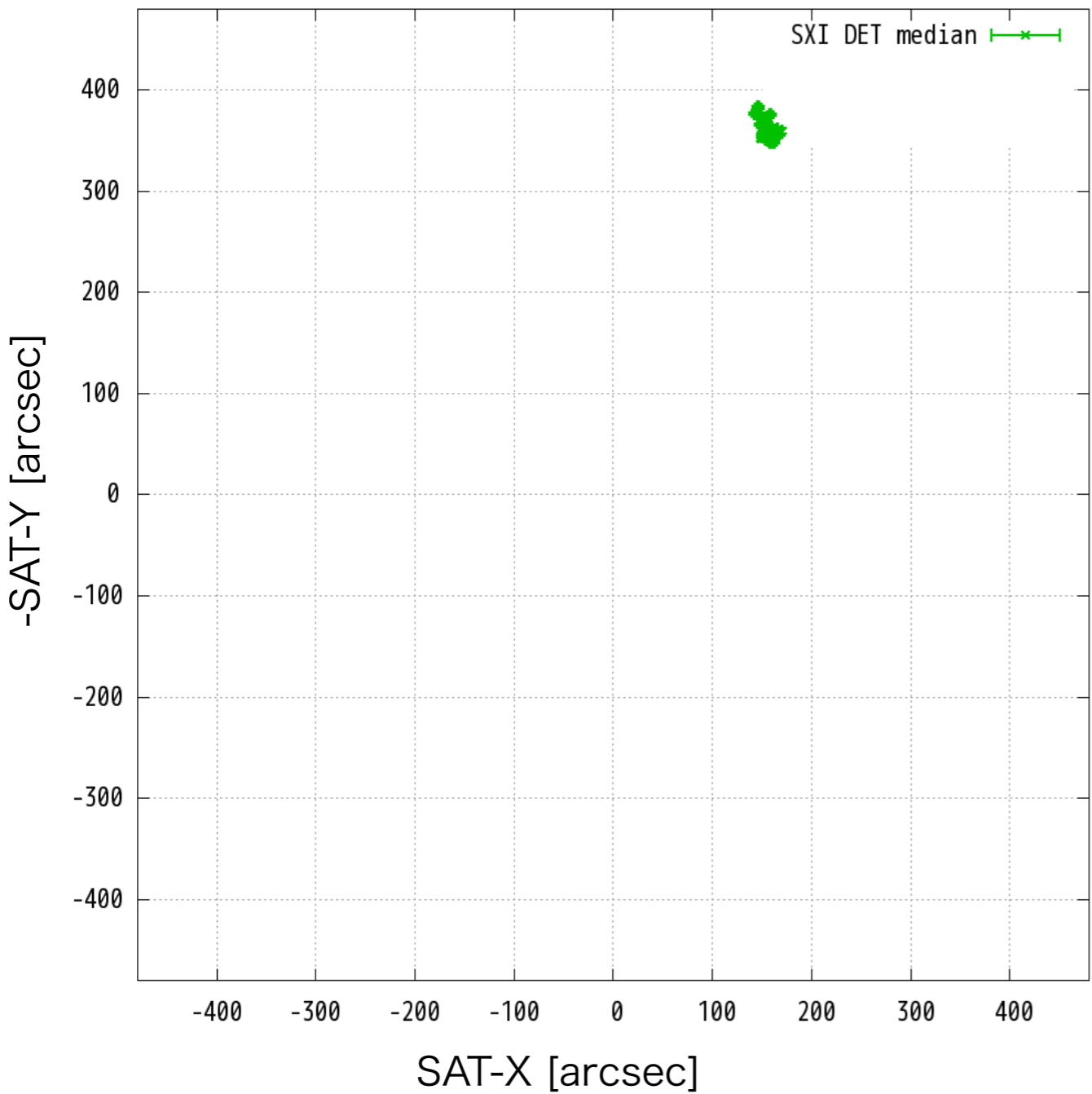


N132D (STT-CTL)

seq: 100041020

DET

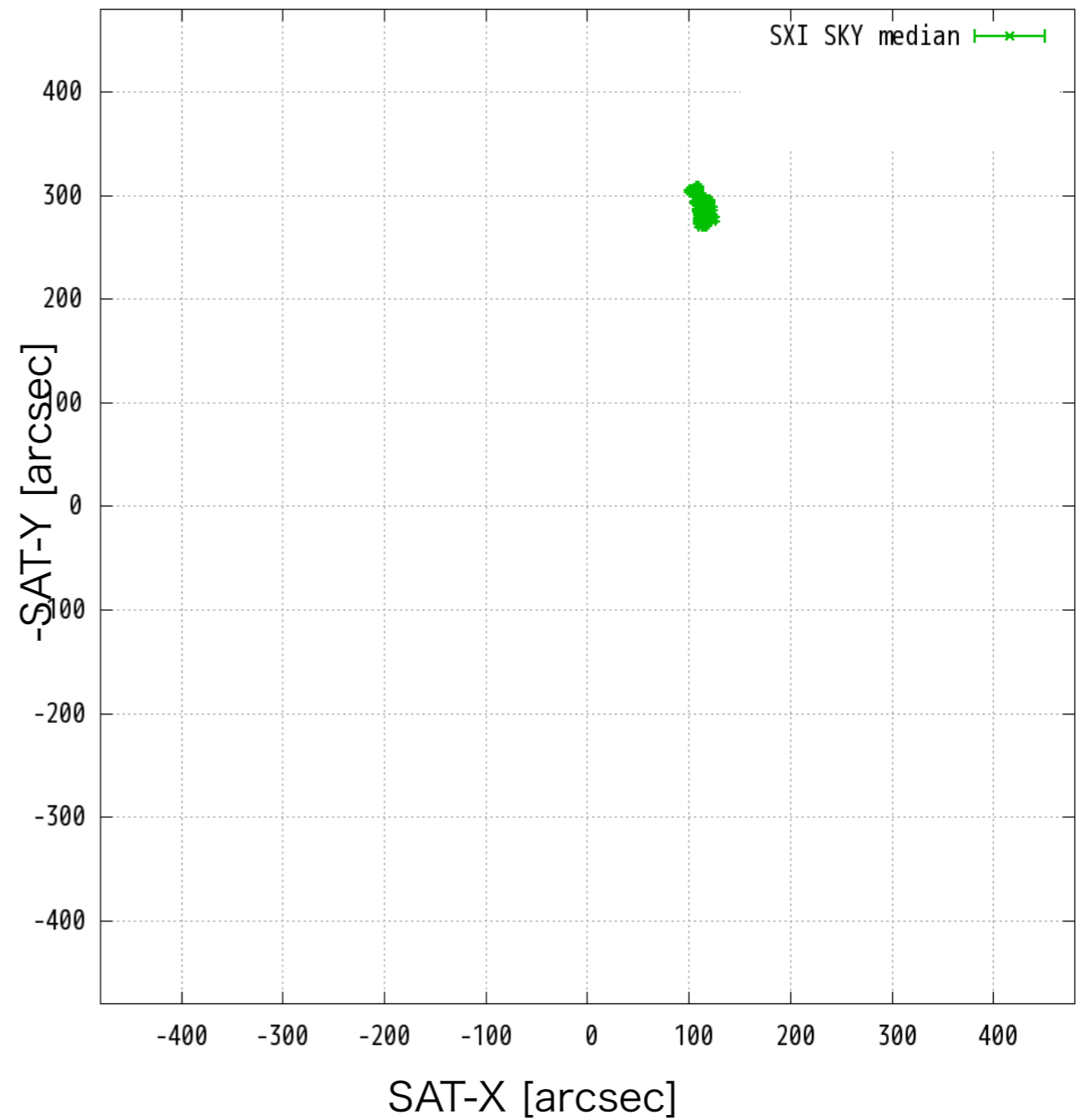
N132D DET-X/DET-Y (unit: arcsec)



SKY

new att

N132D SKY-X/SKY-Y (unit: arcsec)



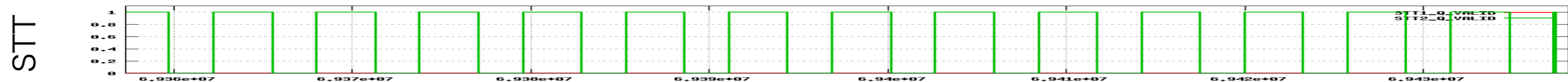
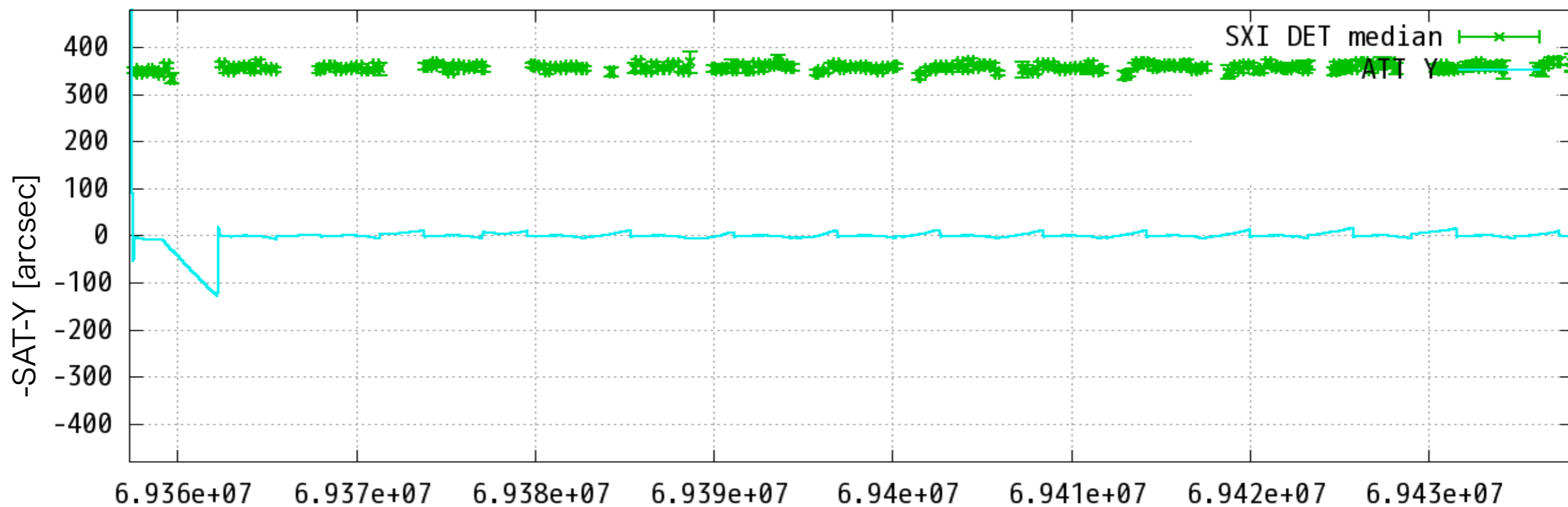
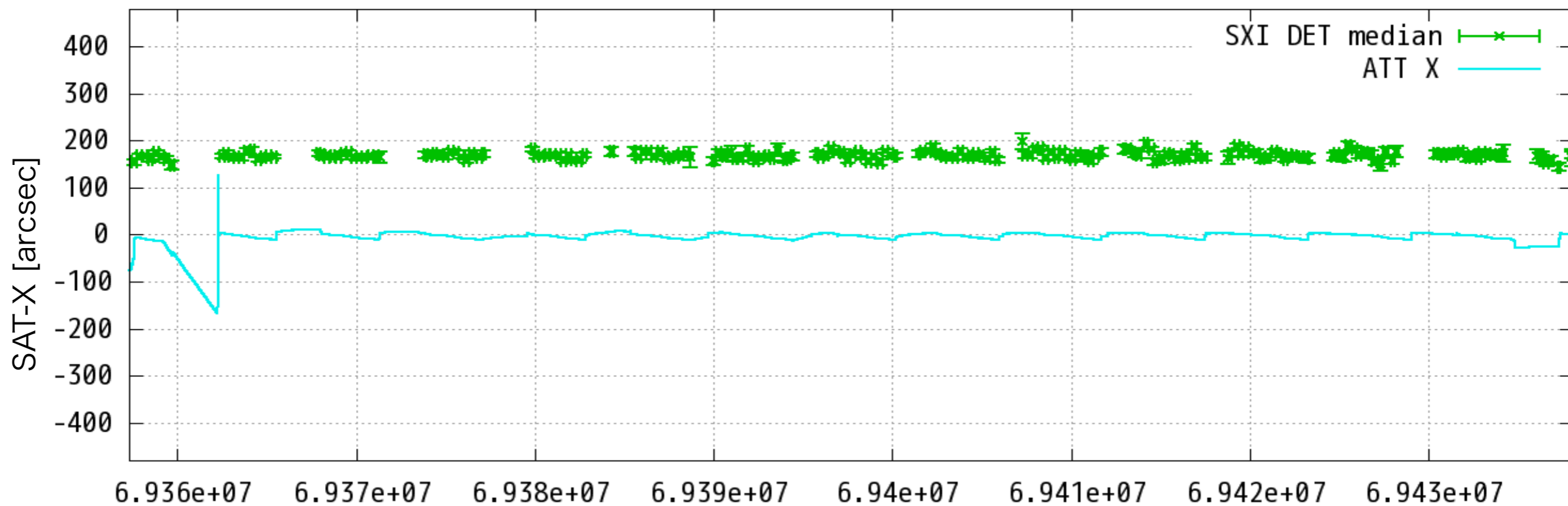
IGR_J16318-4848

100042040

100042040

IGR_J16318-4848 DET-X/DET-Y (unit: arcsec)

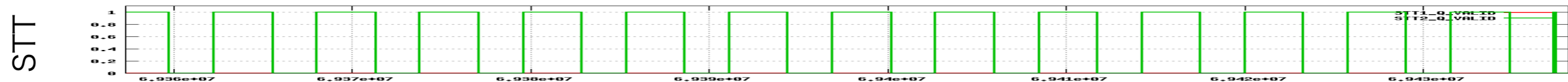
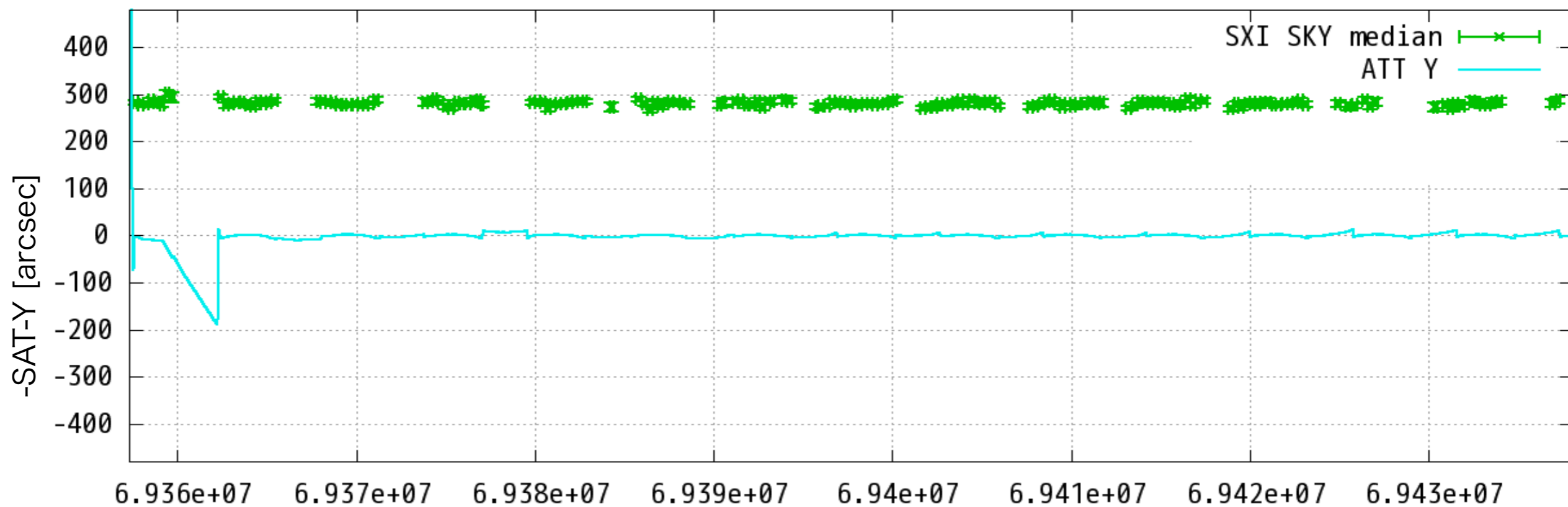
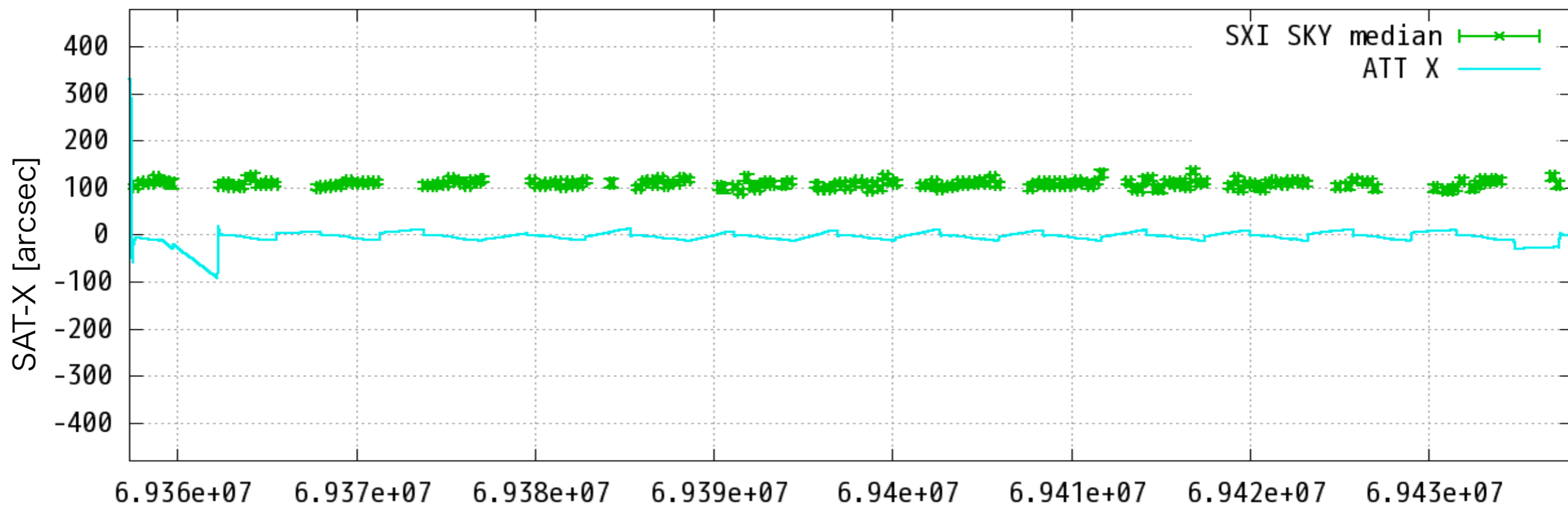
STT-ALL



100042040

IGR_J16318-4848 SKY-X/SKY-Y (unit: arcsec)

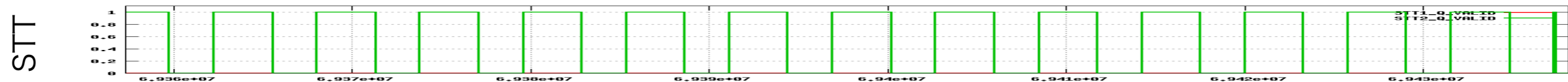
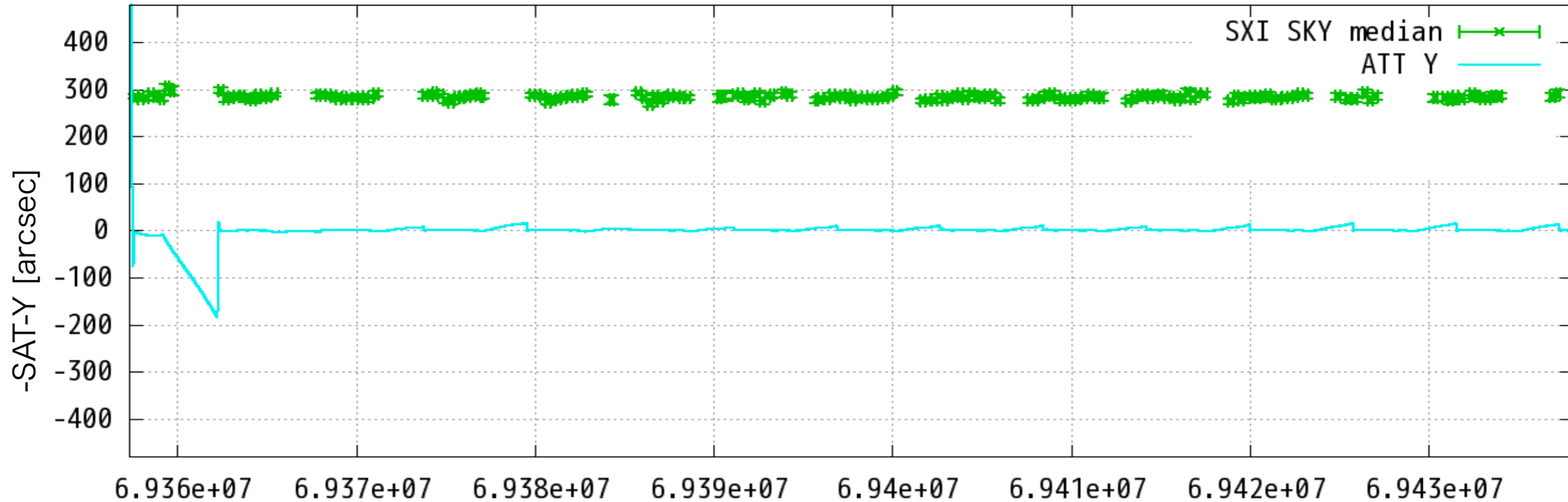
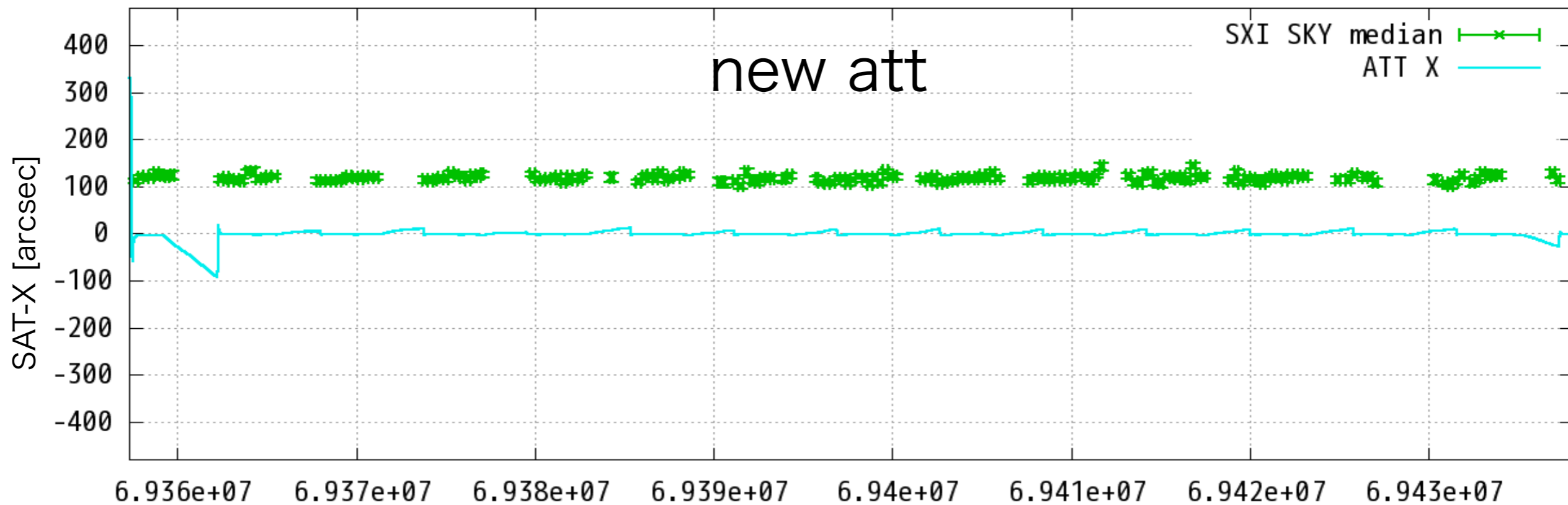
STT-ALL



100042040

IGR_J16318-4848 SKY-X/SKY-Y (unit: arcsec)

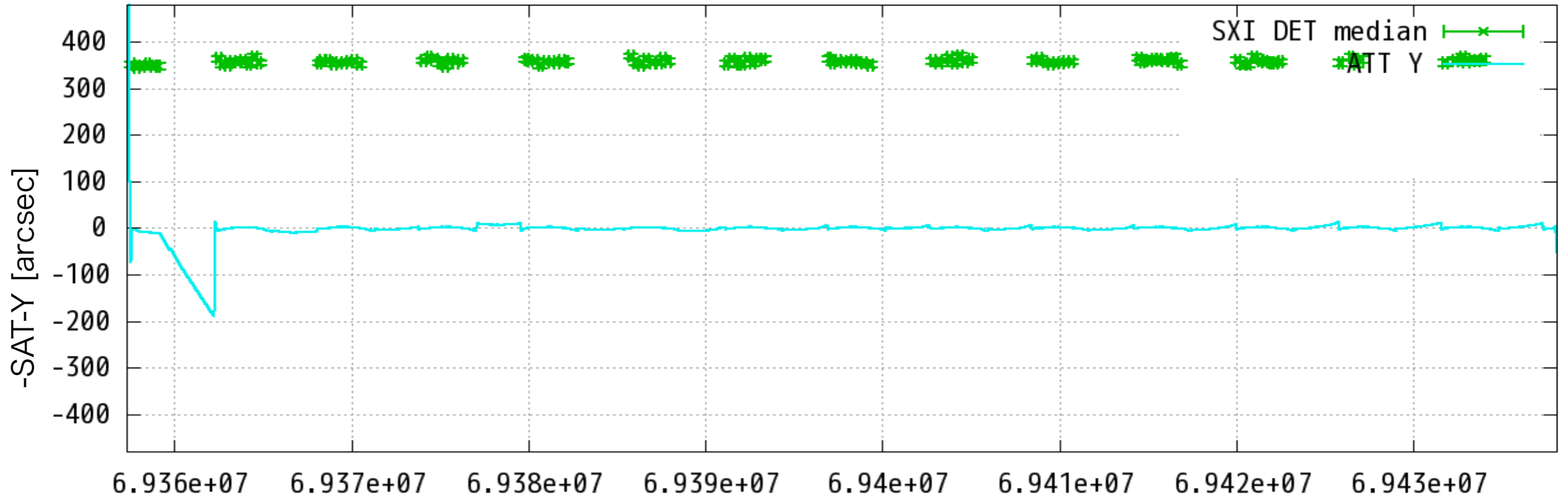
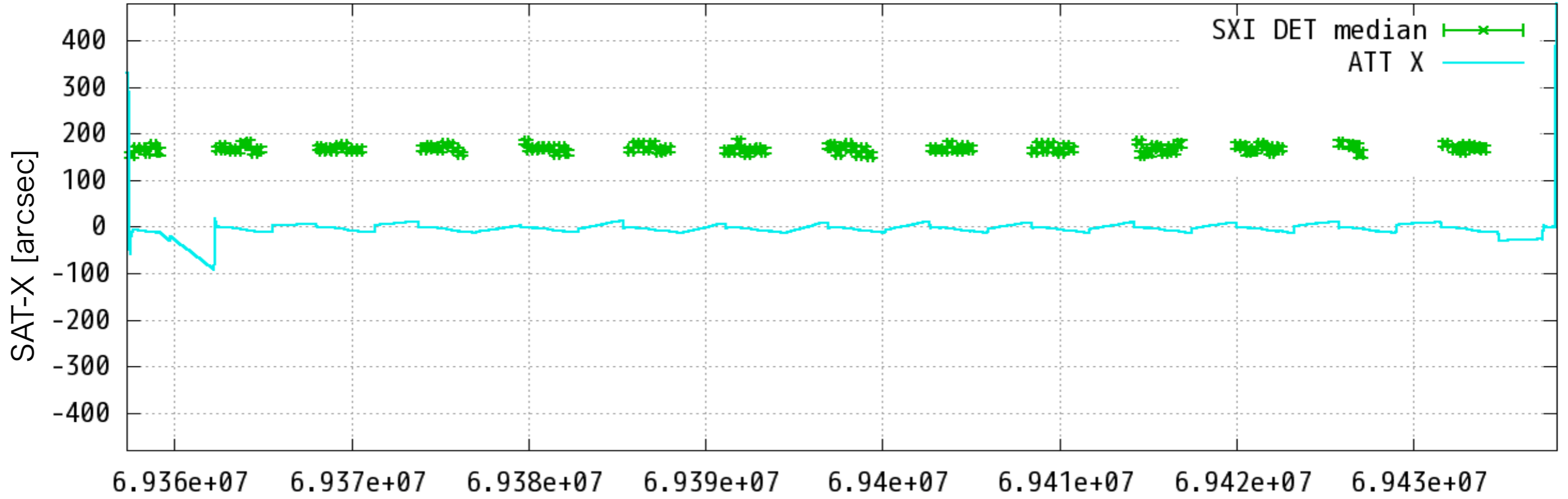
STT-ALL



100042040

IGR_J16318-4848 DET-X/DET-Y (unit: arcsec)

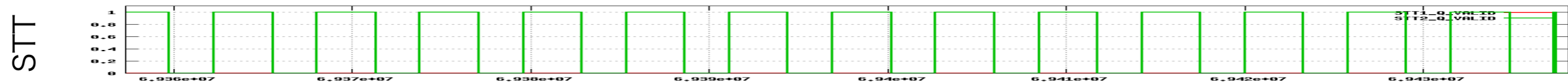
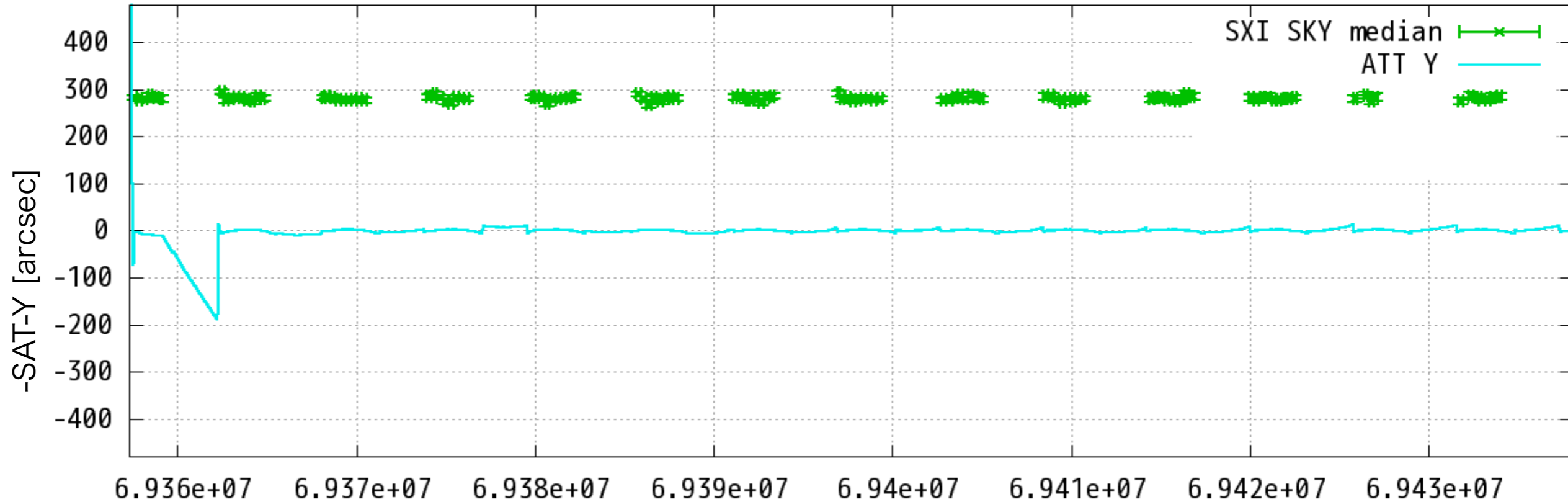
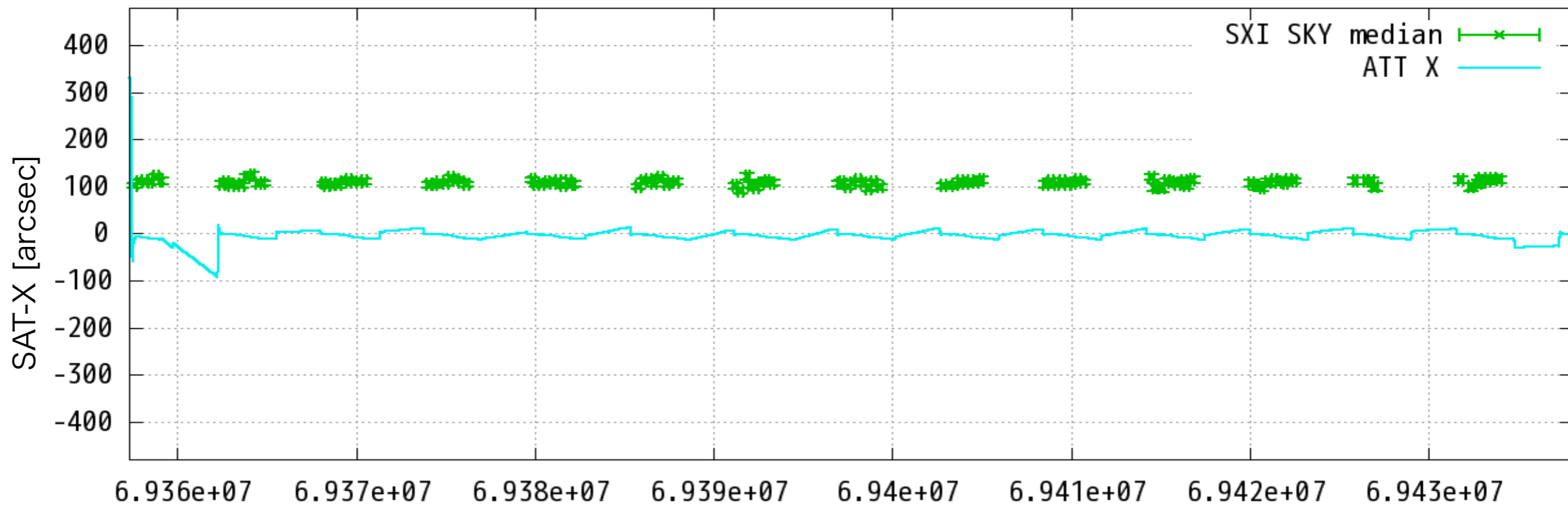
STT-CTL



100042040

IGR_J16318-4848 SKY-X/SKY-Y (unit: arcsec)

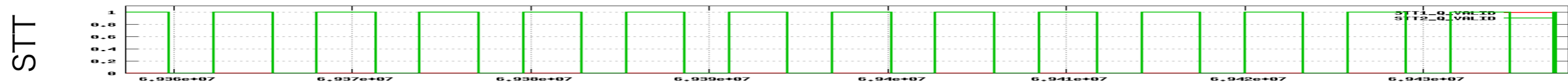
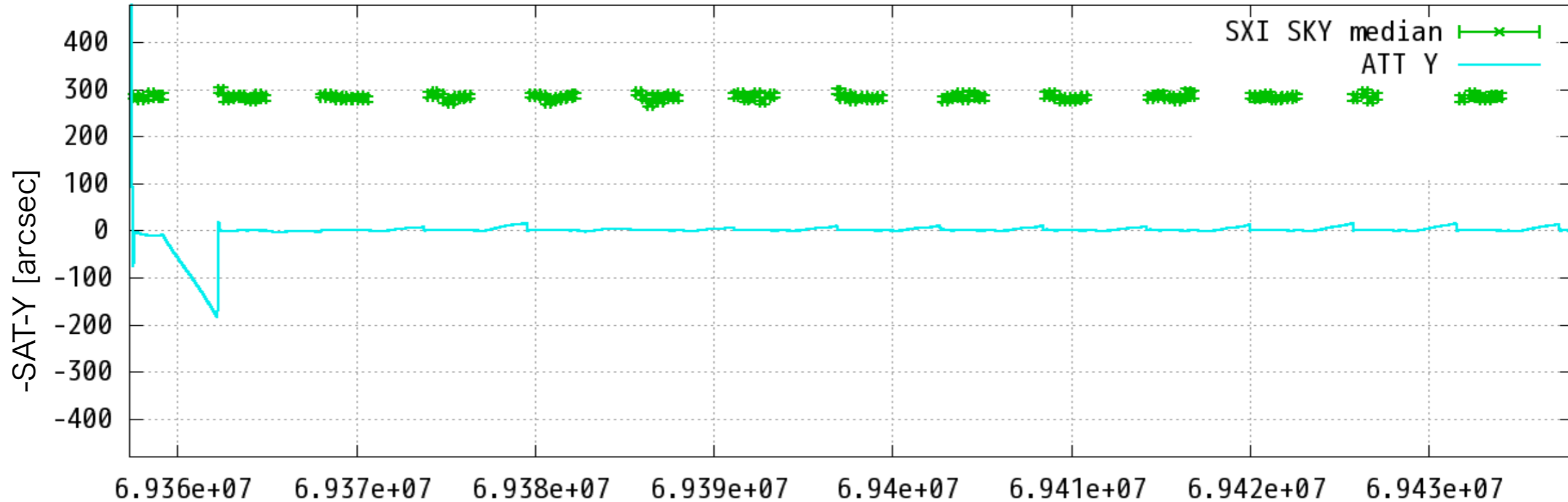
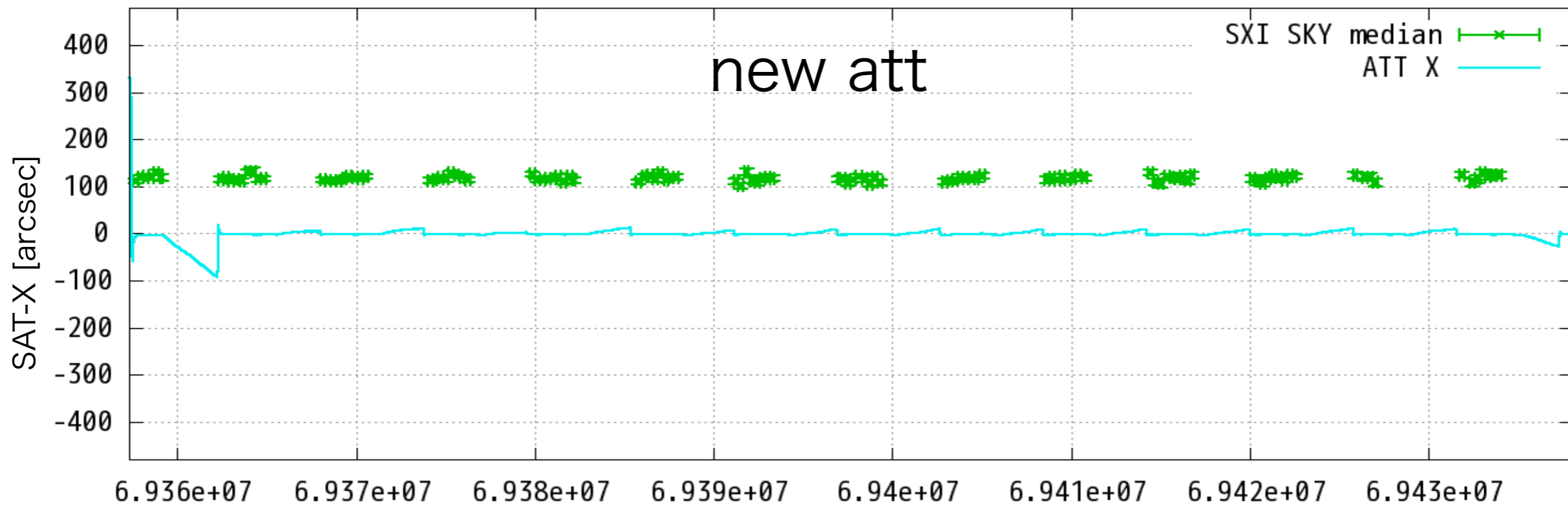
STT-CTL



100042040

IGR_J16318-4848 SKY-X/SKY-Y (unit: arcsec)

STT-CTL

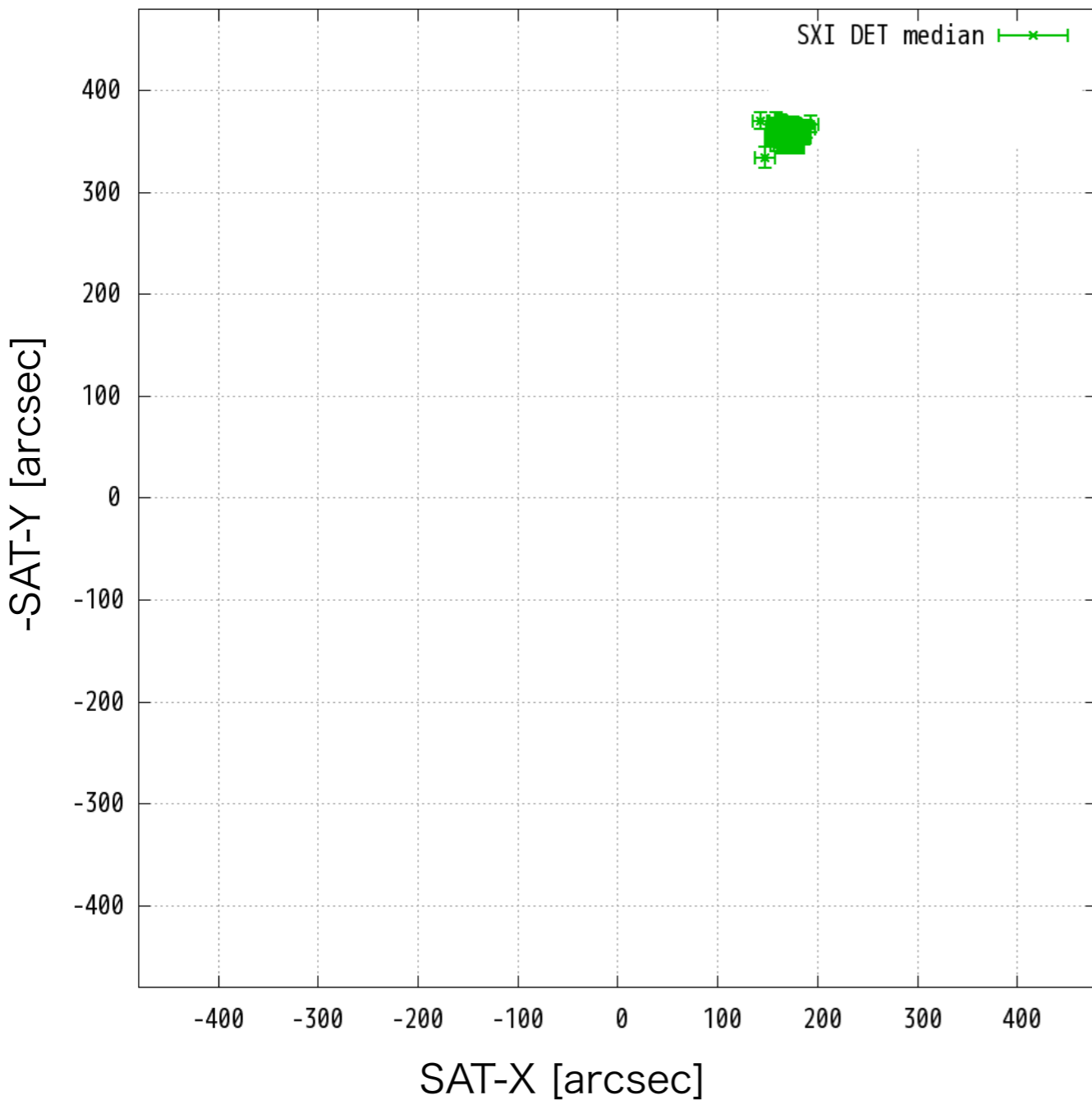


IRG_J (STT-ALL)

seq: 100042040

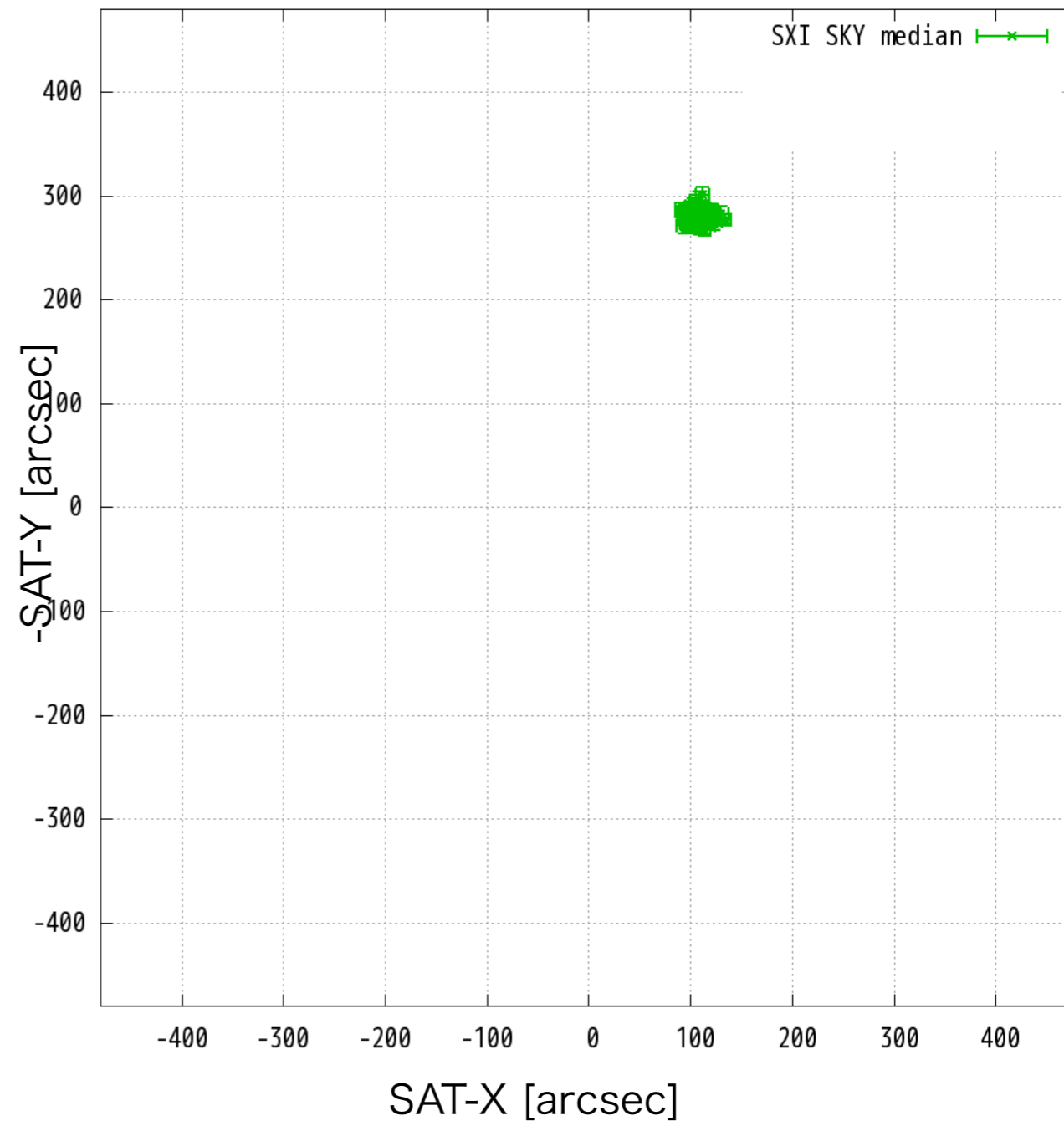
DET

IGR_J16318-4848 DET-X/DET-Y (unit: arcsec)



SKY

IGR_J16318-4848 SKY-X/SKY-Y (unit: arcsec)

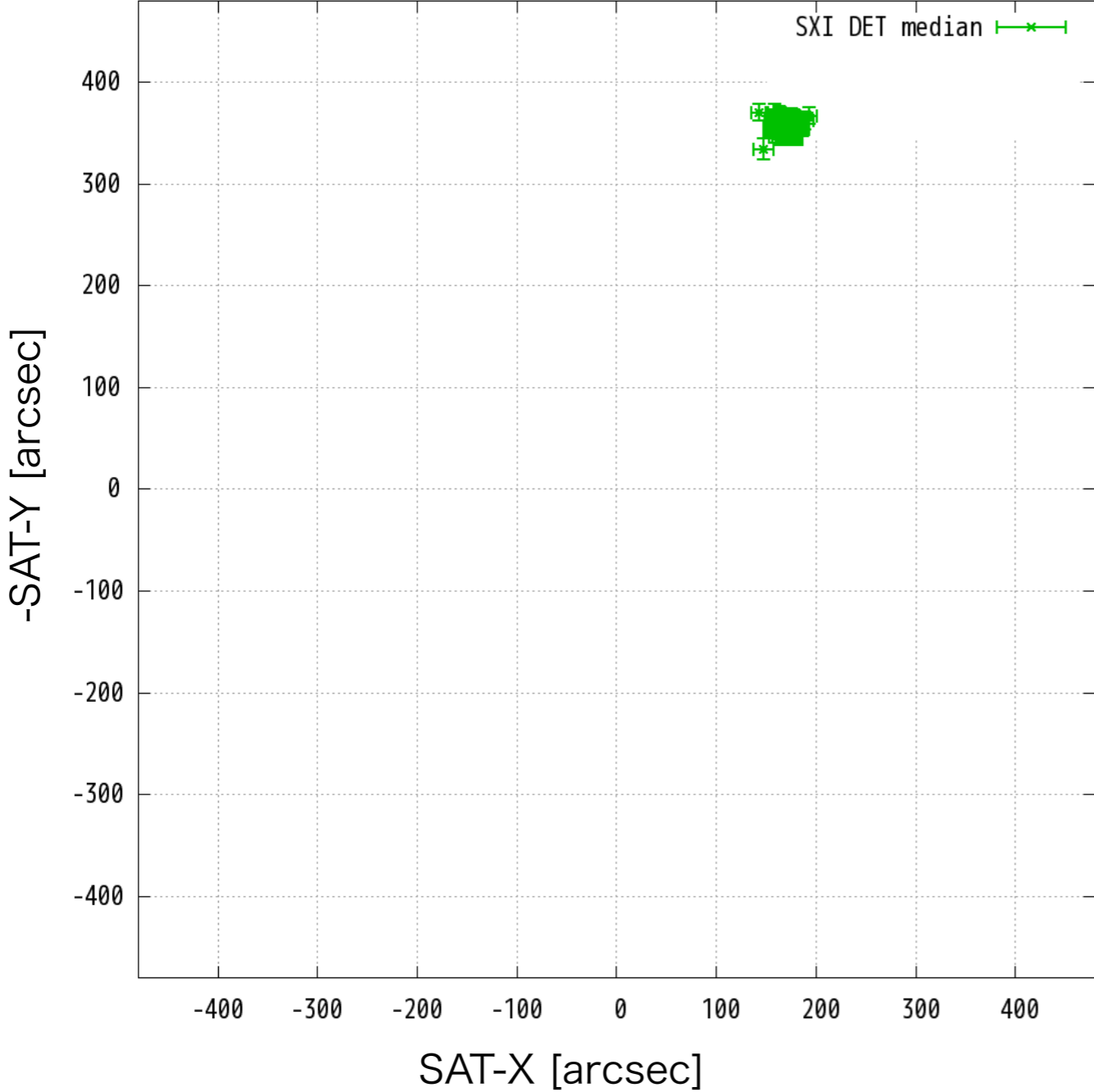


IRG_J (STT-ALL)

seq: 100042040

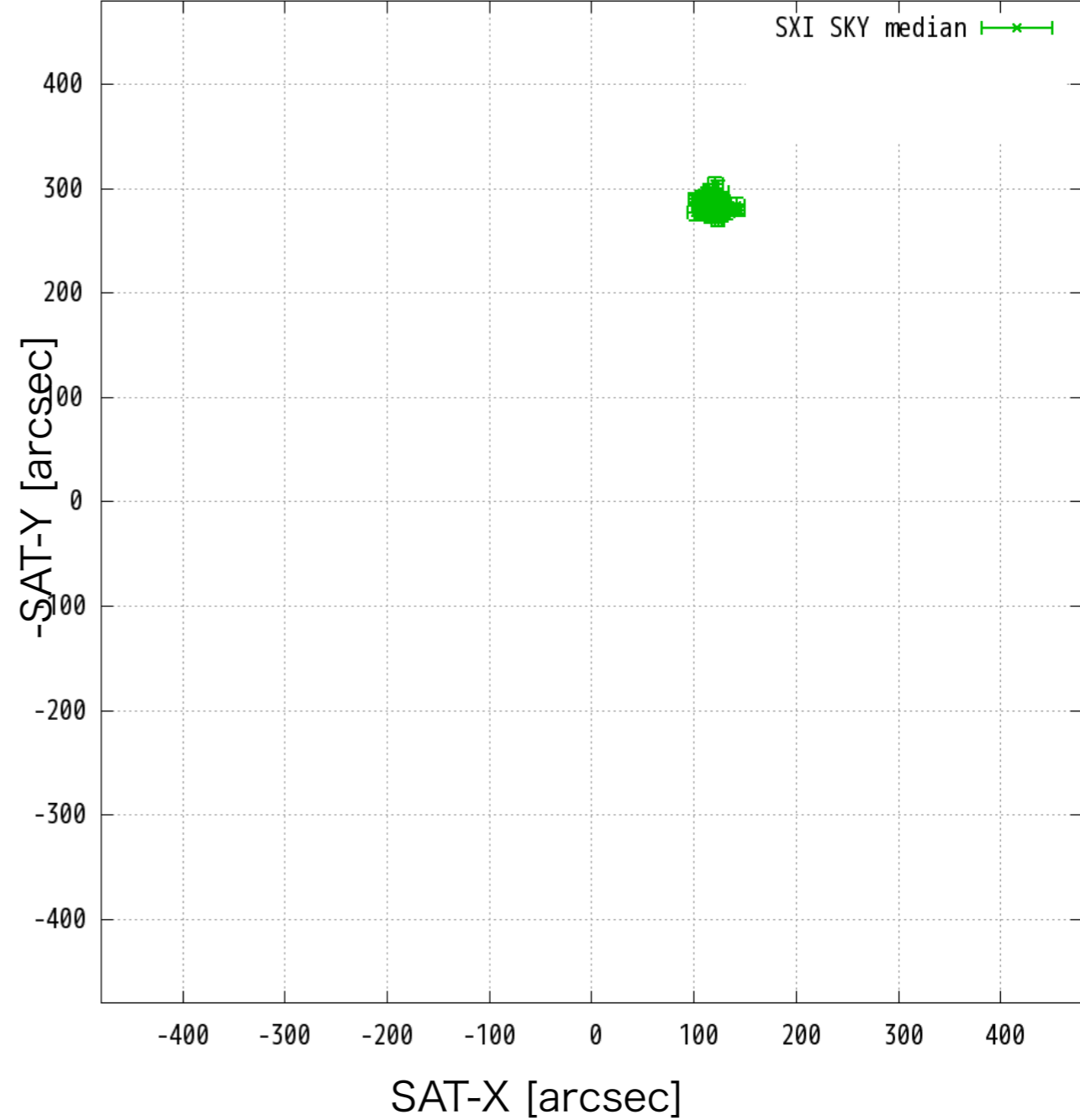
DET

IGR_J16318-4848 DET-X/DET-Y (unit: arcsec)



SKY new att

IGR_J16318-4848 SKY-X/SKY-Y (unit: arcsec)

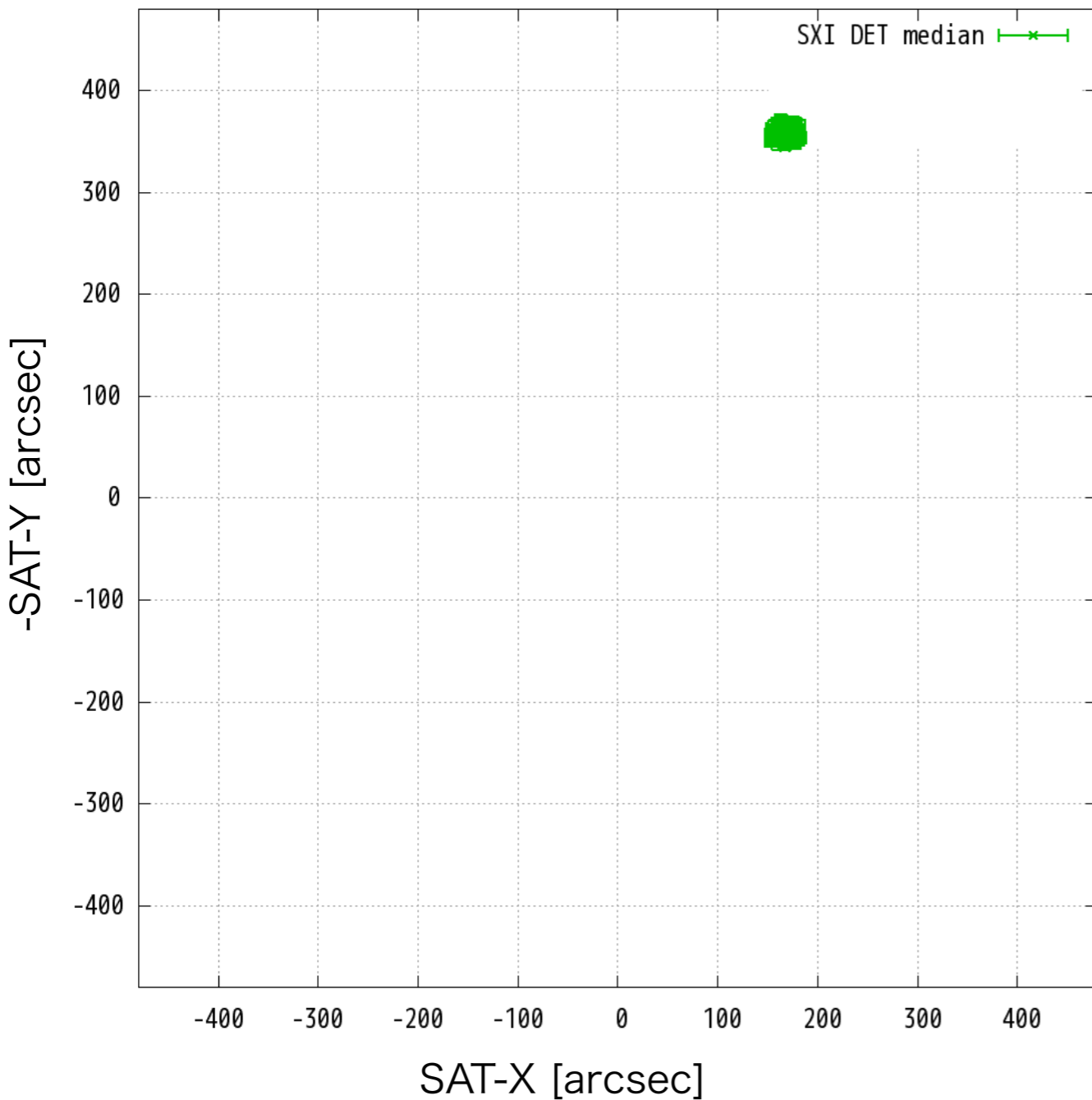


IRG_J (STT-CTL)

seq: 100042040

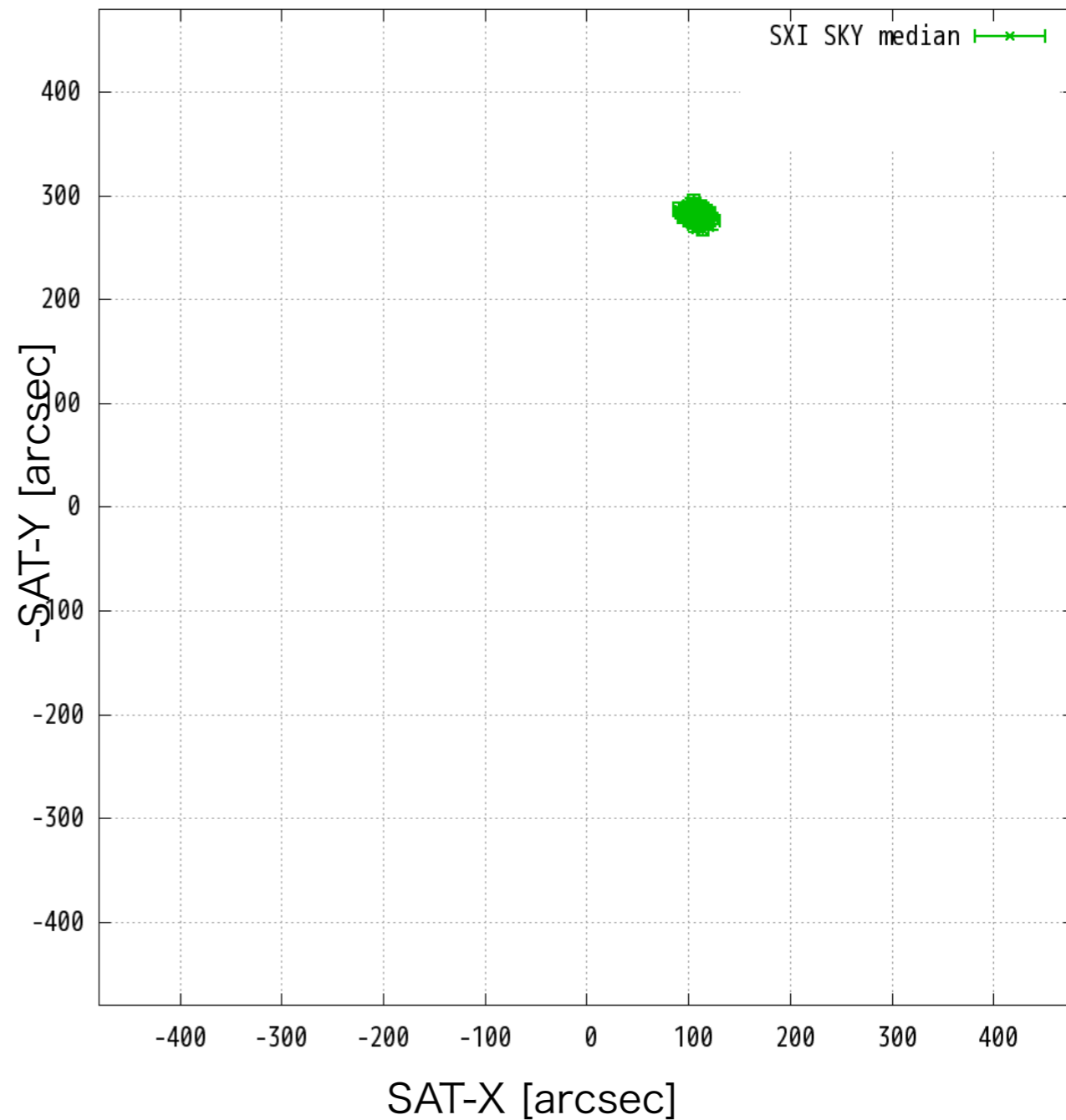
DET

IGR_J16318-4848 DET-X/DET-Y (unit: arcsec)



SKY

IGR_J16318-4848 SKY-X/SKY-Y (unit: arcsec)

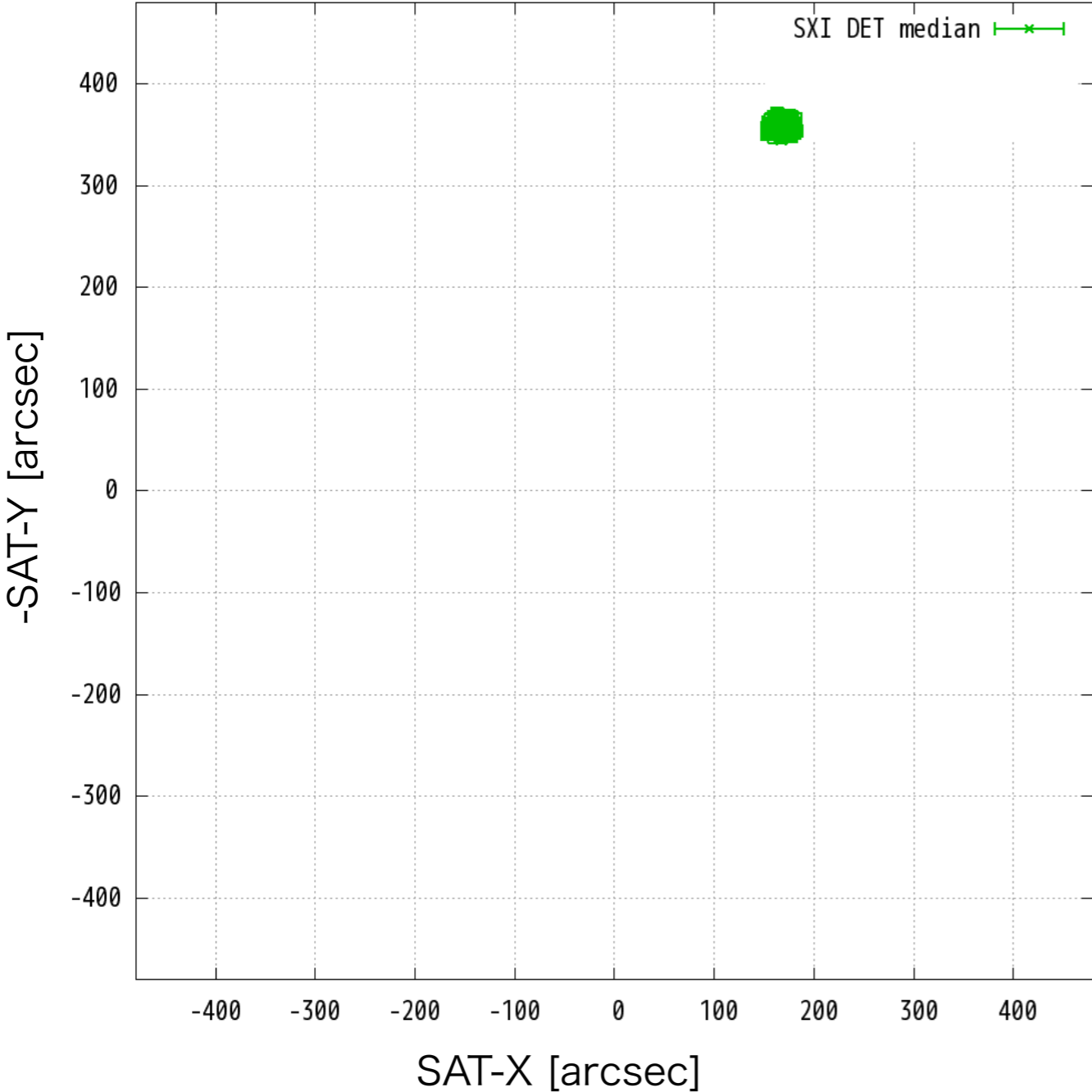


IRG_J (STT-CTL)

seq: 100042040

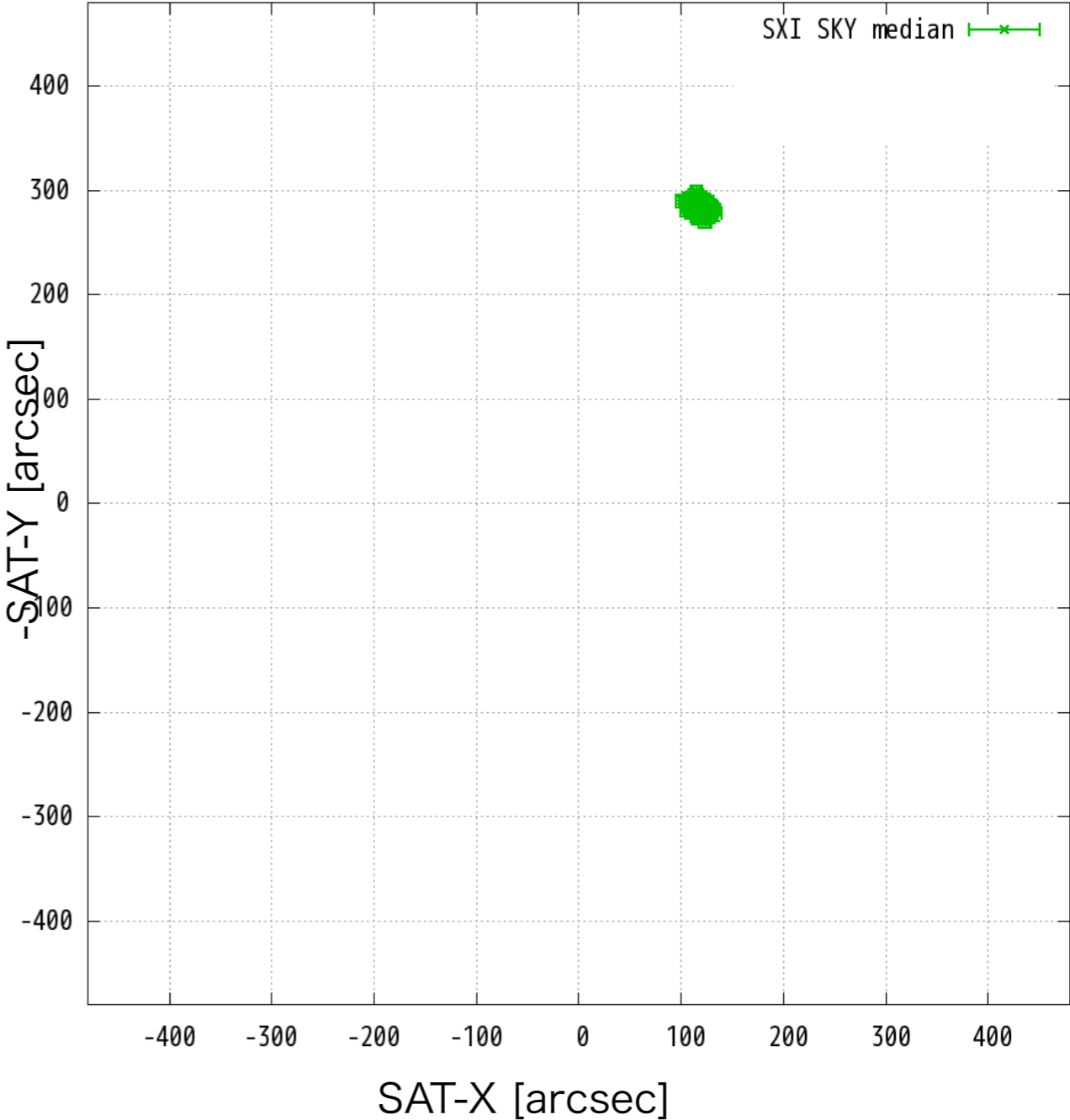
DET

IGR_J16318-4848 DET-X/DET-Y (unit: arcsec)



SKY new att

IGR_J16318-4848 SKY-X/SKY-Y (unit: arcsec)



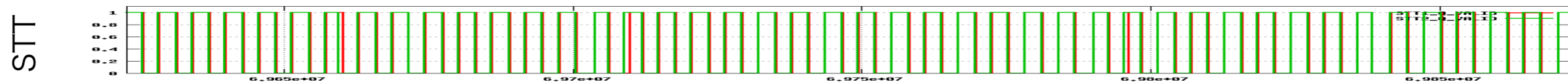
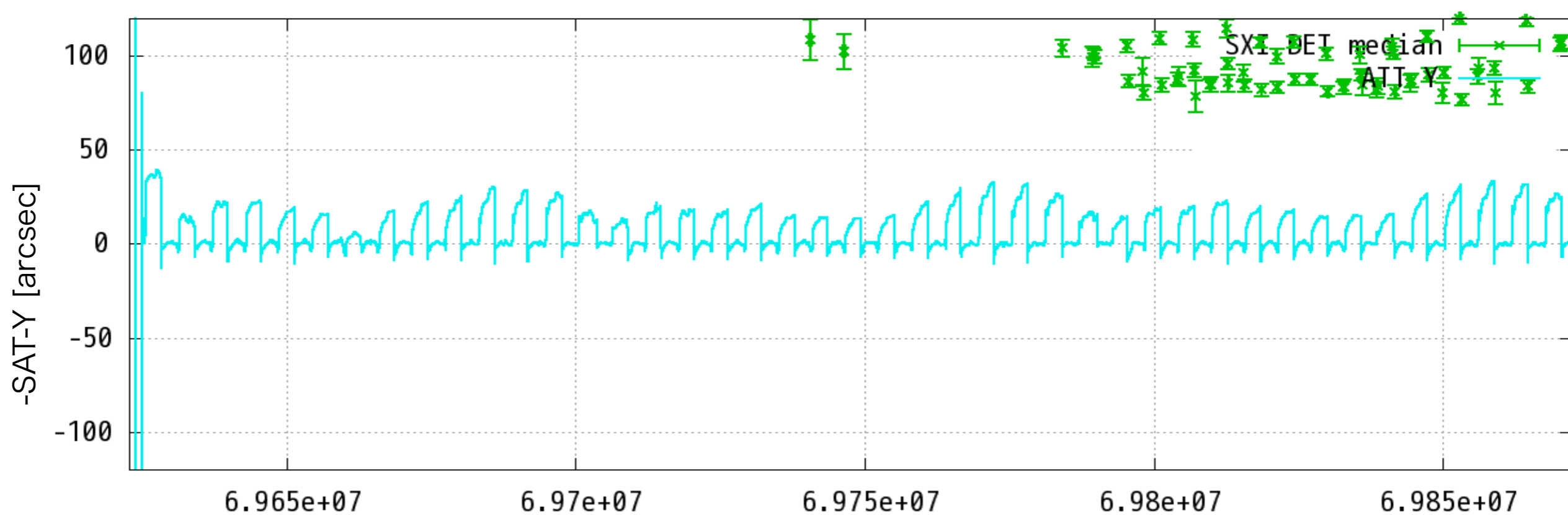
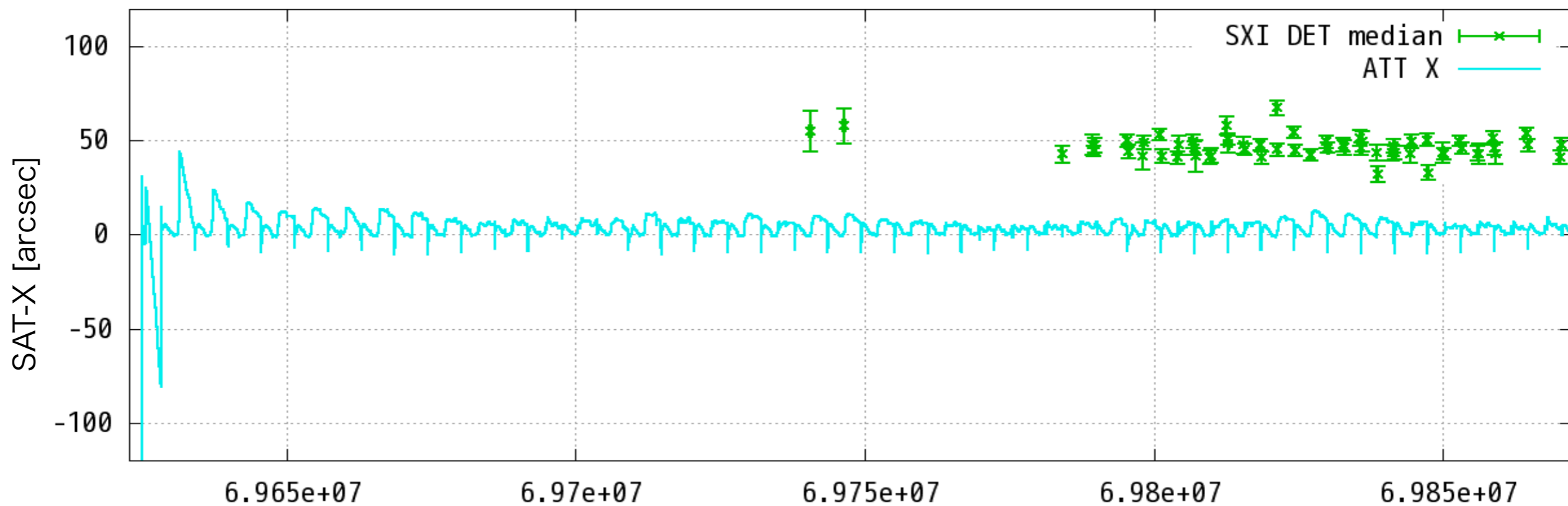
RXJ1856.5-3754

100043010, 20, 30, 40

100043010, 20, 30, 40

PX11856.5-3754 DET-X/DET-Y (unit: arcsec)

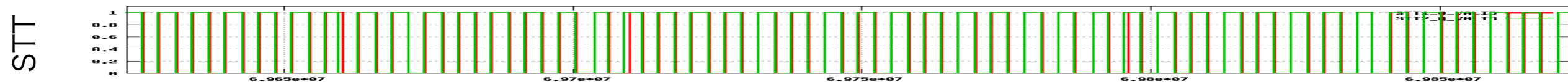
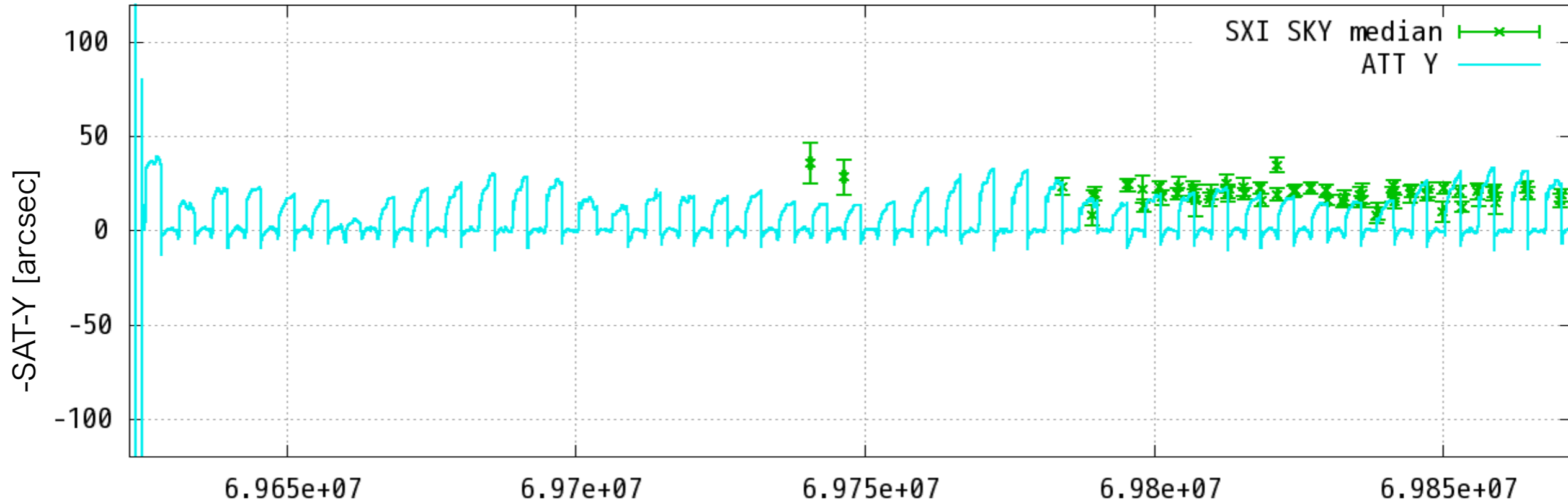
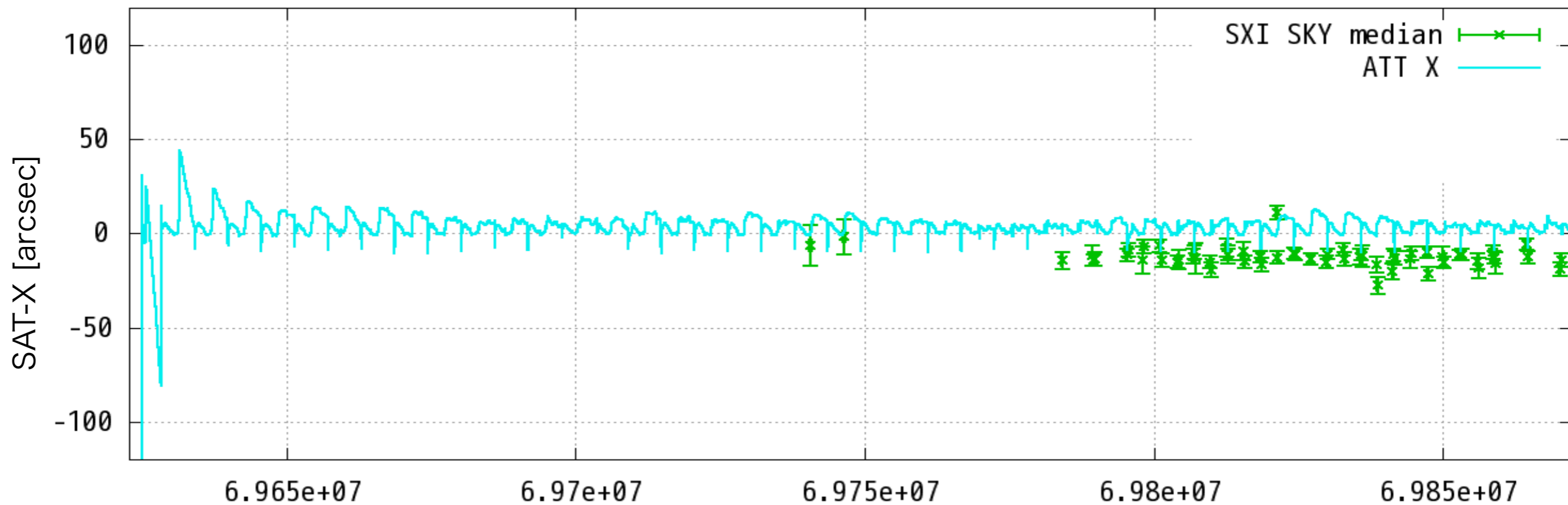
STT-ALL



100043010, 20, 30, 40

RXJ1856.5-3754 SKY-X/SKY-Y (unit: arcsec)

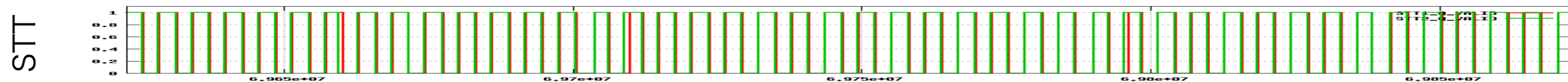
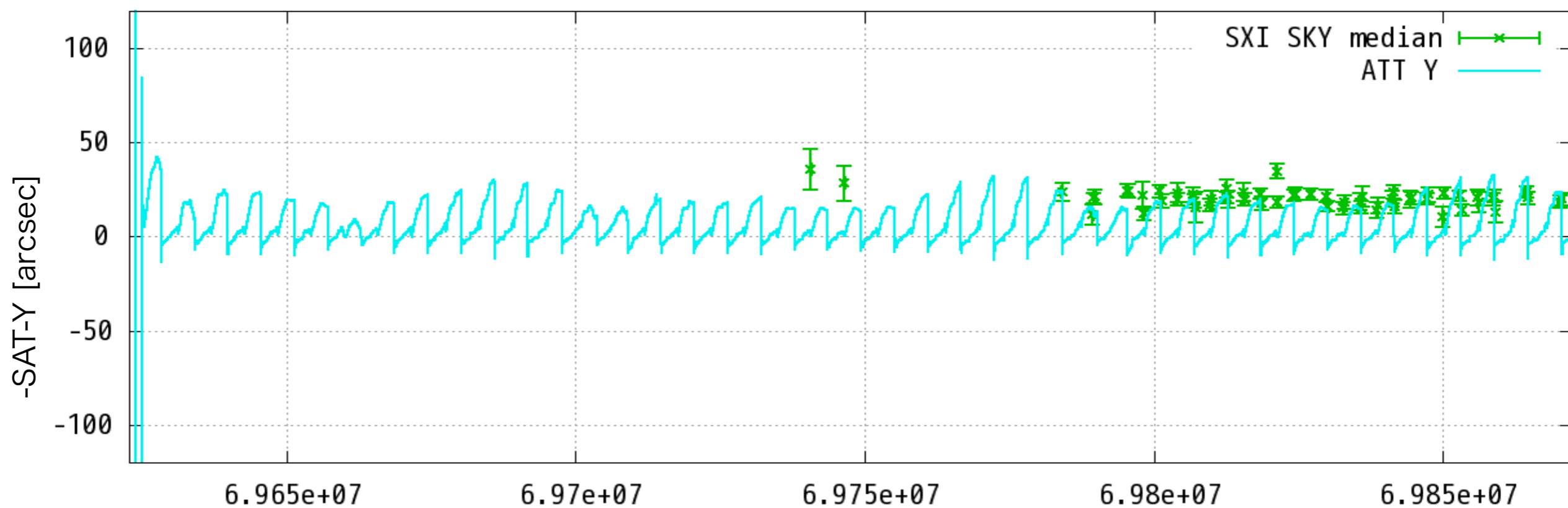
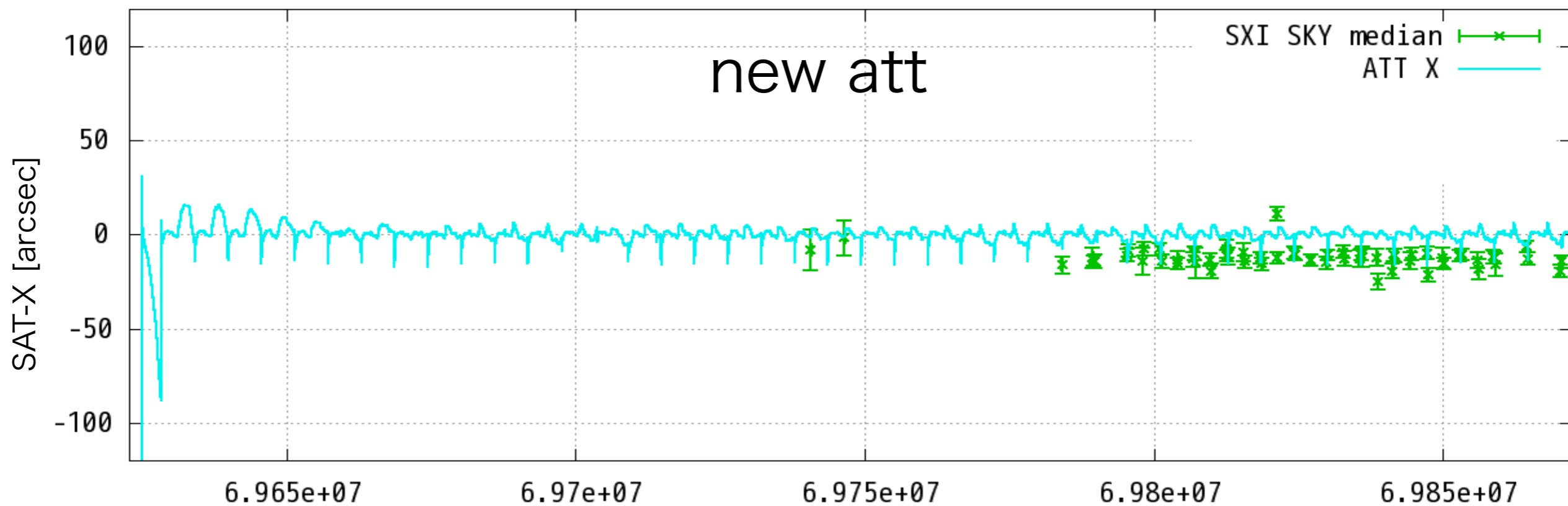
STT-ALL



100043010, 20, 30, 40

RXJ1856.5-3754 SKY-X/SKY-Y (unit: arcsec)

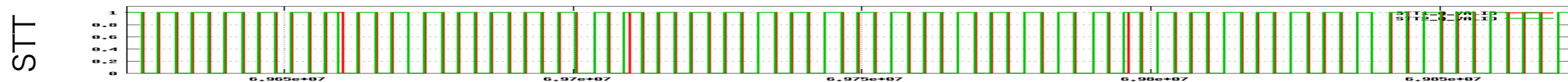
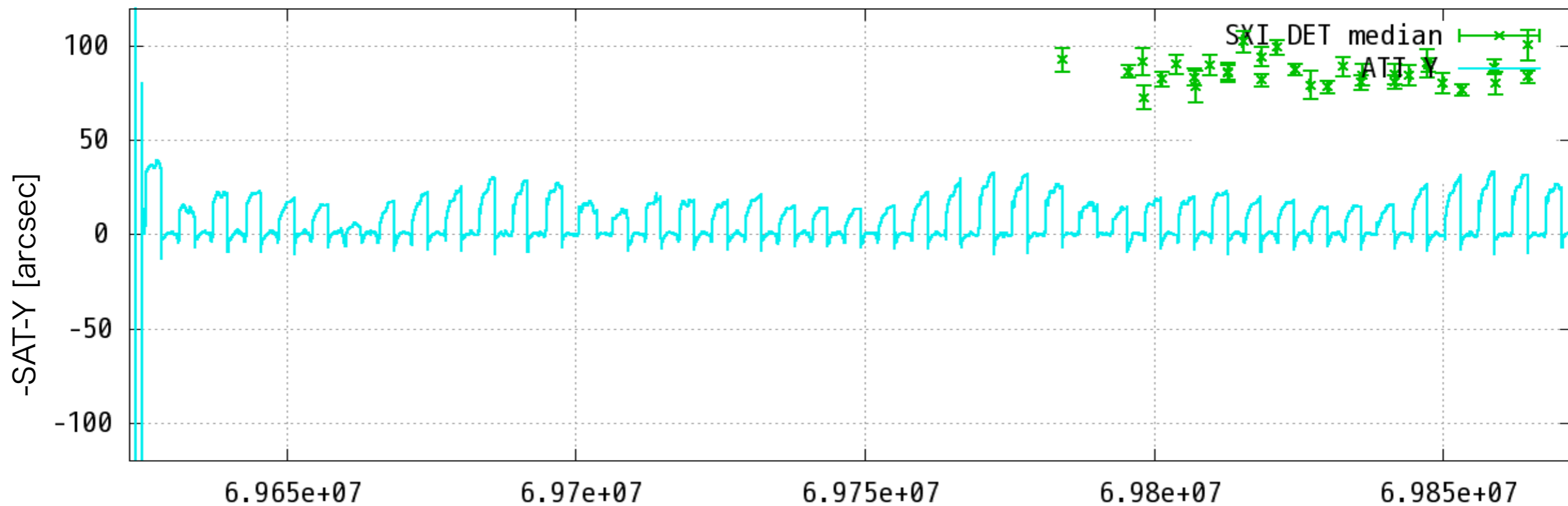
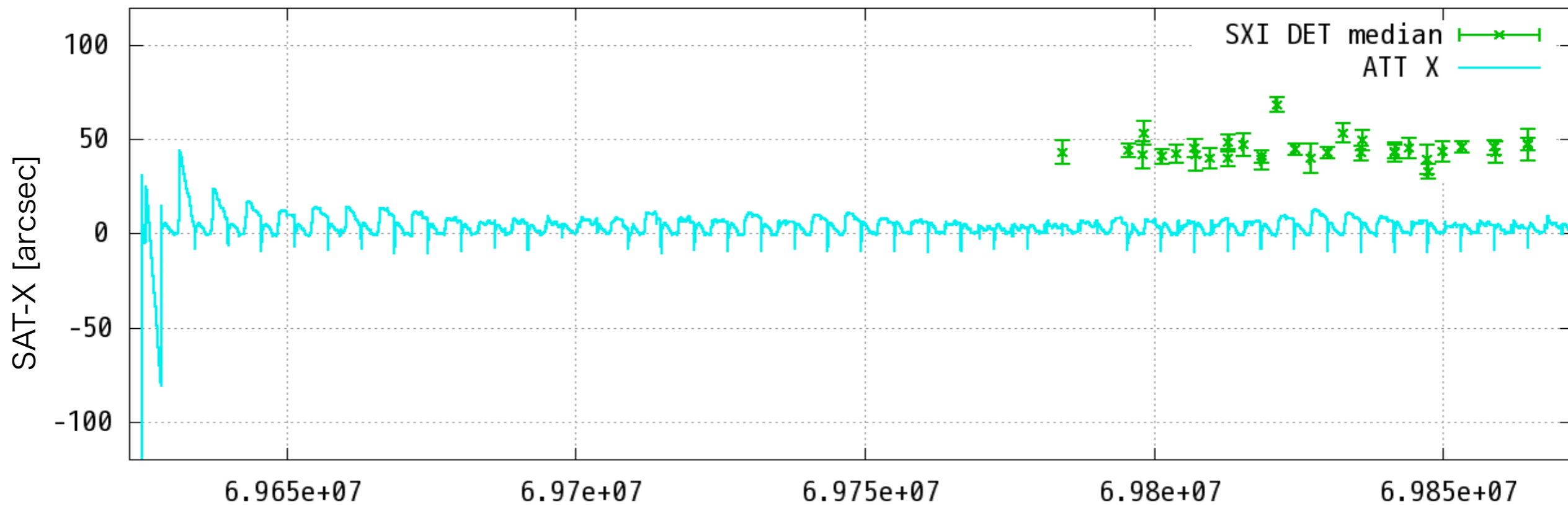
STT-ALL



100043010, 20, 30, 40

RXJ1856.5-3754 DET-X/DET-Y (unit: arcsec)

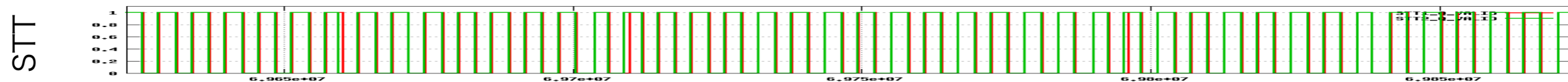
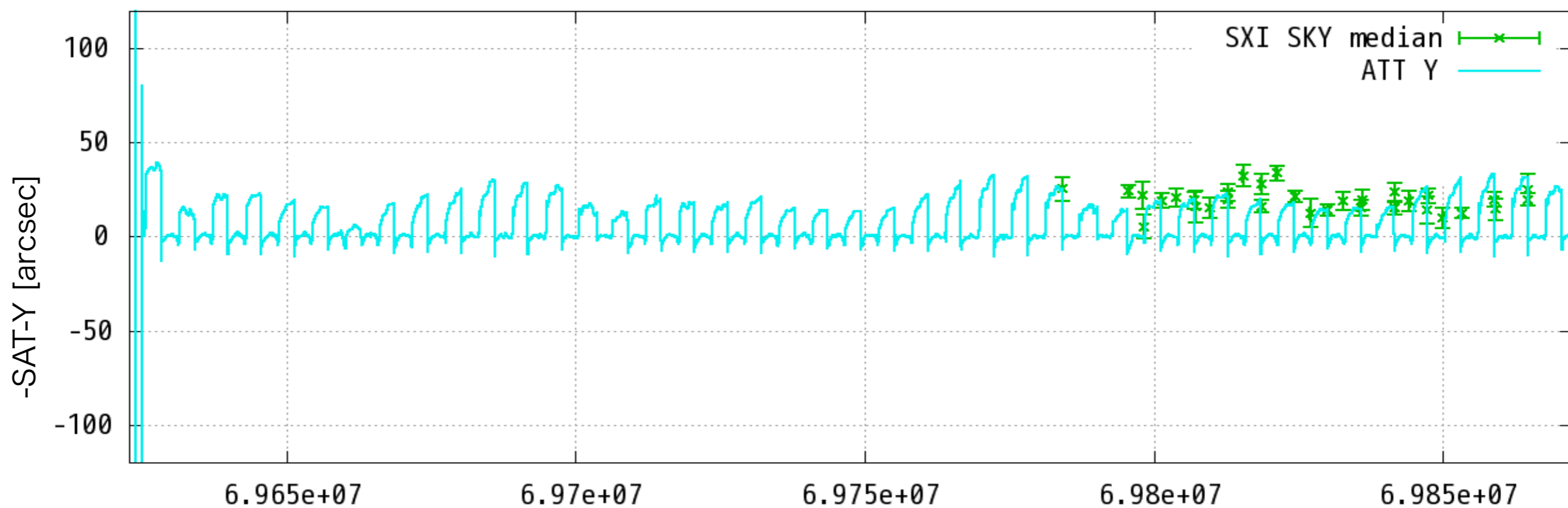
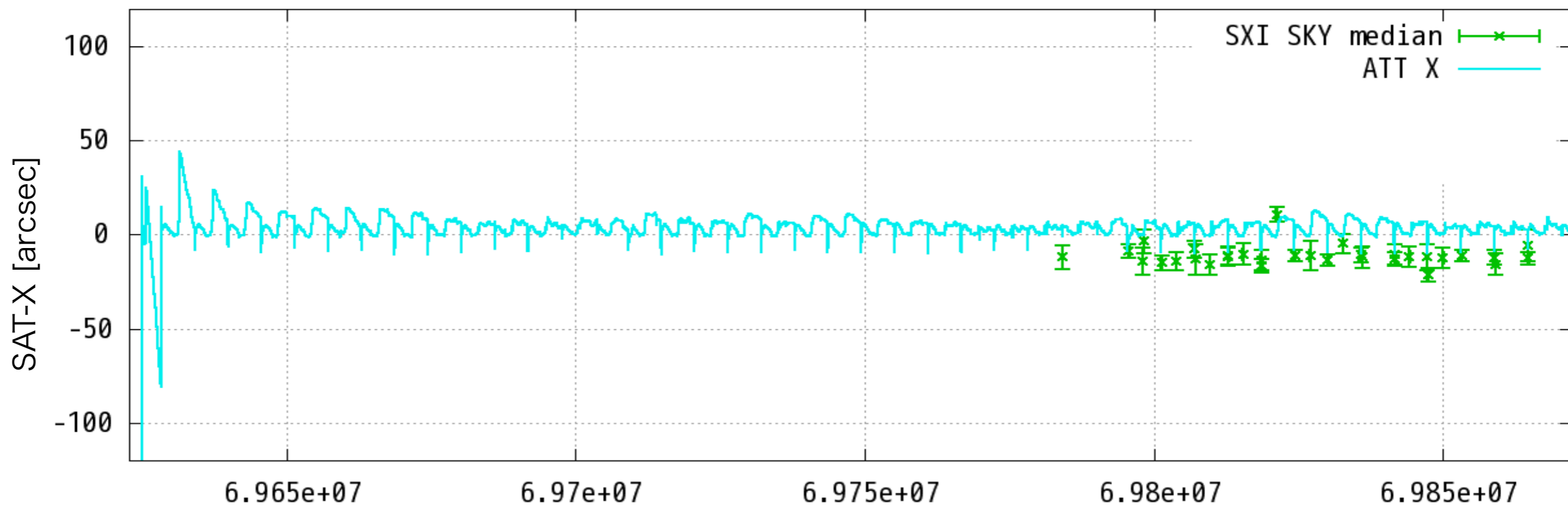
STT-CTL



100043010, 20, 30, 40

RXJ1856.5-3754 SKY-X/SKY-Y (unit: arcsec)

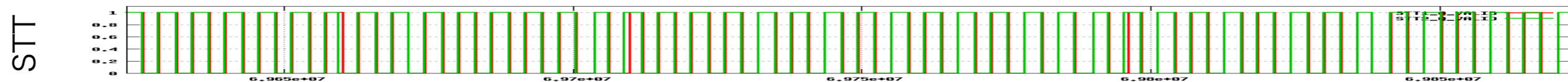
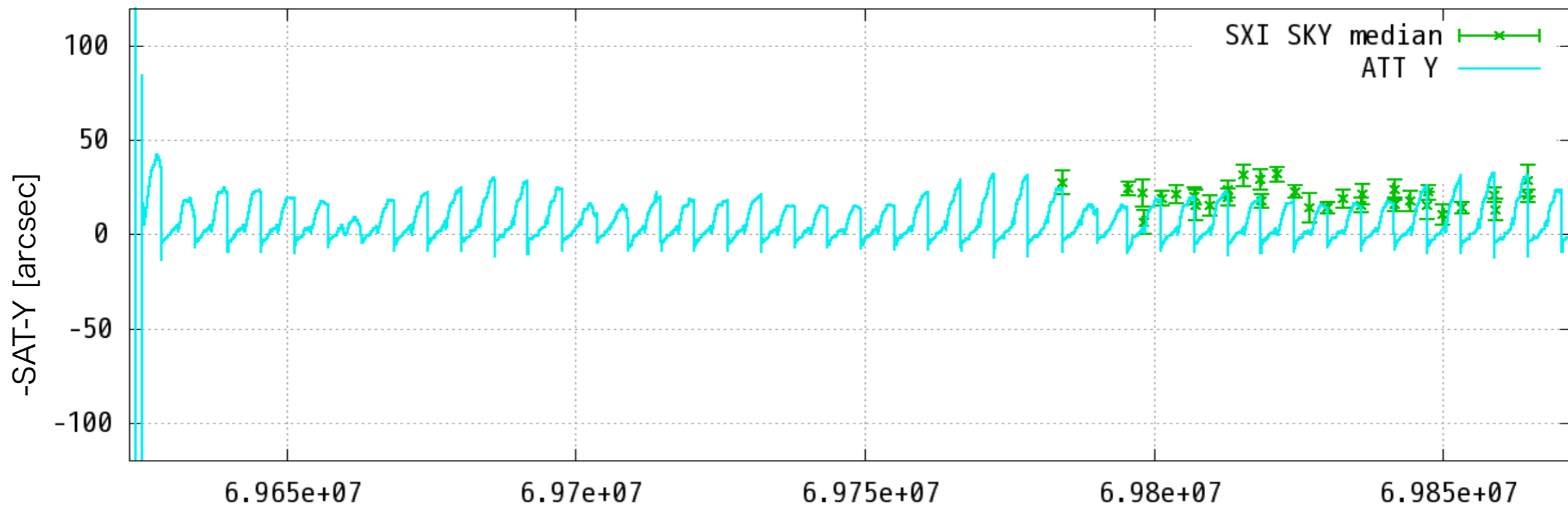
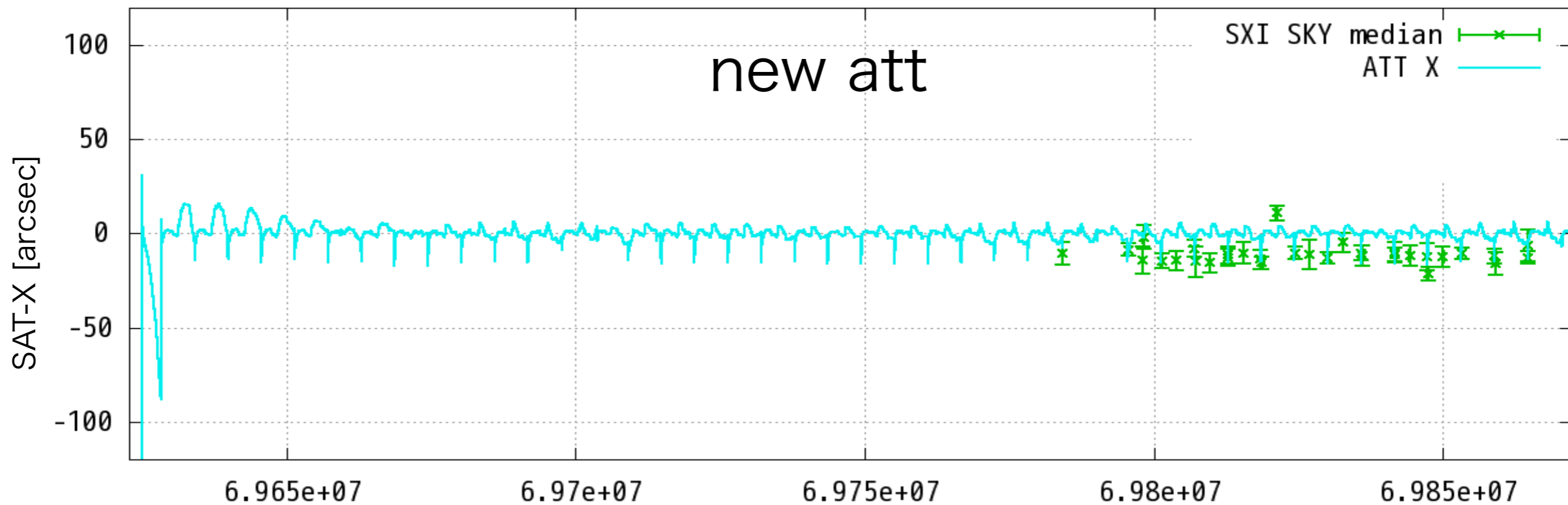
STT-CTL



100043010, 20, 30, 40

RXJ1856.5-3754 SKY-X/SKY-Y (unit: arcsec)

STT-CTL

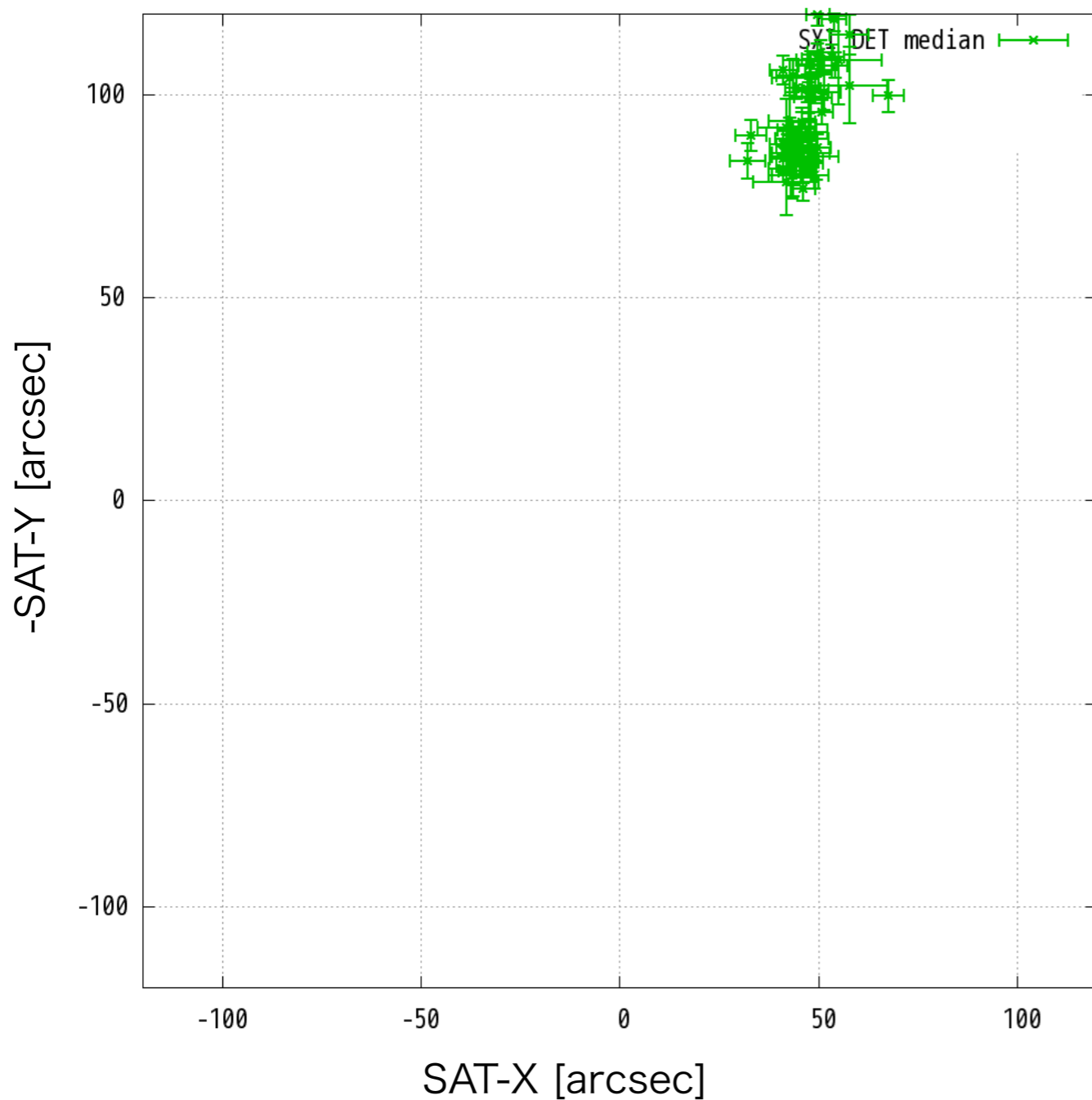


RXJ (STT-ALL)

seq: 100043010, 20, 30, 40

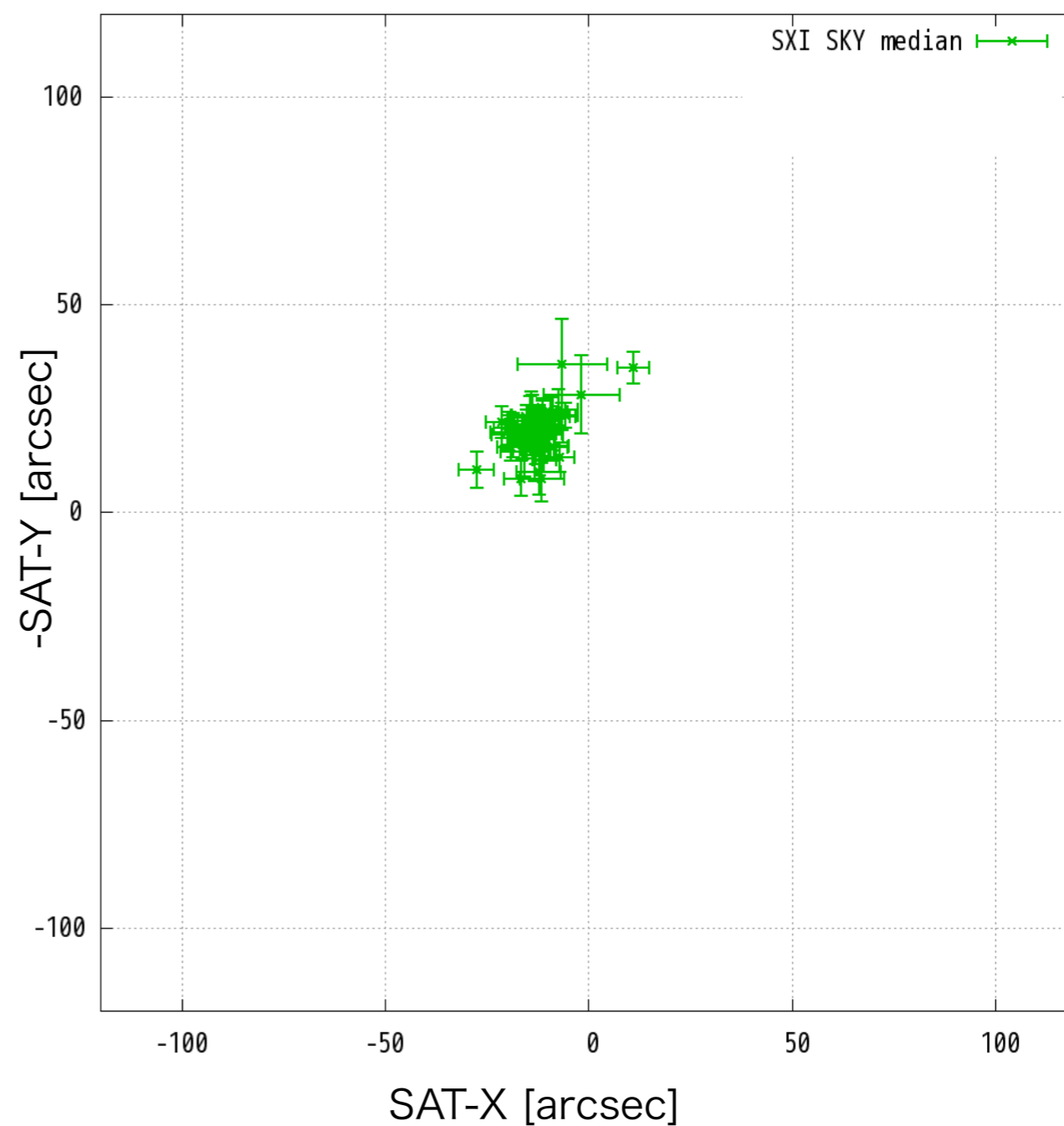
DET

RXJ1856.5-3754 DET-X/DET-Y (unit: arcsec)



SKY

RXJ1856.5-3754 SKY-X/SKY-Y (unit: arcsec)

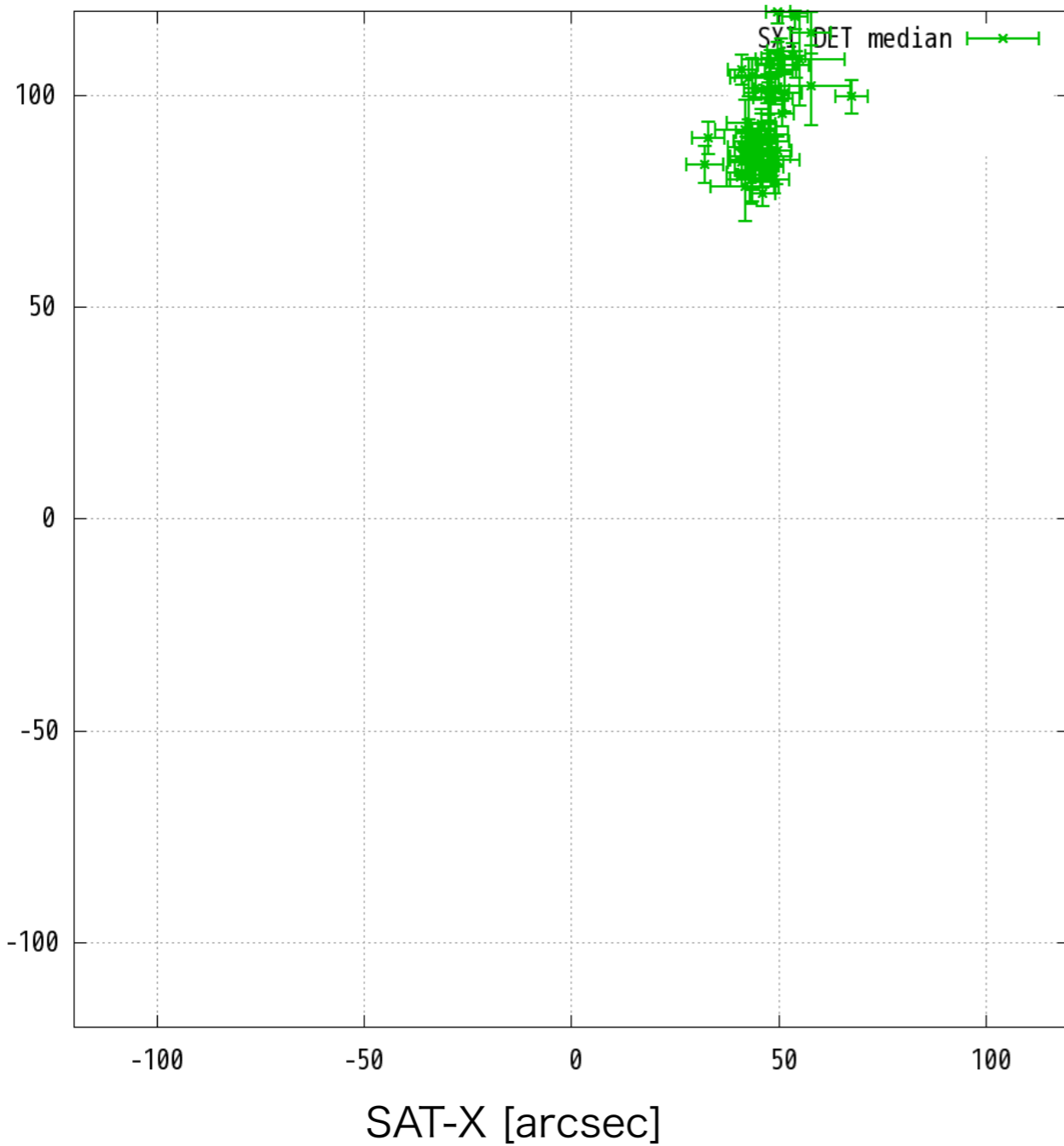


RXJ (STT-ALL)

seq: 100043010, 20, 30, 40

DET

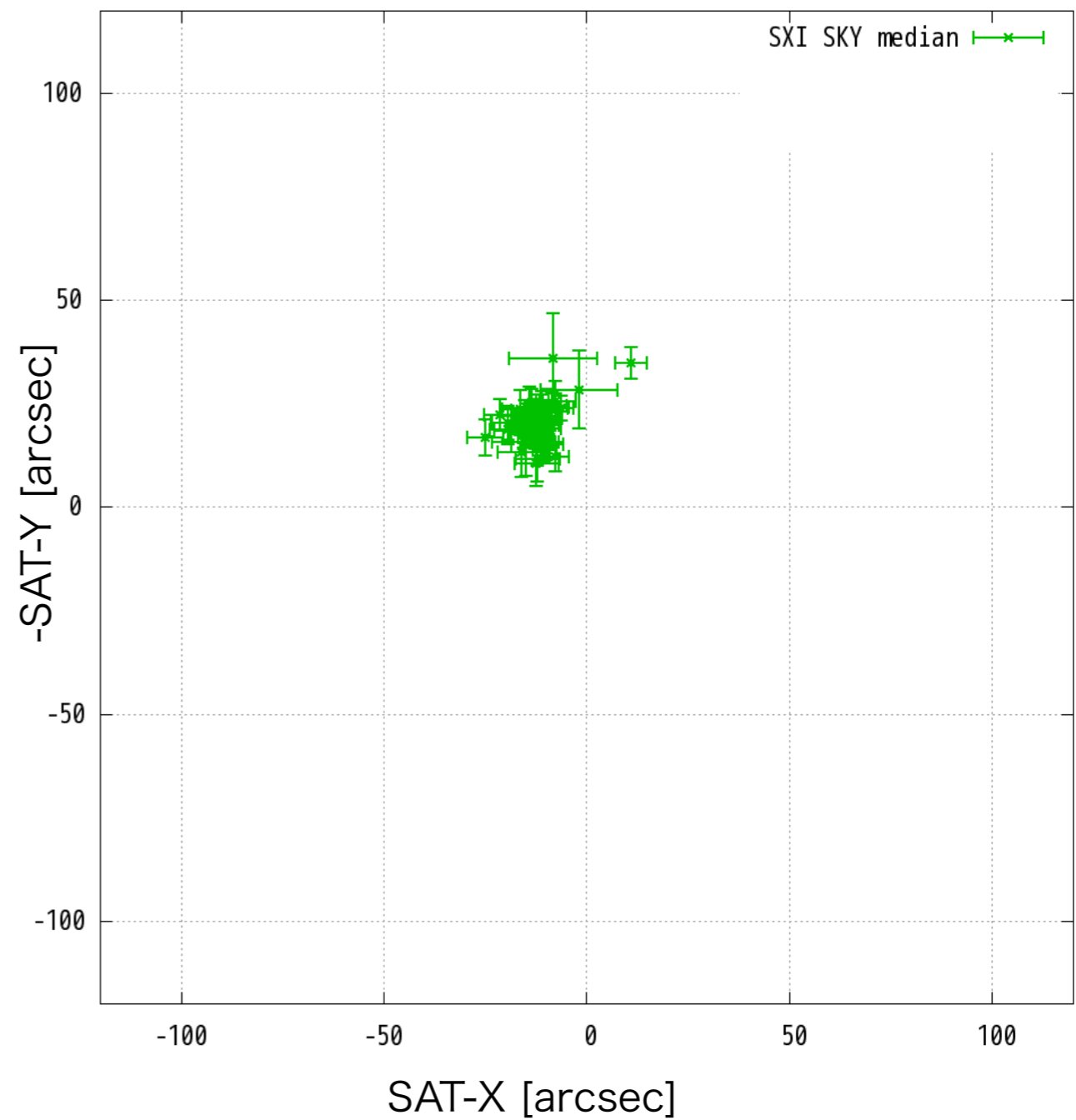
RXJ1856.5-3754 DET-X/DET-Y (unit: arcsec)



SKY

new att

RXJ1856.5-3754 SKY-X/SKY-Y (unit: arcsec)

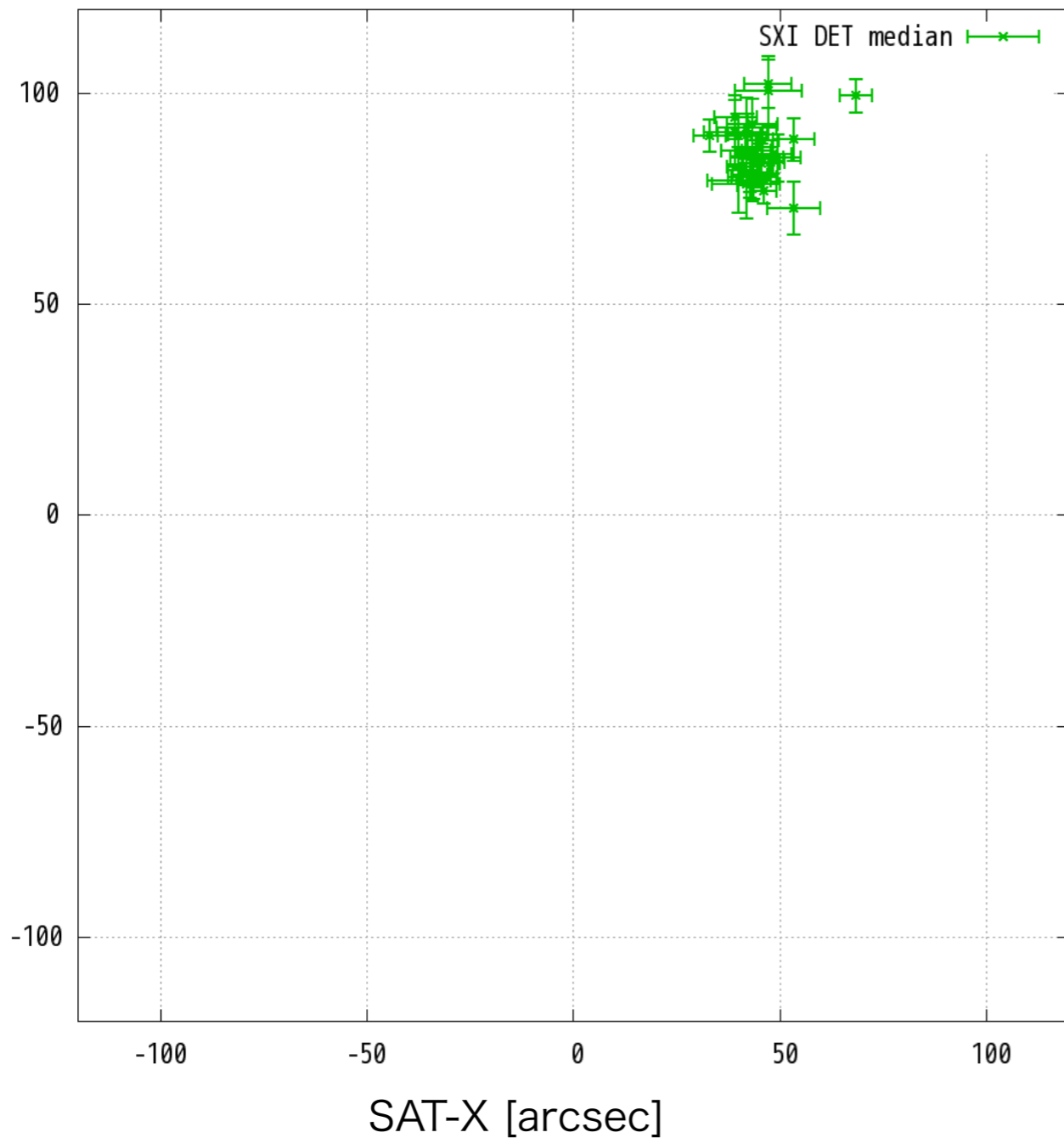


RXJ (STT-CTL)

seq: 100043010, 20, 30, 40

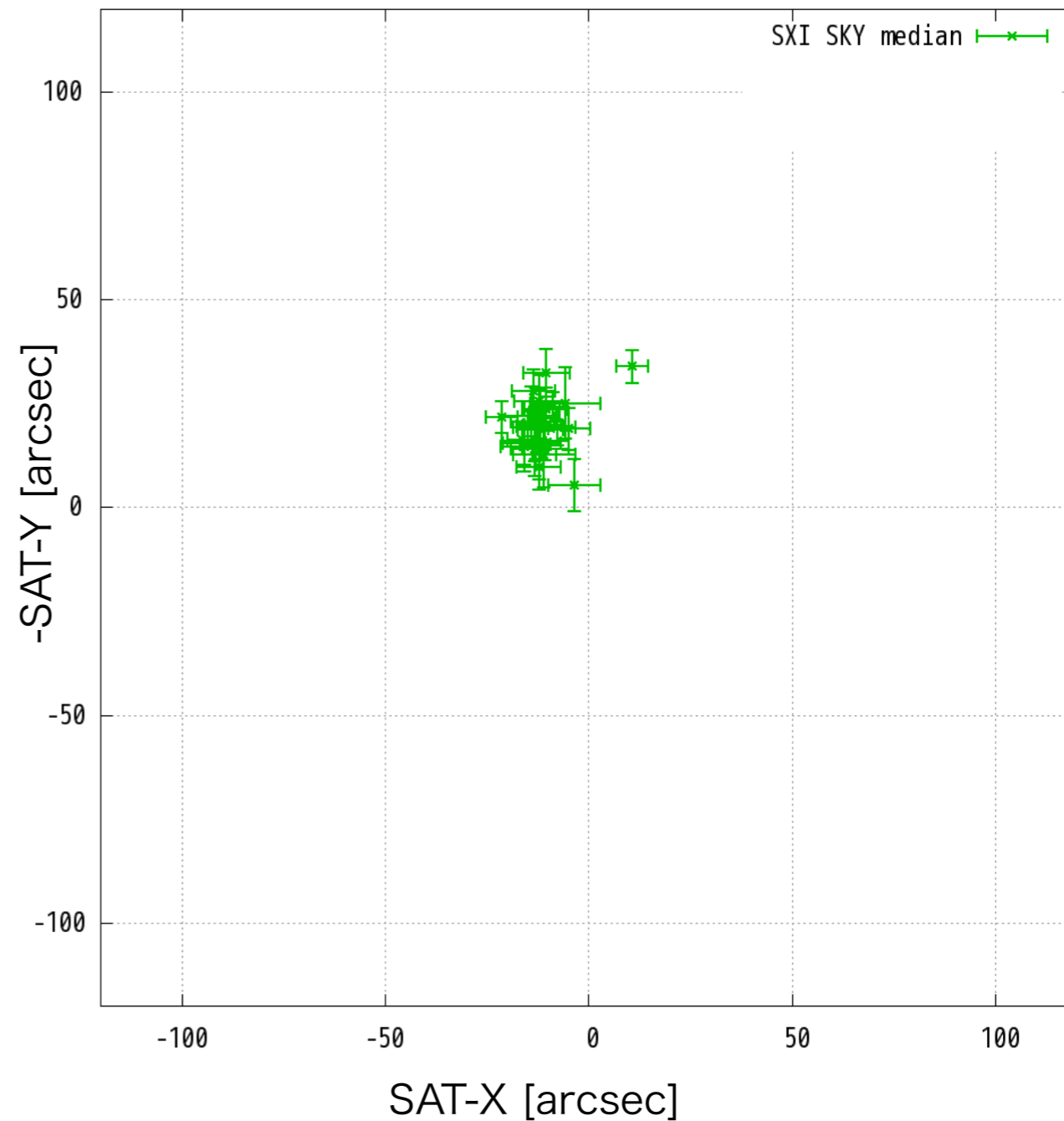
DET

RXJ1856.5-3754 DET-X/DET-Y (unit: arcsec)



SKY

RXJ1856.5-3754 SKY-X/SKY-Y (unit: arcsec)

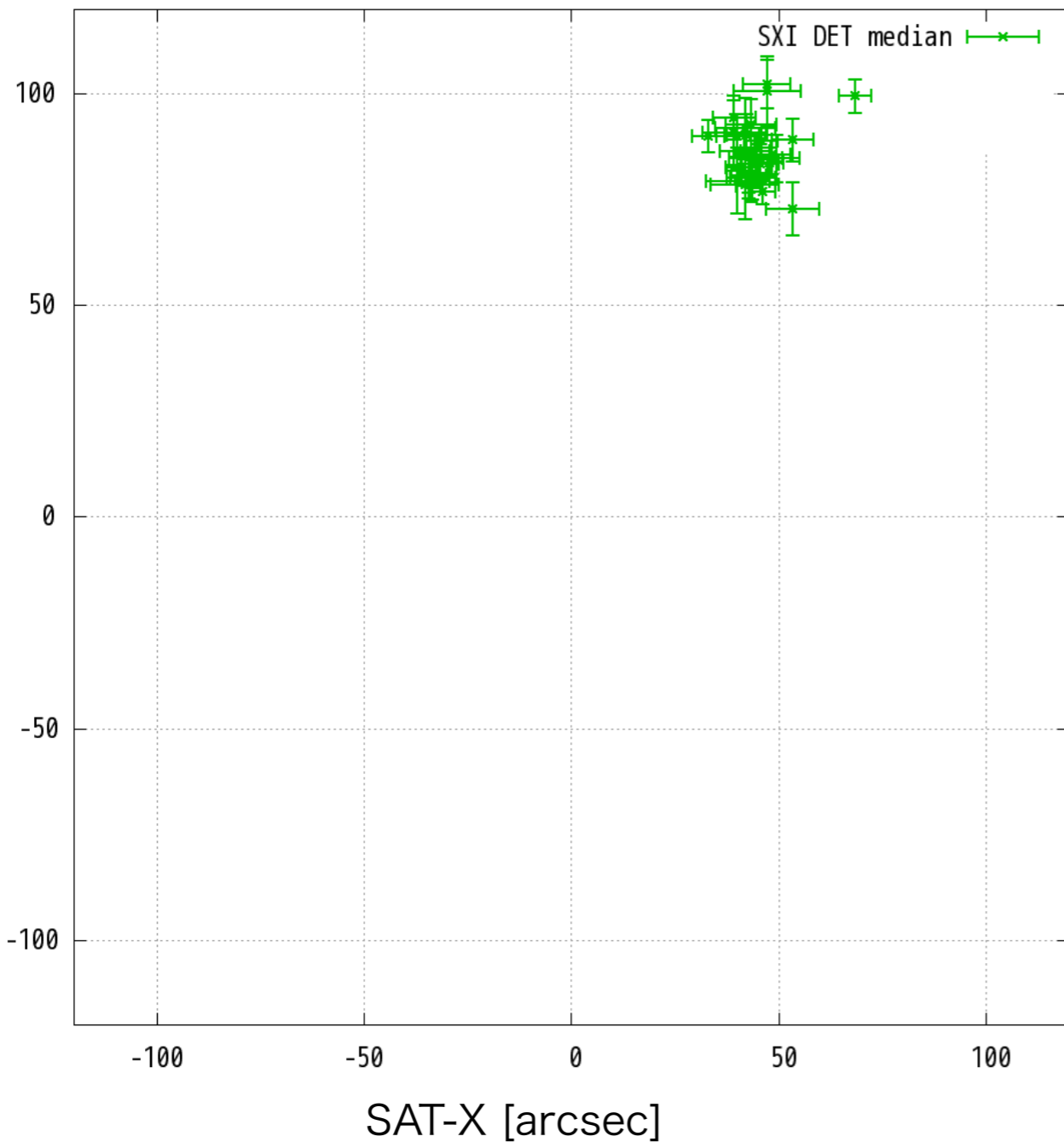


RXJ (STT-CTL)

seq: 100043010, 20, 30, 40

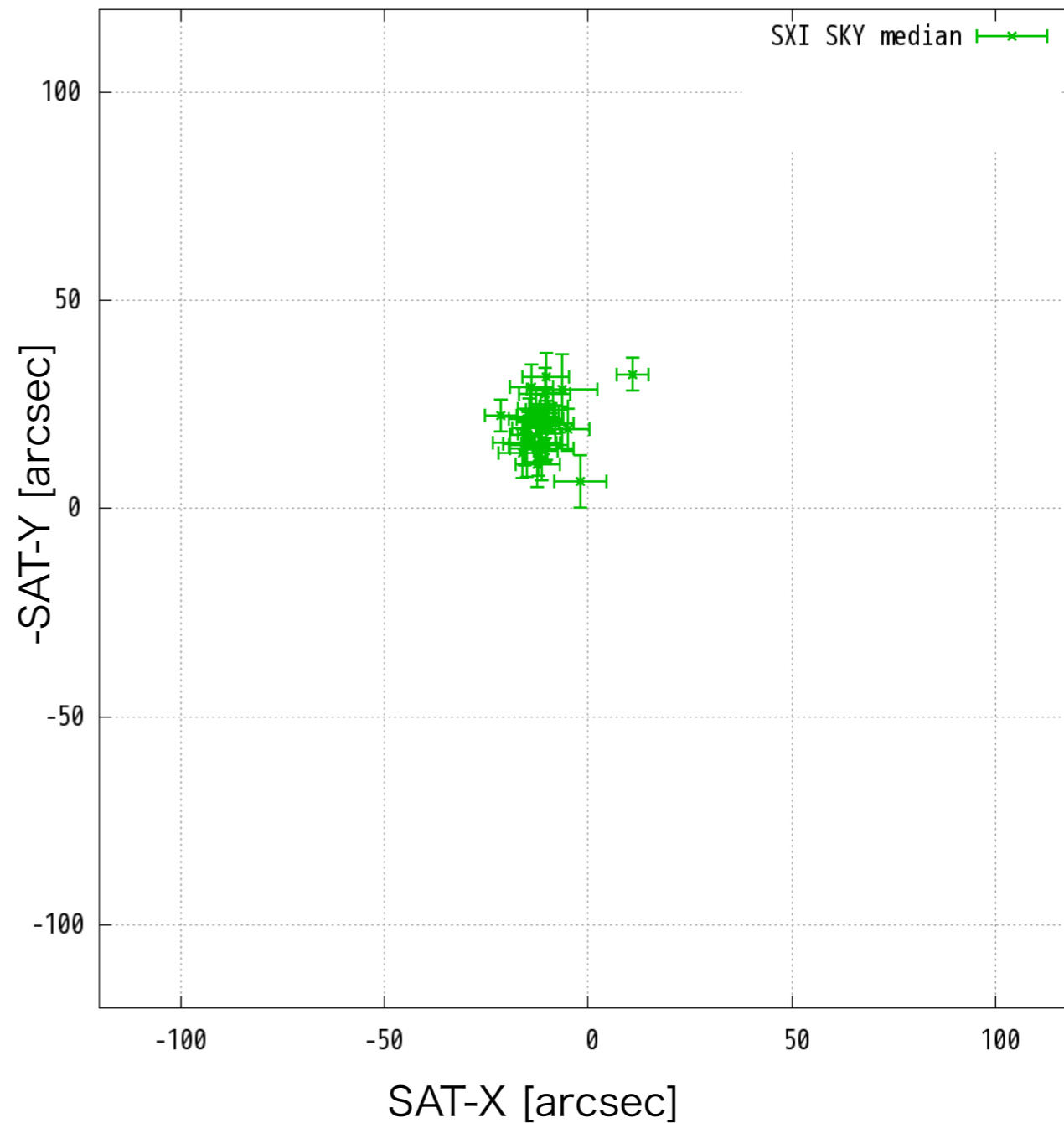
DET

RXJ1856.5-3754 DET-X/DET-Y (unit: arcsec)



SKY new att

RXJ1856.5-3754 SKY-X/SKY-Y (unit: arcsec)



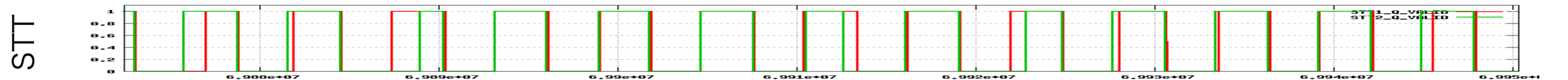
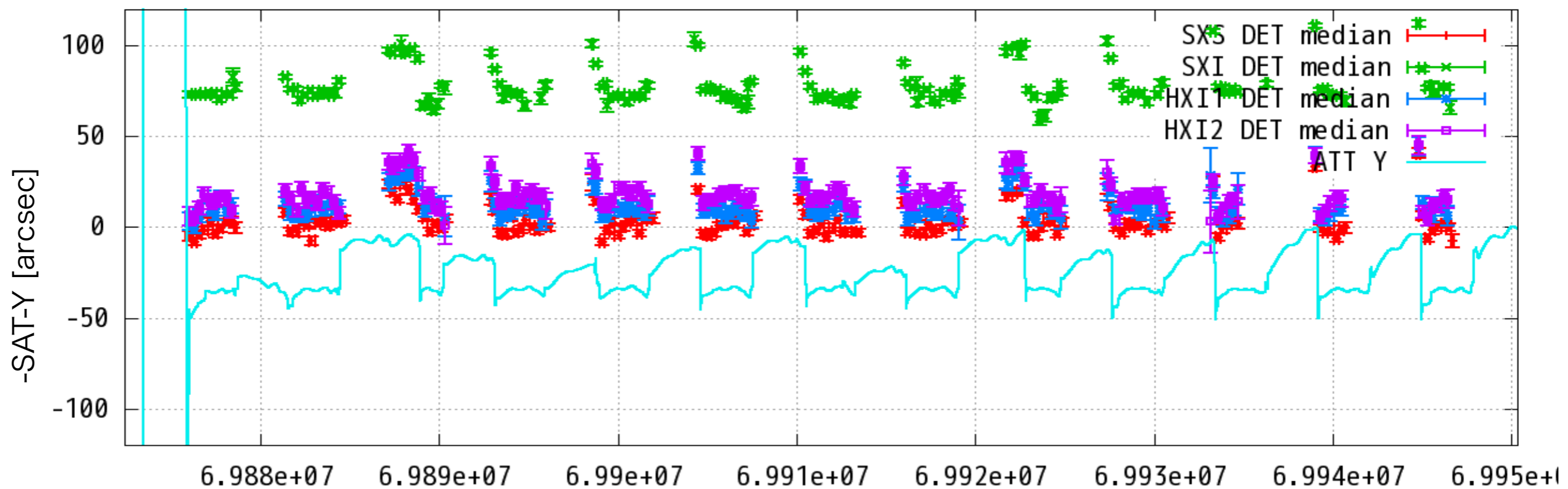
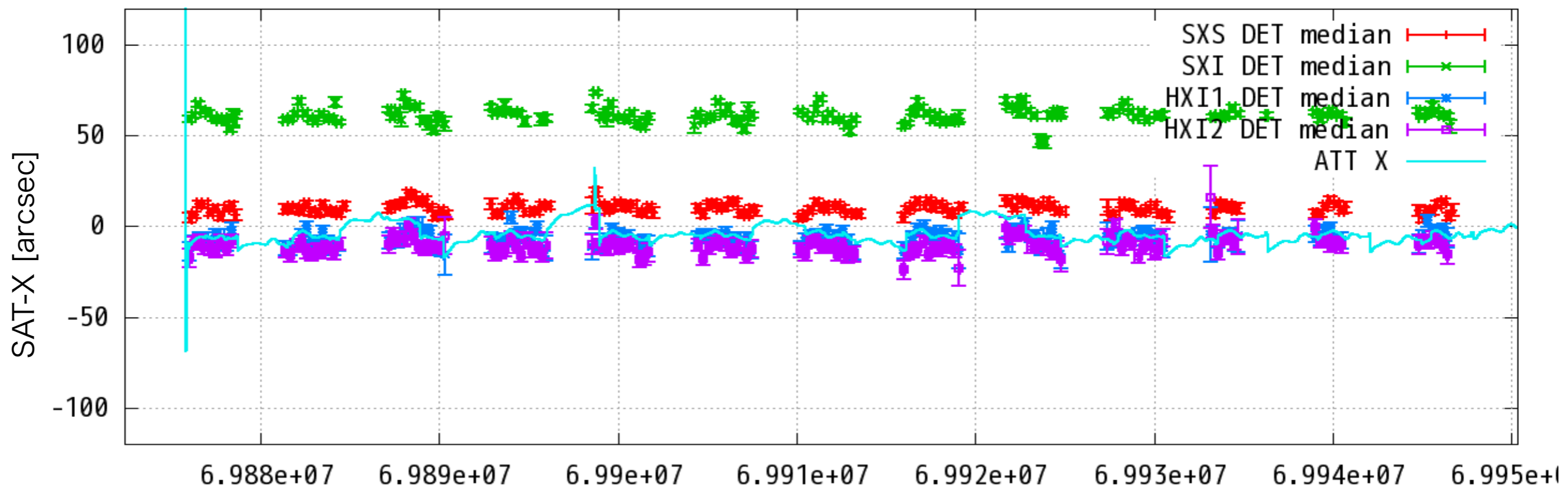
G21.5-0.9

100050010, 20, 30, 40

100050010

G21.5-0.9 DET-X/DET-Y (unit: arcsec)

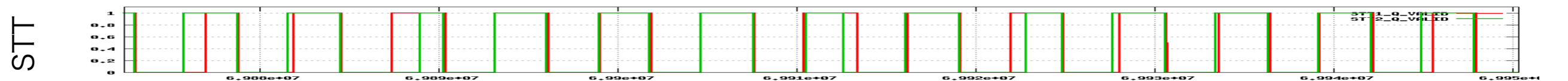
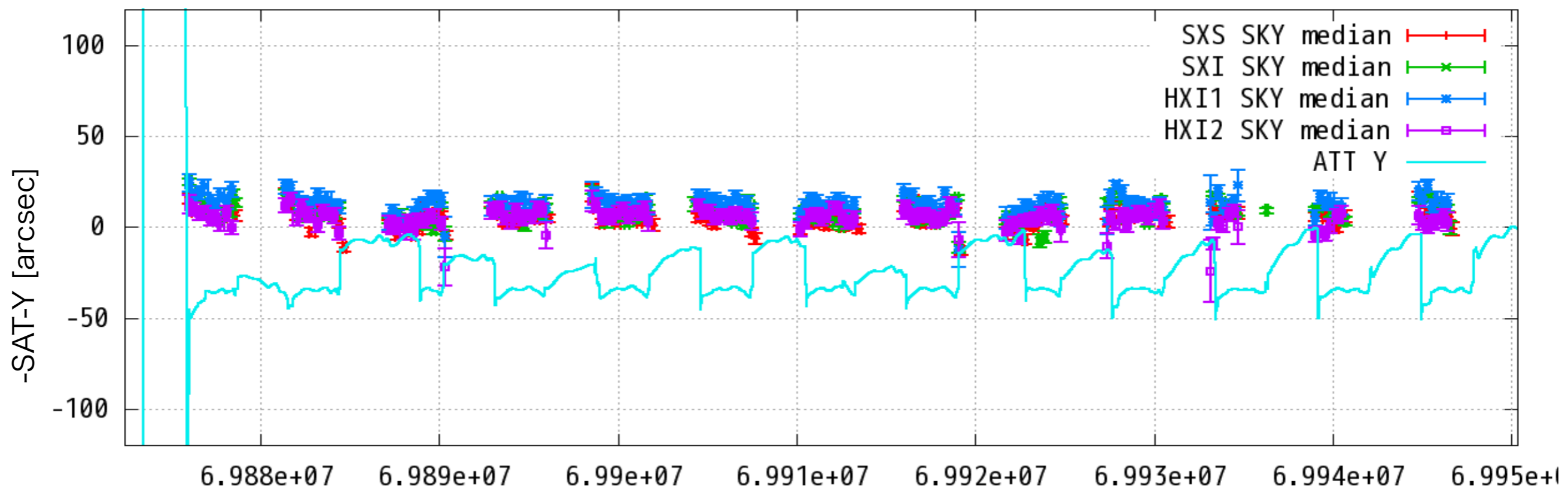
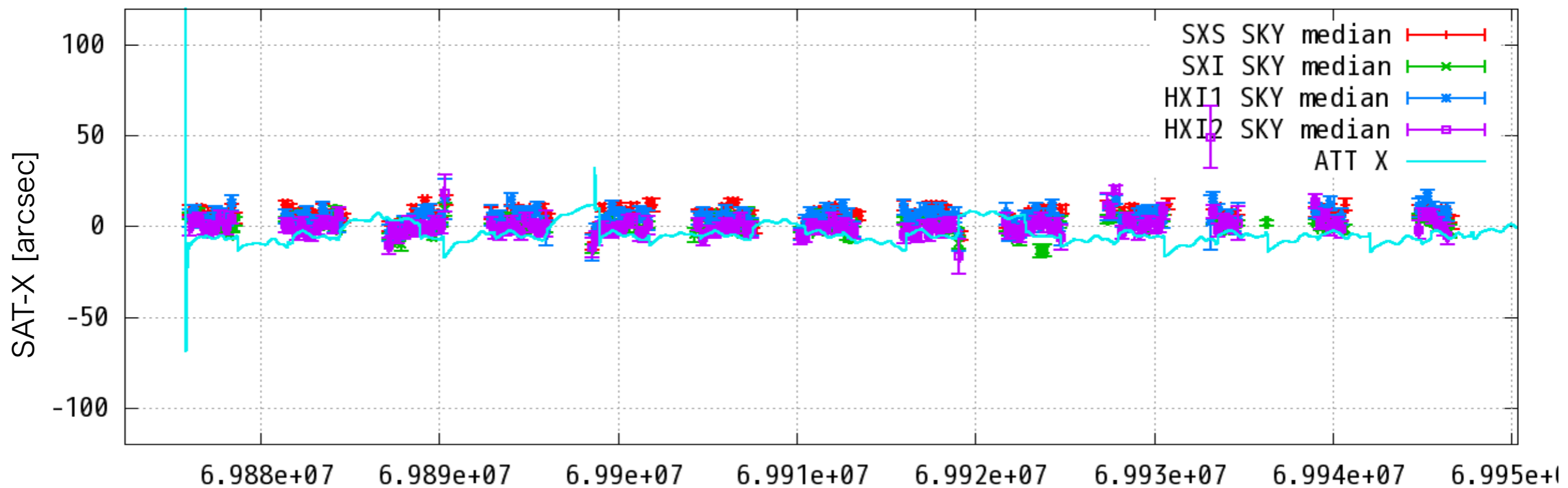
STT-ALL



100050010

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

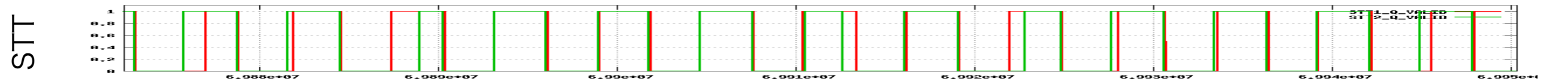
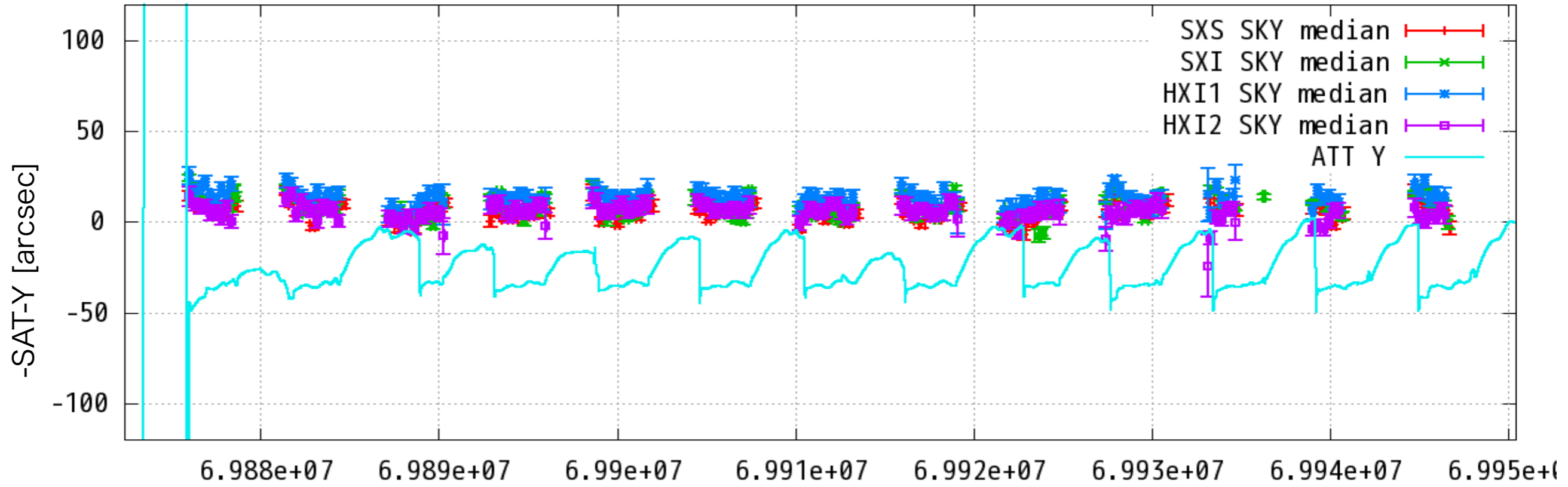
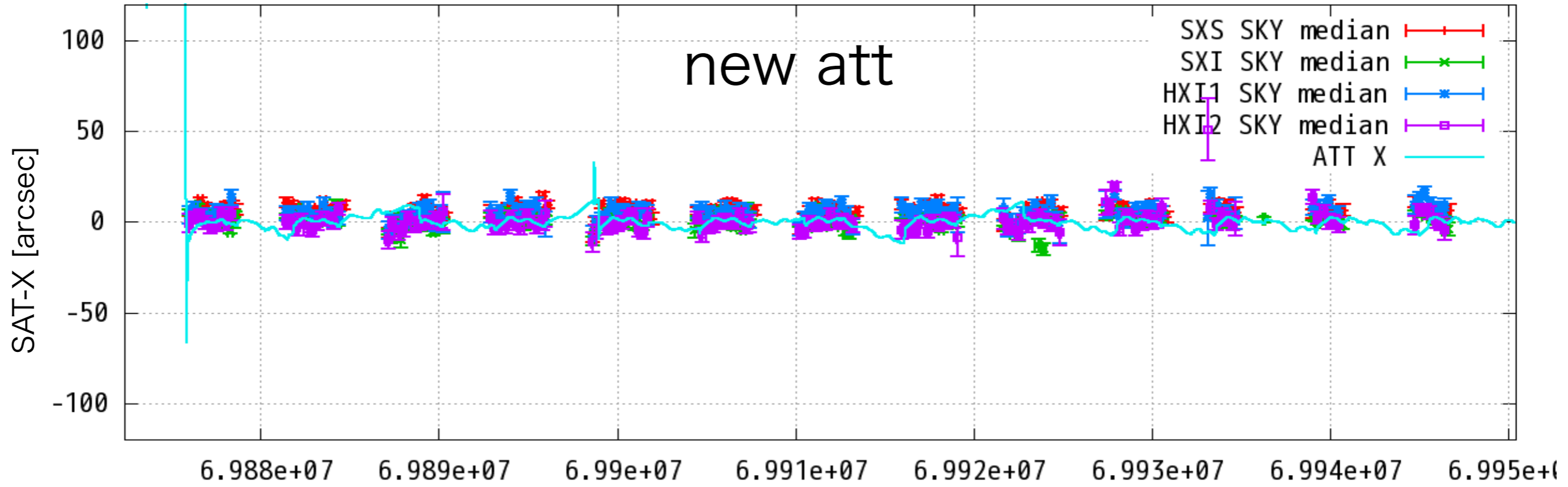
STT-ALL



100050010

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

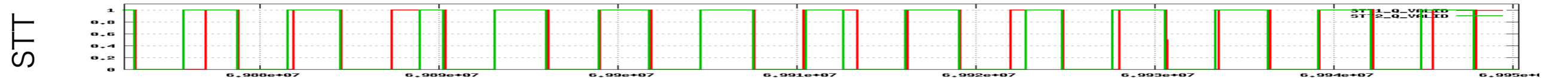
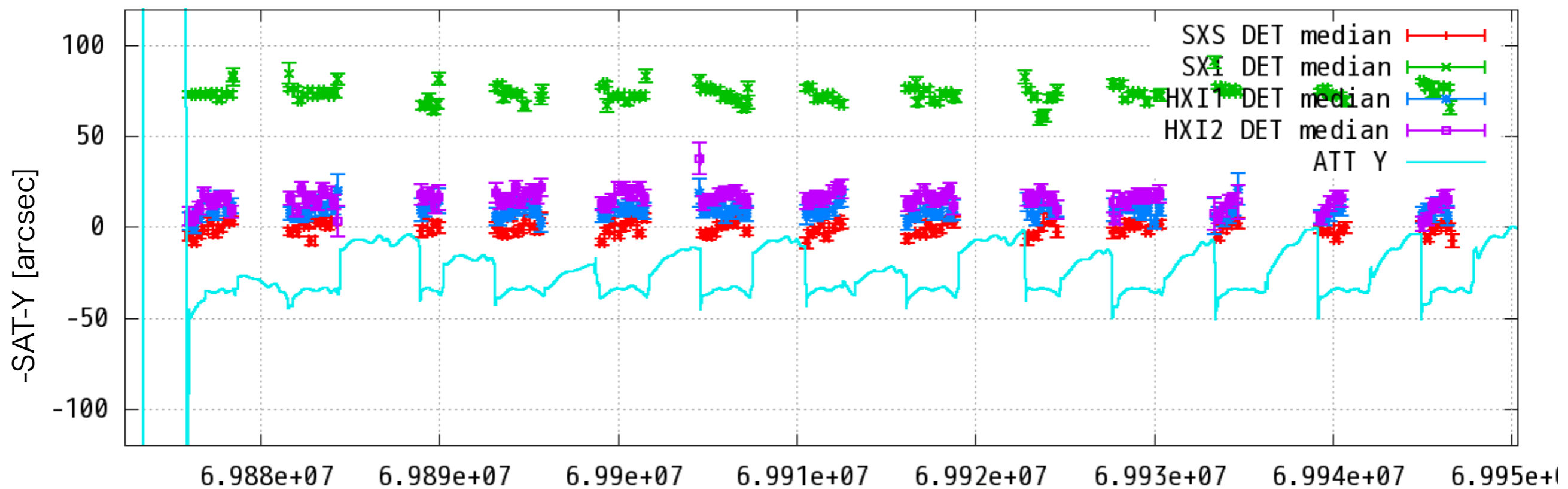
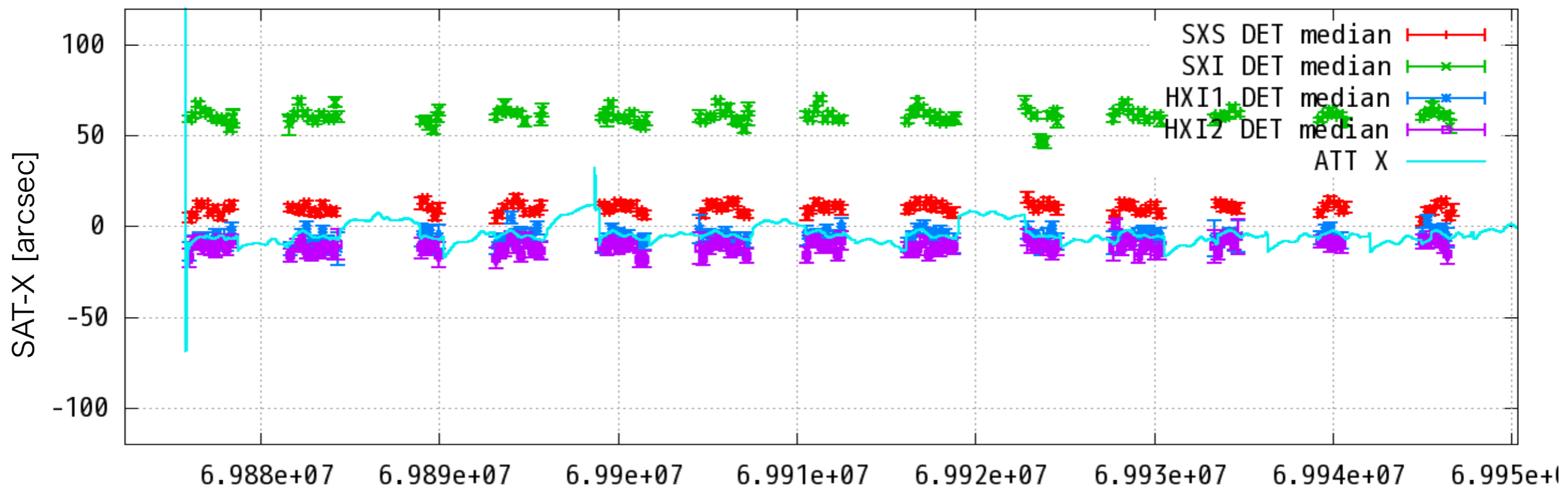
STT-ALL



100050010

G21.5-0.9 DET-X/DET-Y (unit: arcsec)

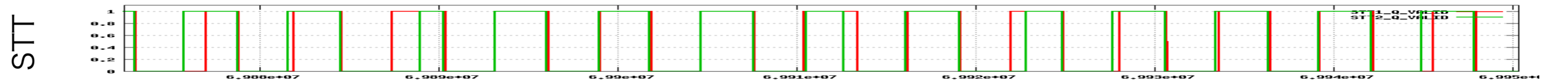
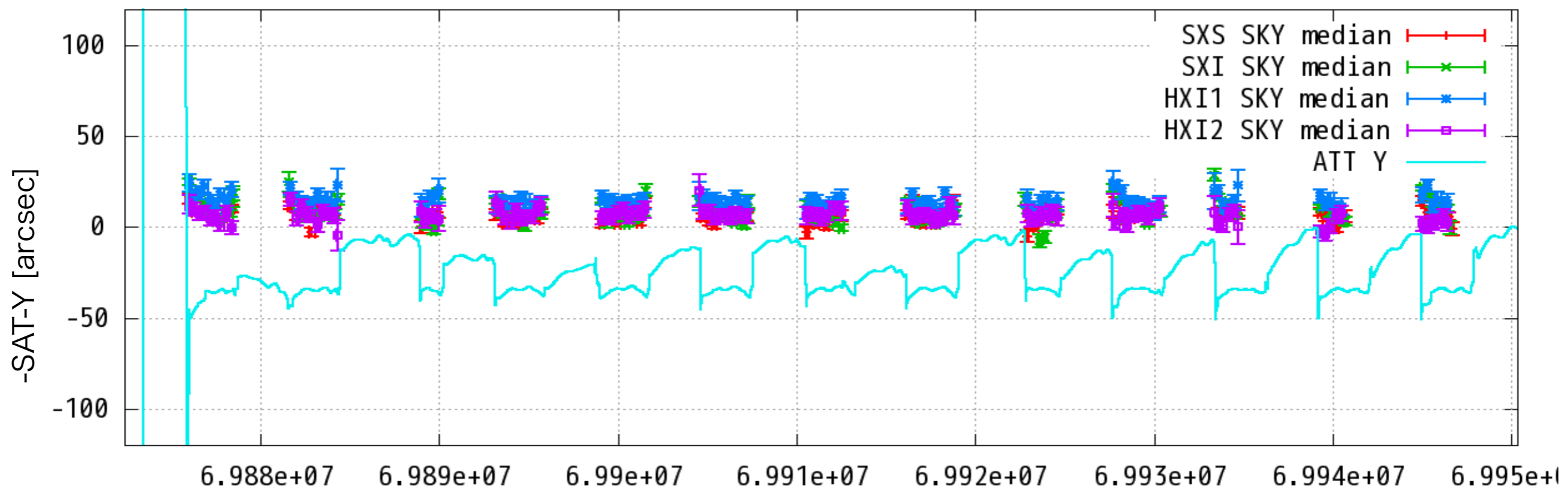
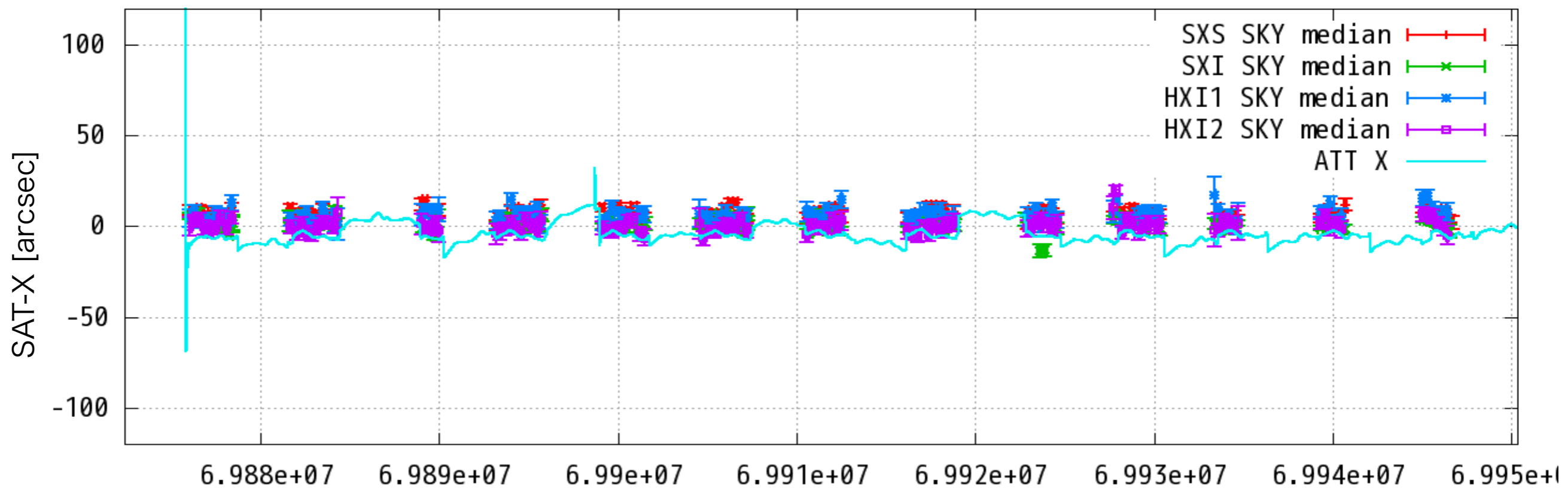
STT-CTL



100050010

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

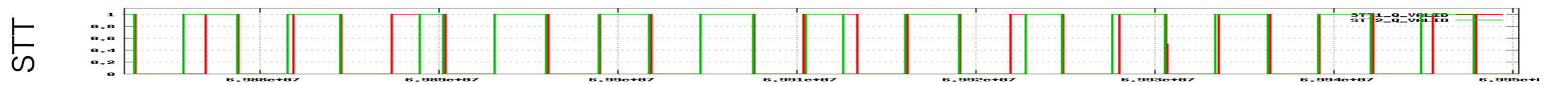
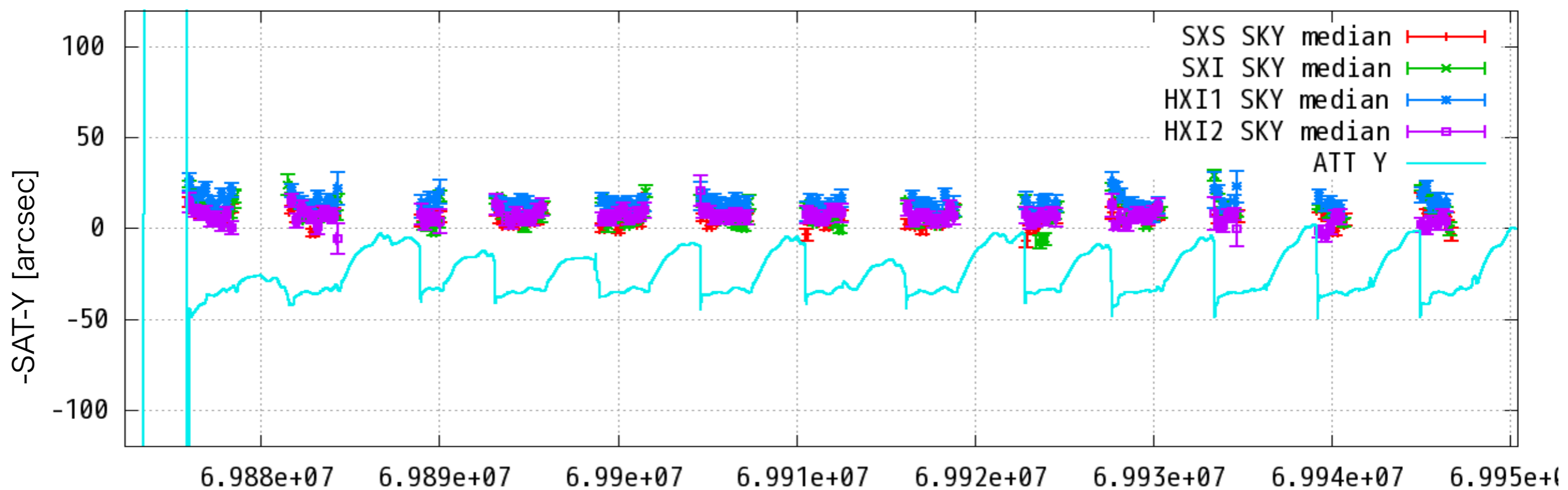
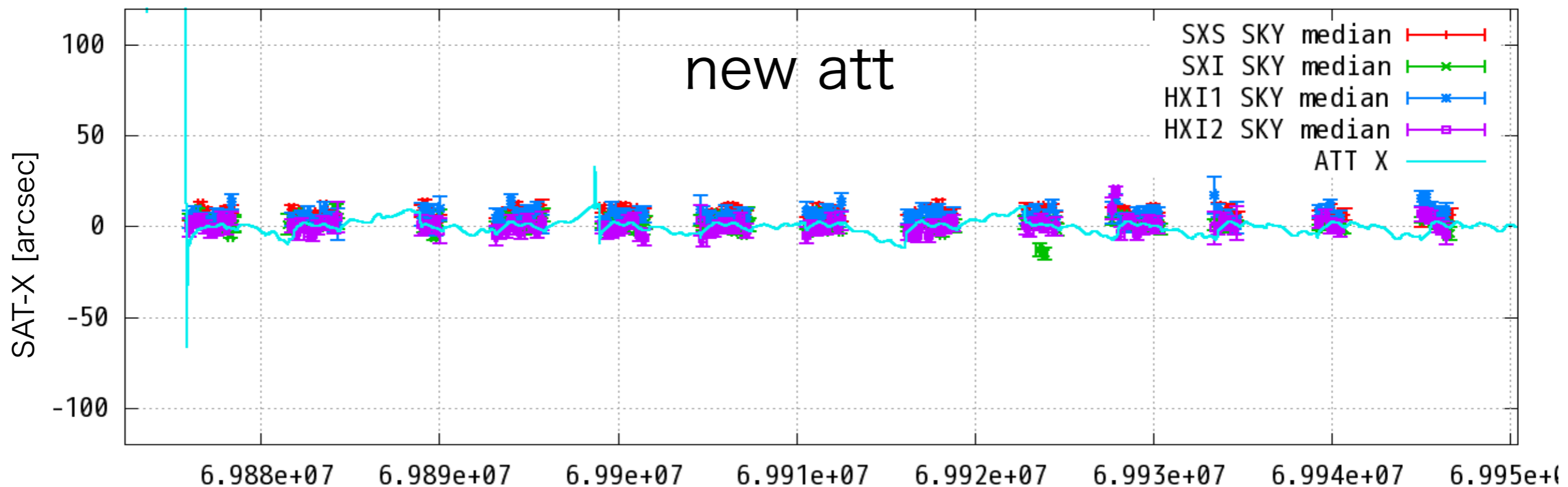
STT-CTL



100050010

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

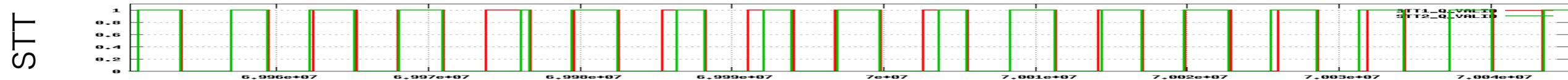
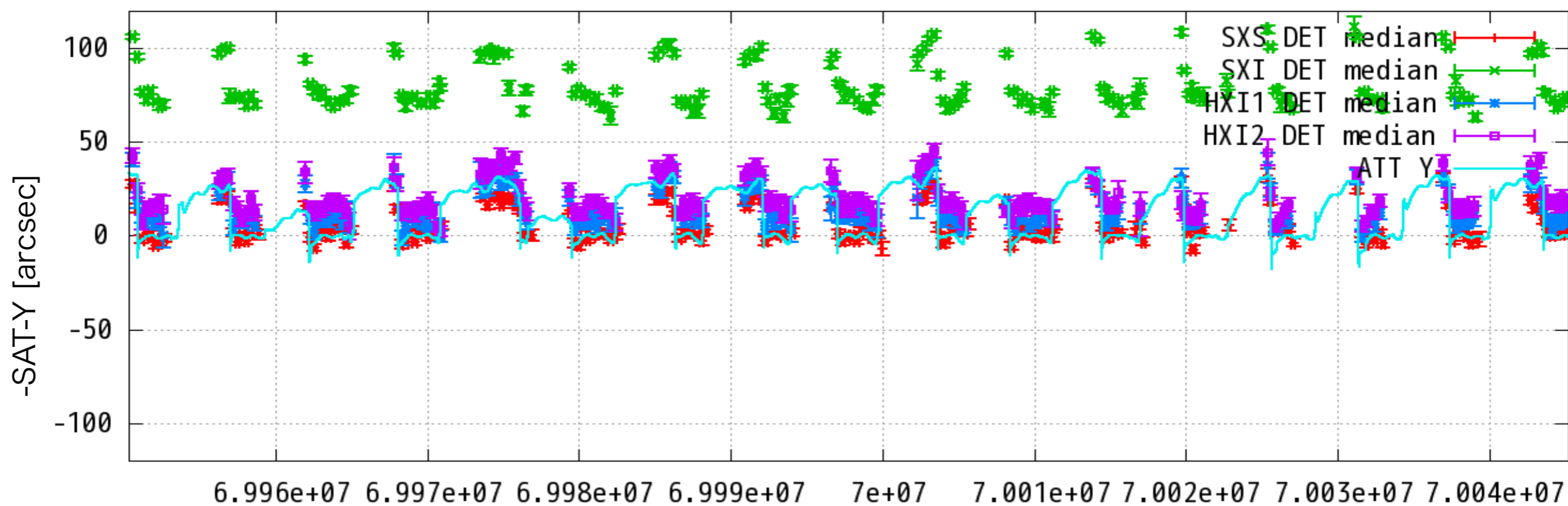
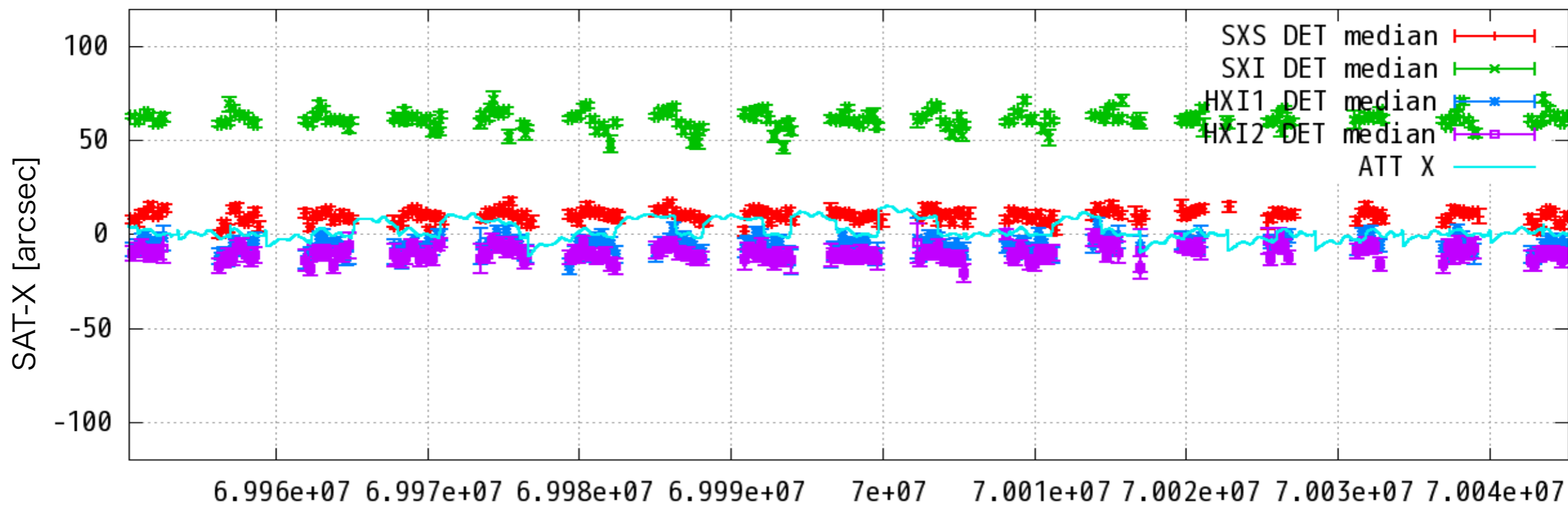
STT-CTL



100050020

G21.5-0.9 DET-X/DET-Y (unit: arcsec)

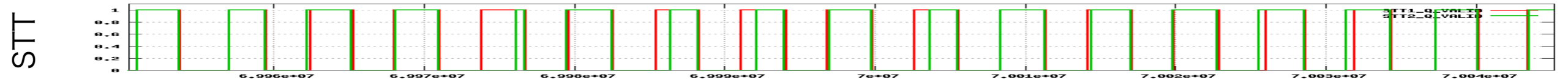
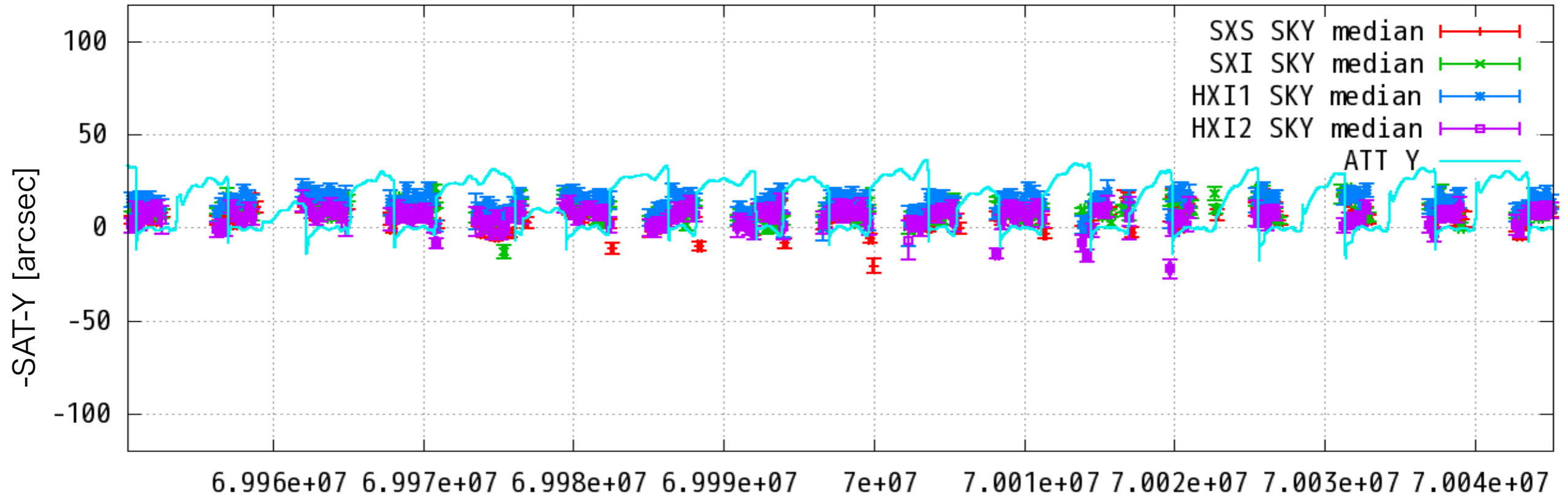
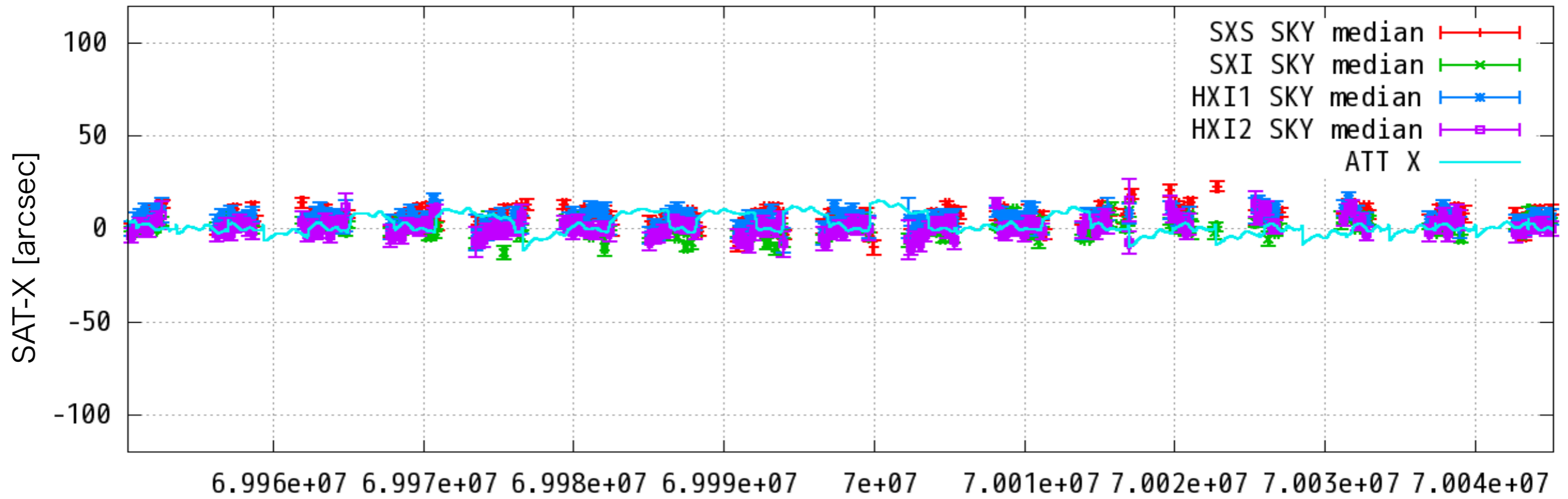
STT-ALL



100050020

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

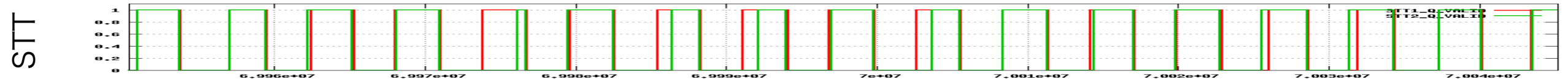
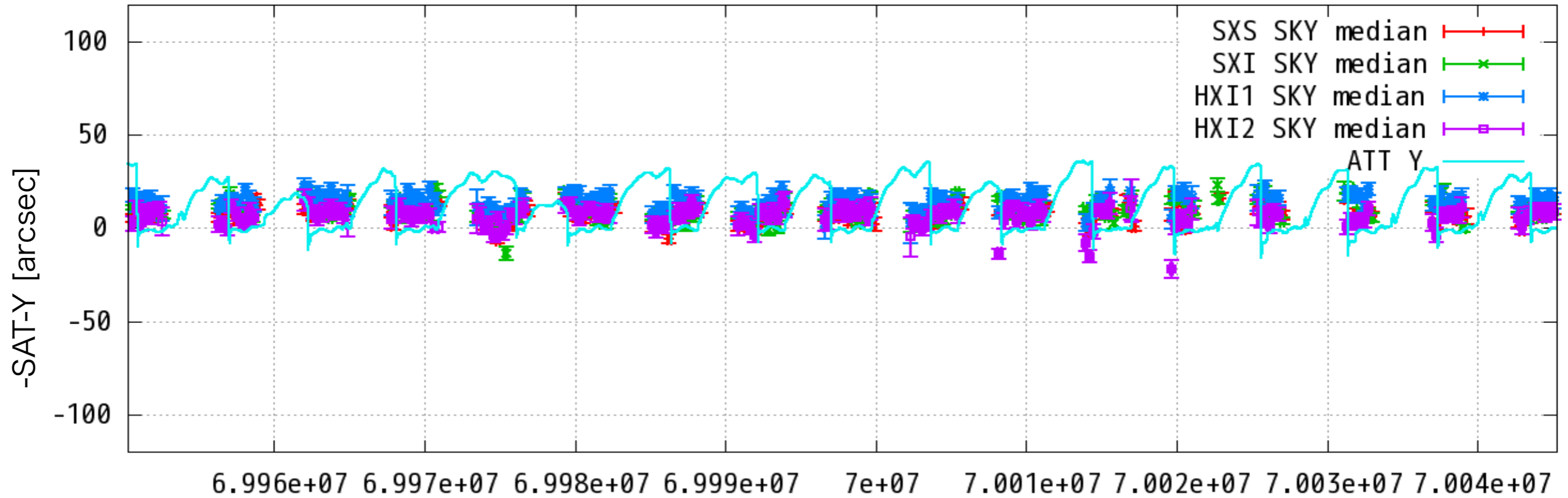
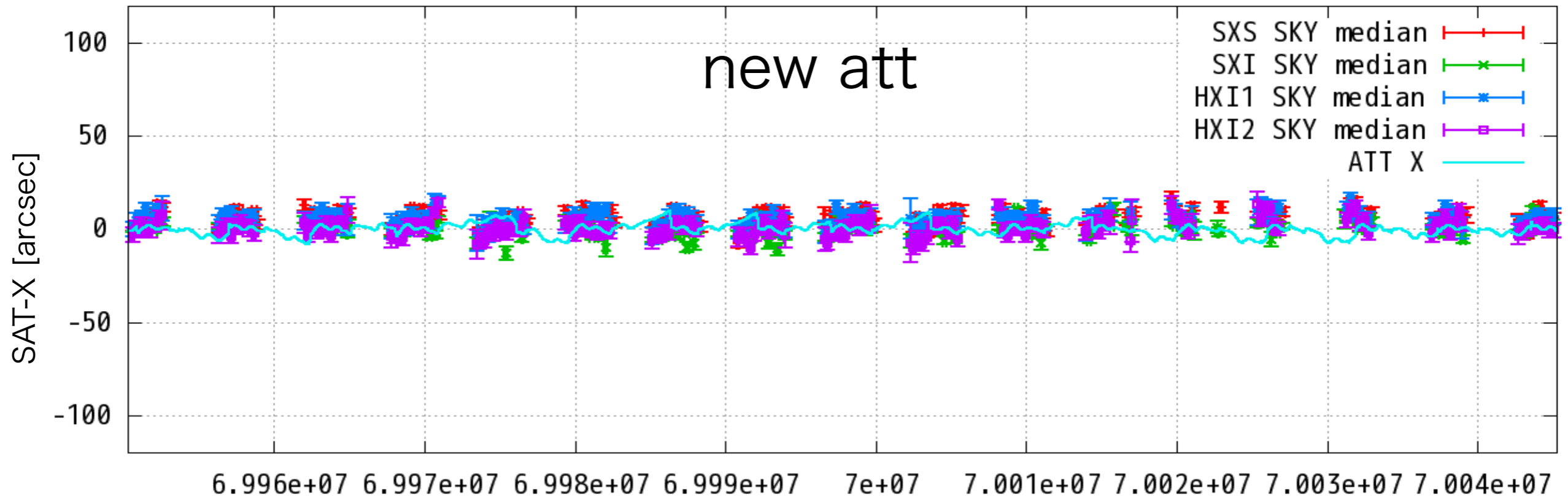
STT-ALL



100050020

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

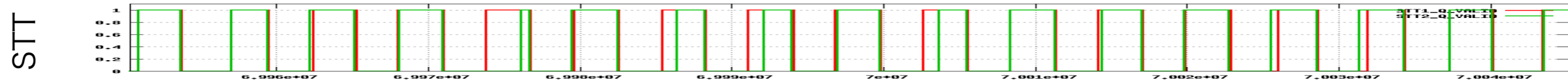
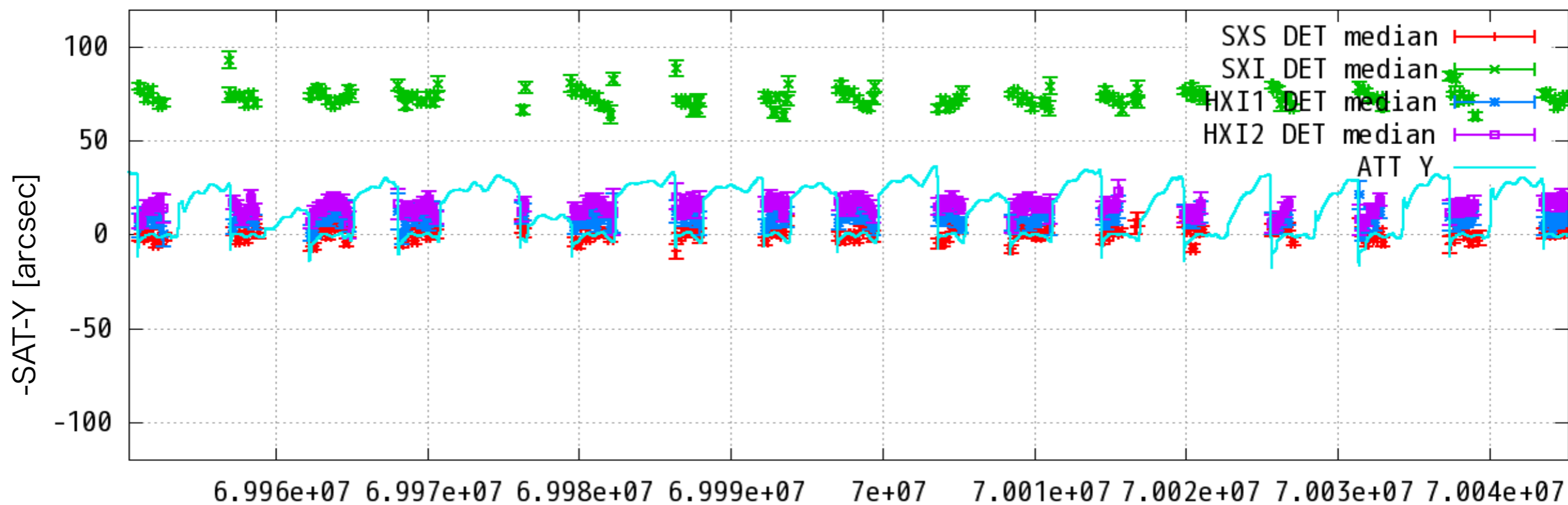
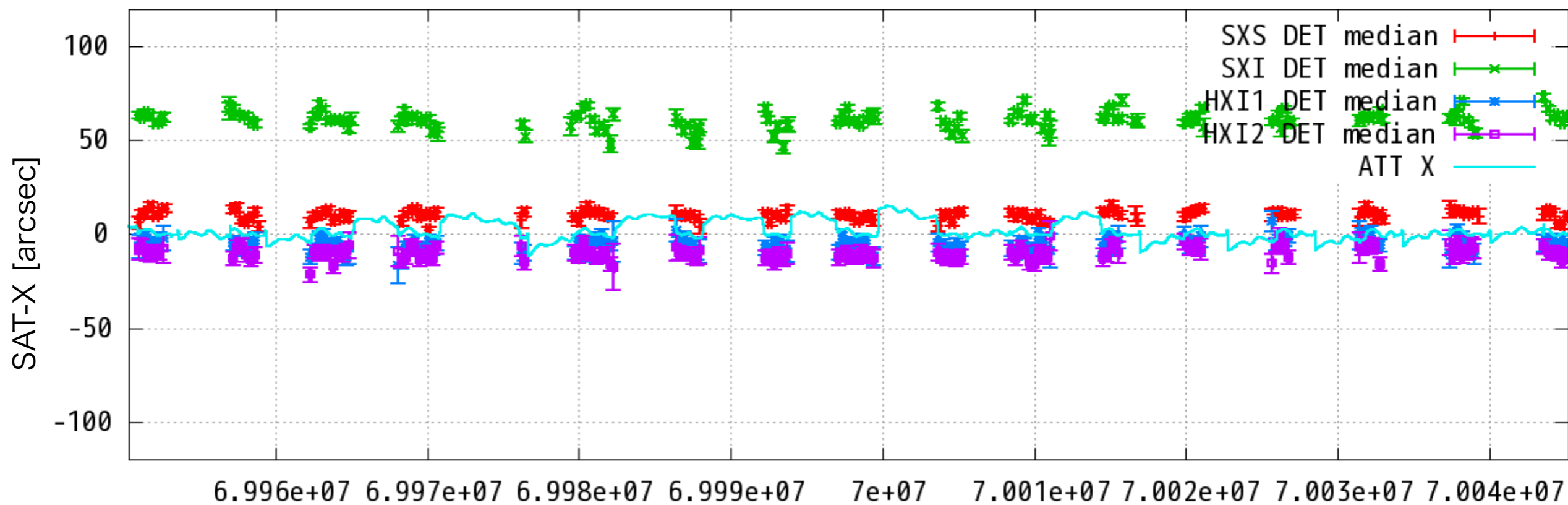
STT-ALL



100050020

G21.5-0.9 DET-X/DET-Y (unit: arcsec)

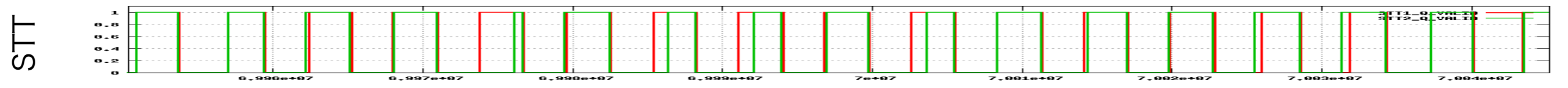
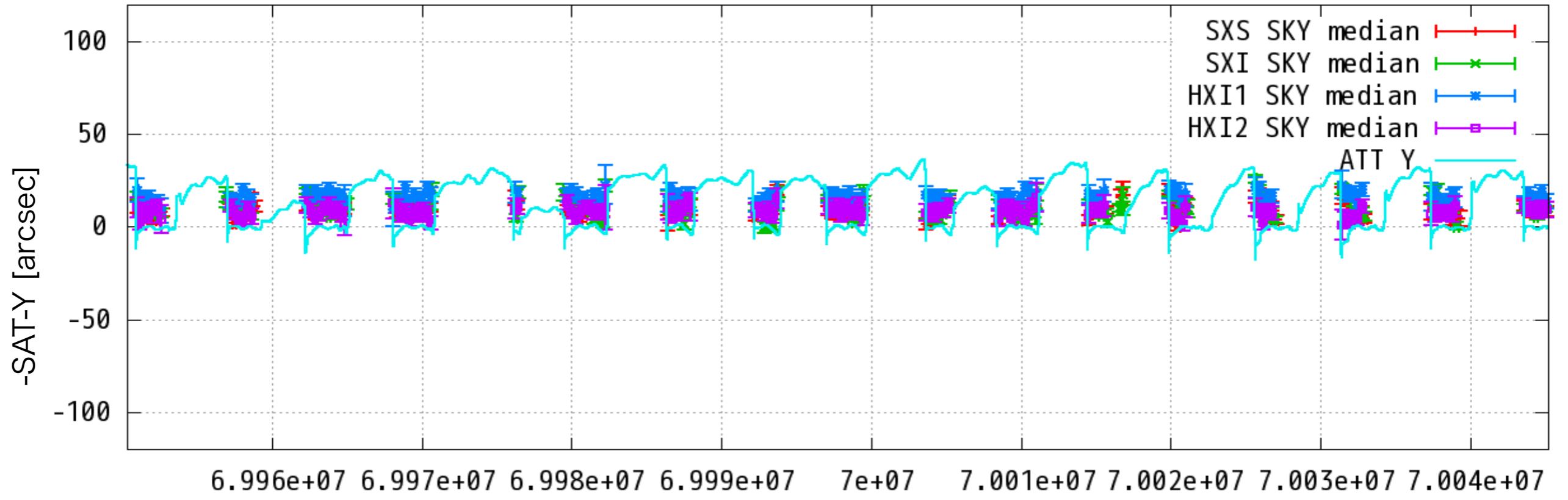
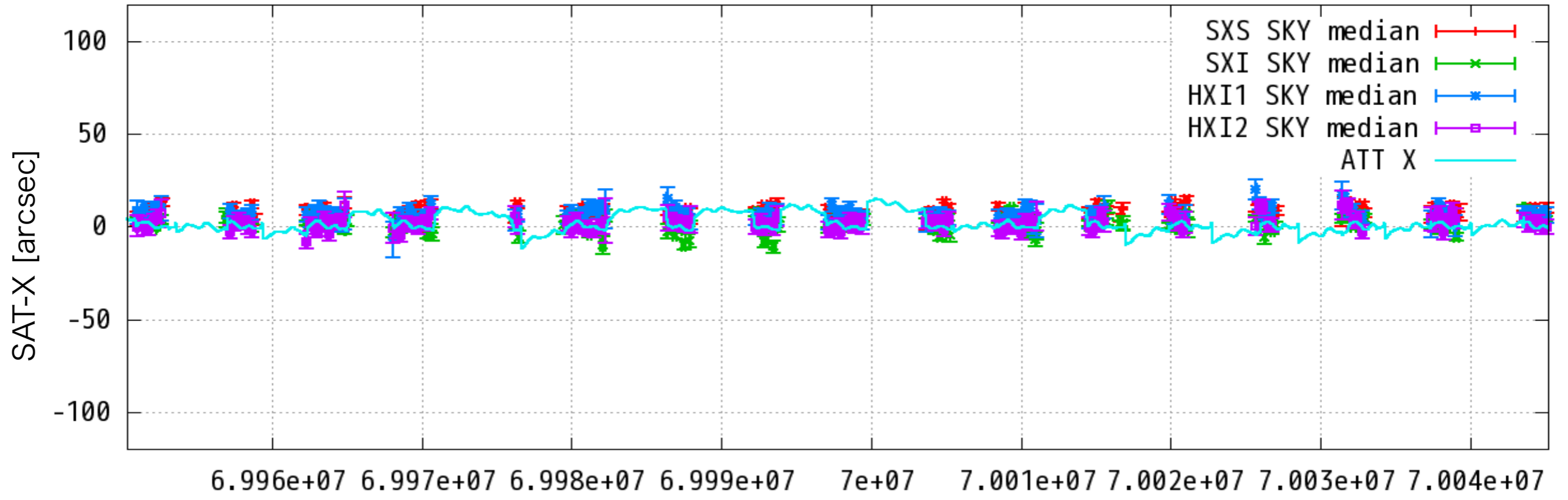
STT-CTL



100050020

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

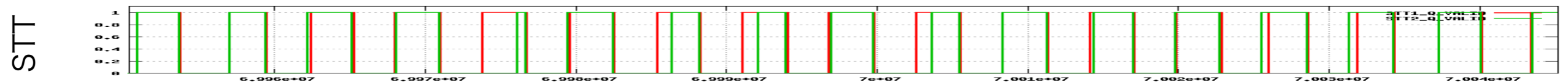
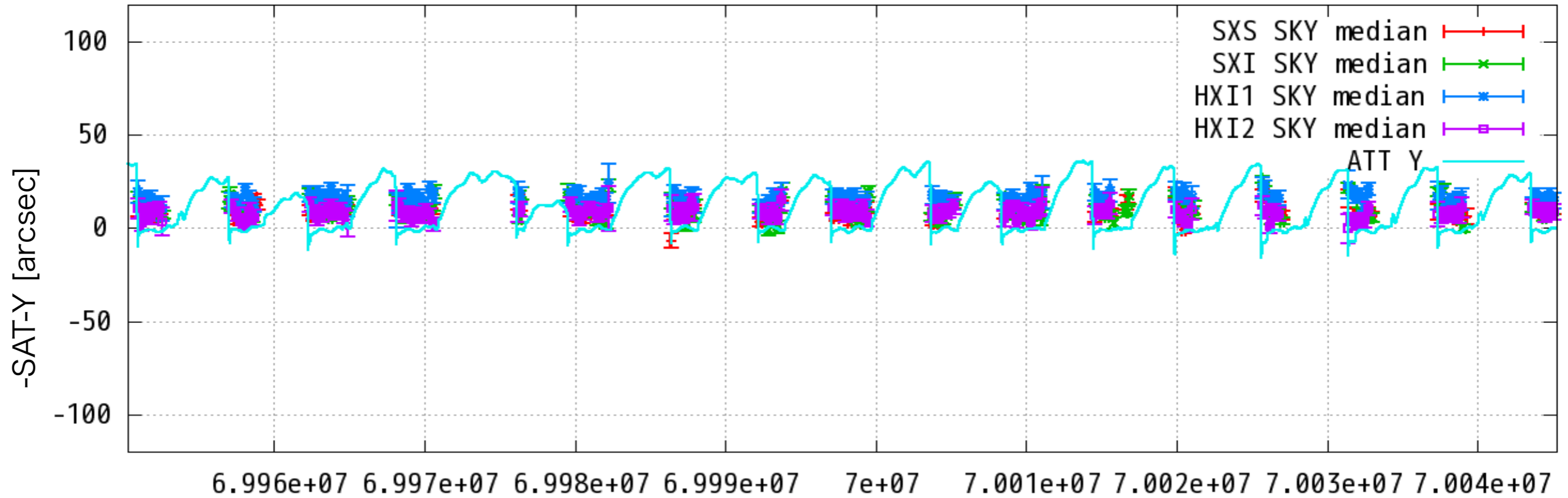
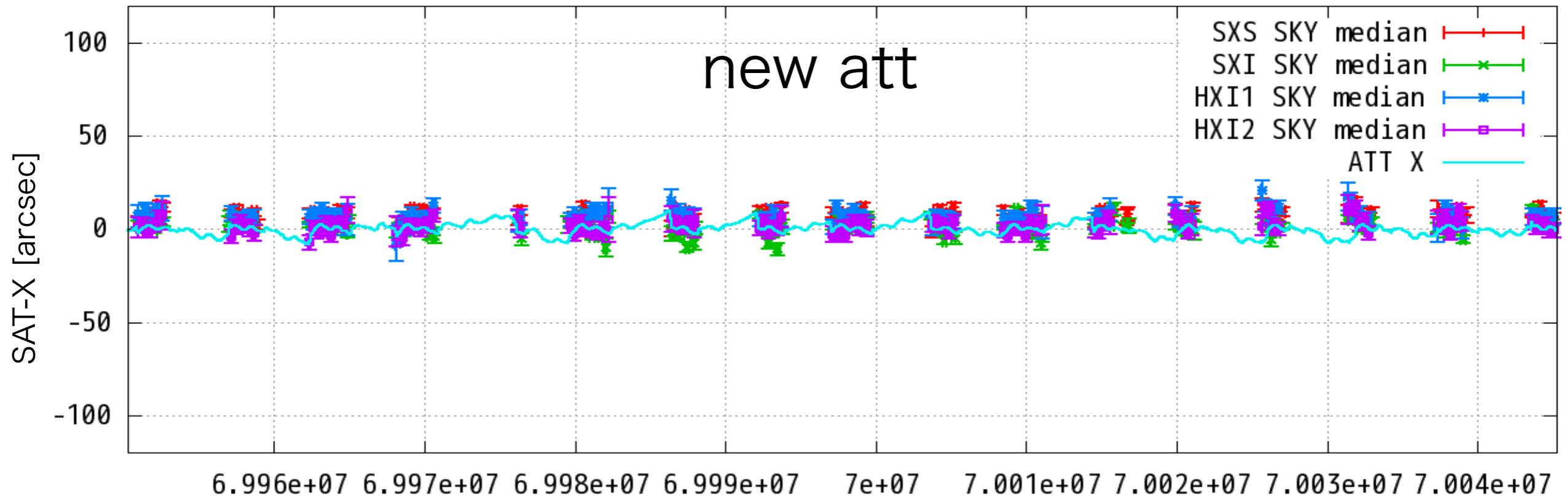
STT-CTL



100050020

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

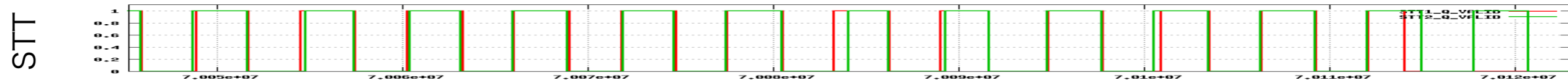
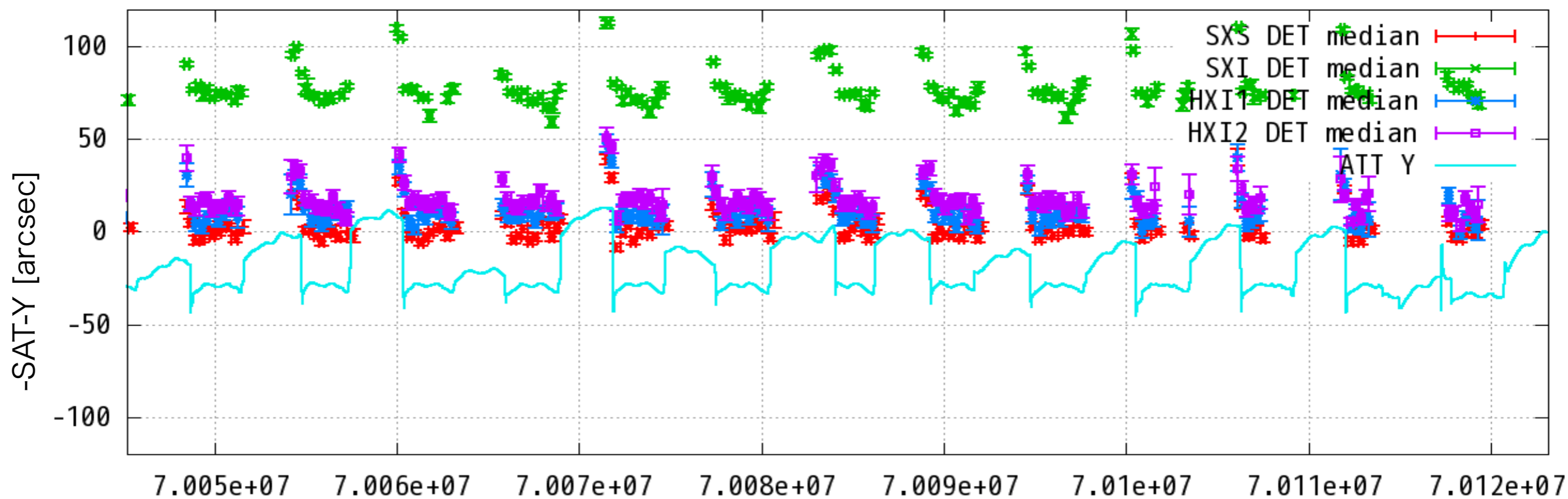
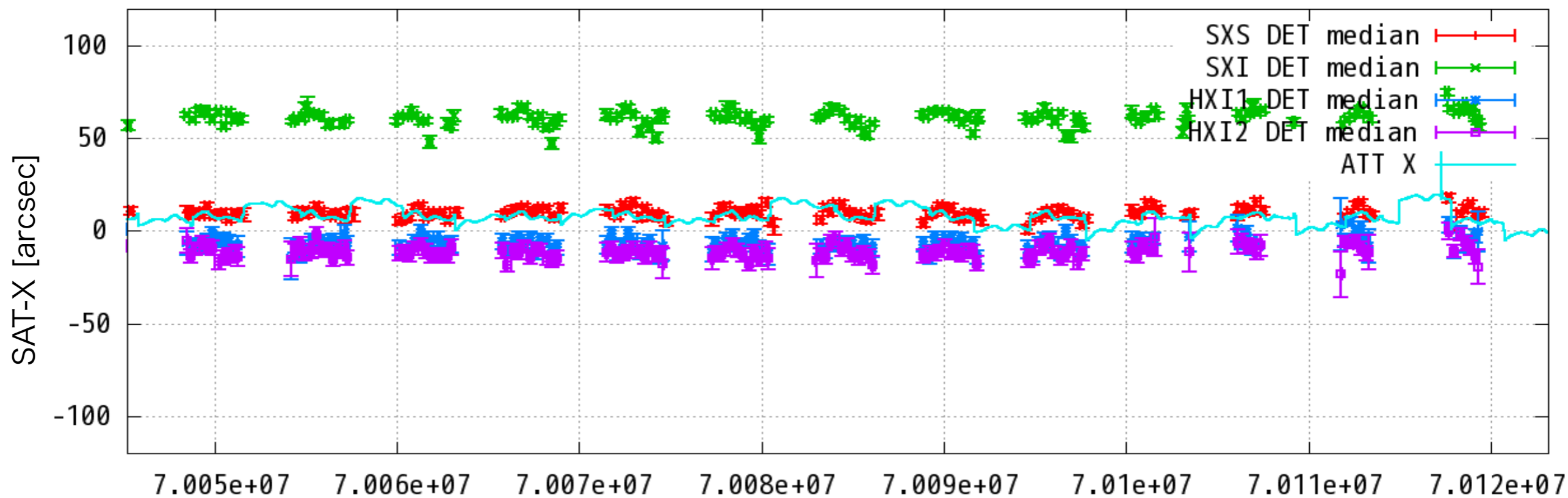
STT-CTL



100050030

G21.5-0.9 DET-X/DET-Y (unit: arcsec)

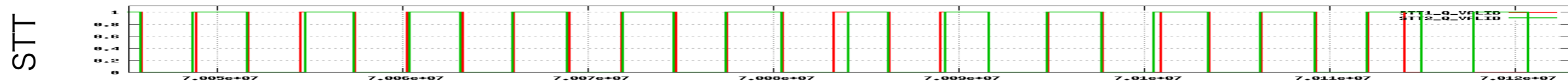
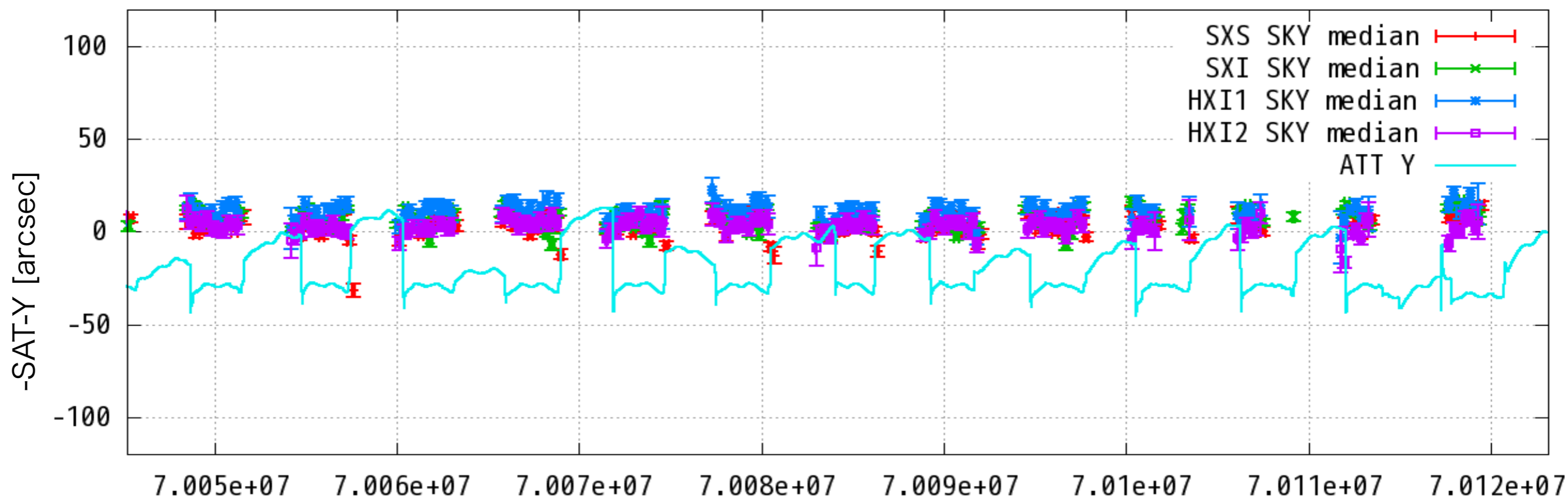
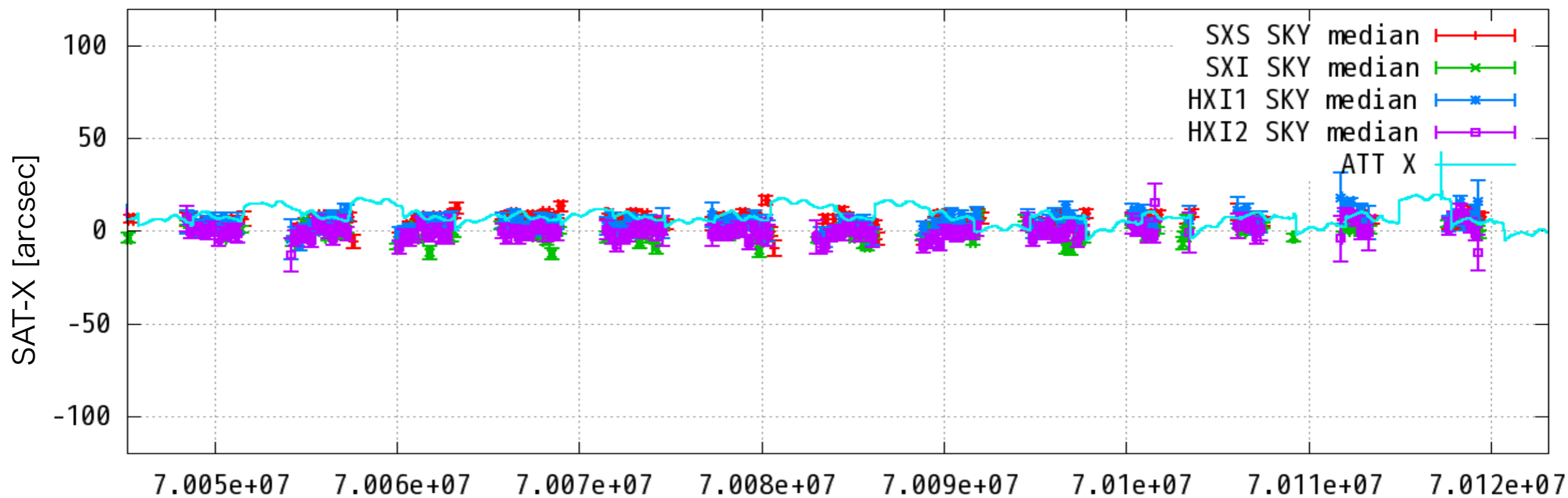
STT-ALL



100050030

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

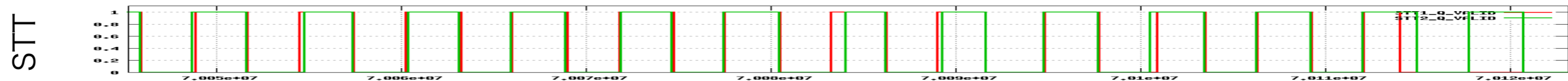
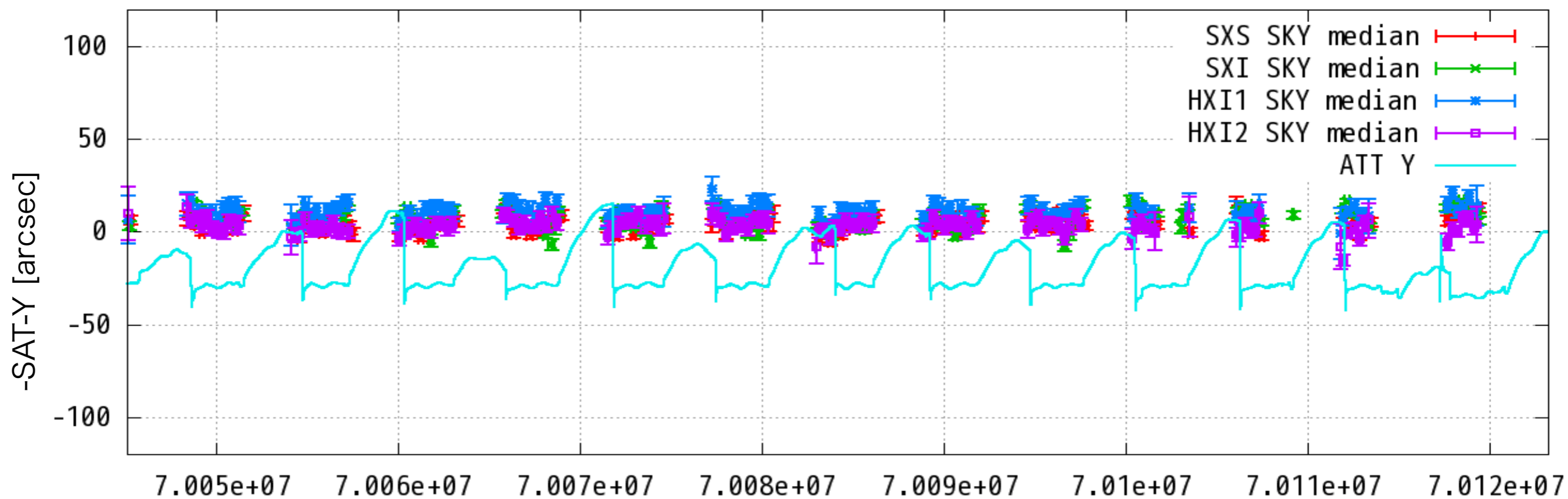
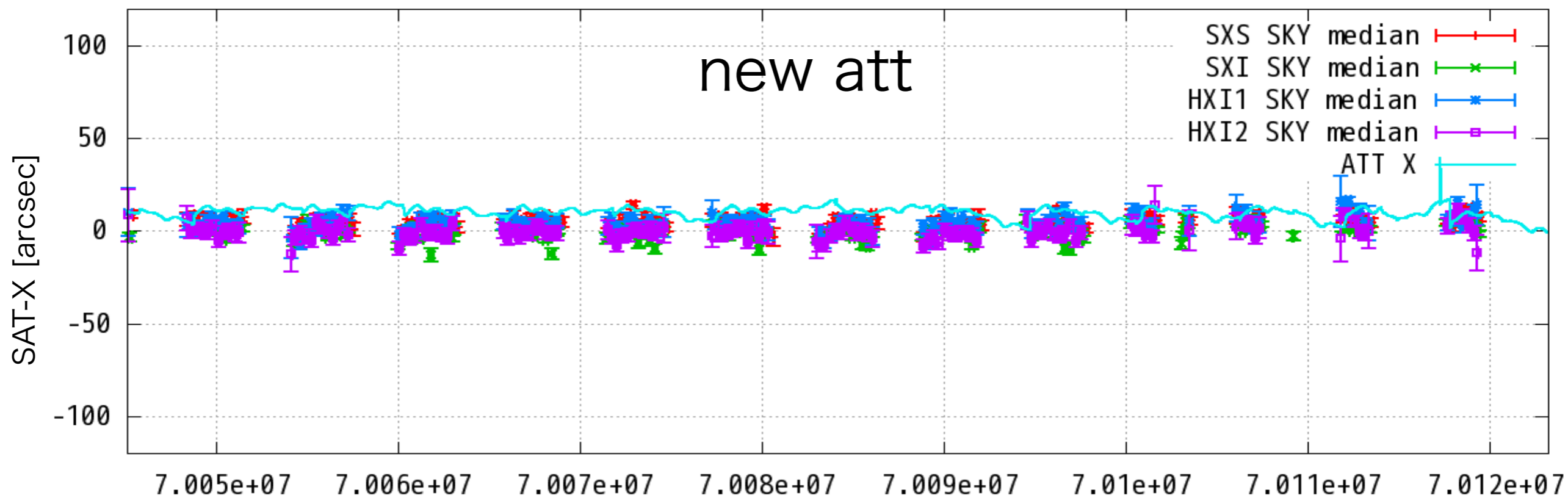
STT-ALL



100050030

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

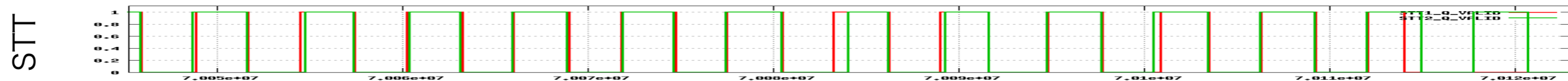
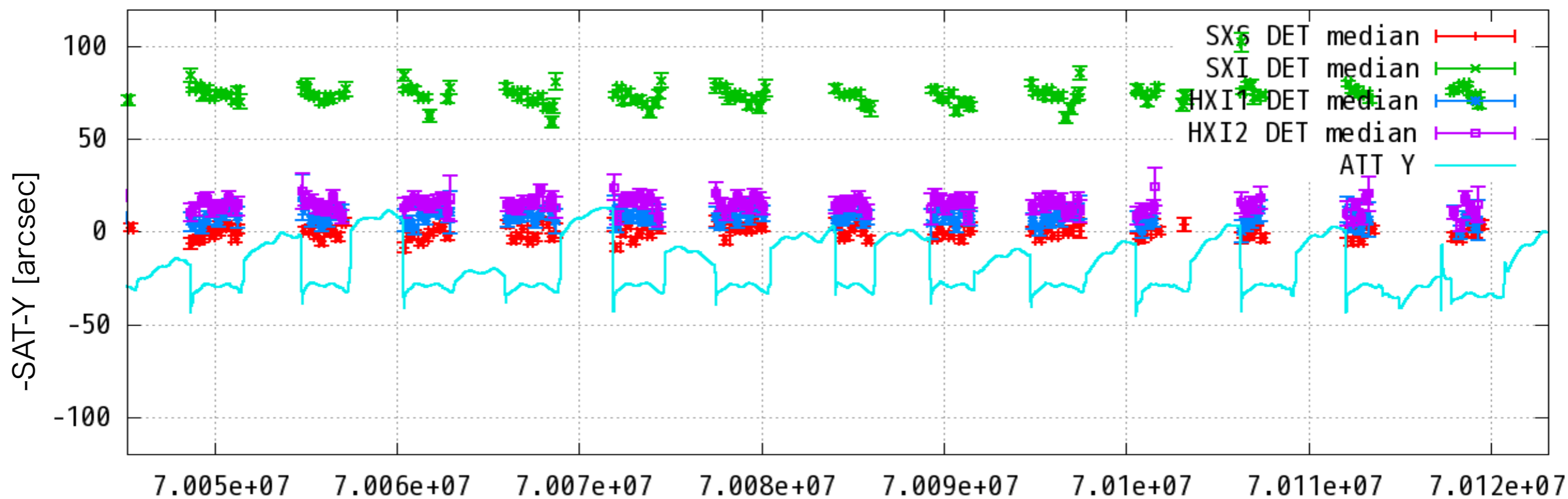
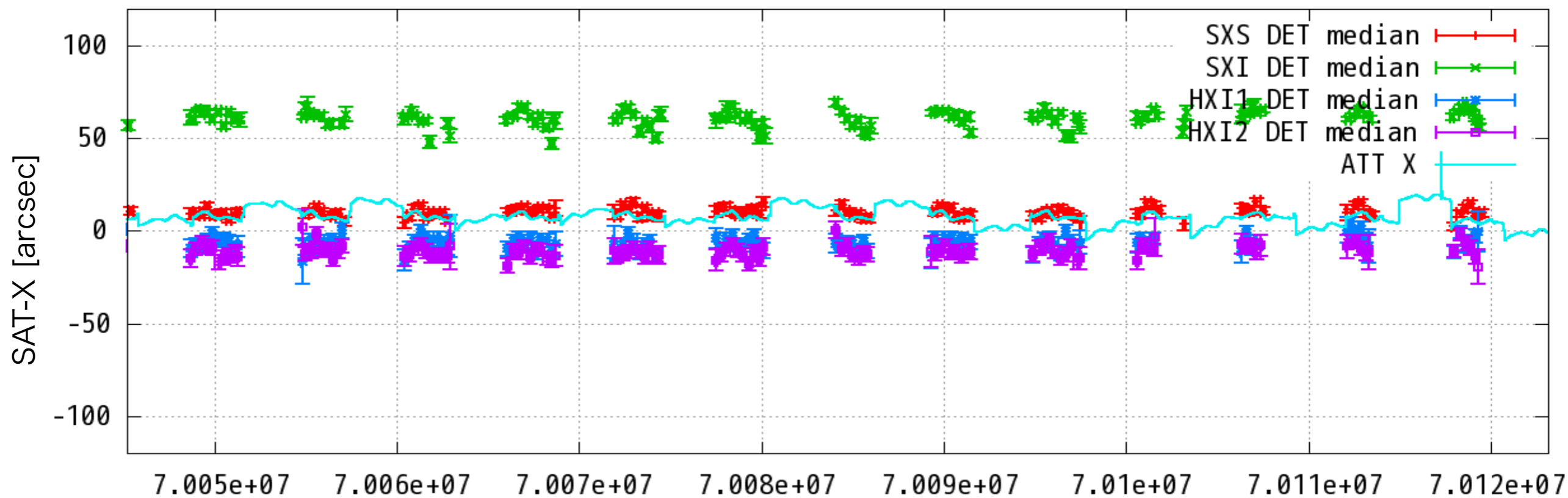
STT-ALL



100050030

G21.5-0.9 DET-X/DET-Y (unit: arcsec)

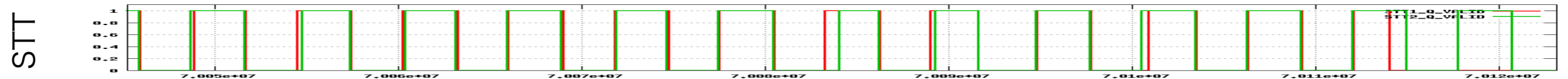
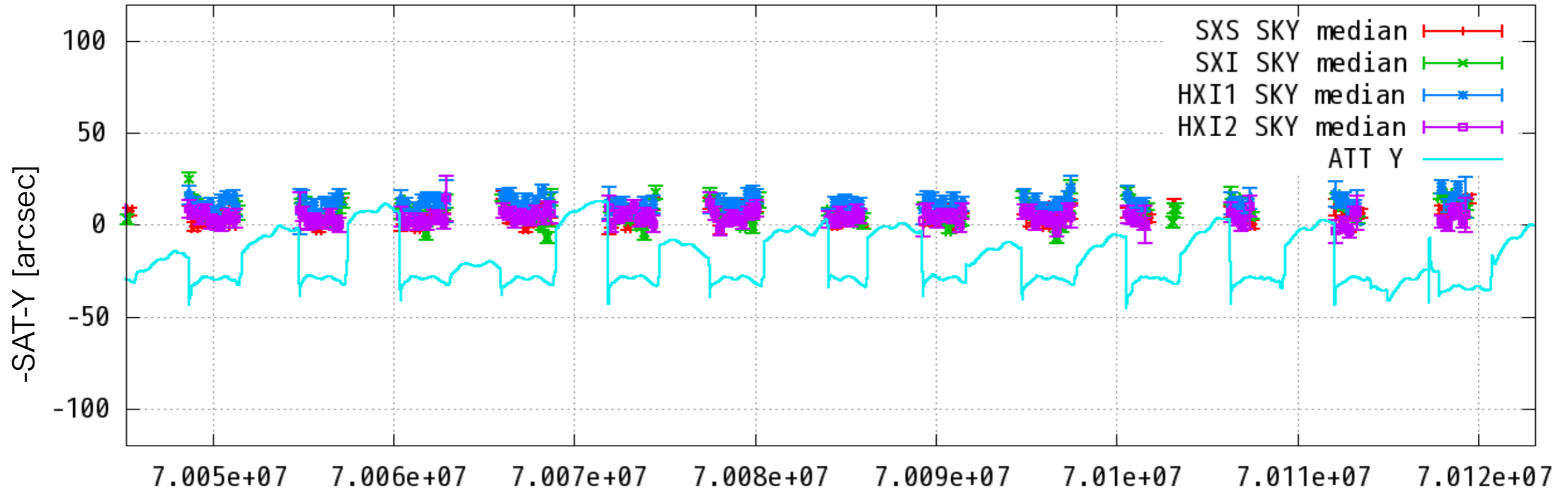
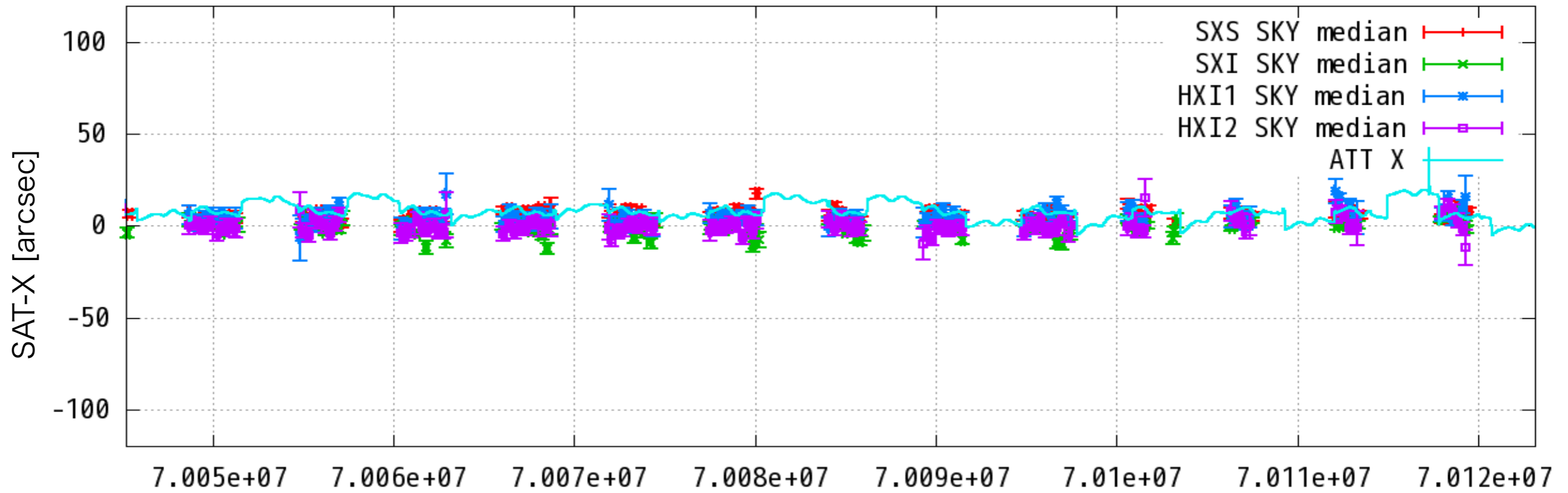
STT-CTL



100050030

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

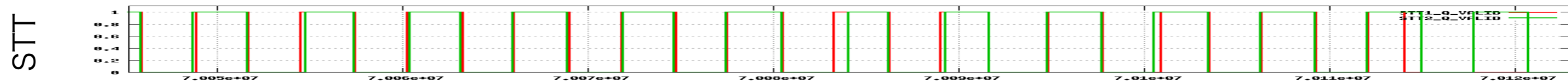
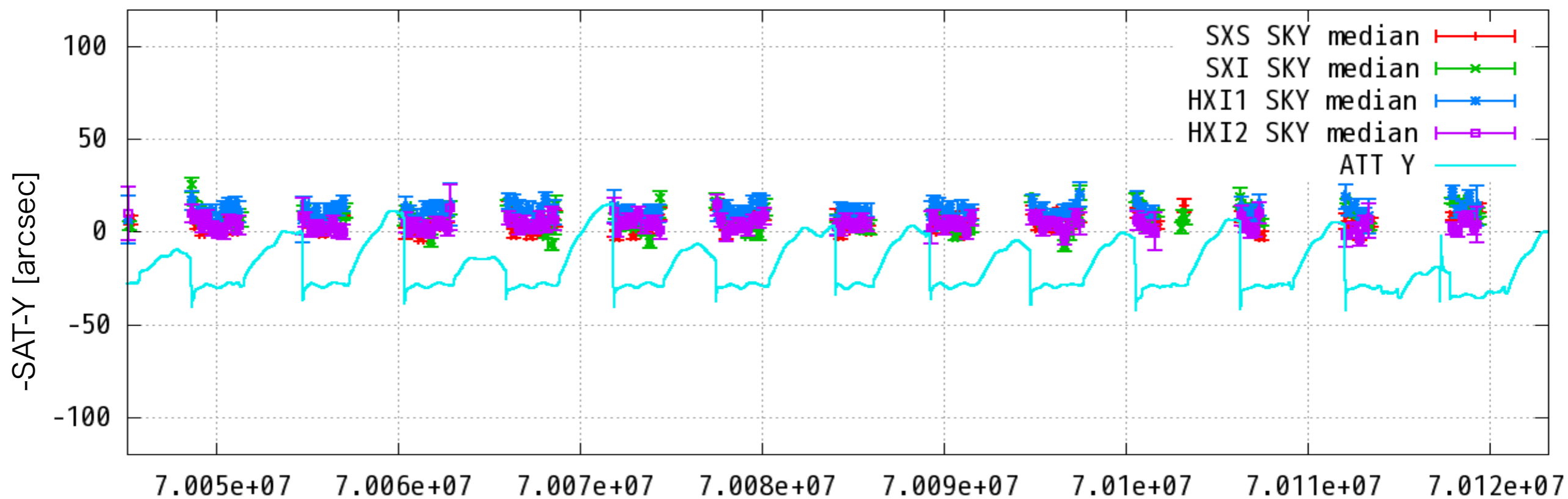
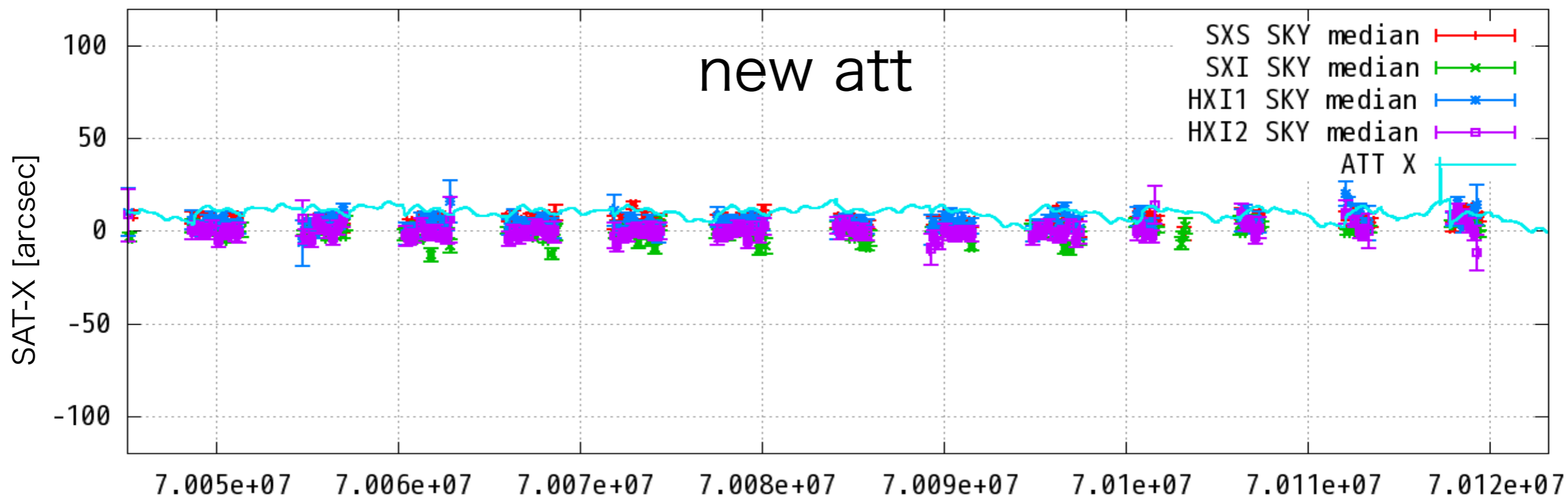
STT-CTL



100050030

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

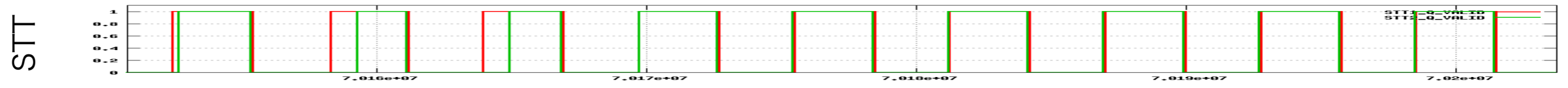
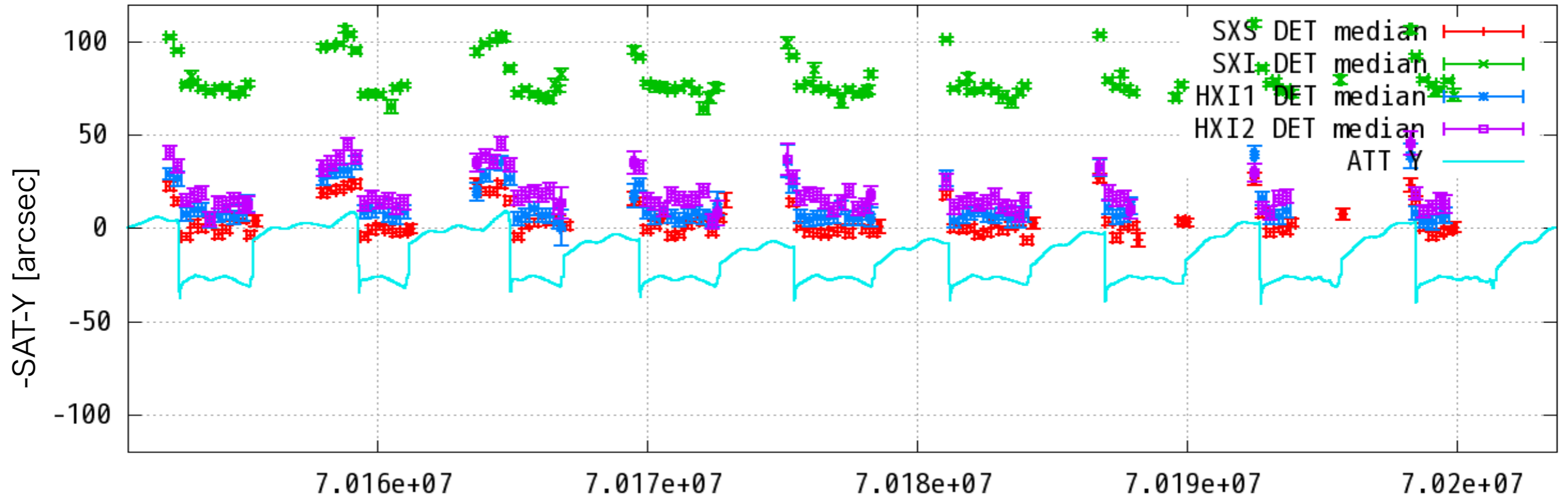
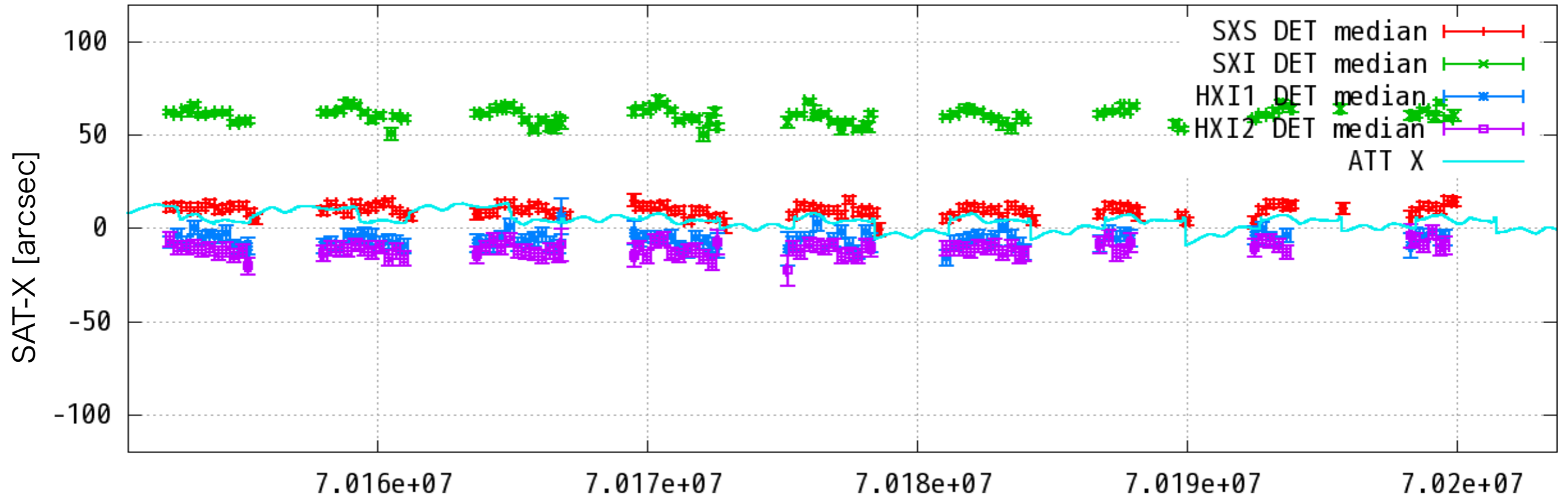
STT-CTL



100050040

G21.5-0.9 DET-X/DET-Y (unit: arcsec)

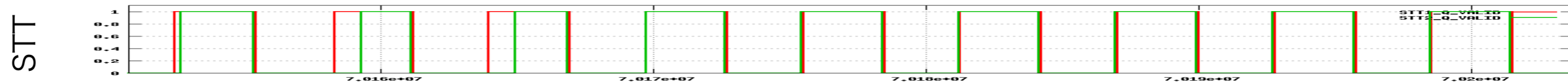
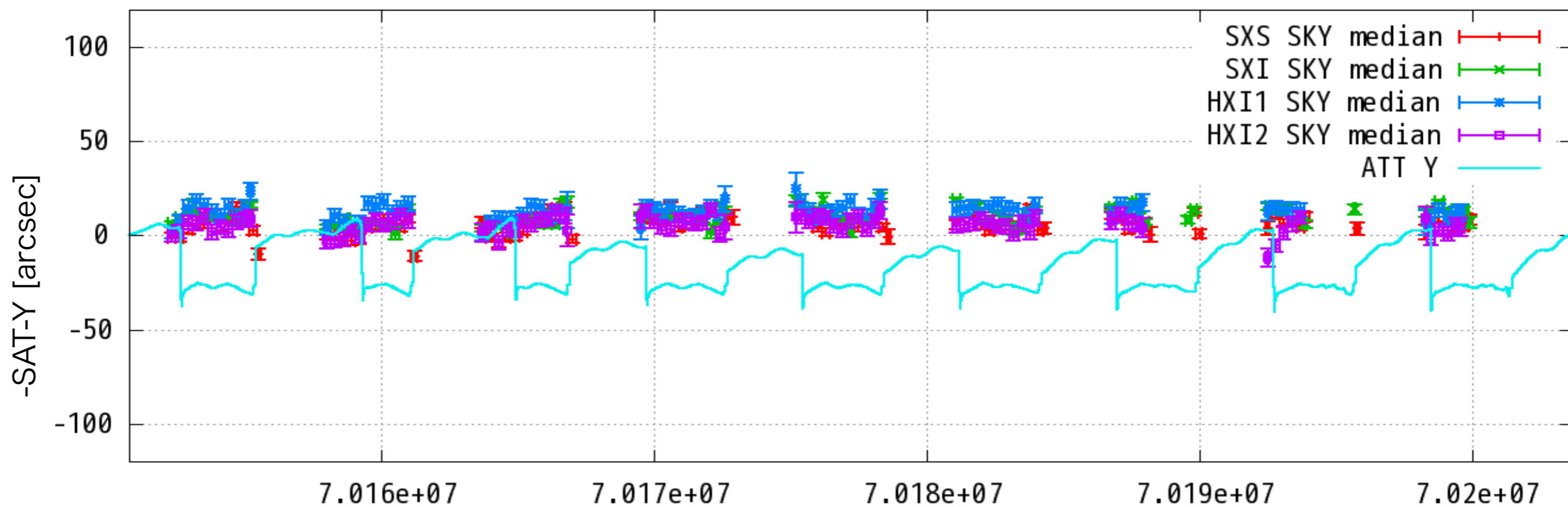
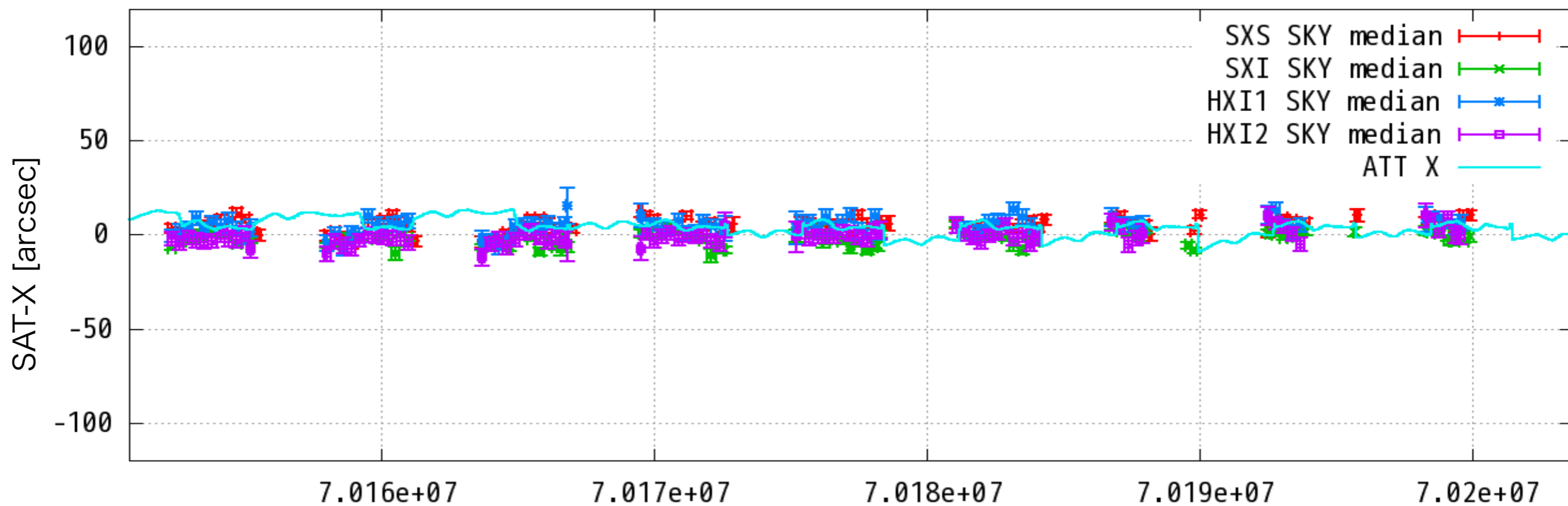
STT-ALL



100050040

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

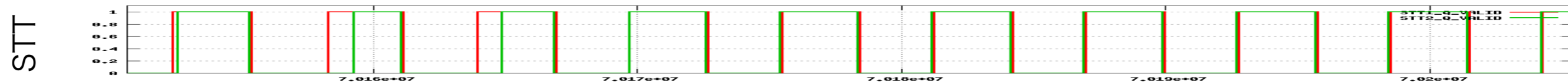
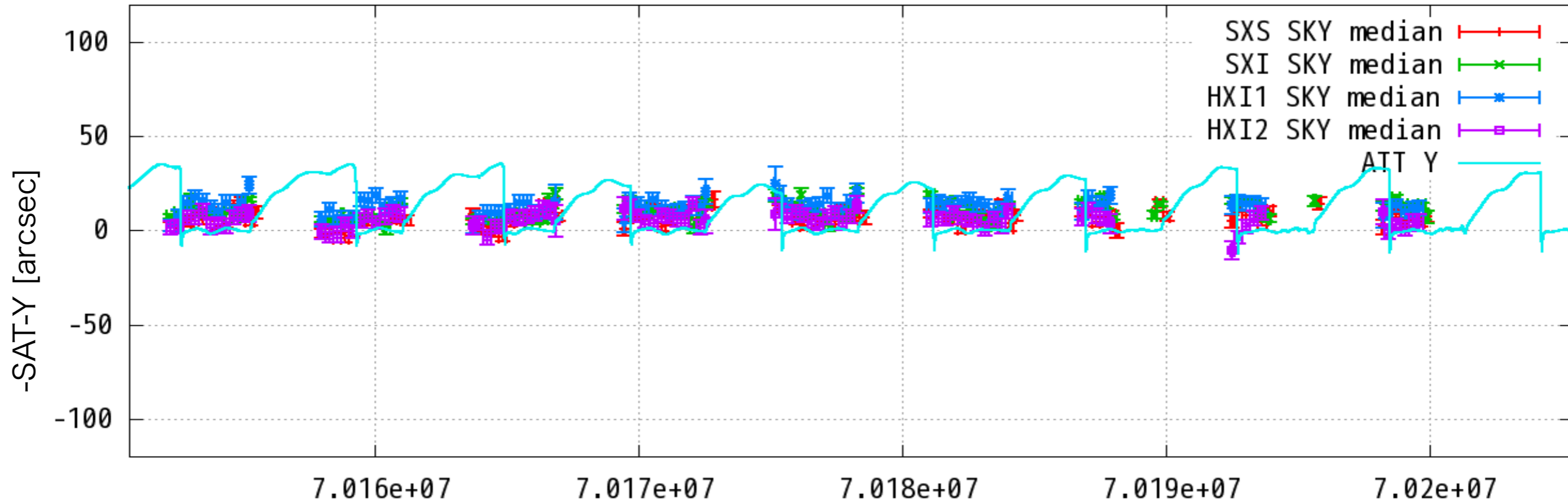
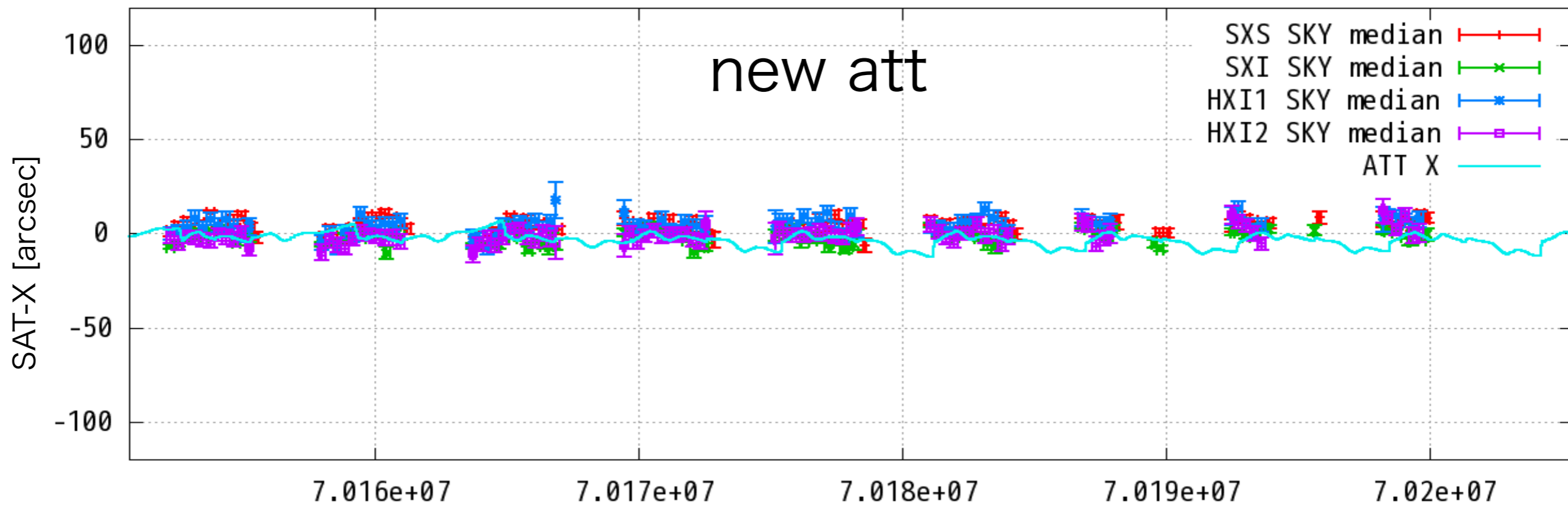
STT-ALL



100050040

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

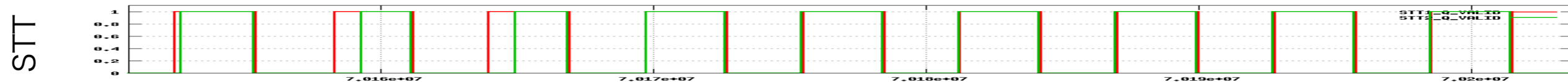
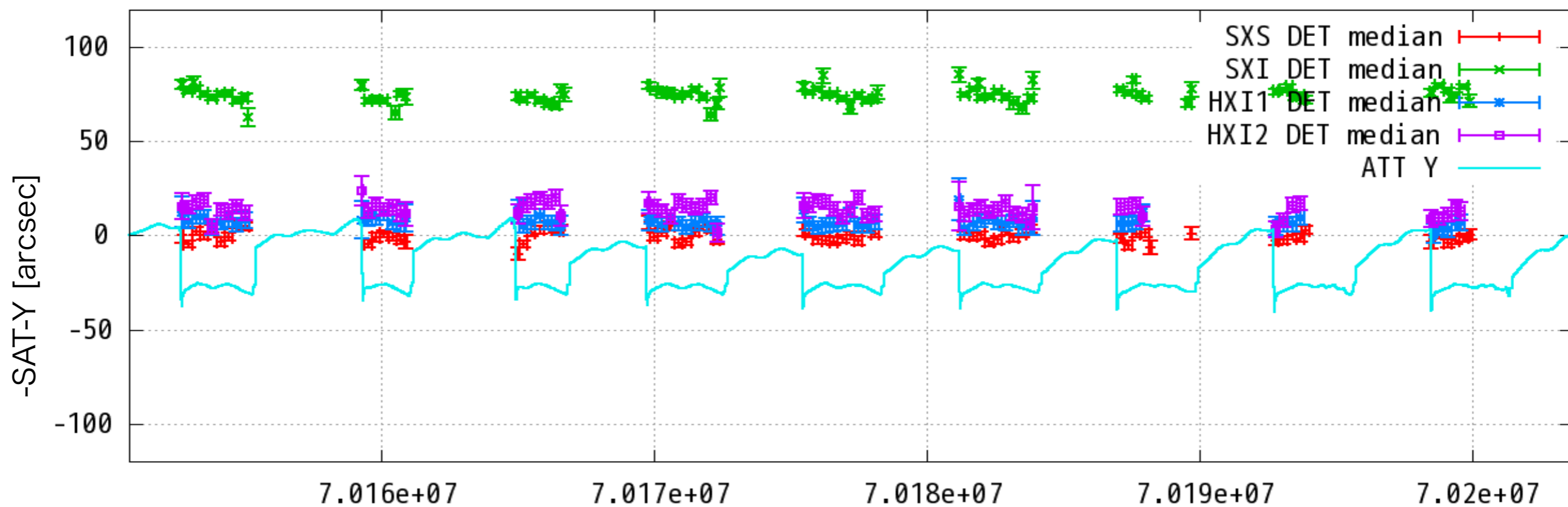
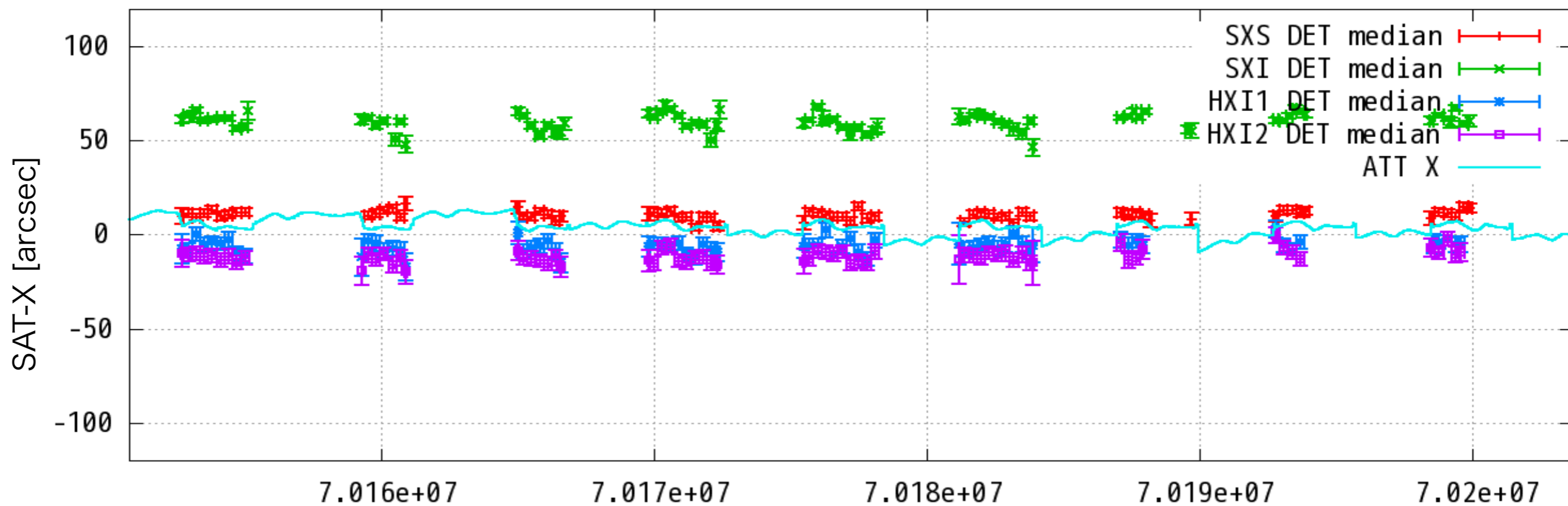
STT-ALL



100050040

G21.5-0.9 DET-X/DET-Y (unit: arcsec)

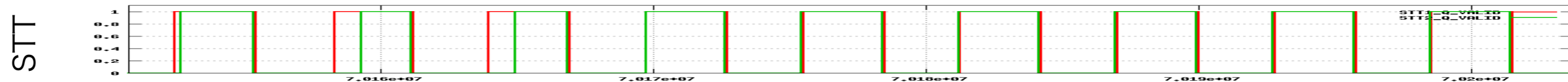
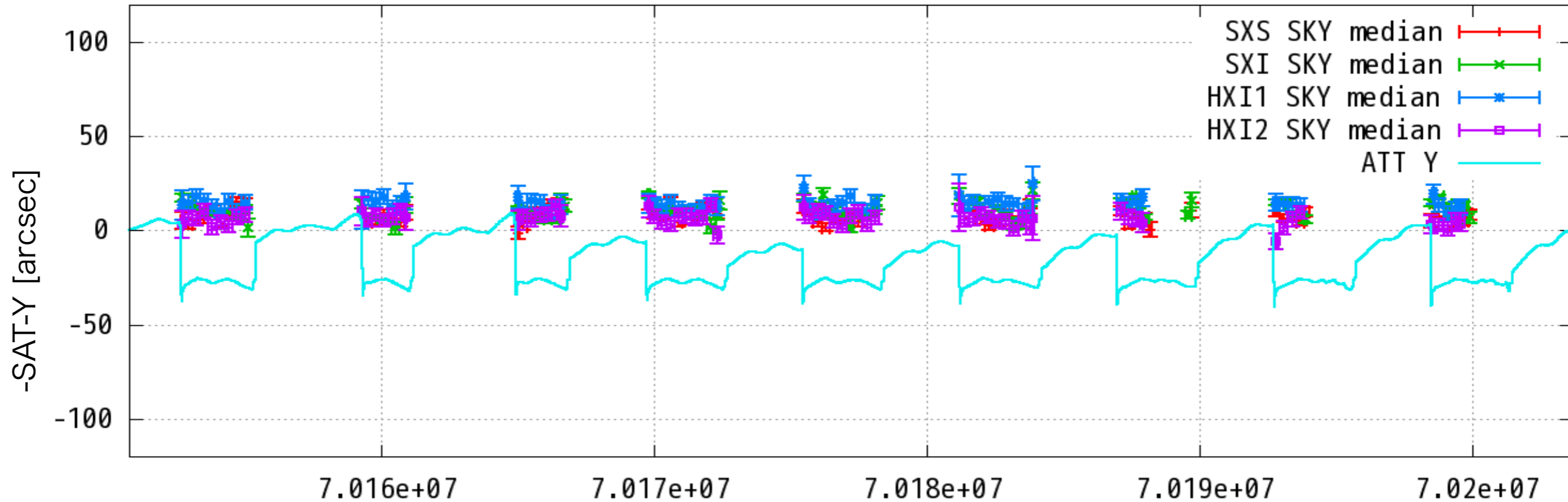
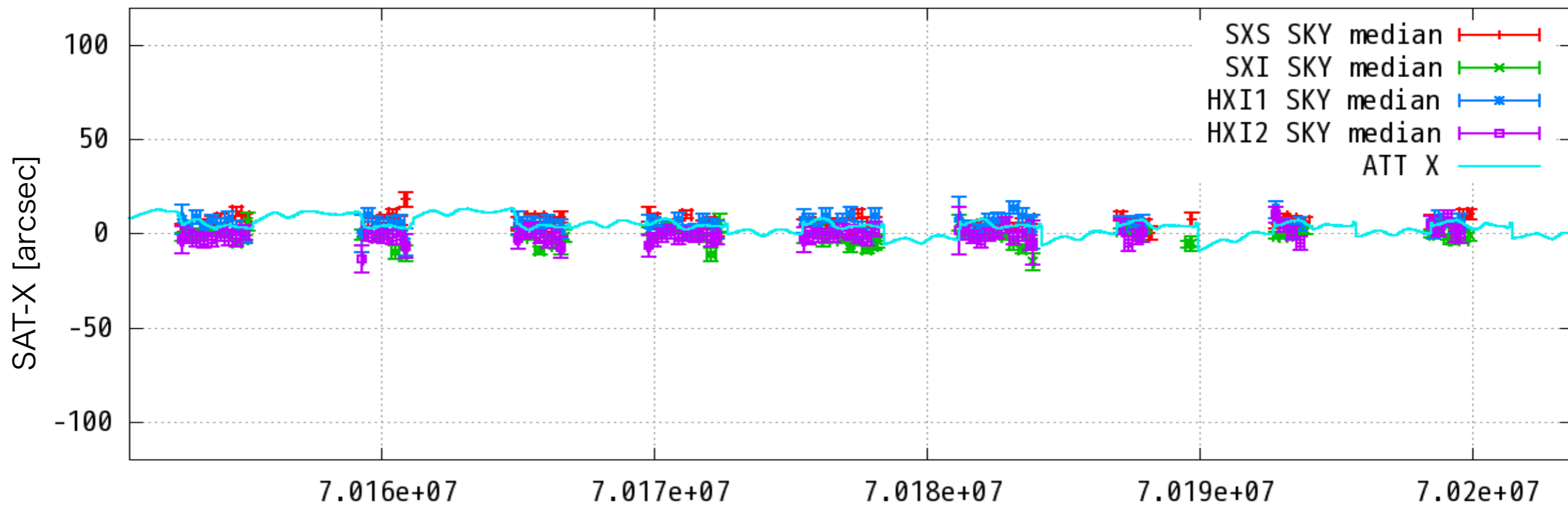
STT-CTL



100050040

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

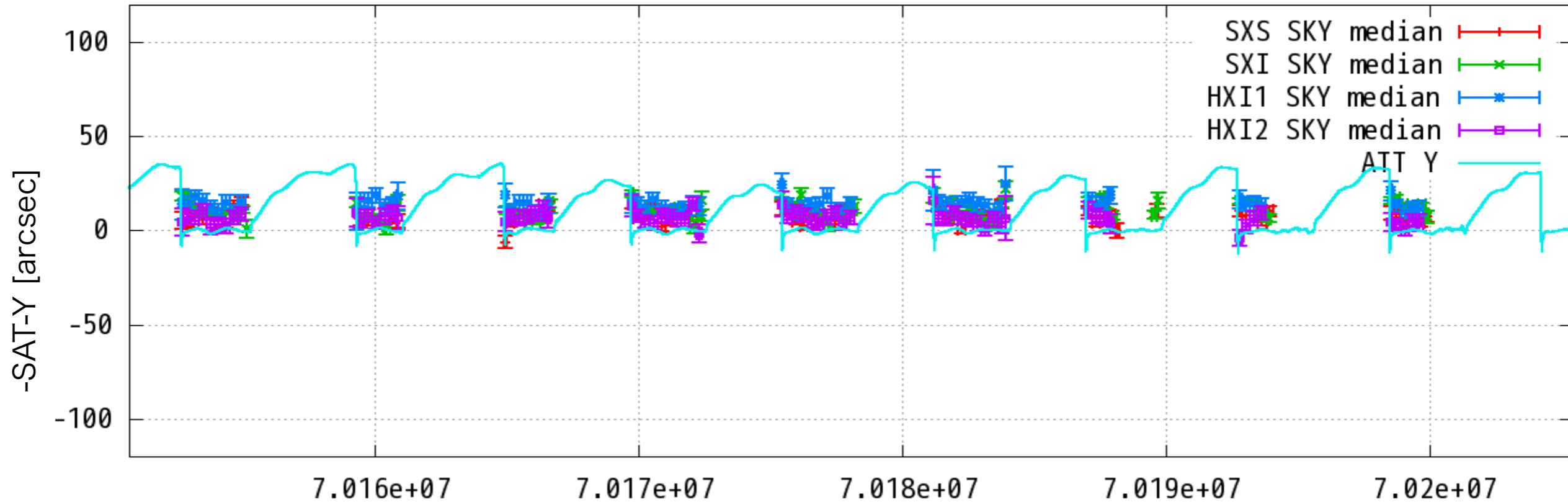
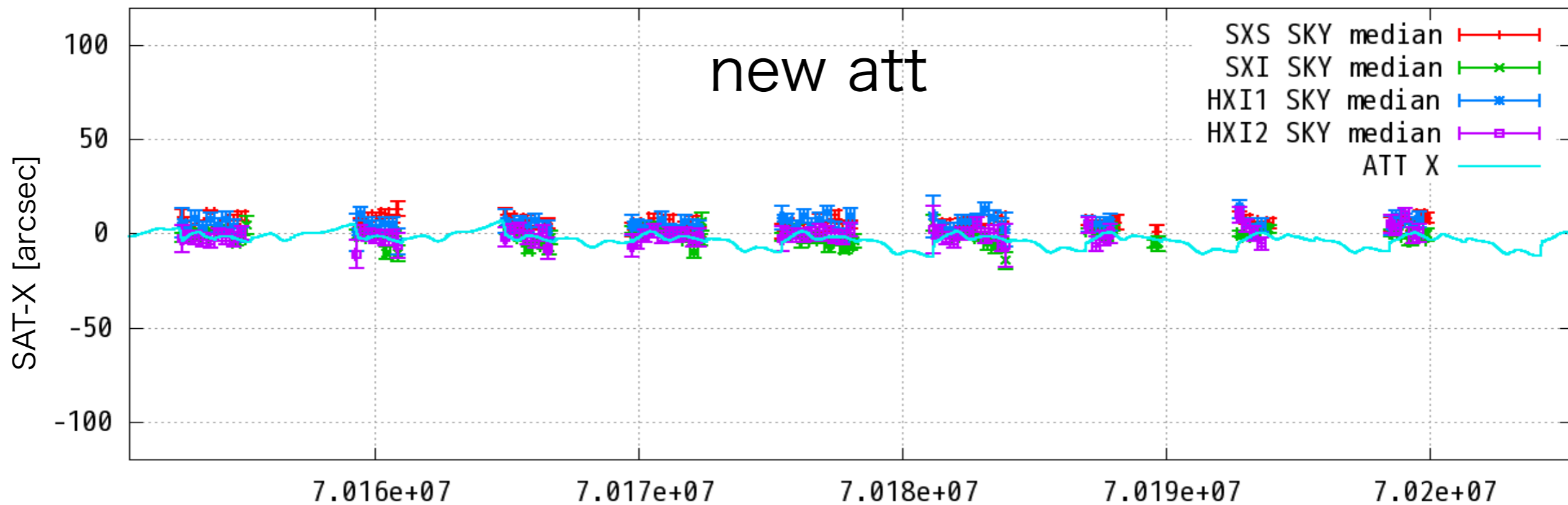
STT-CTL



100050040

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

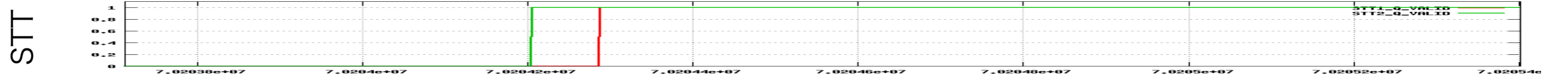
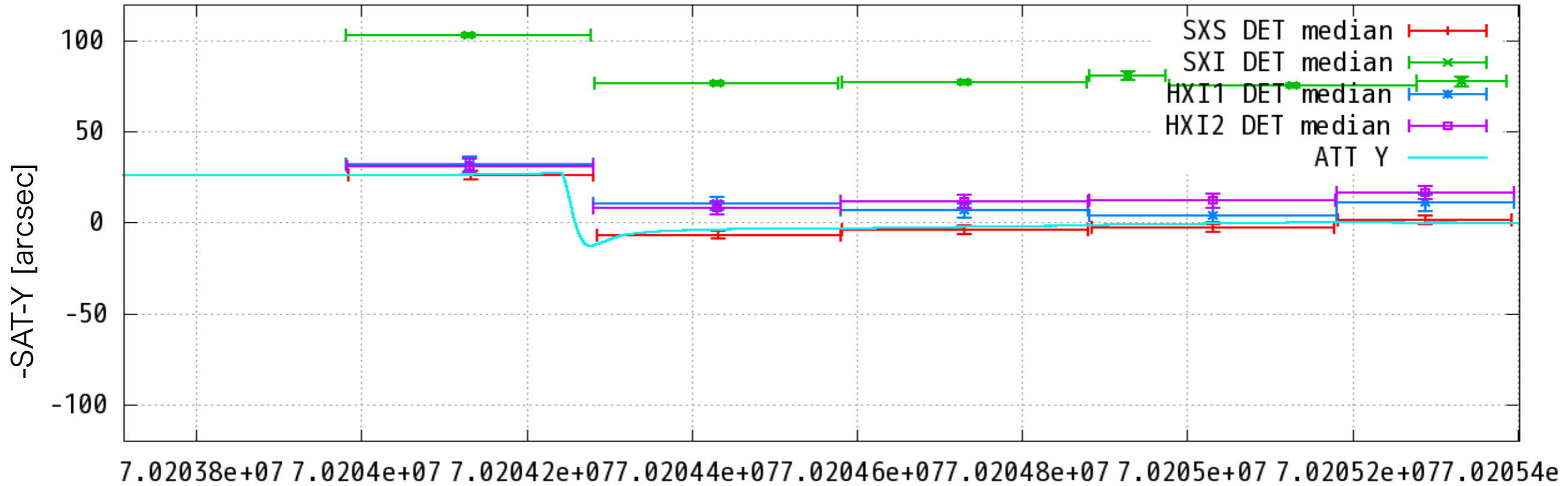
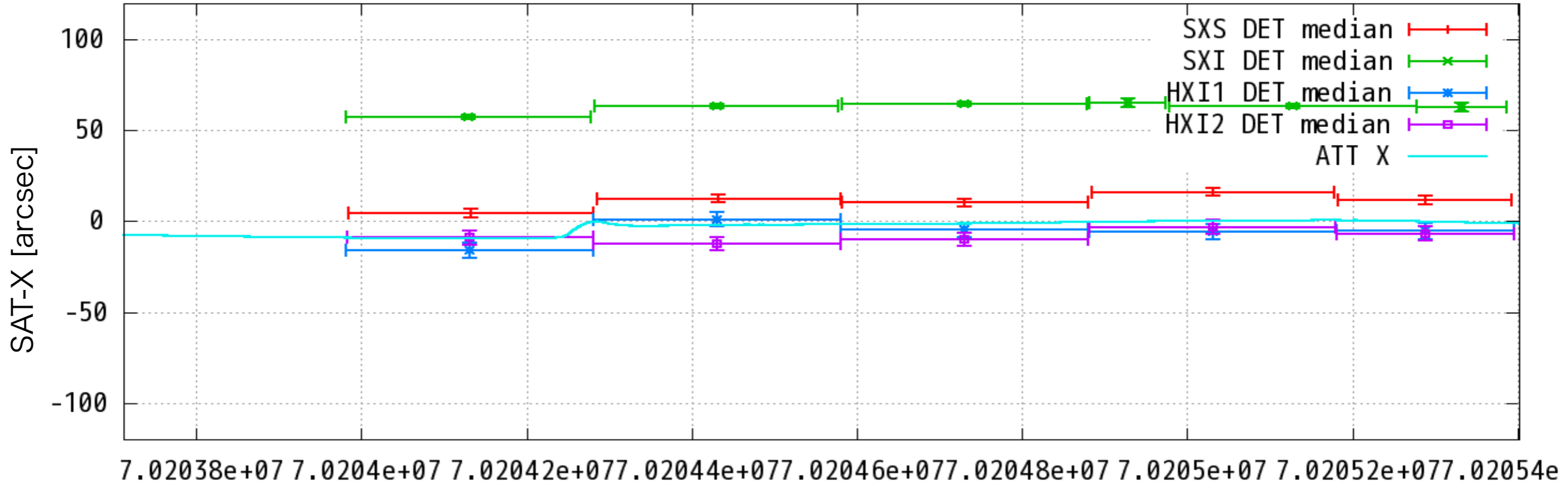
STT-CTL



100050050

G21.5-0.9 DET-X/DET-Y (unit: arcsec)

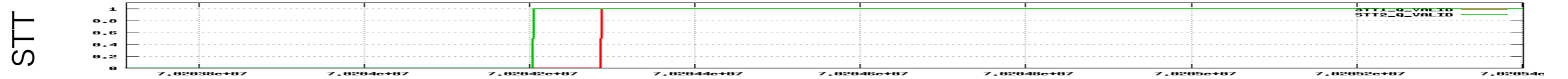
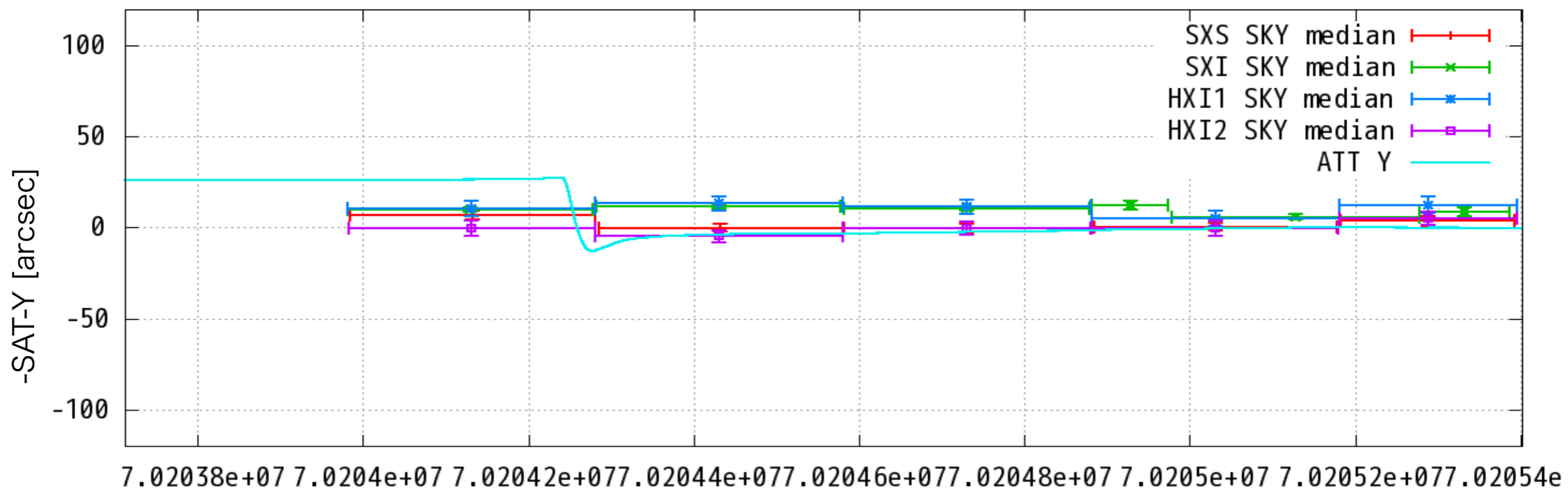
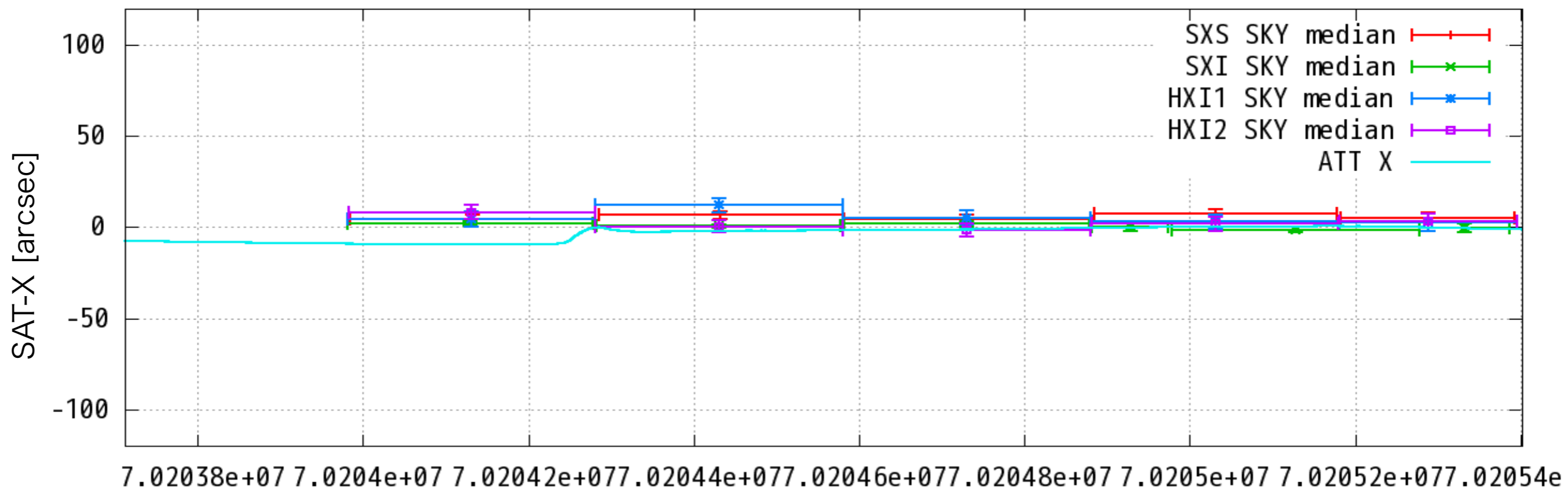
STT-ALL



100050050

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

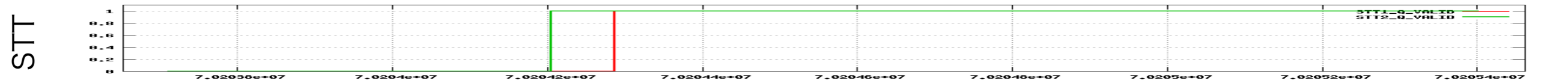
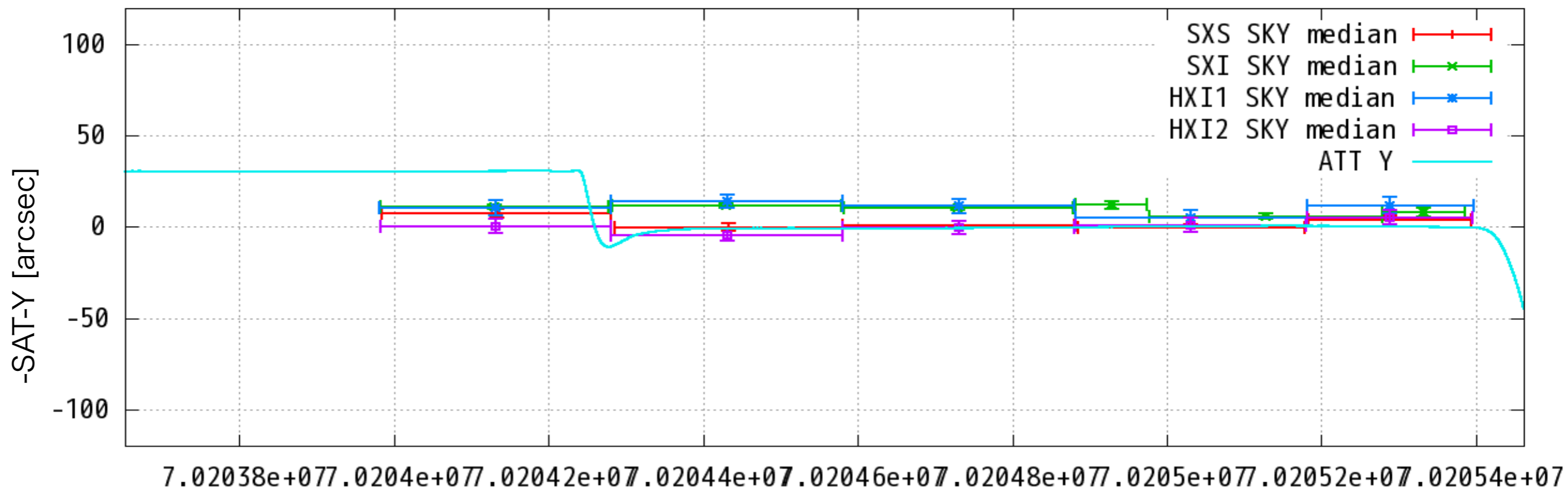
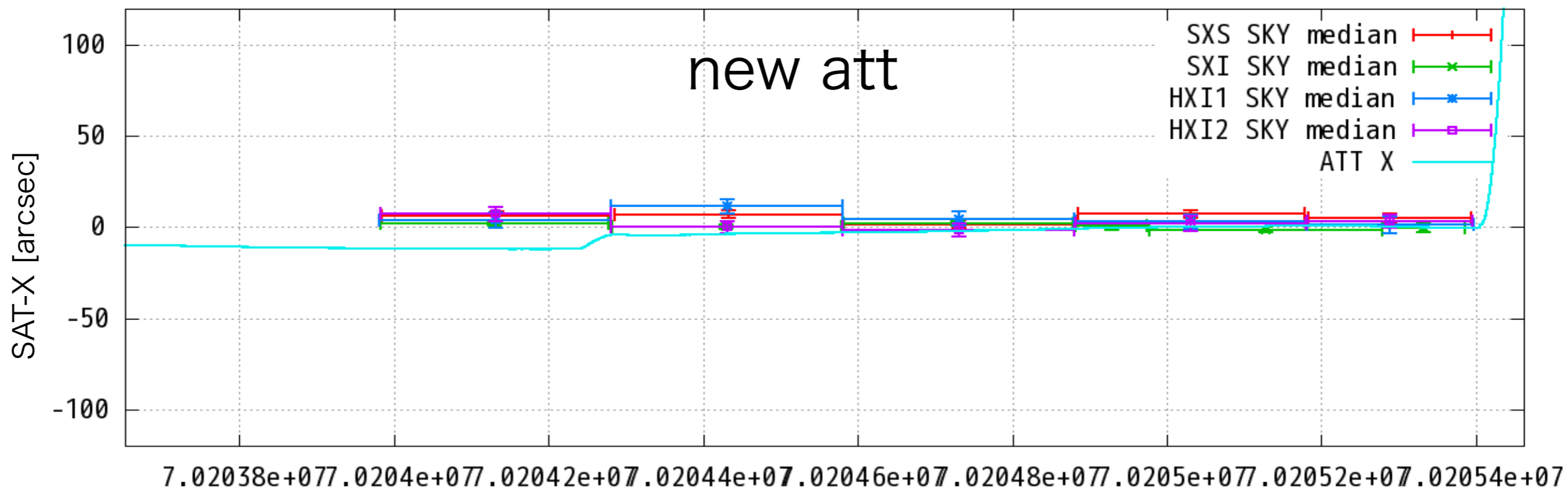
STT-ALL



100050050

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

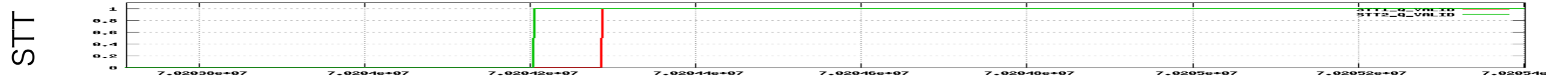
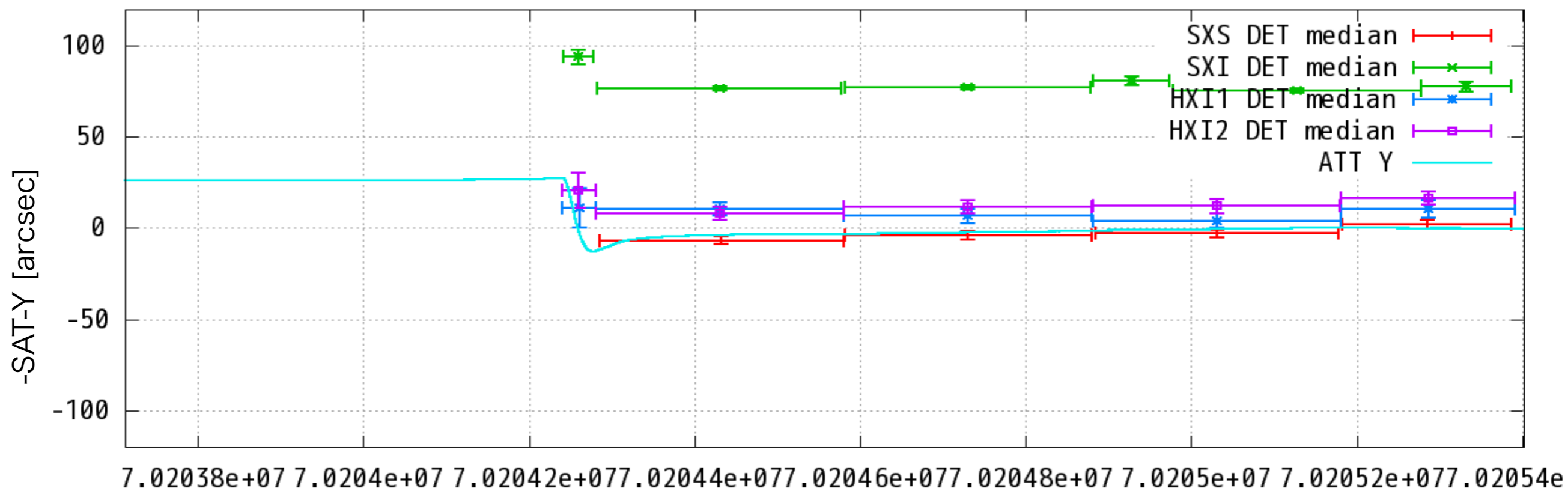
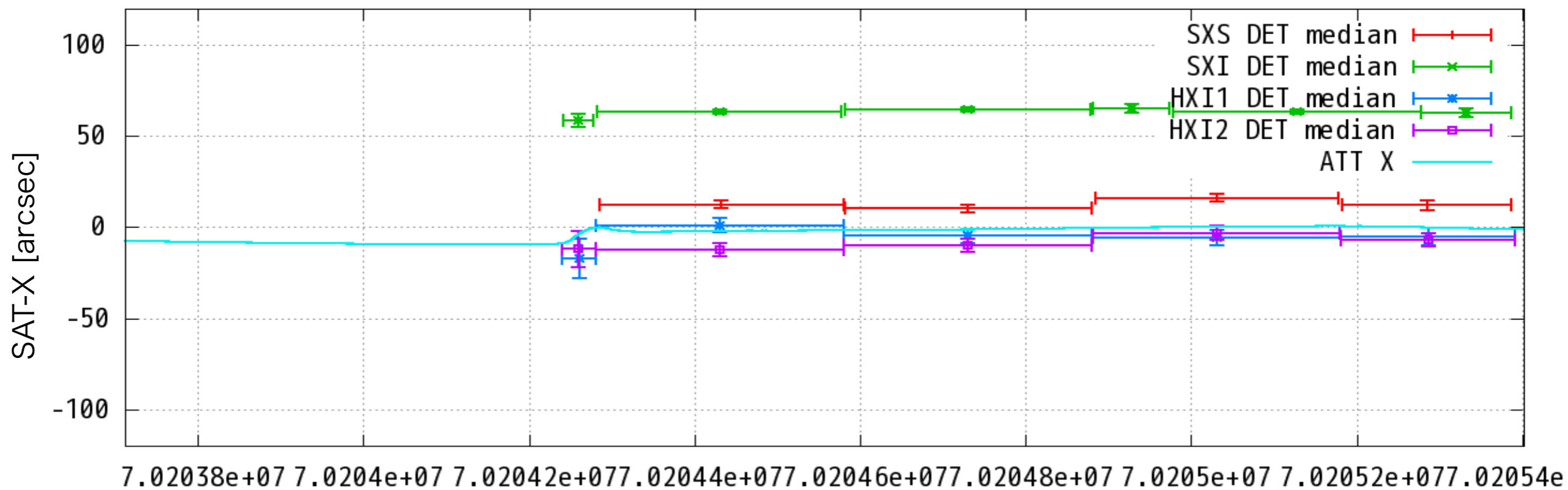
STT-ALL



100050050

G21.5-0.9 DET-X/DET-Y (unit: arcsec)

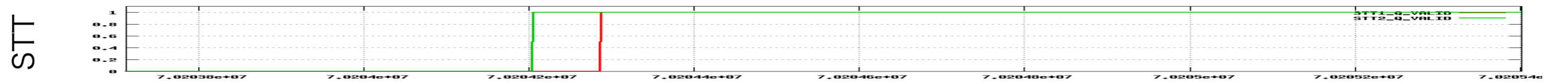
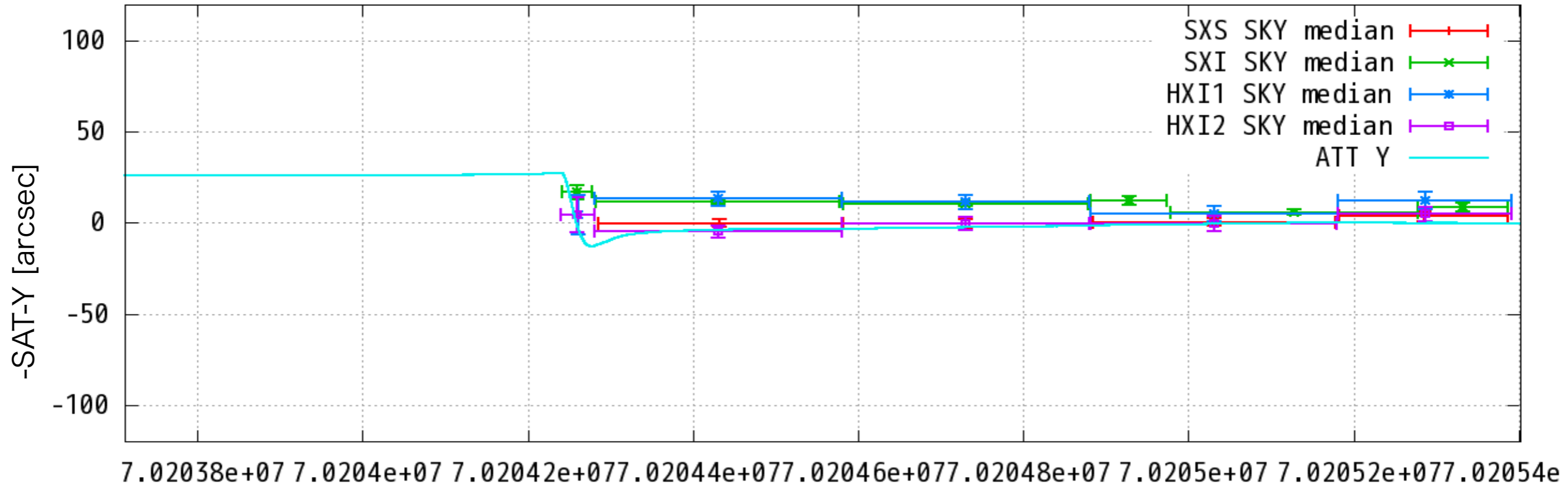
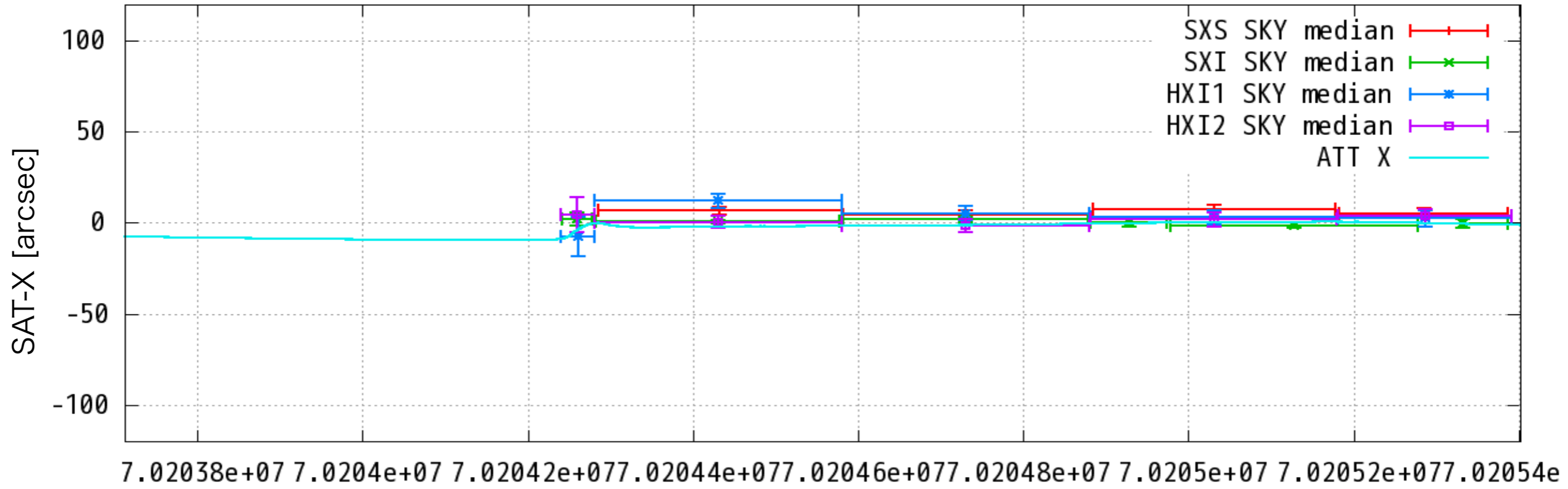
STT-CTL



100050050

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

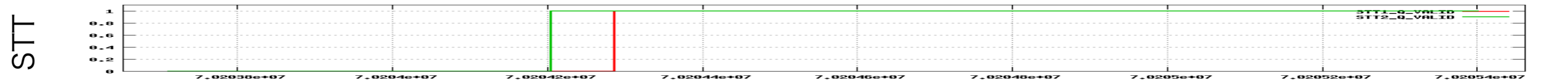
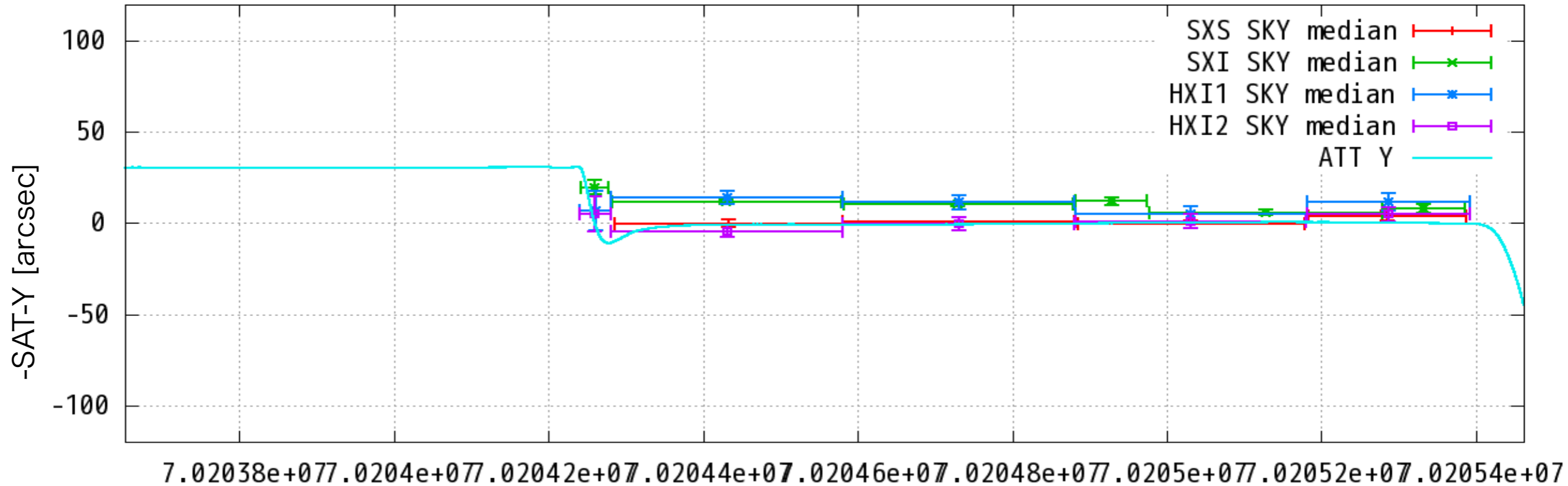
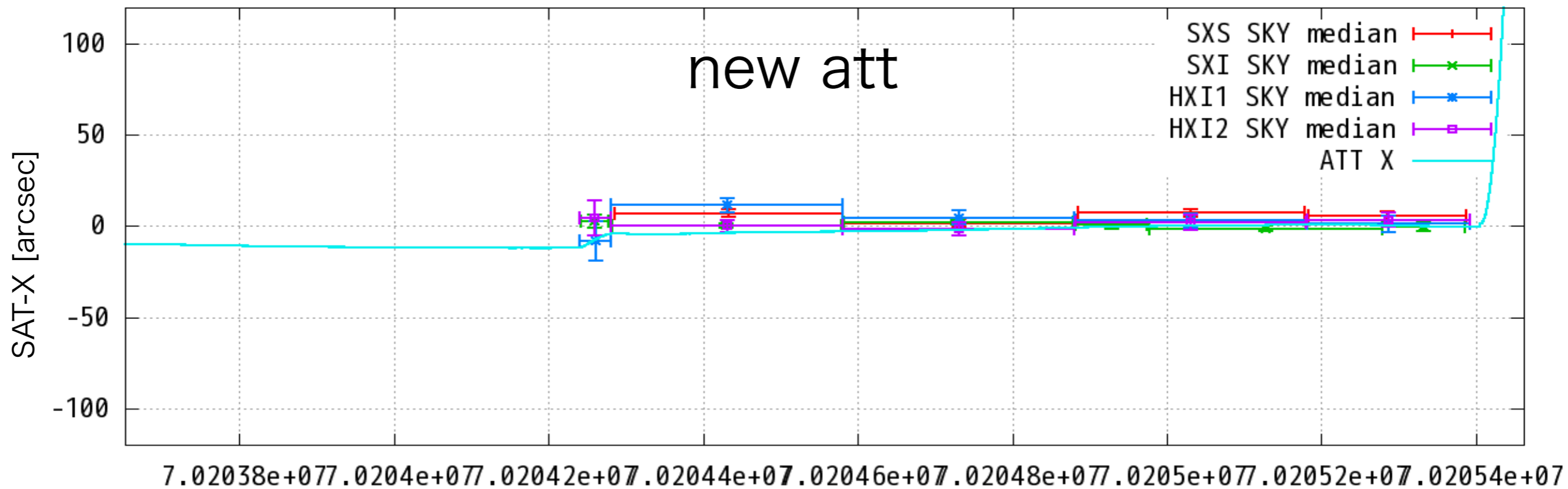
STT-CTL



100050050

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

STT-CTL

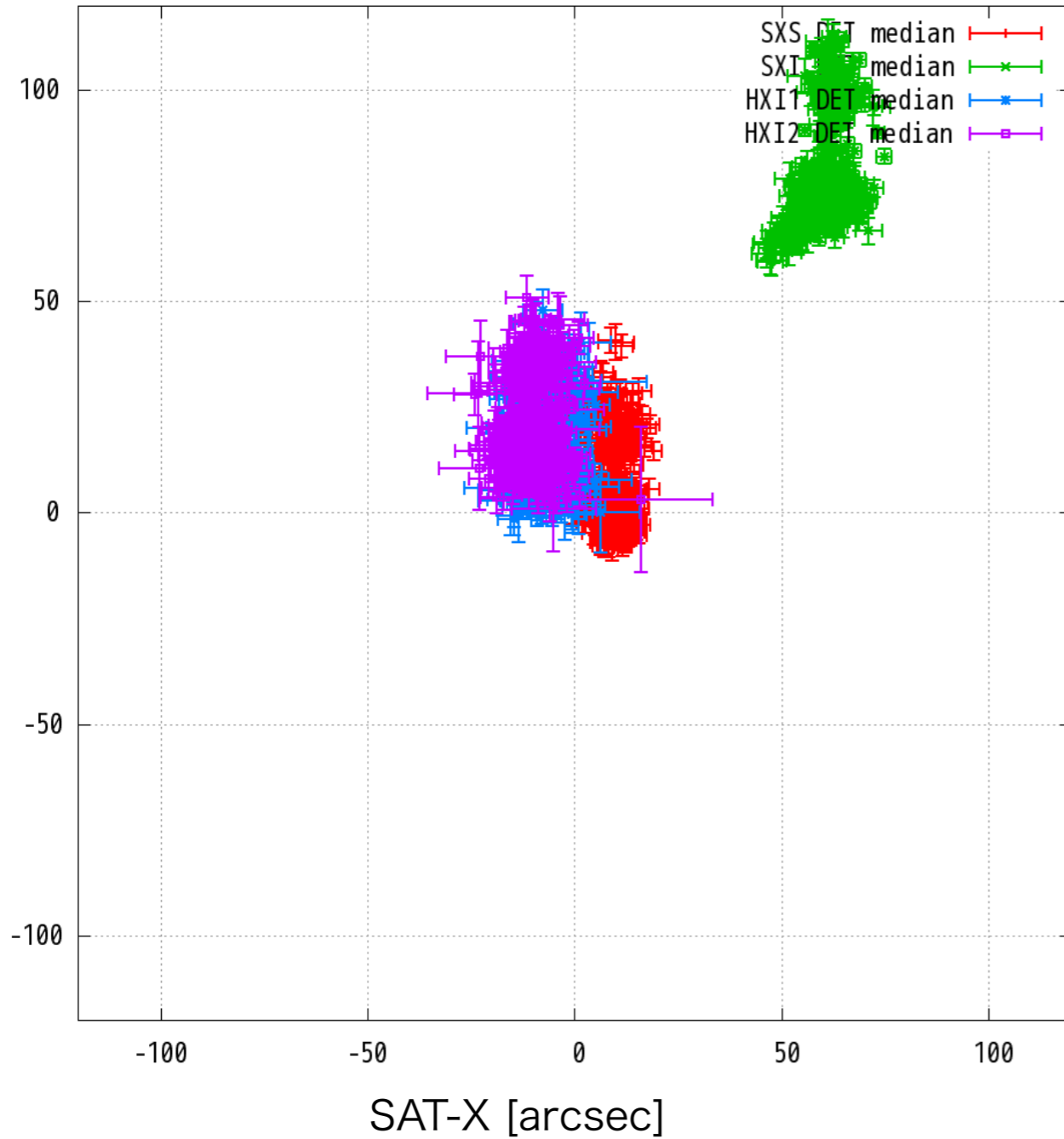


G21.5-0.9 (STT-ALL)

seq: 100050010, 20, 30, 40, 50

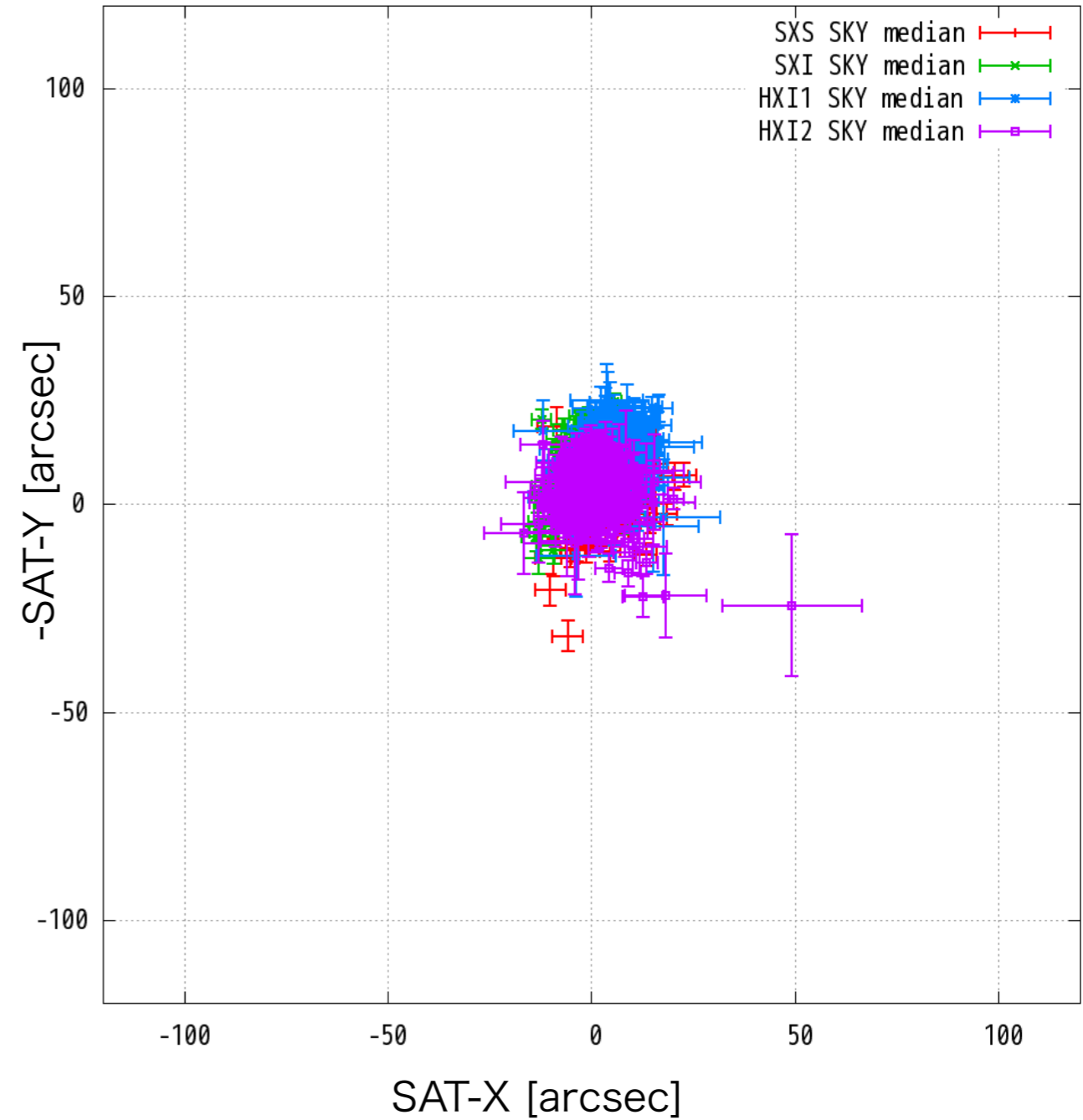
DET

G21.5-0.9 DET-X/DET-Y (unit: arcsec)



SKY

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

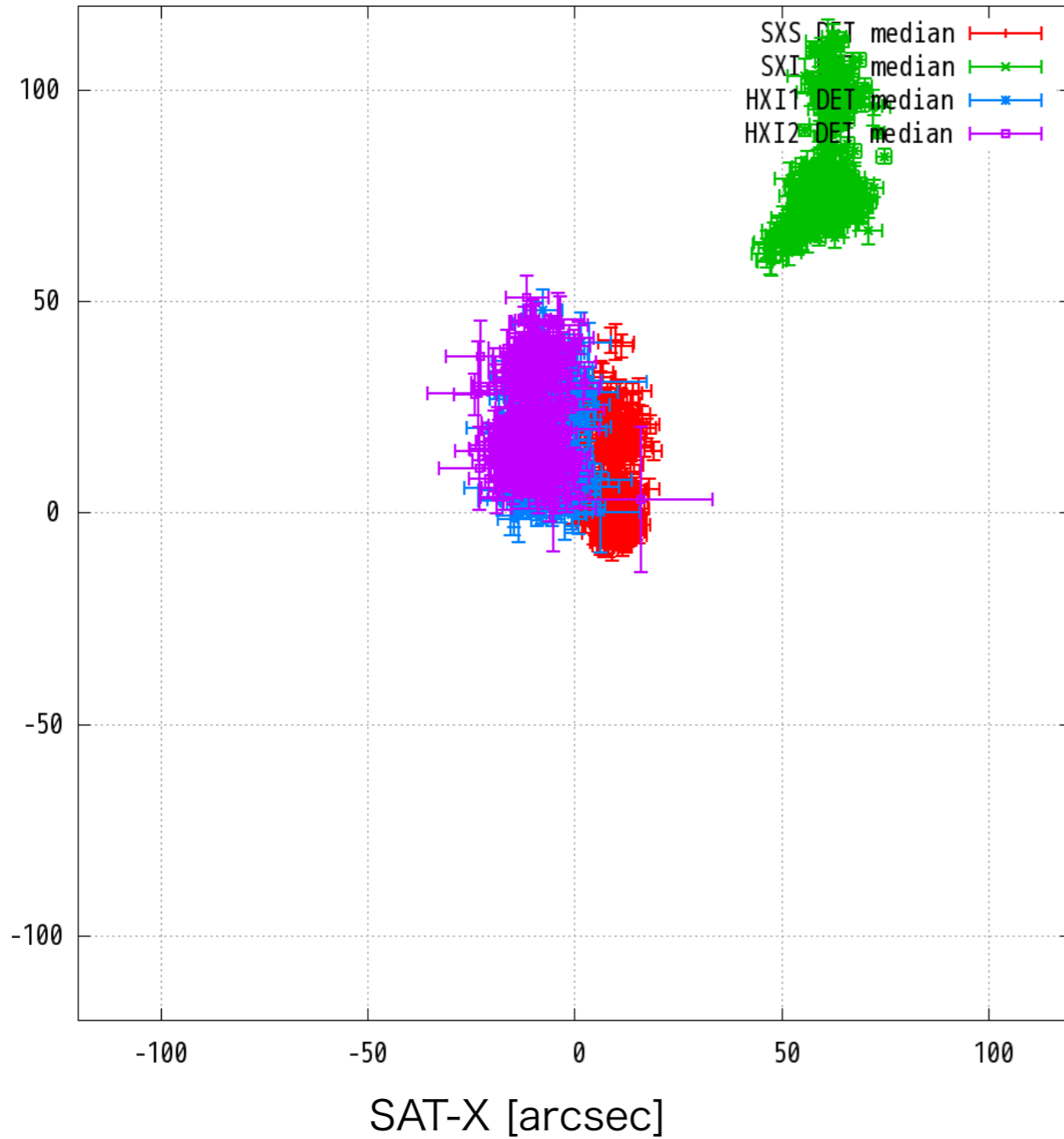


G21.5-0.9 (STT-ALL)

seq: 100050010, 20, 30, 40, 50

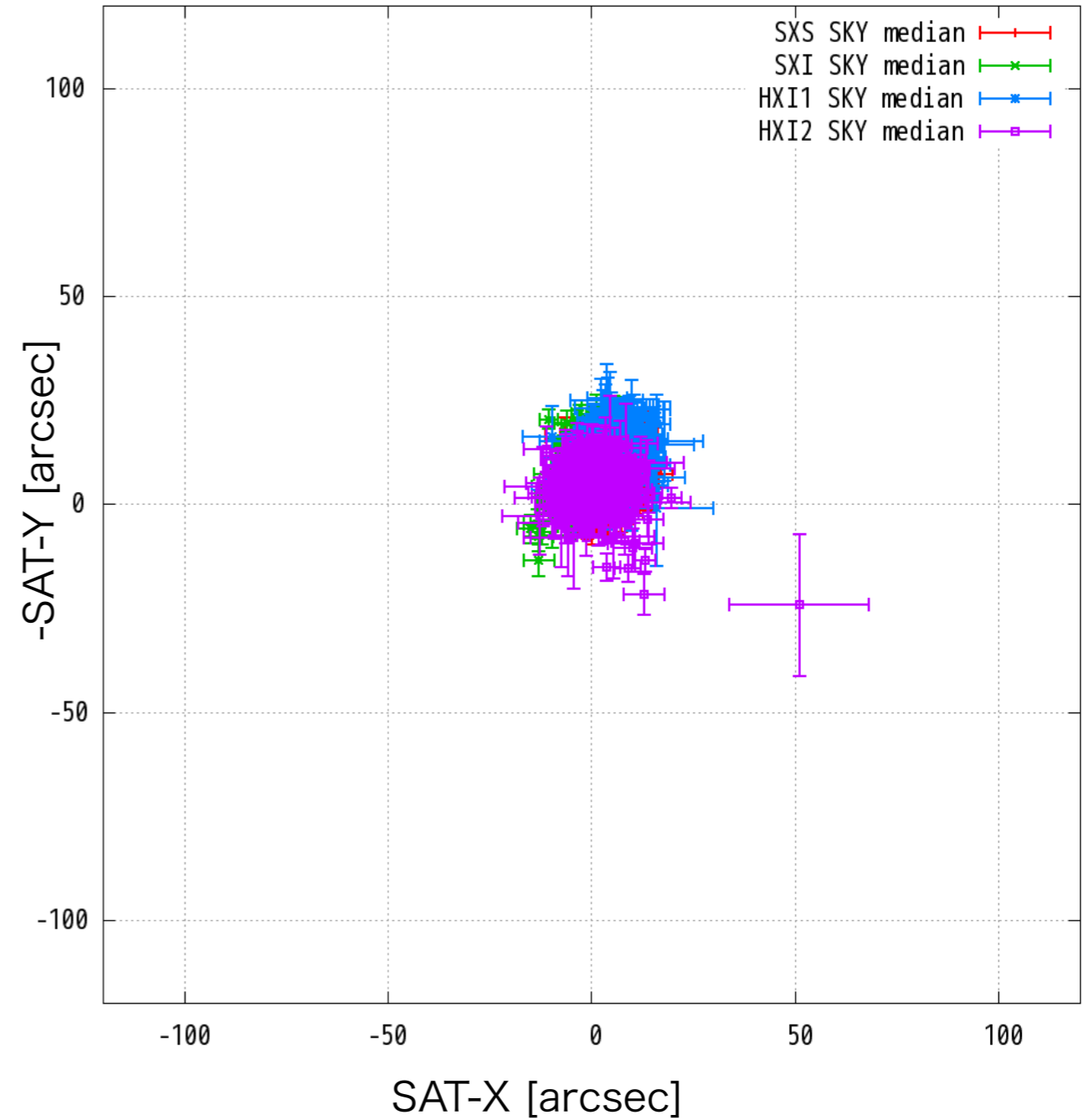
DET

G21.5-0.9 DET-X/DET-Y (unit: arcsec)



SKY new att

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

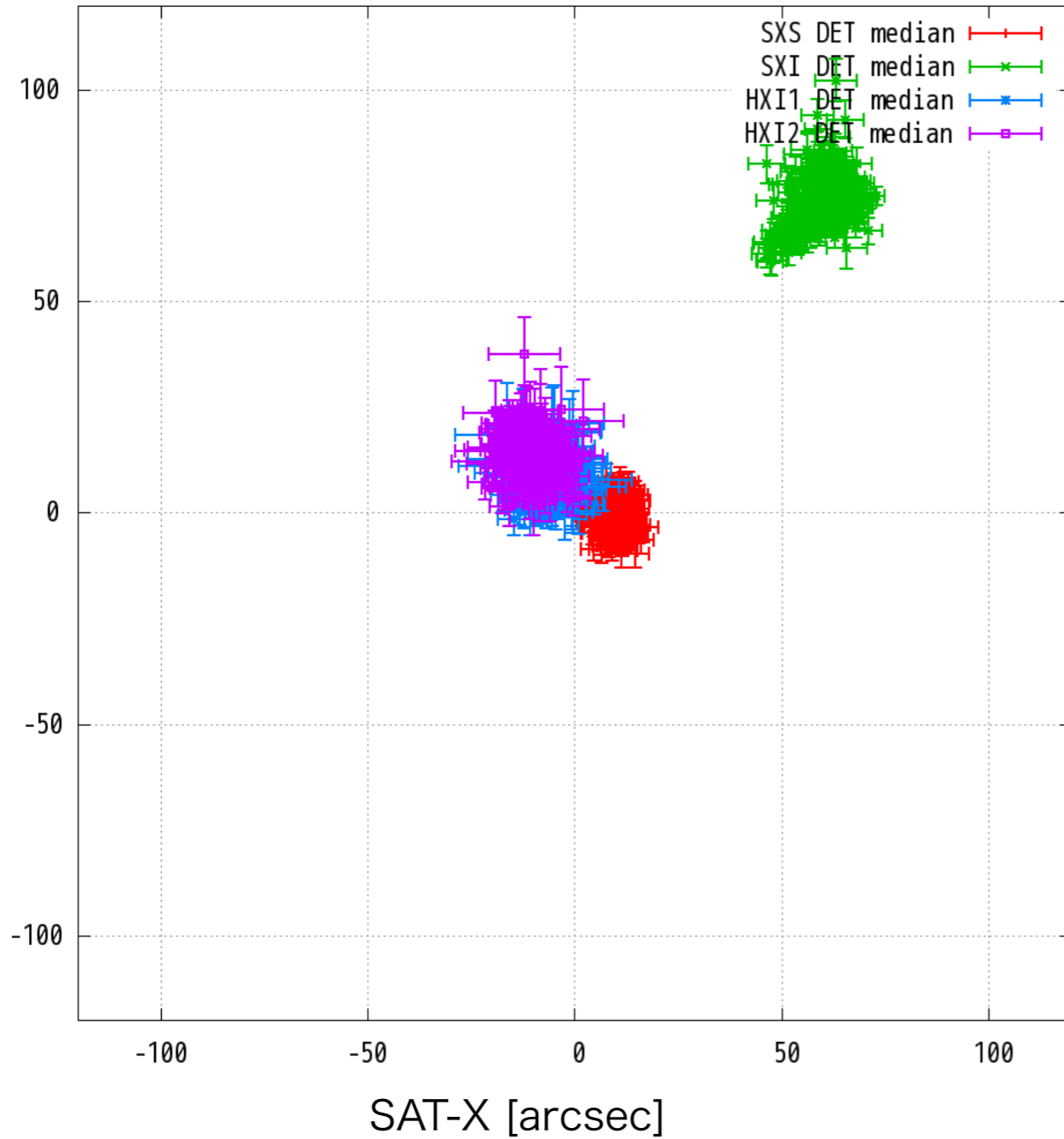


G21.5-0.9 (STT-CTL)

seq: 100050010, 20, 30, 40, 50

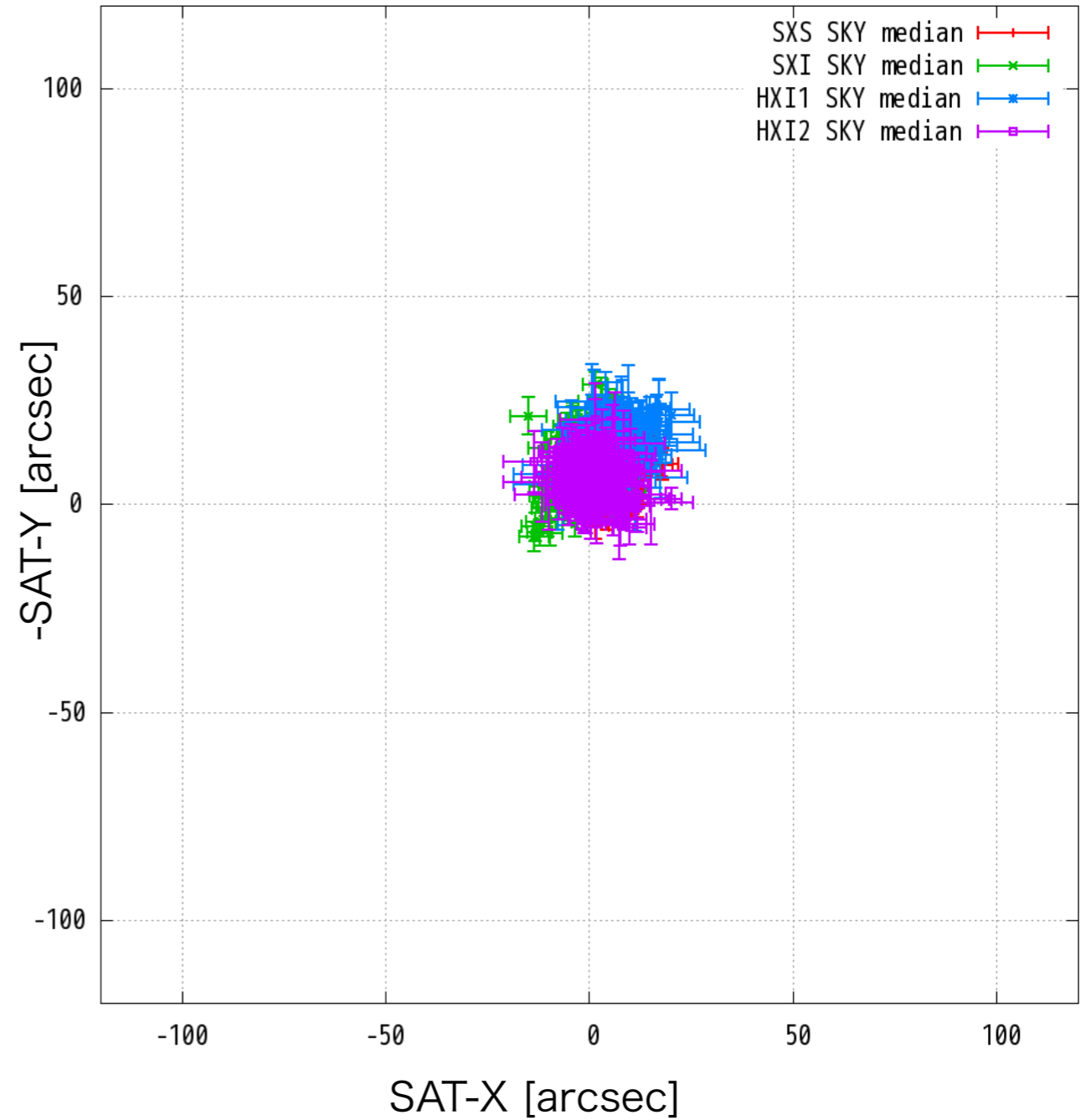
DET

G21.5-0.9 DET-X/DET-Y (unit: arcsec)



SKY

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)

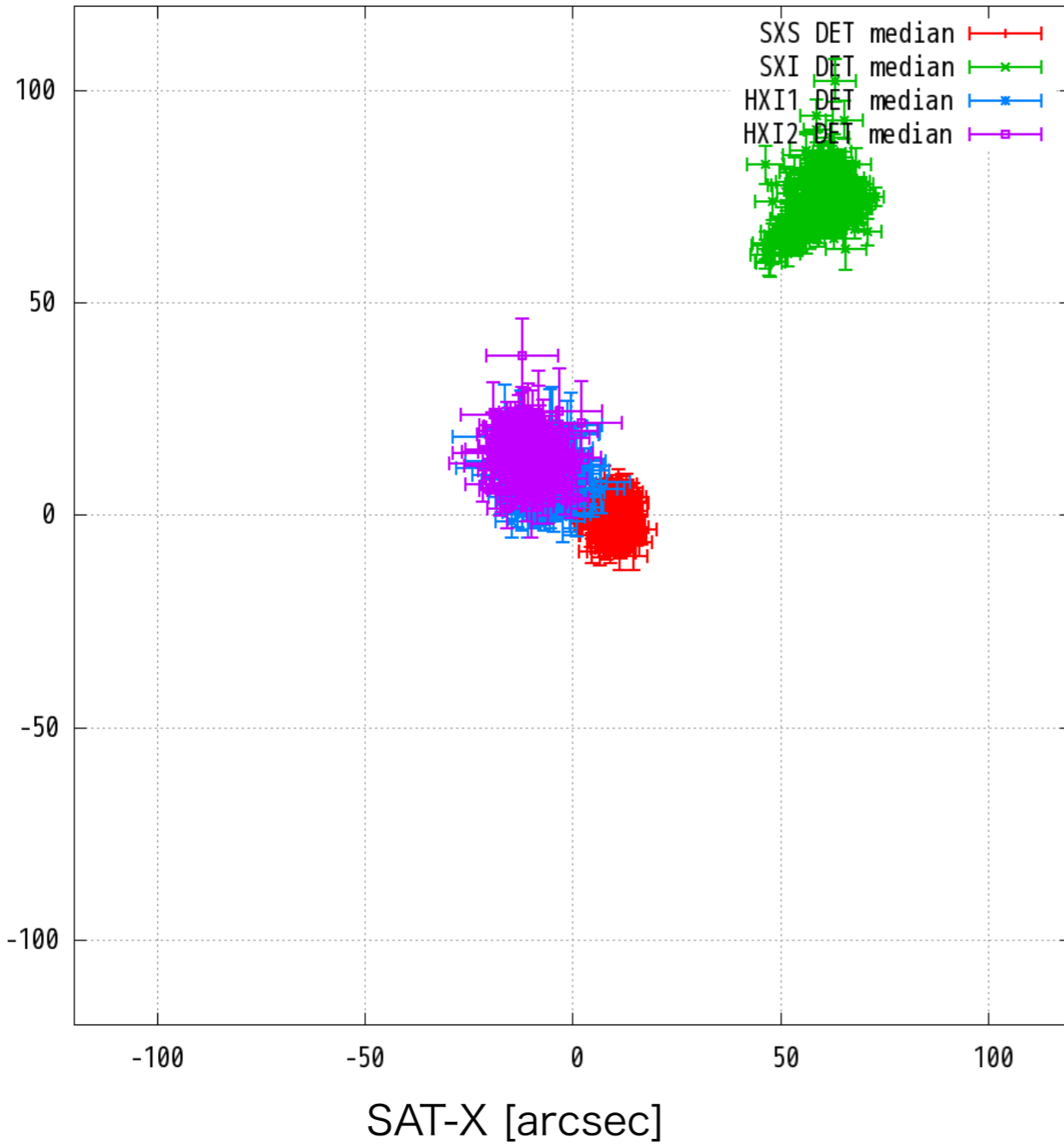


G21.5-0.9 (STT-CTL)

seq: 100050010, 20, 30, 40, 50

DET

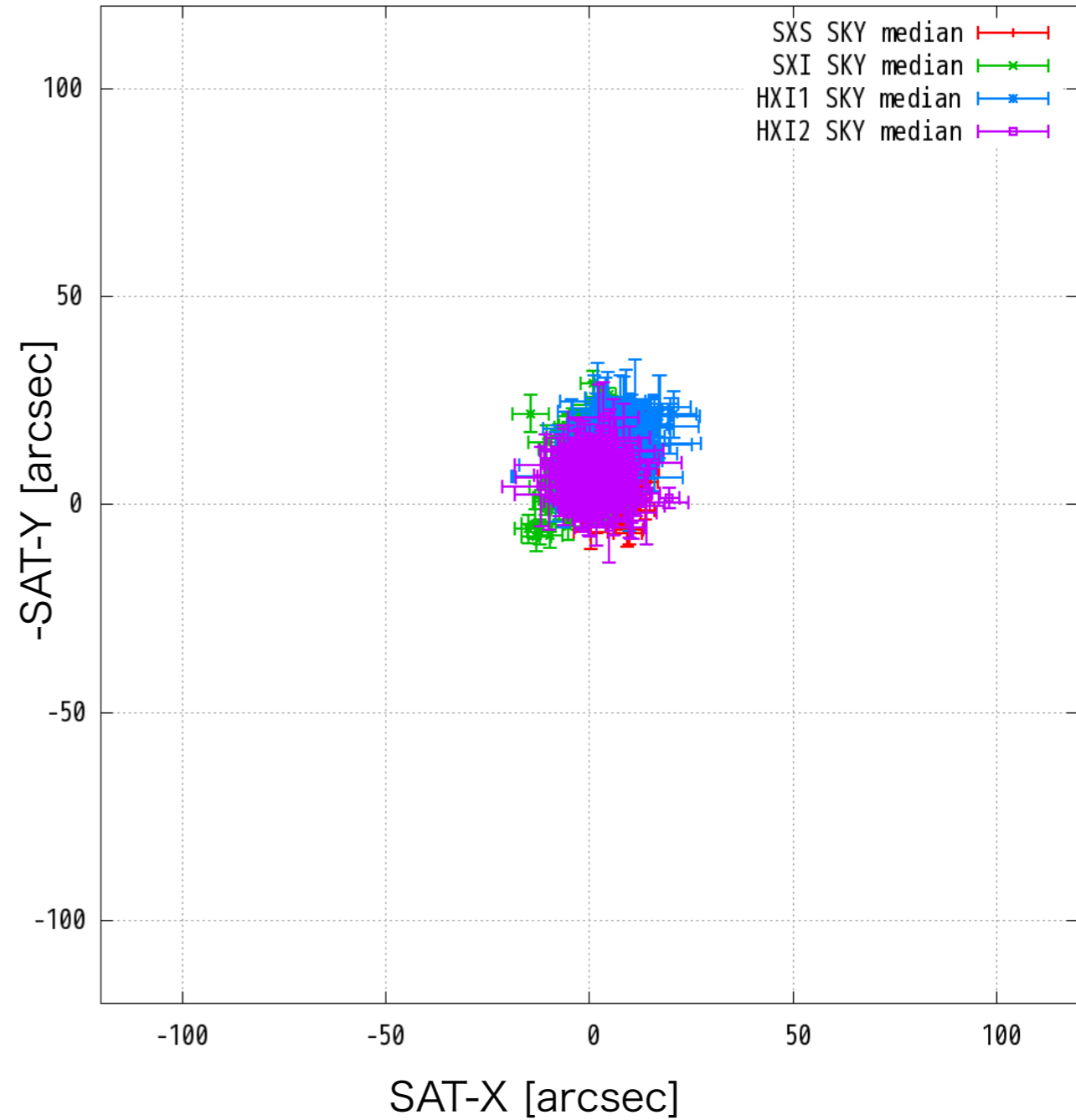
G21.5-0.9 DET-X/DET-Y (unit: arcsec)



SKY

new att

G21.5-0.9 SKY-X/SKY-Y (unit: arcsec)



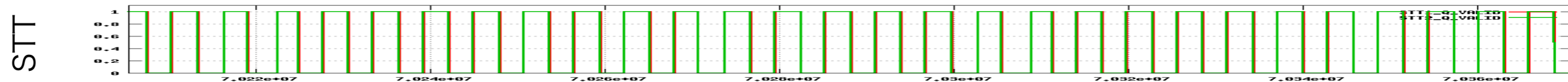
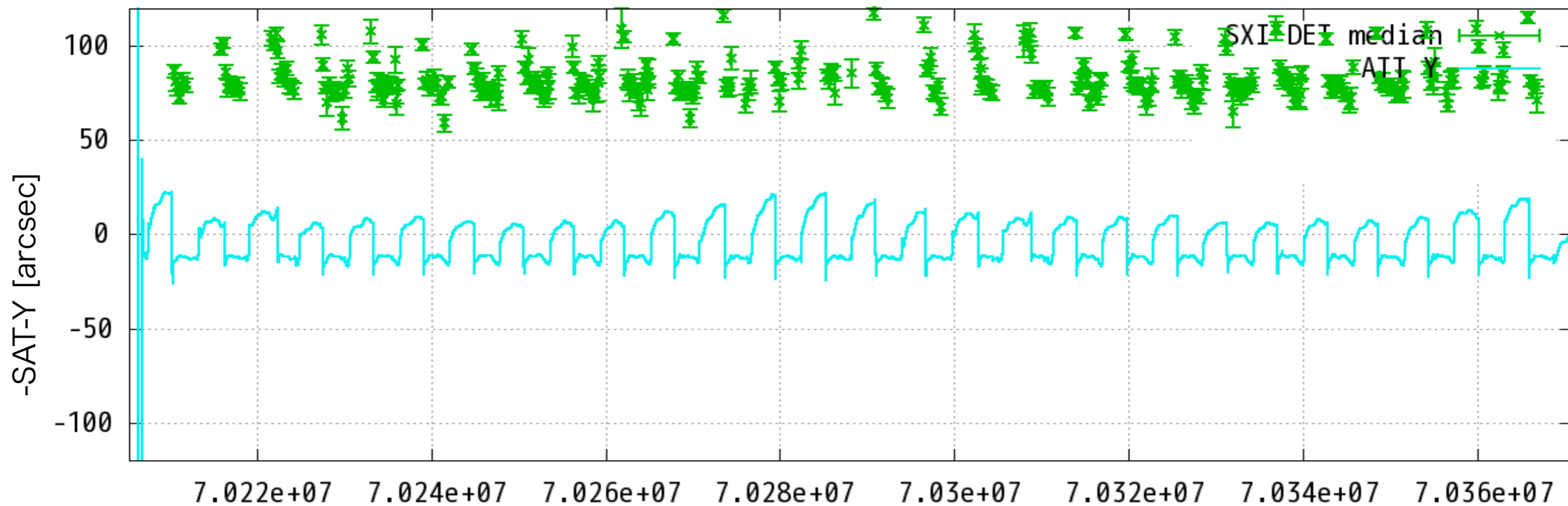
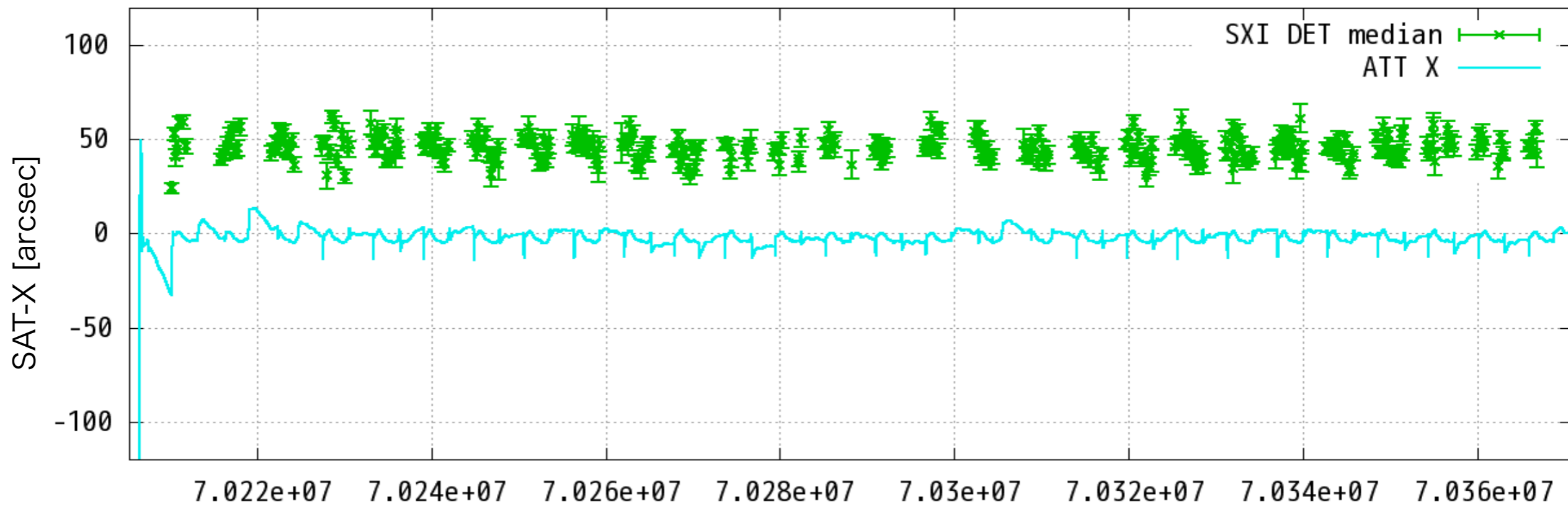
RXJ1856.5-3754

100043050, 60

100043050, 60

RXJ1856.5-3754 DET-X/DET-Y (unit: arcsec)

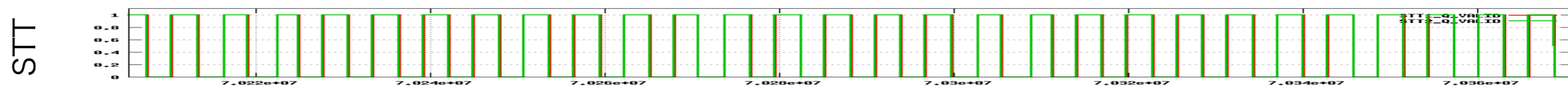
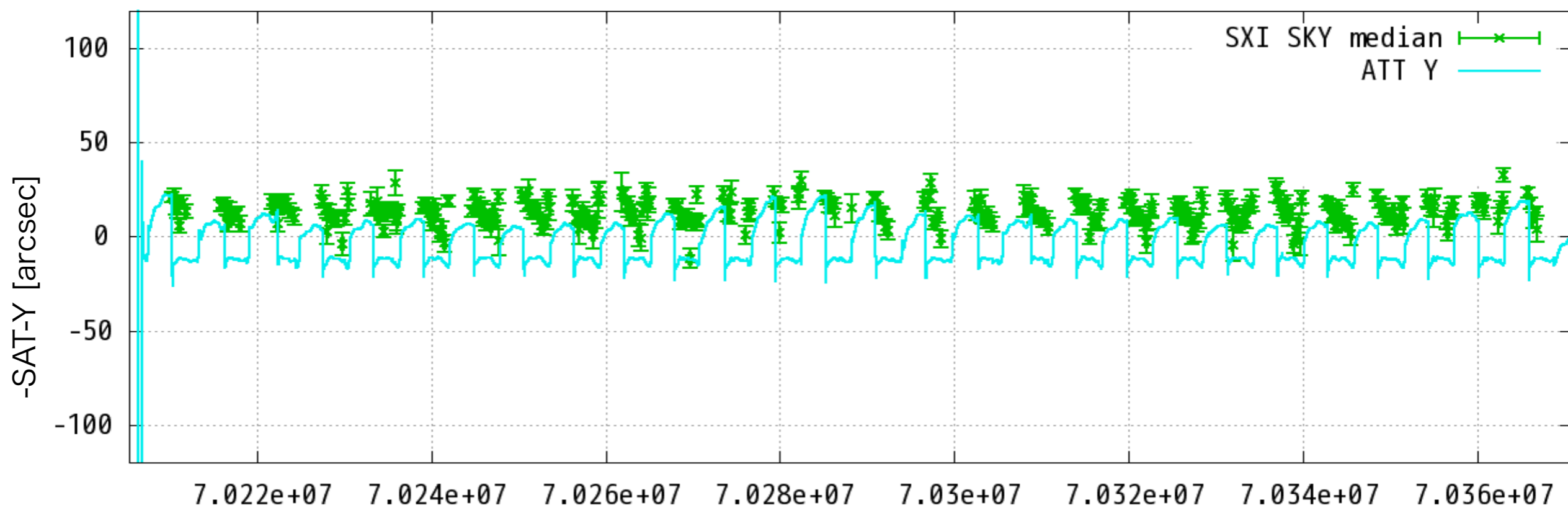
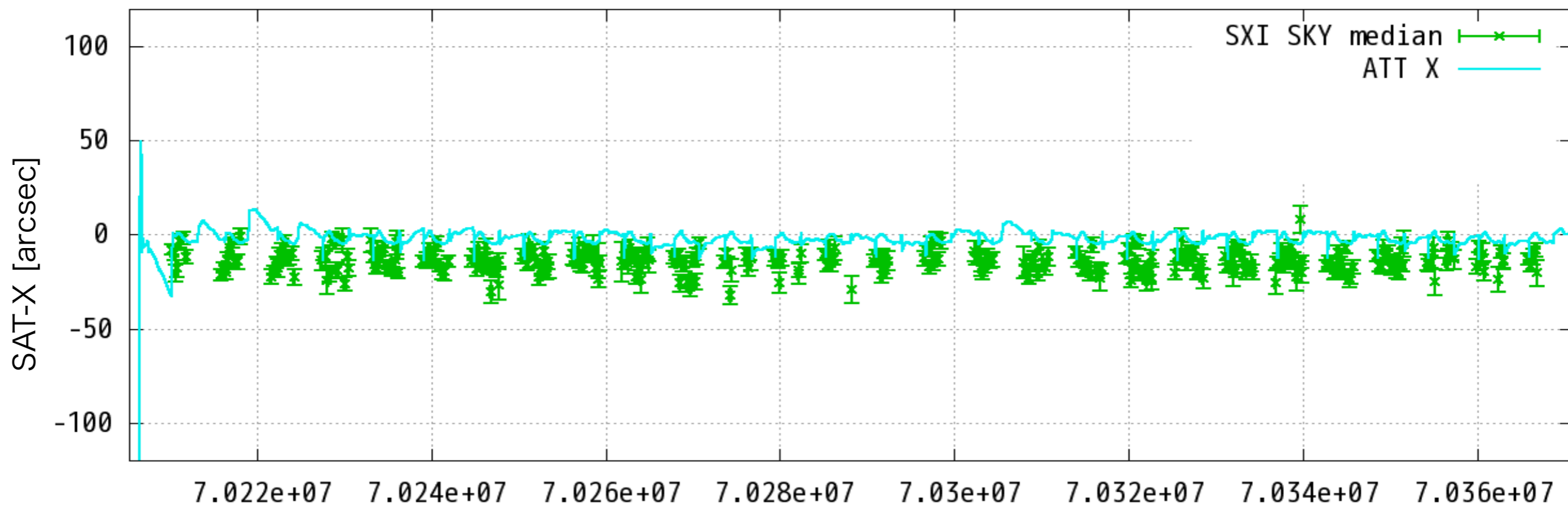
STT-ALL



100043050, 60

RXJ1856.5-3754 SKY-X/SKY-Y (unit: arcsec)

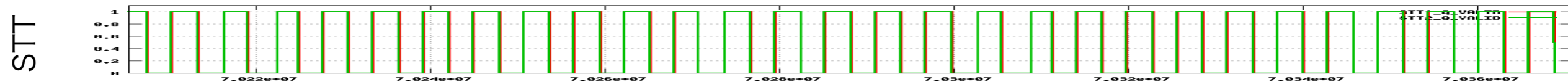
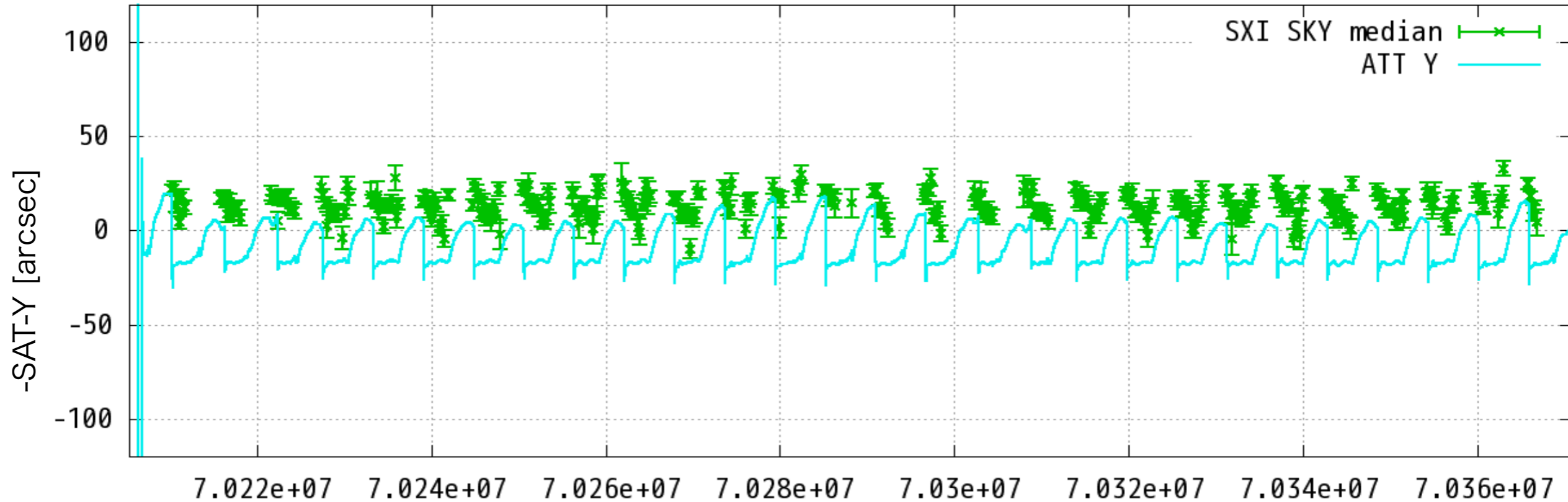
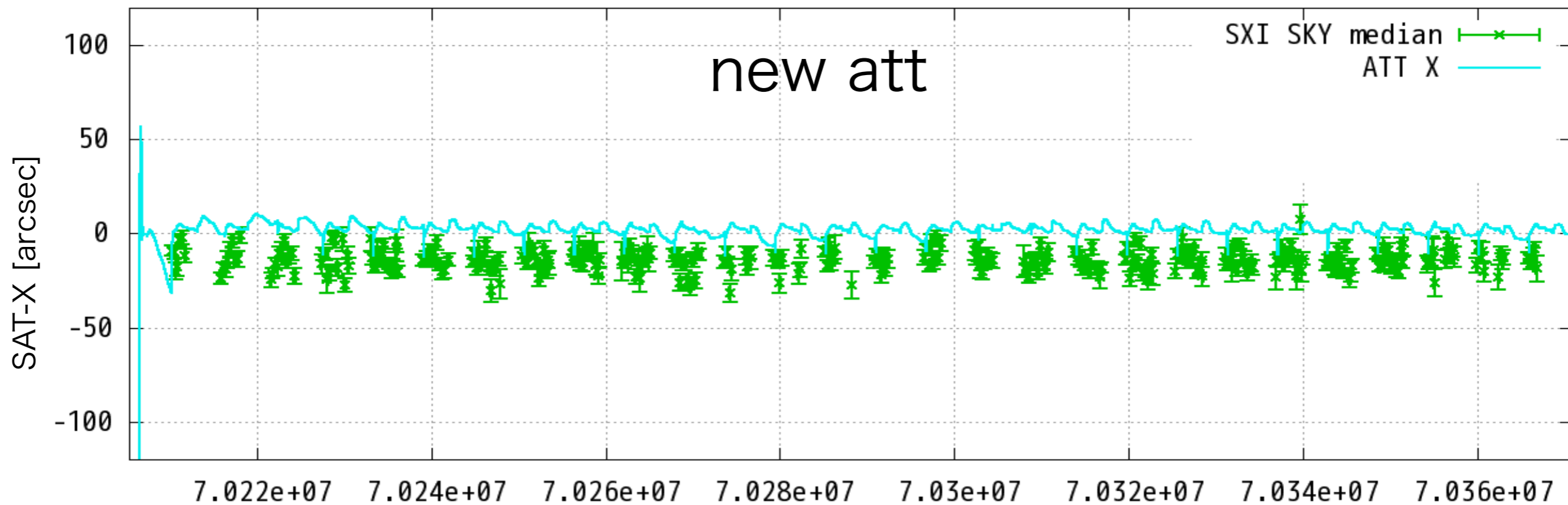
STT-ALL



100043050, 60

RXJ1856.5-3754 SKY-X/SKY-Y (unit: arcsec)

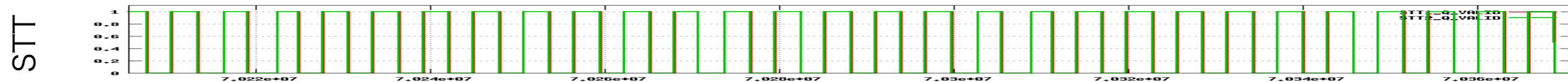
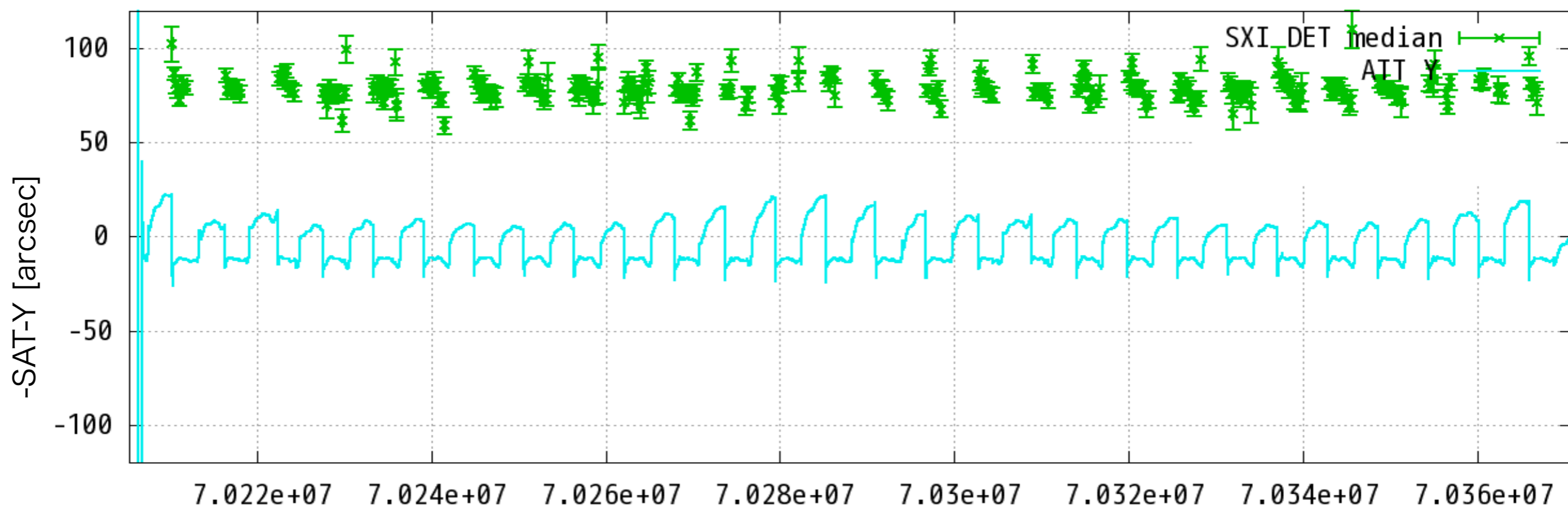
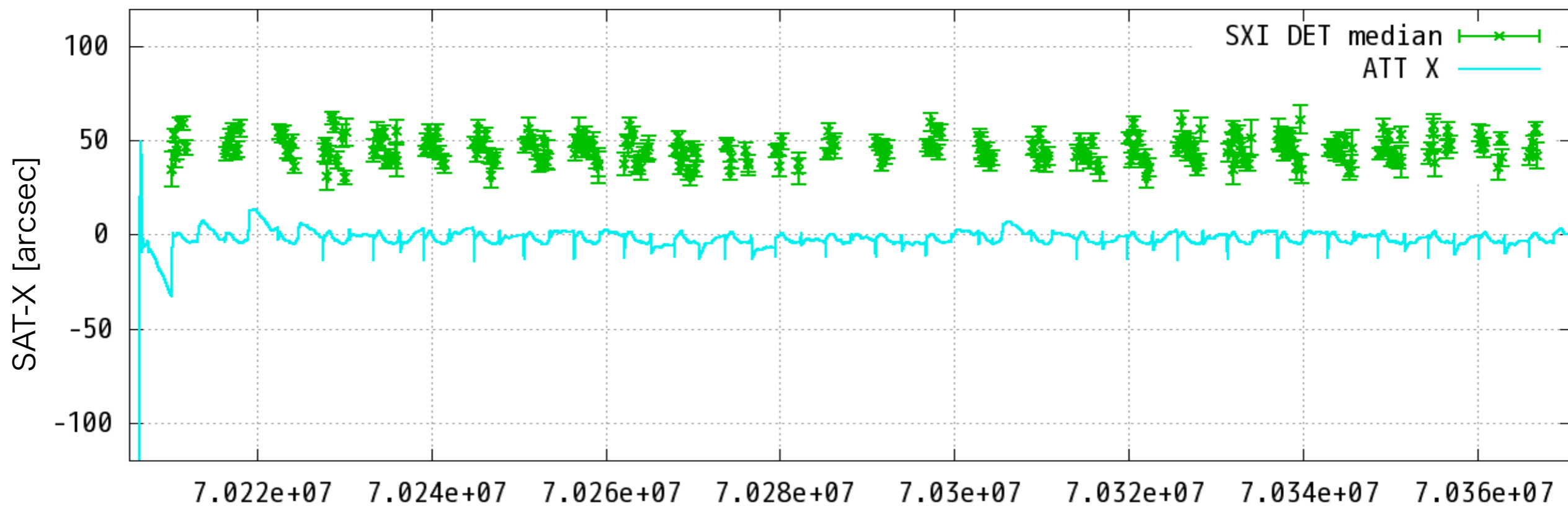
STT-ALL



100043050, 60

RXJ1856.5-3754 DET-X/DET-Y (unit: arcsec)

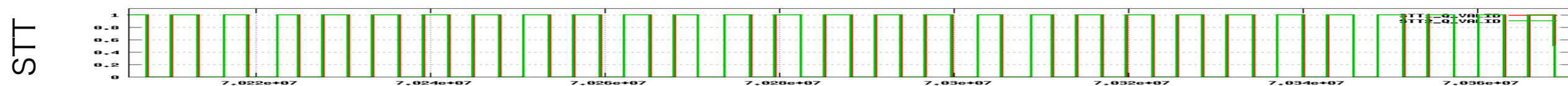
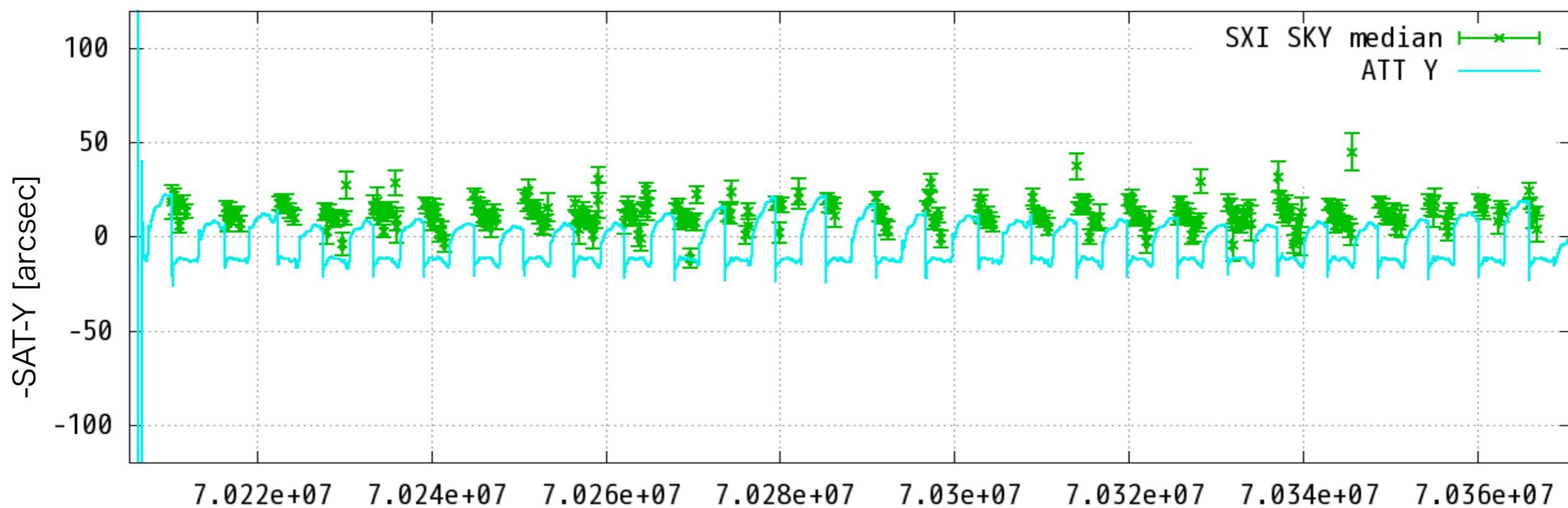
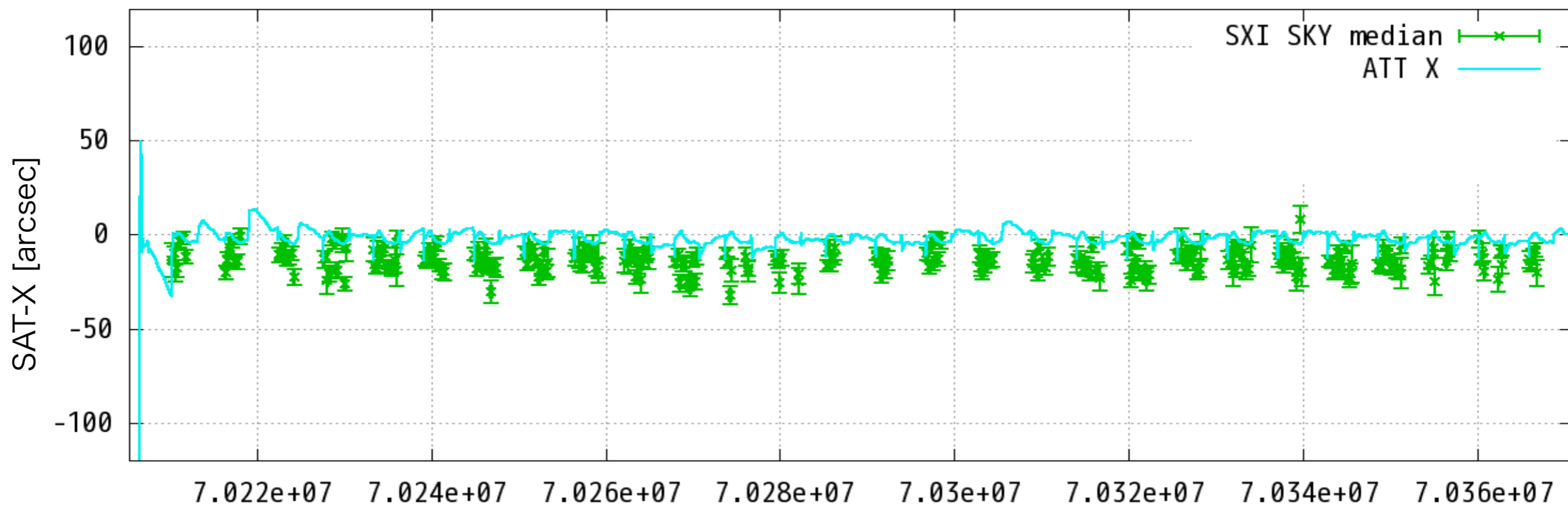
STT-CTL



100043050, 60

RXJ1856.5-3754 SKY-X/SKY-Y (unit: arcsec)

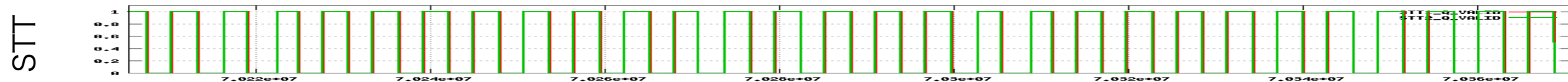
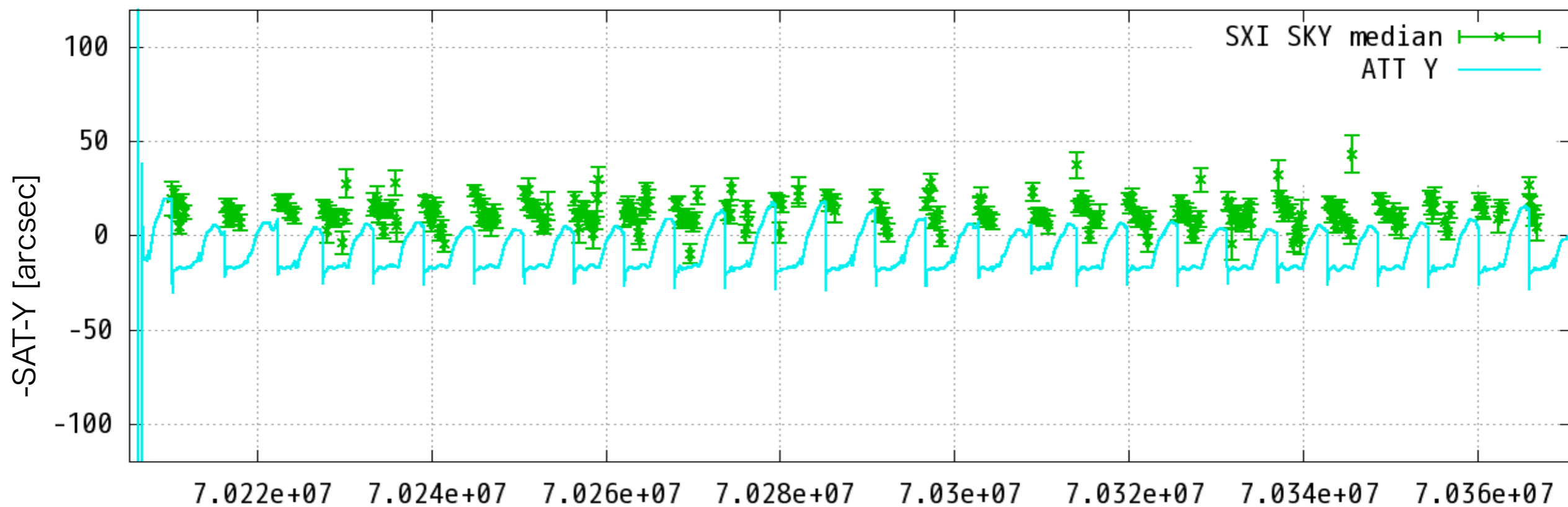
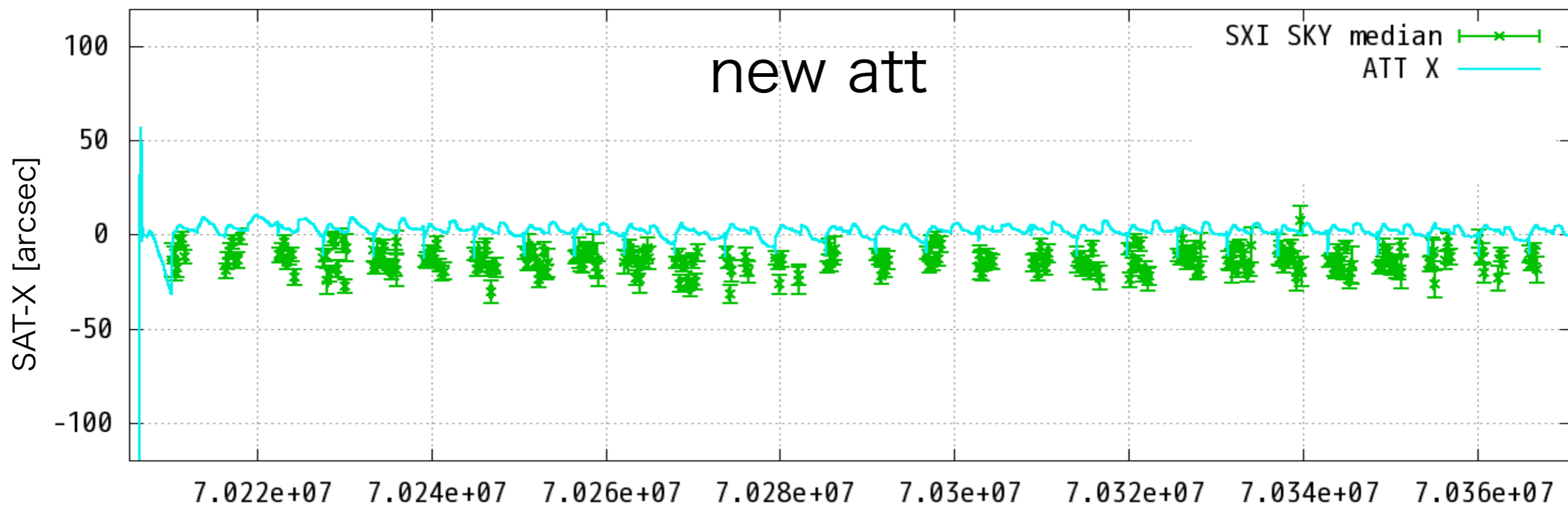
STT-CTL



100043050, 60

RXJ1856.5-3754 SKY-X/SKY-Y (unit: arcsec)

STT-CTL

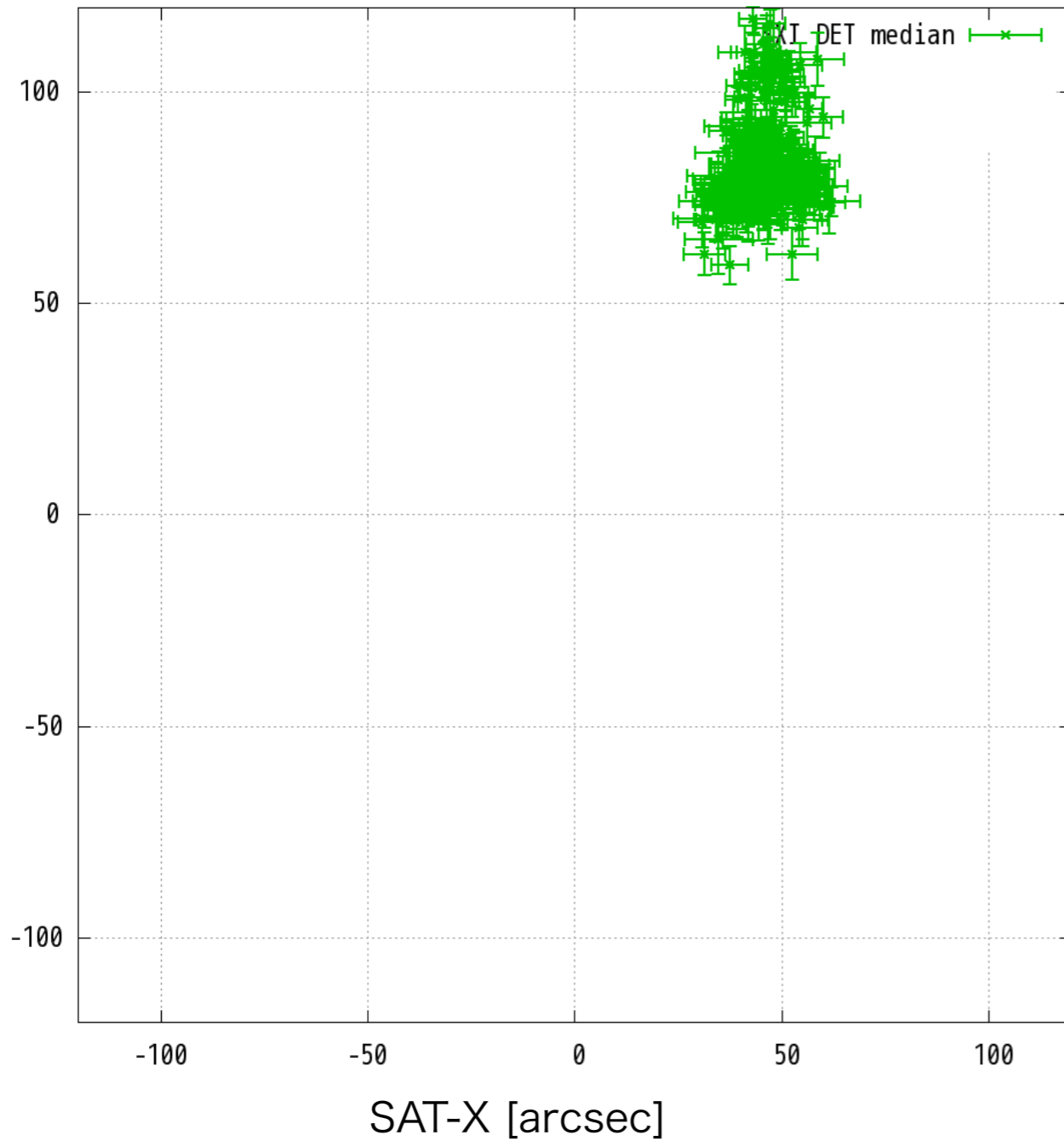


RXJ (STT-ALL)

seq: 100043050, 60

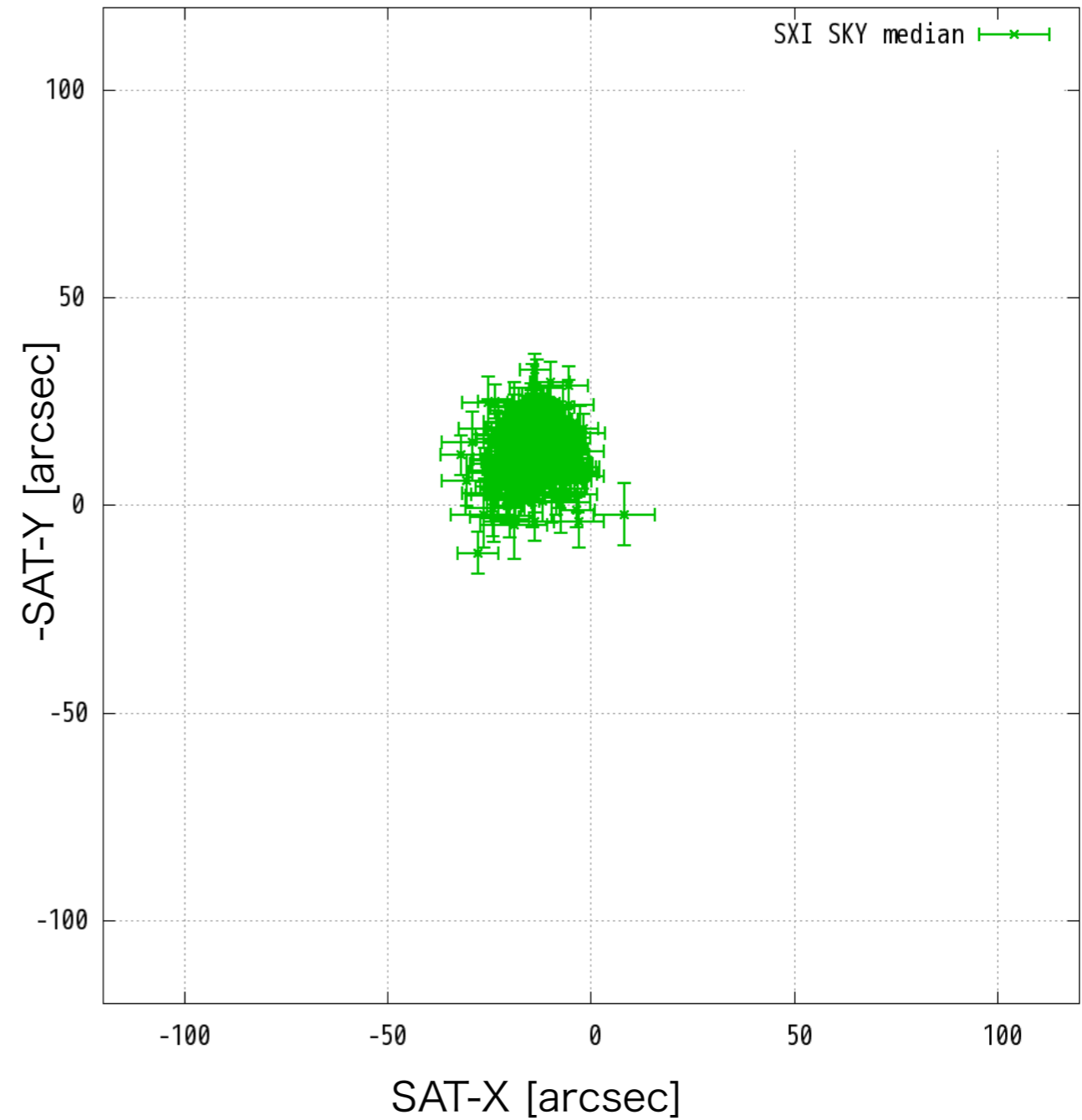
DET

RXJ1856.5-3754 DET-X/DET-Y (unit: arcsec)



SKY

RXJ1856.5-3754 SKY-X/SKY-Y (unit: arcsec)

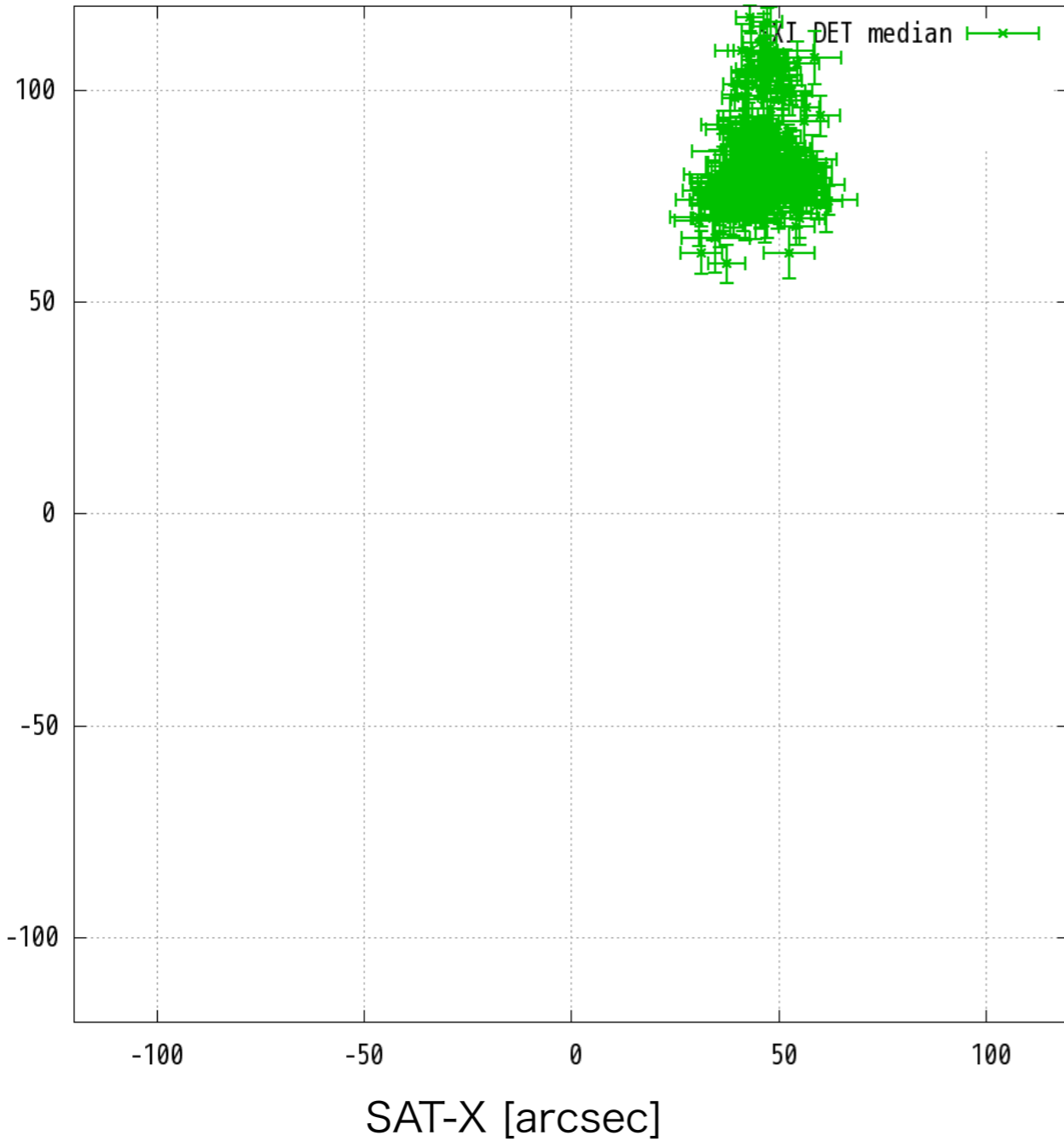


RXJ (STT-ALL)

seq: 100043050, 60

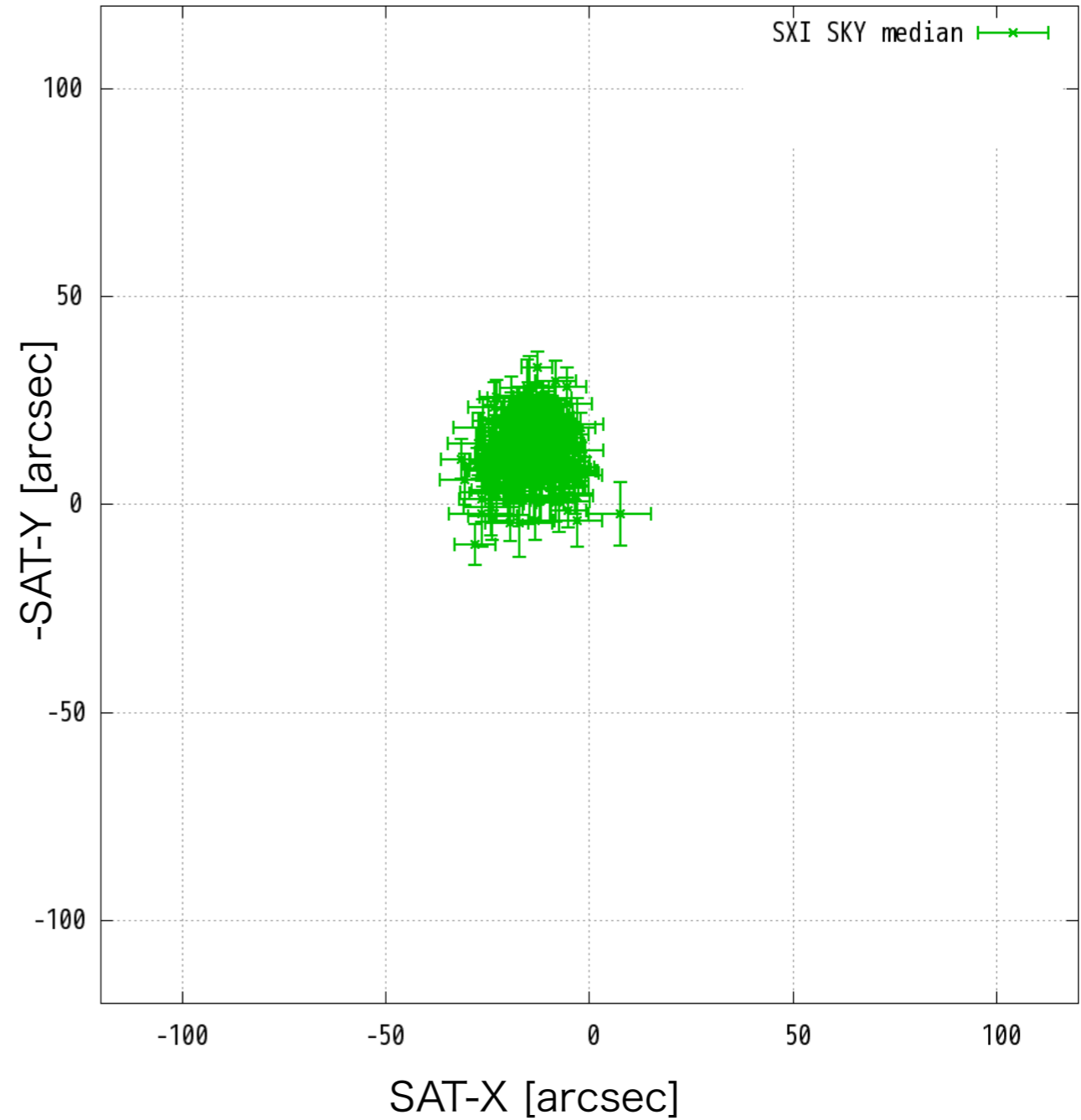
DET

RXJ1856.5-3754 DET-X/DET-Y (unit: arcsec)



SKY

RXJ1856.5-3754 SKY-X/SKY-Y (unit: arcsec)



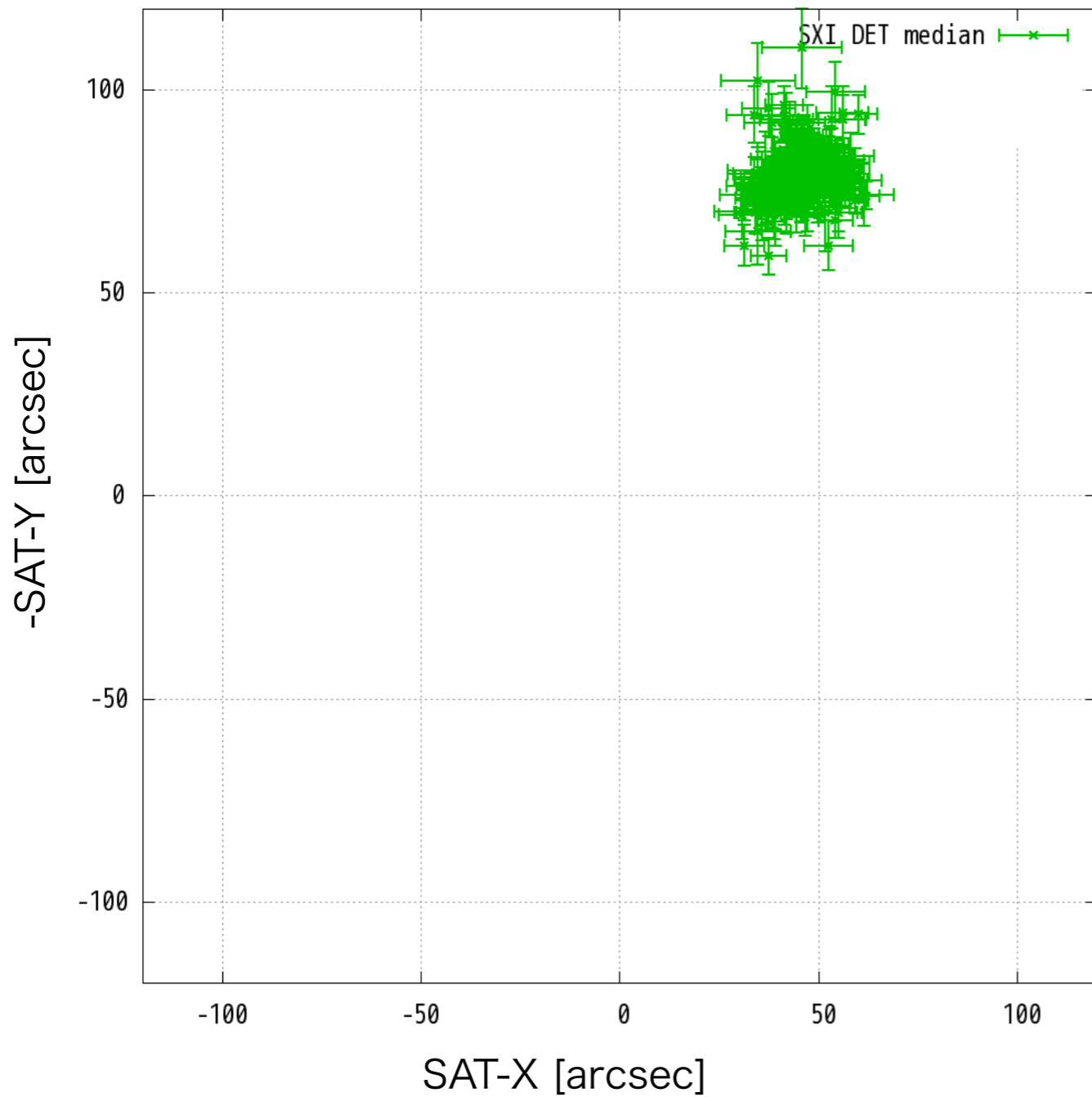
new att

RXJ (STT-CTL)

seq: 100043050, 60

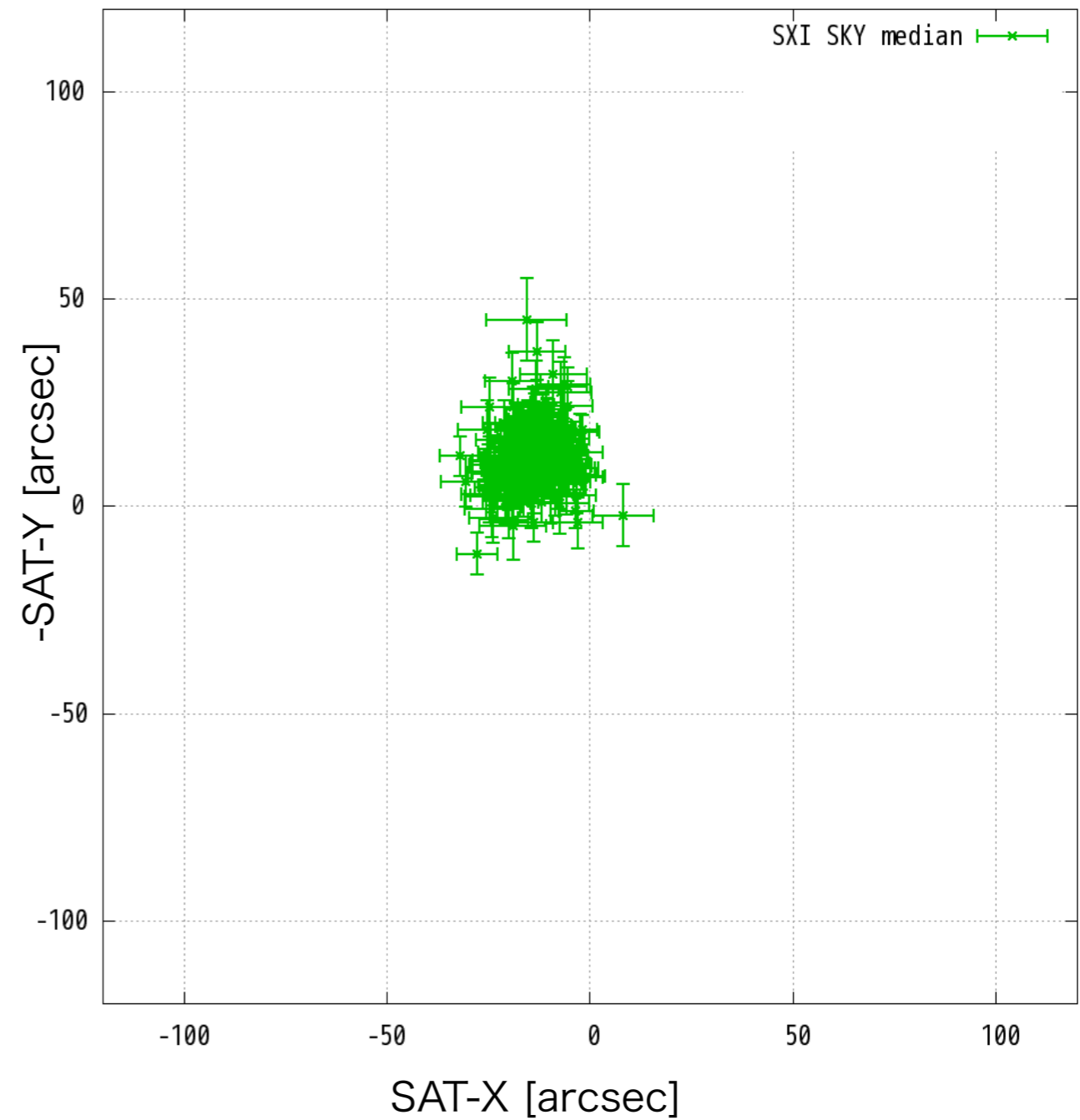
DET

RXJ1856.5-3754 DET-X/DET-Y (unit: arcsec)



SKY

RXJ1856.5-3754 SKY-X/SKY-Y (unit: arcsec)

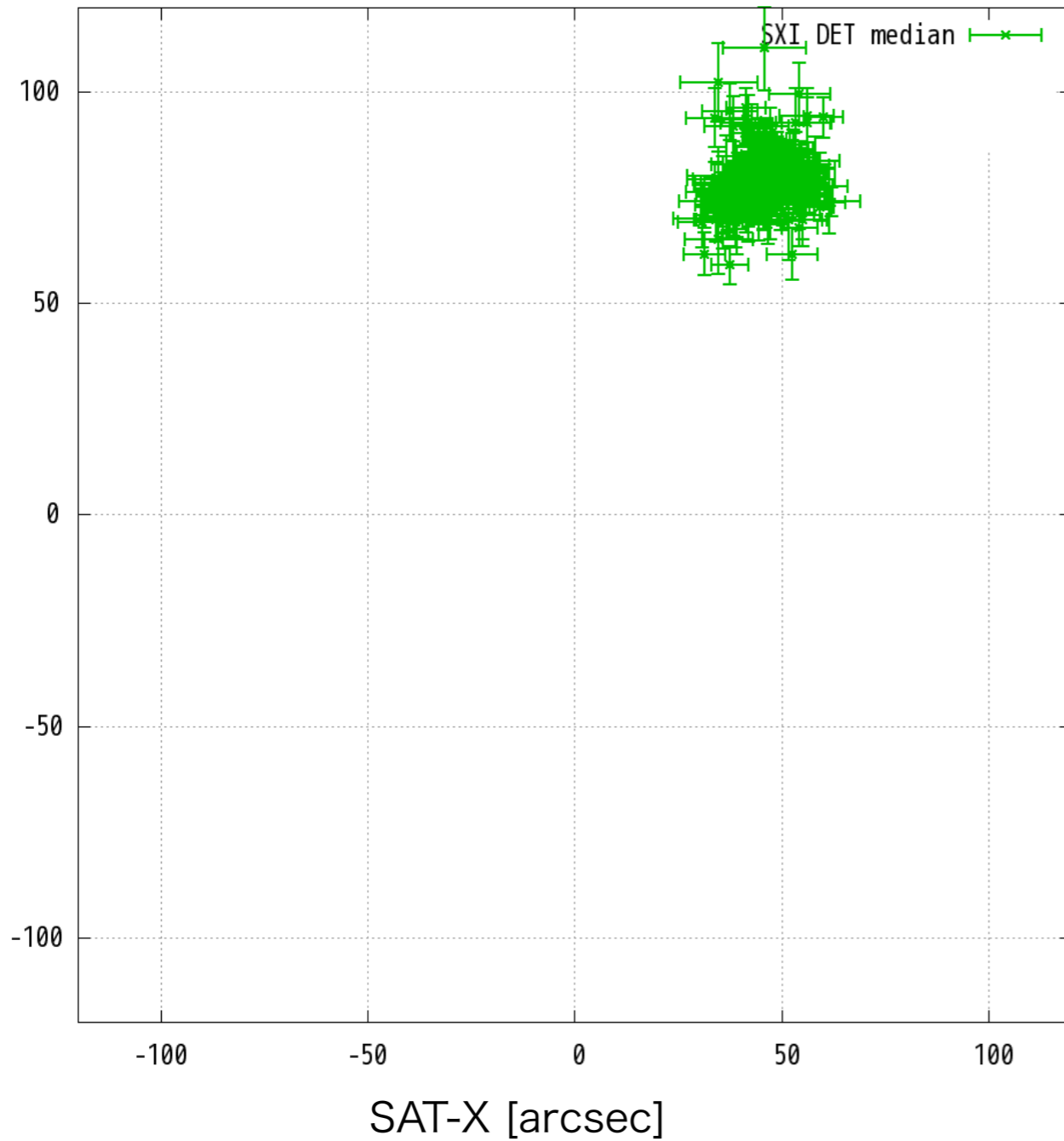


RXJ (STT-CTL)

seq: 100043050, 60

DET

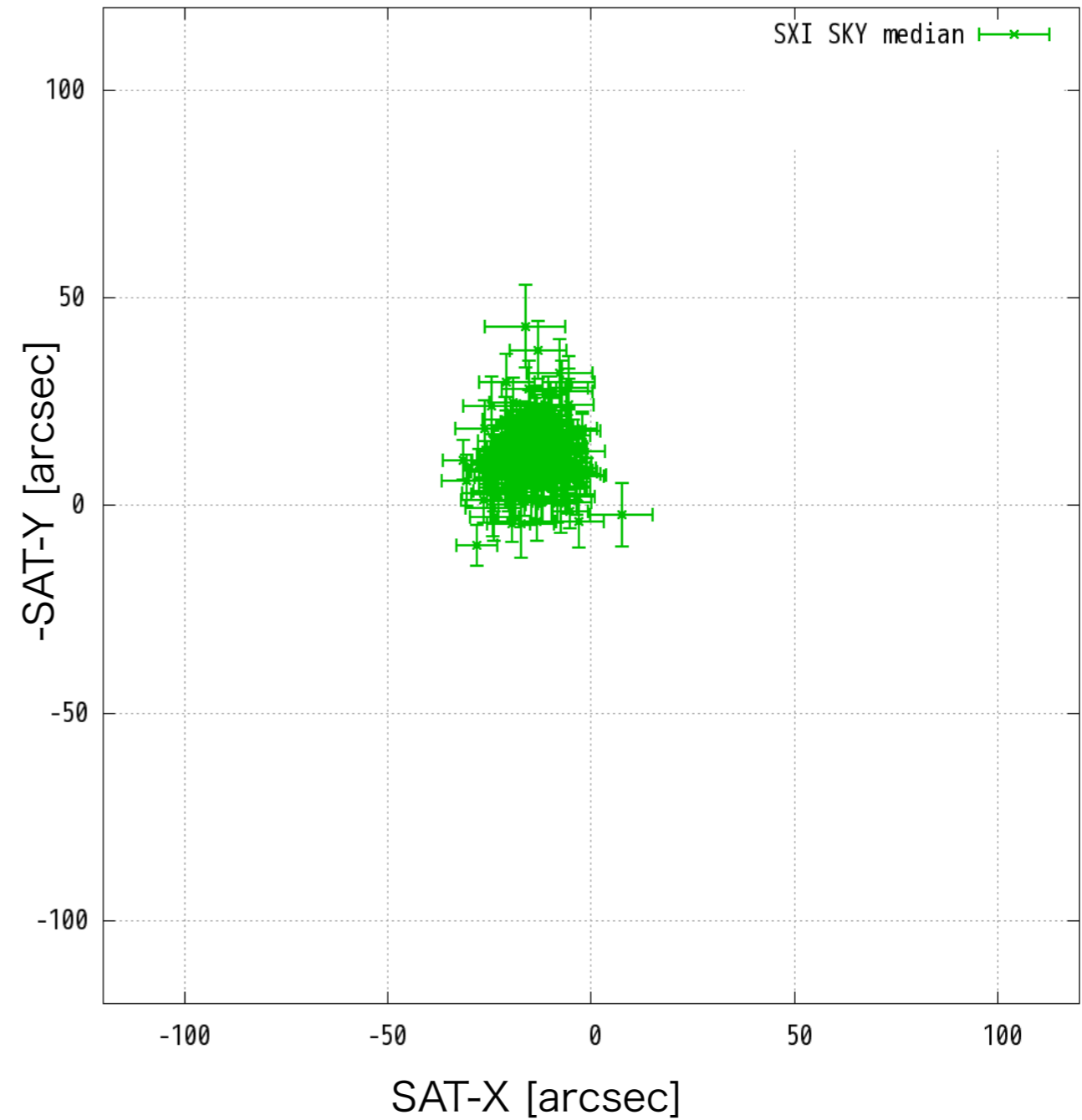
RXJ1856.5-3754 DET-X/DET-Y (unit: arcsec)



SKY

new att

RXJ1856.5-3754 SKY-X/SKY-Y (unit: arcsec)



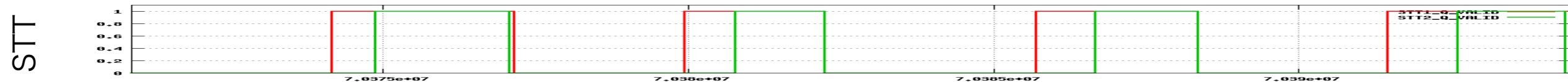
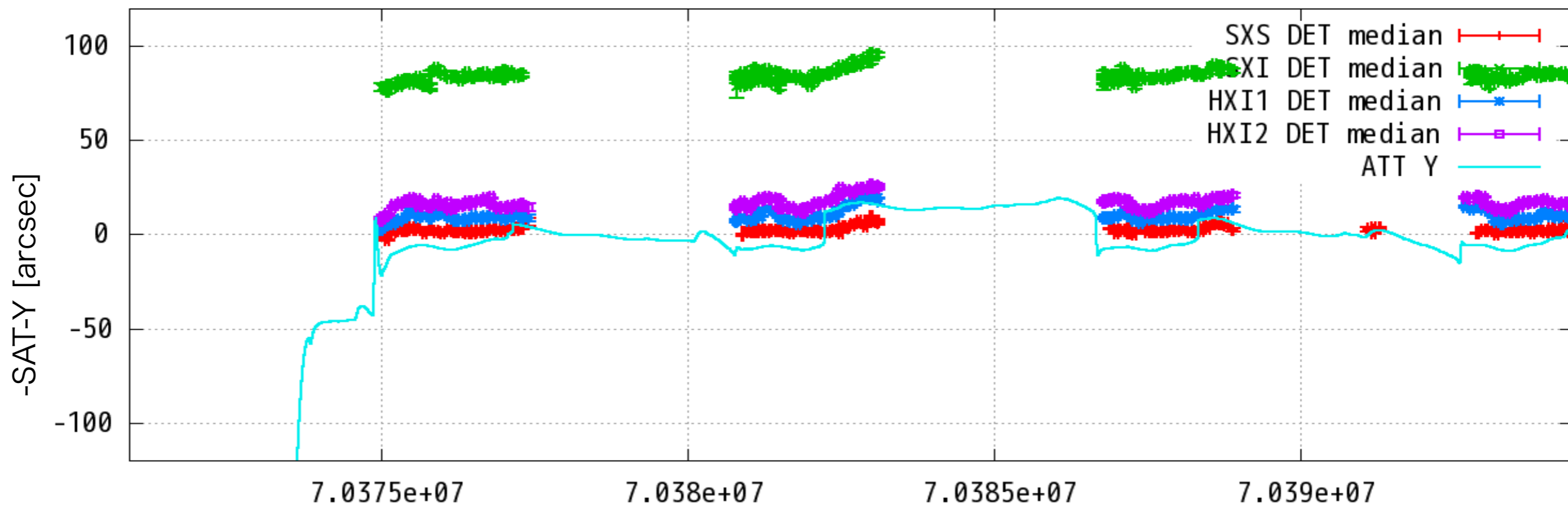
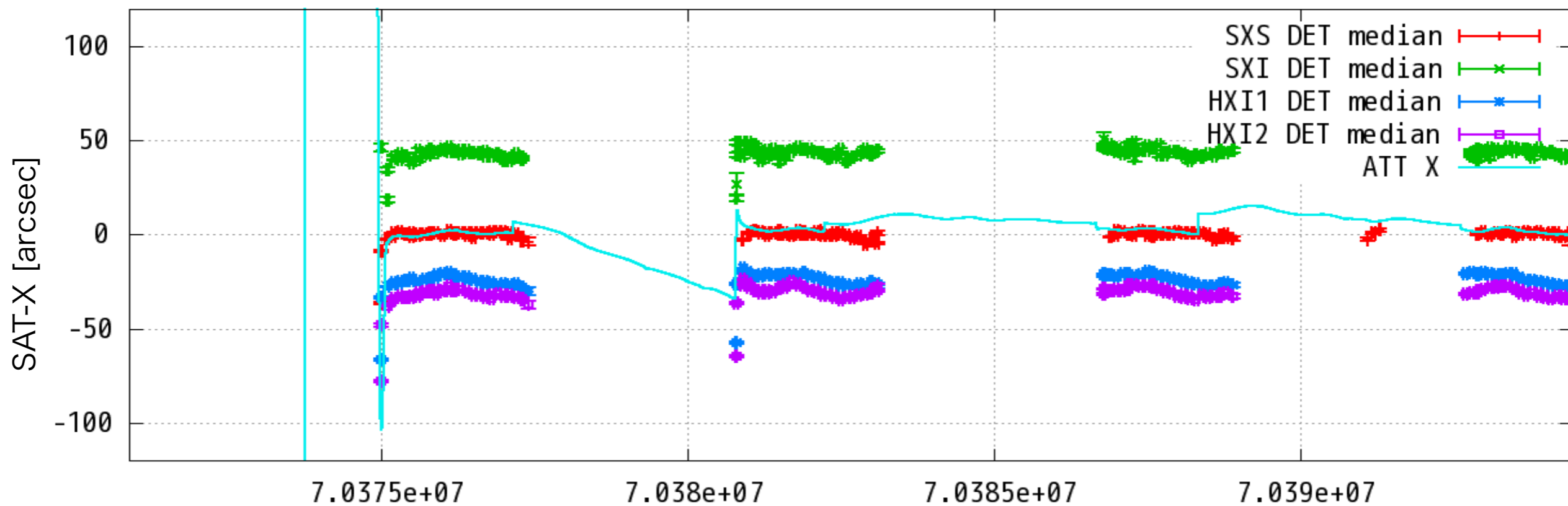
Crab

100044010

100044010

Crab DET-X/DET-Y (unit: arcsec)

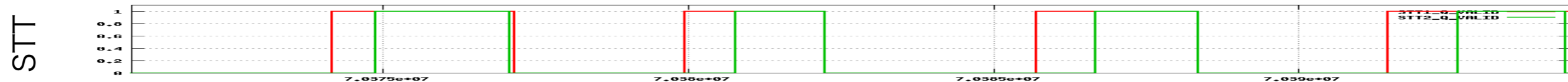
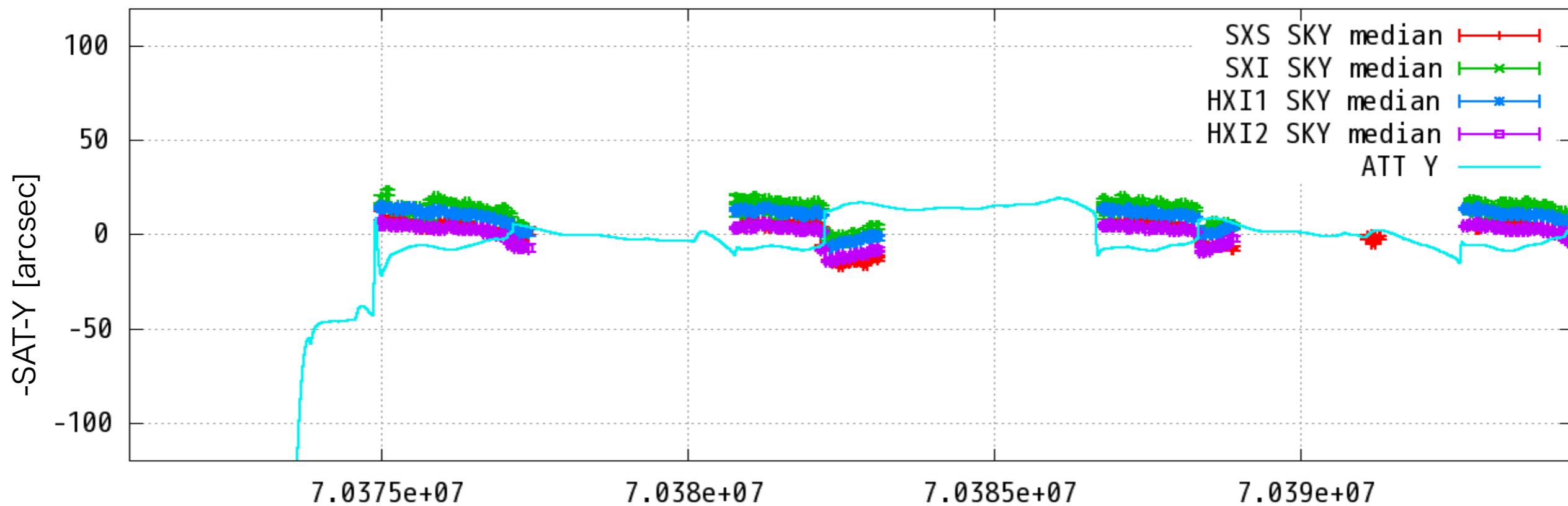
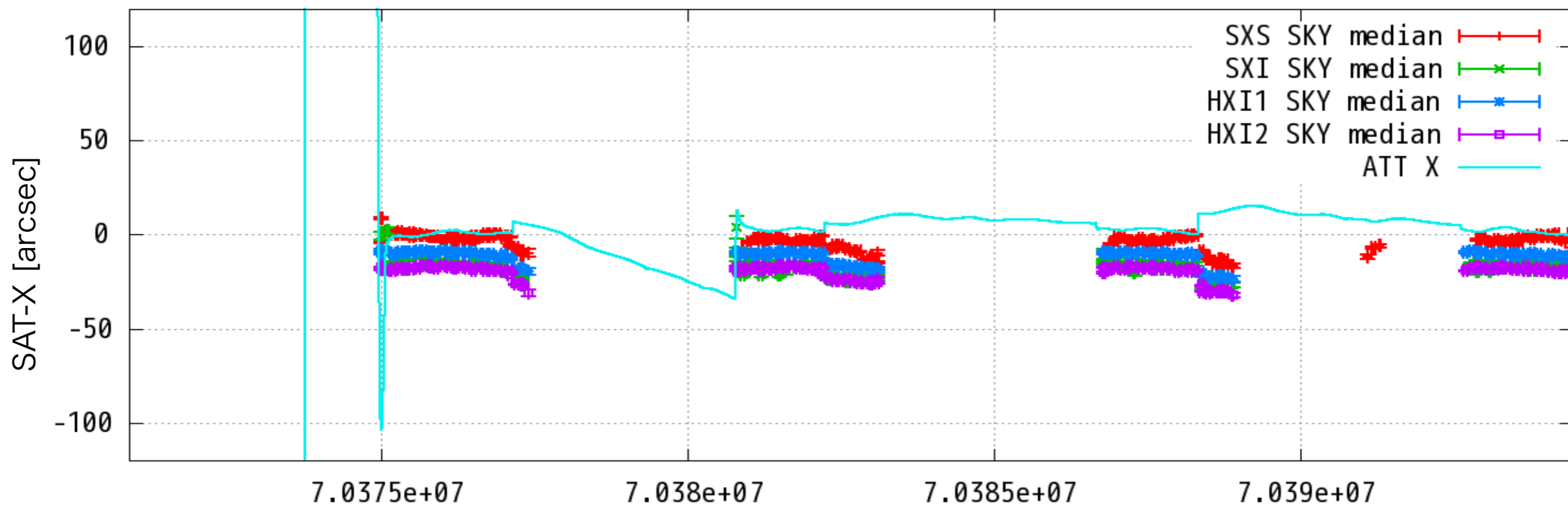
STT-ALL



100044010

Crab SKY-X/SKY-Y (unit: arcsec)

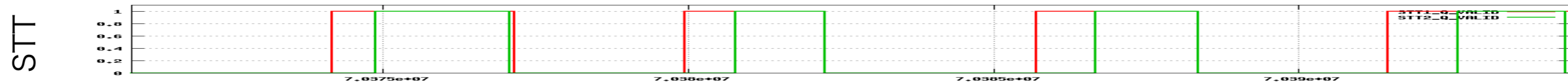
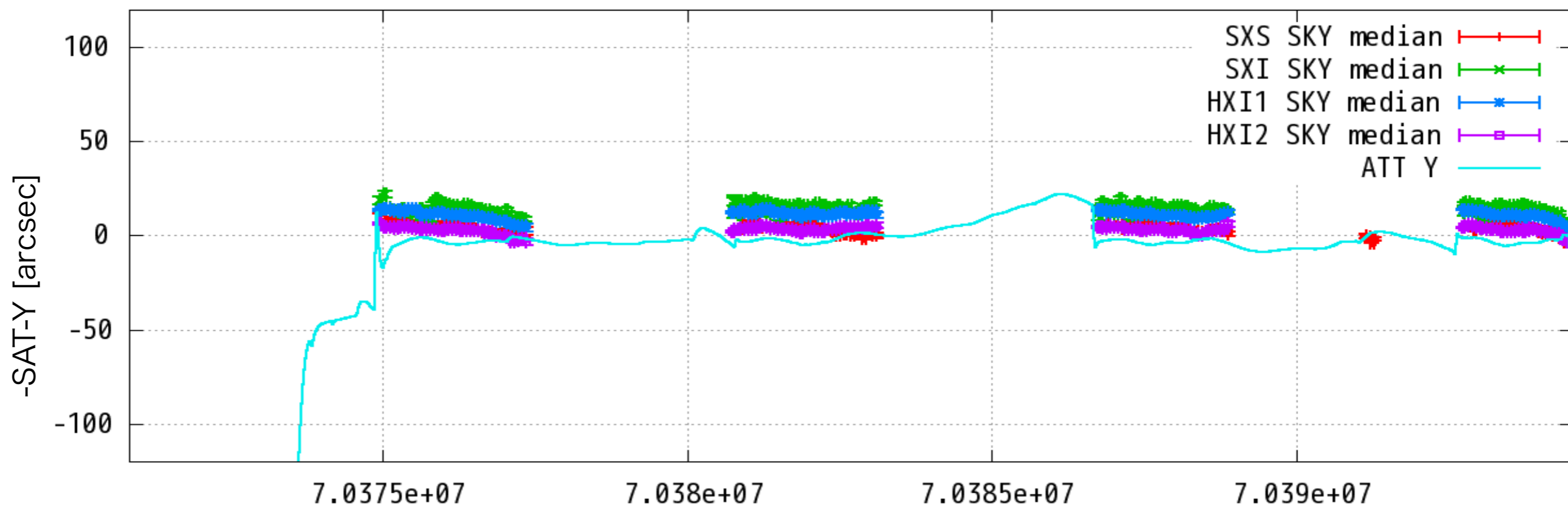
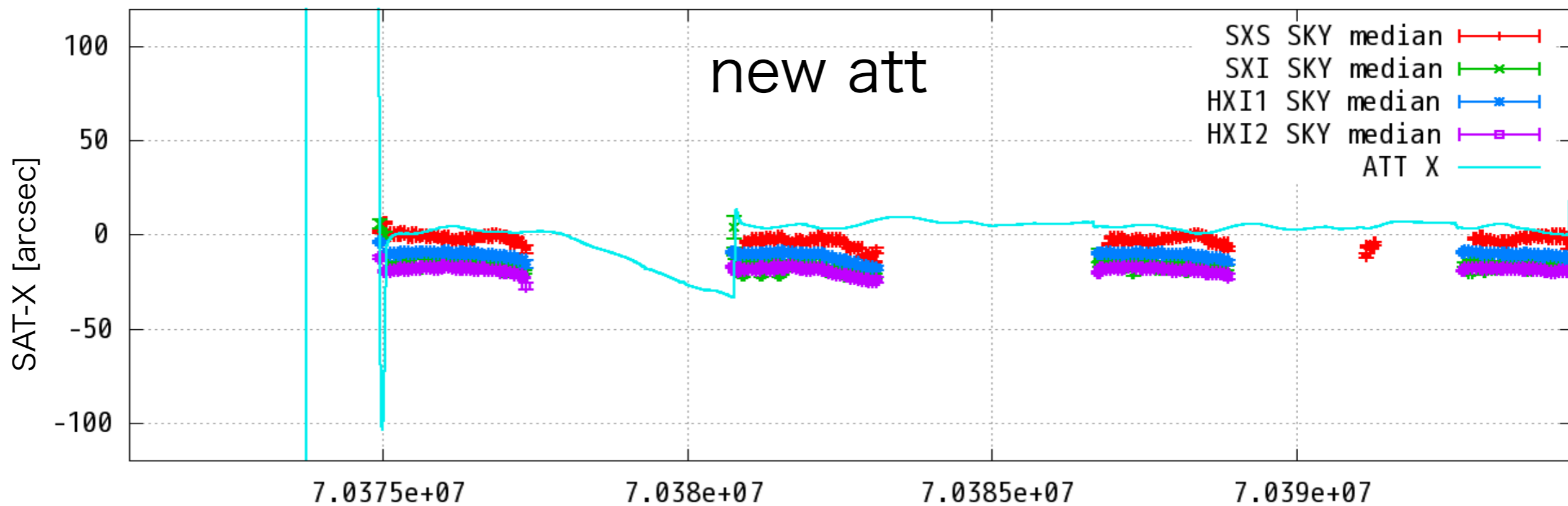
STT-ALL



100044010

Crab SKY-X/SKY-Y (unit: arcsec)

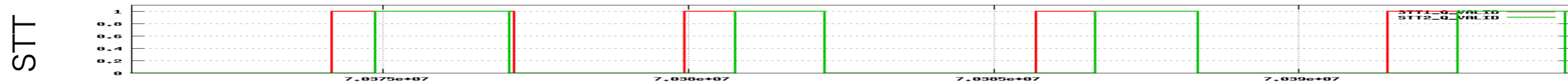
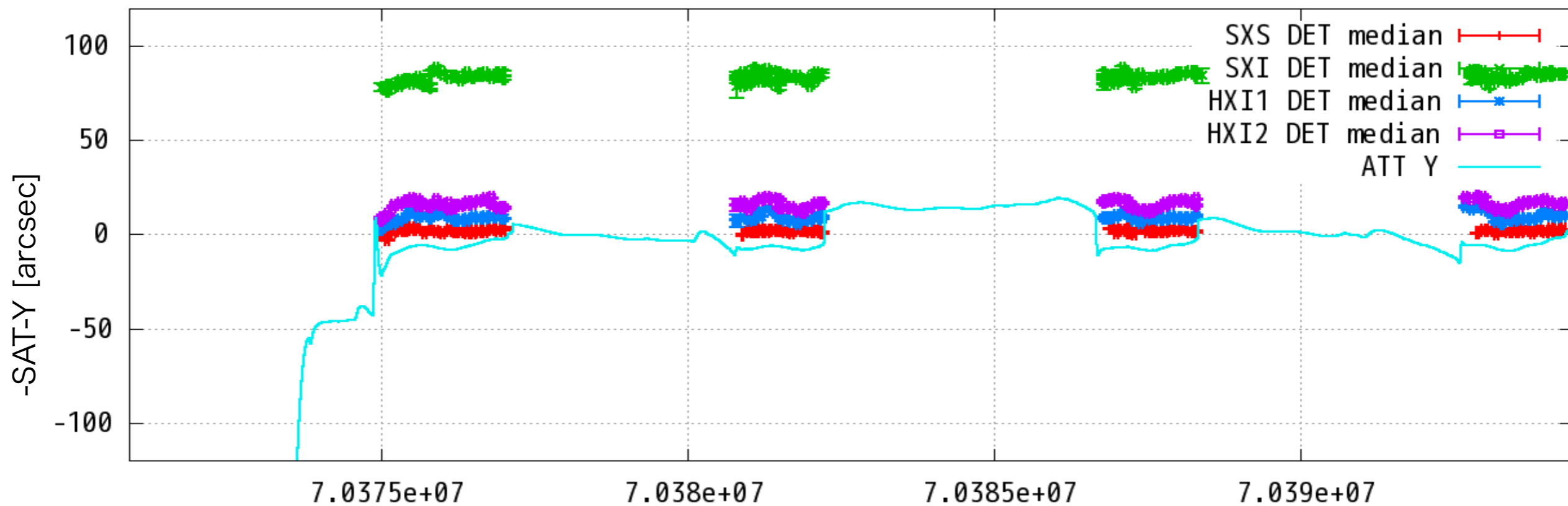
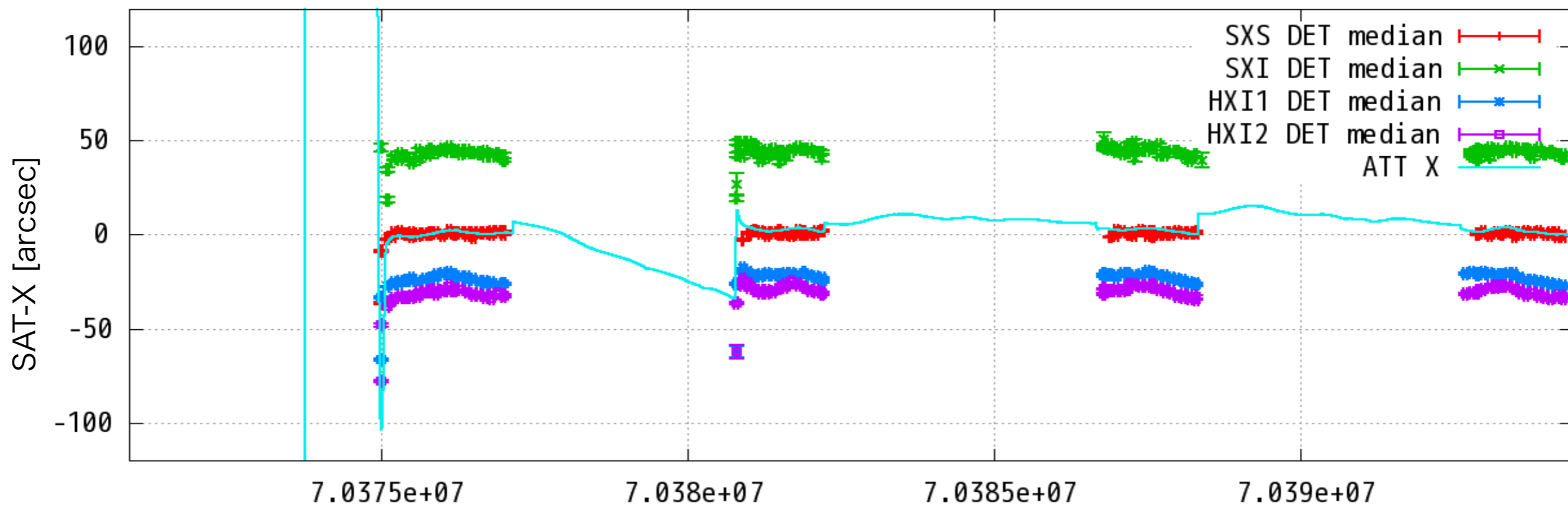
STT-ALL



100044010

Crab DET-X/DET-Y (unit: arcsec)

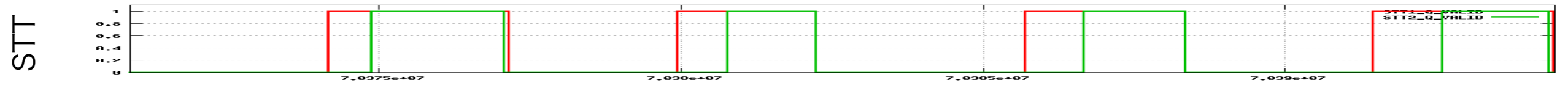
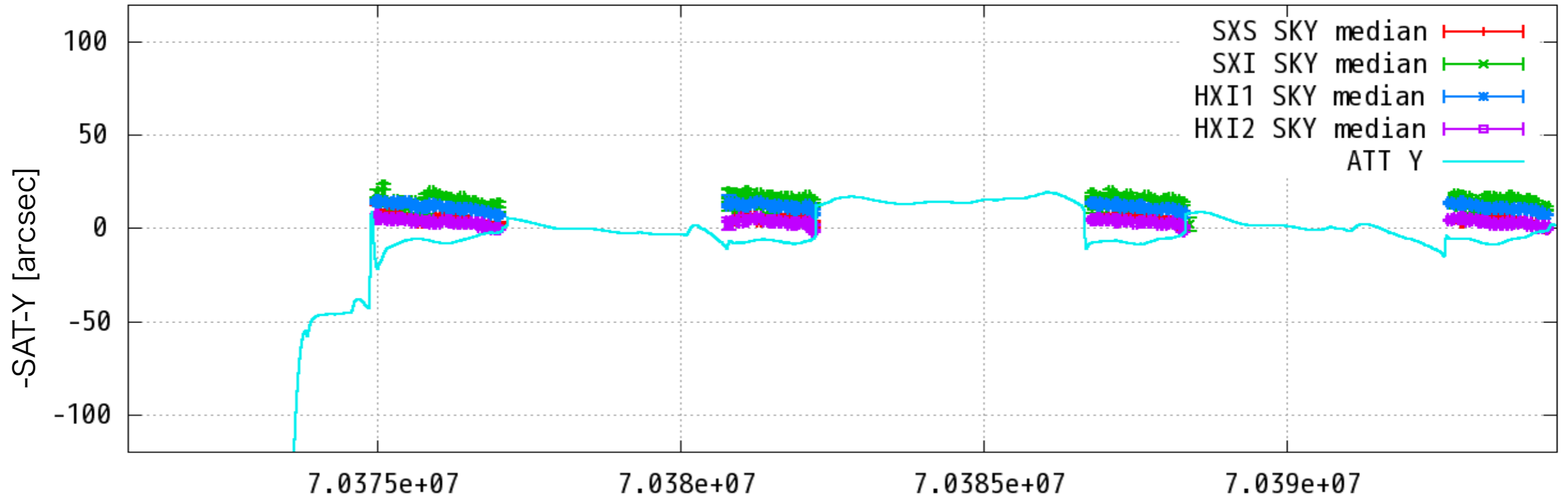
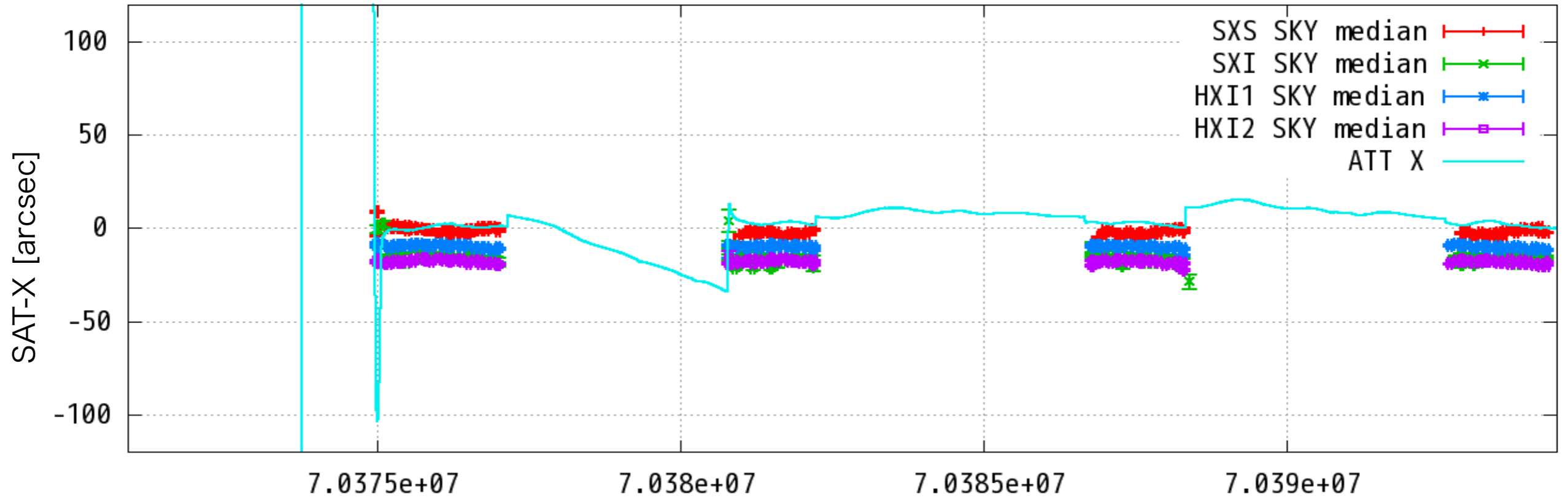
STT-CTL



100044010

Crab SKY-X/SKY-Y (unit: arcsec)

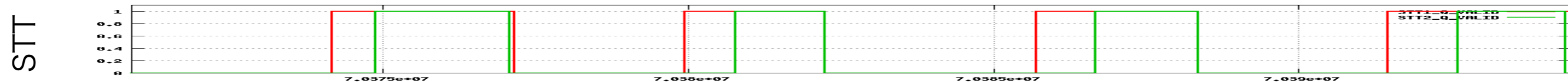
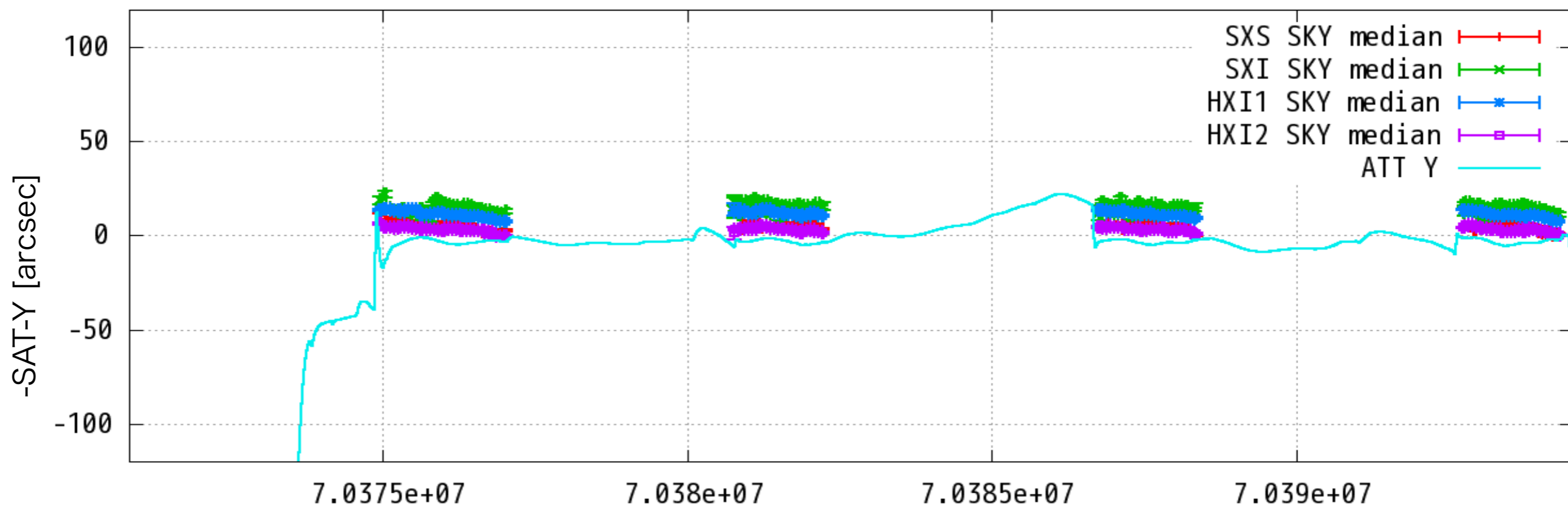
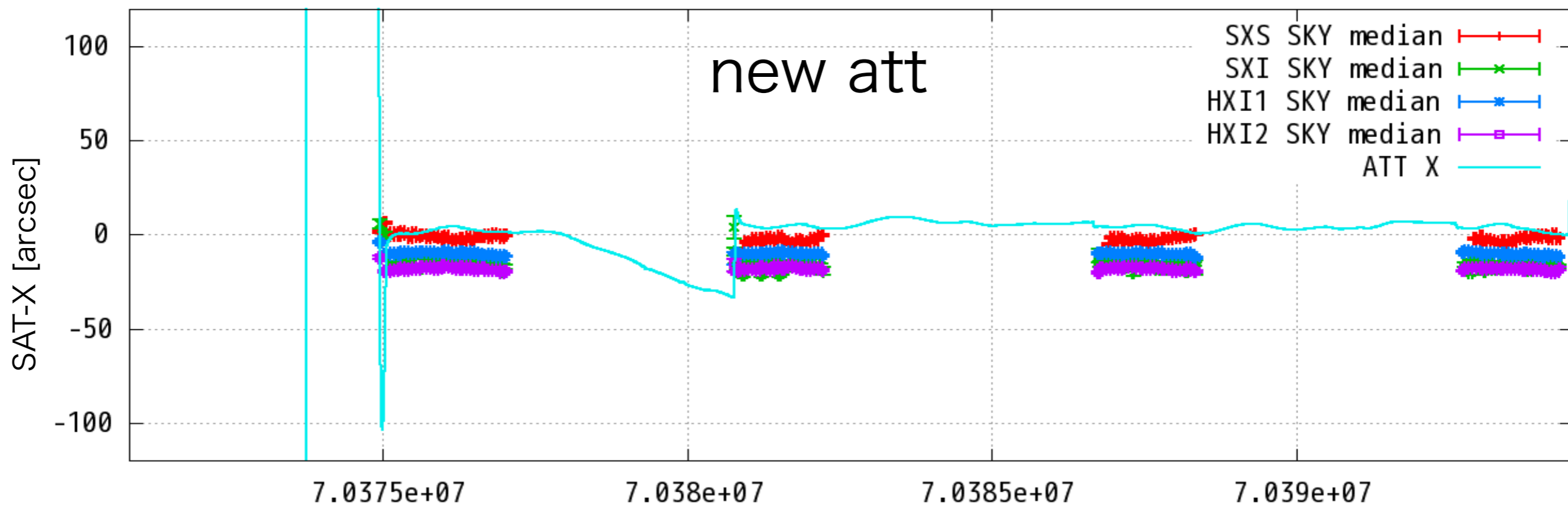
STT-CTL



100044010

Crab SKY-X/SKY-Y (unit: arcsec)

STT-CTL

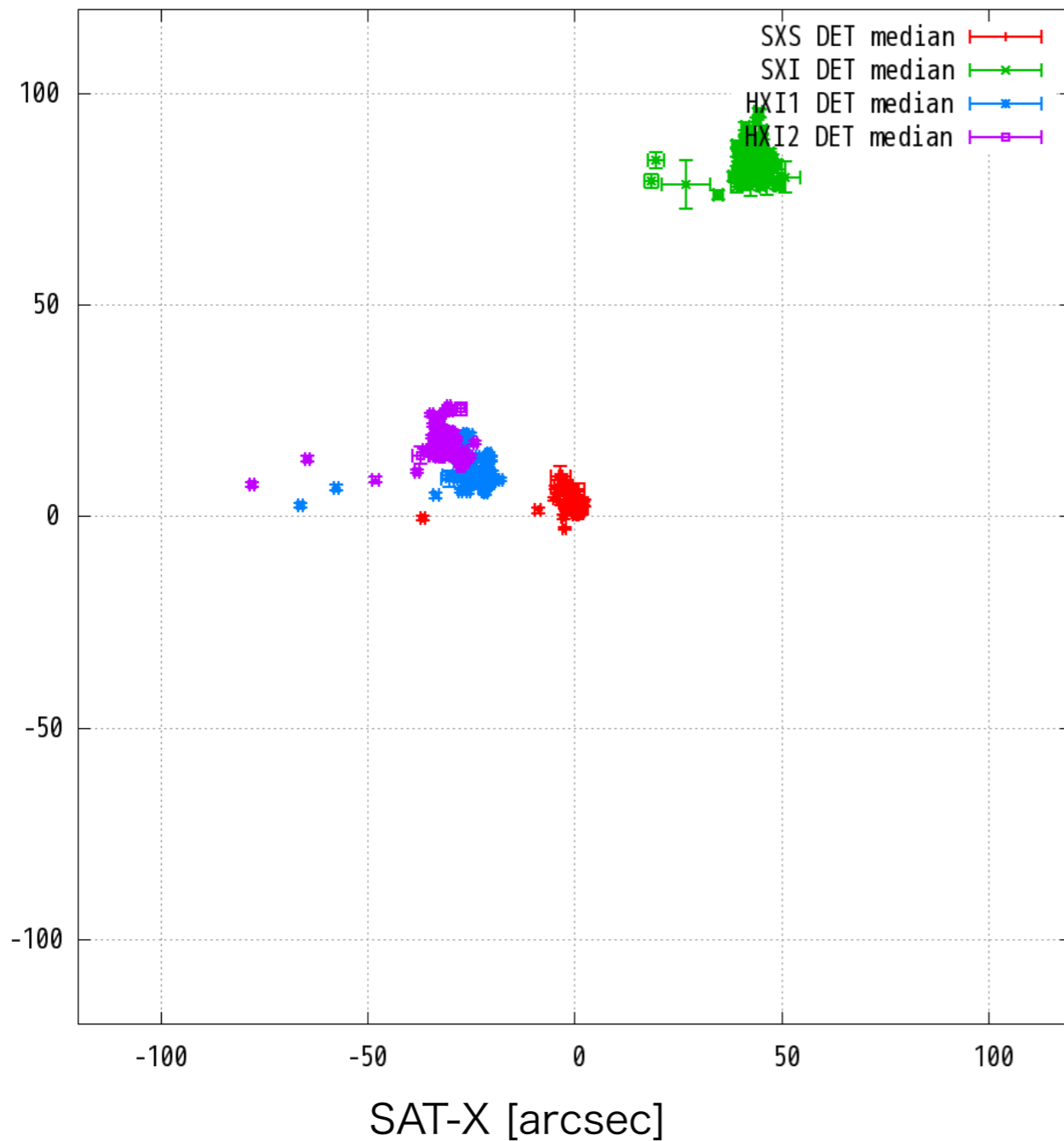


Crab (STT-ALL)

seq: 100044010

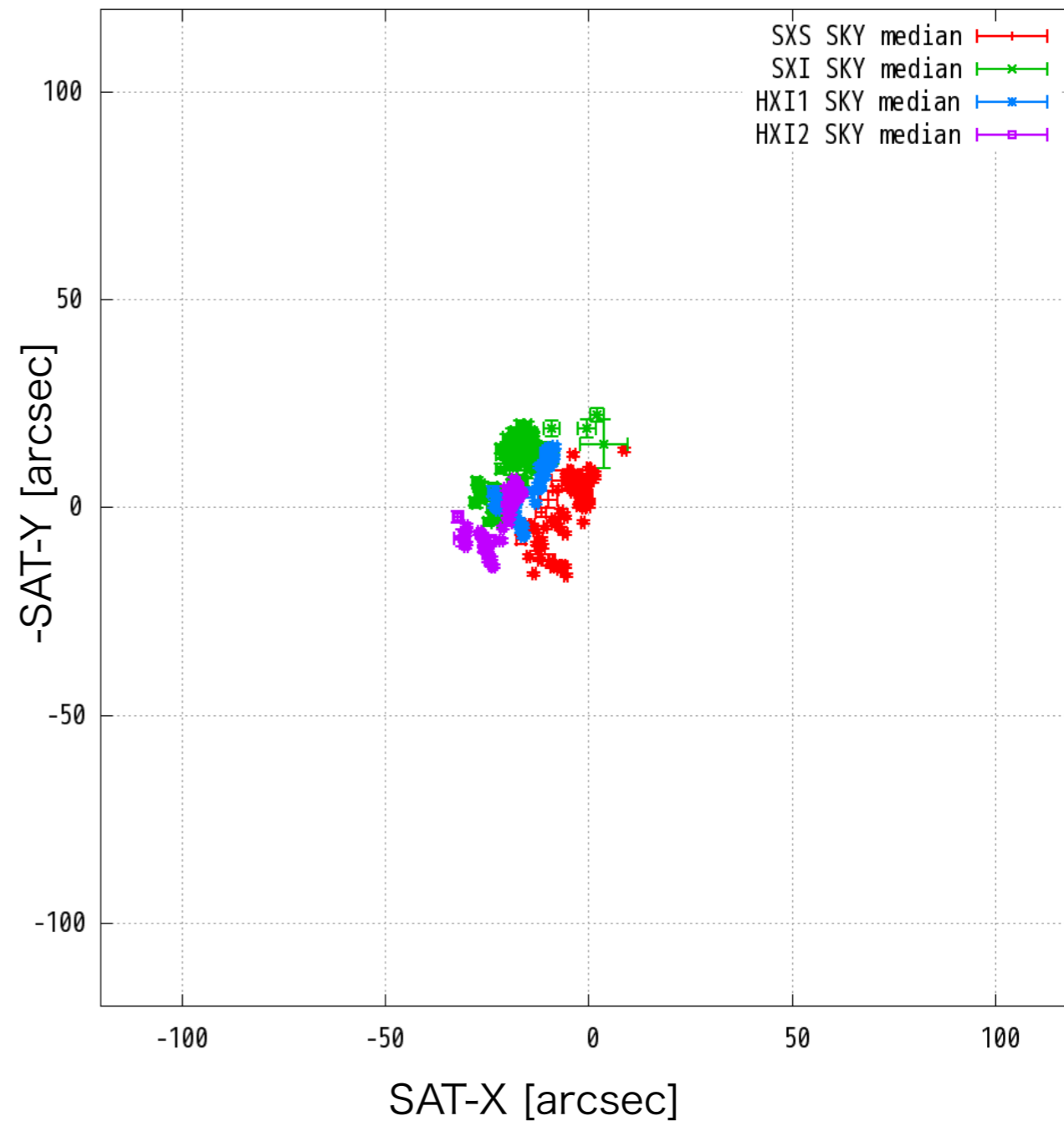
DET

Crab DET-X/DET-Y (unit: arcsec)



SKY

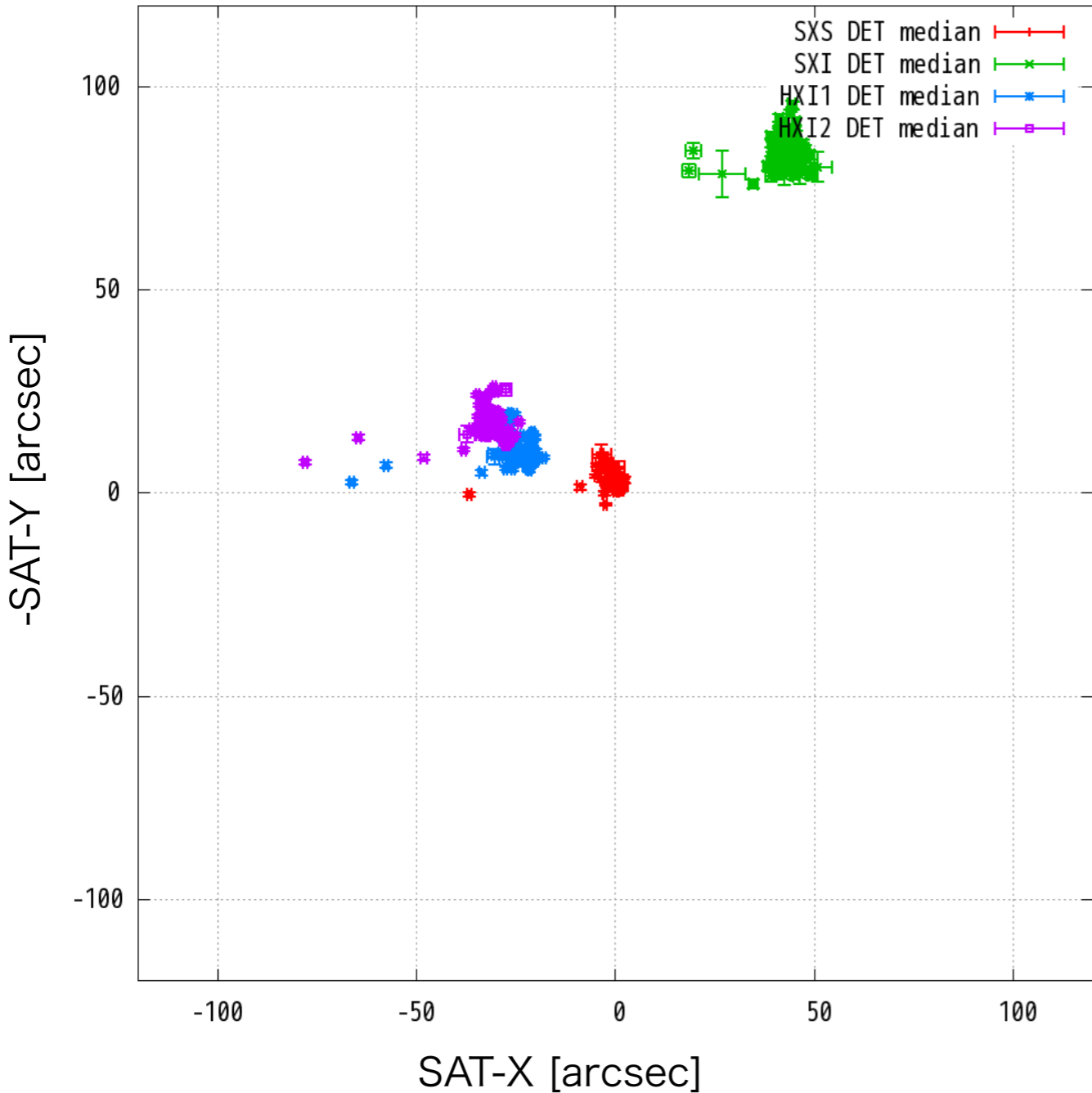
Crab SKY-X/SKY-Y (unit: arcsec)



Crab (STT-ALL) seq: 100044010

DET

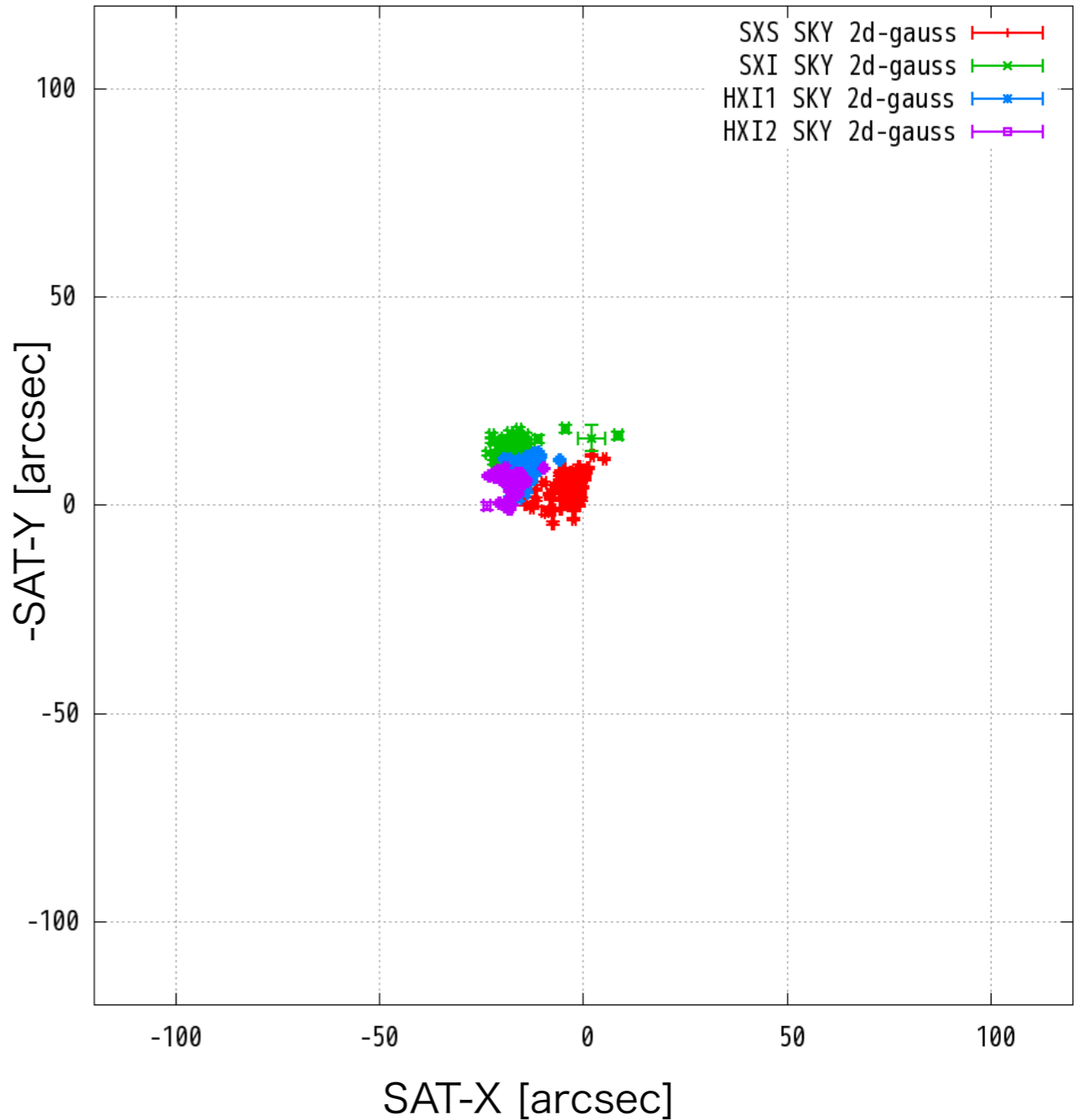
Crab DET-X/DET-Y (unit: arcsec)



SKY

new att

Crab SKY-X/SKY-Y (unit: arcsec)

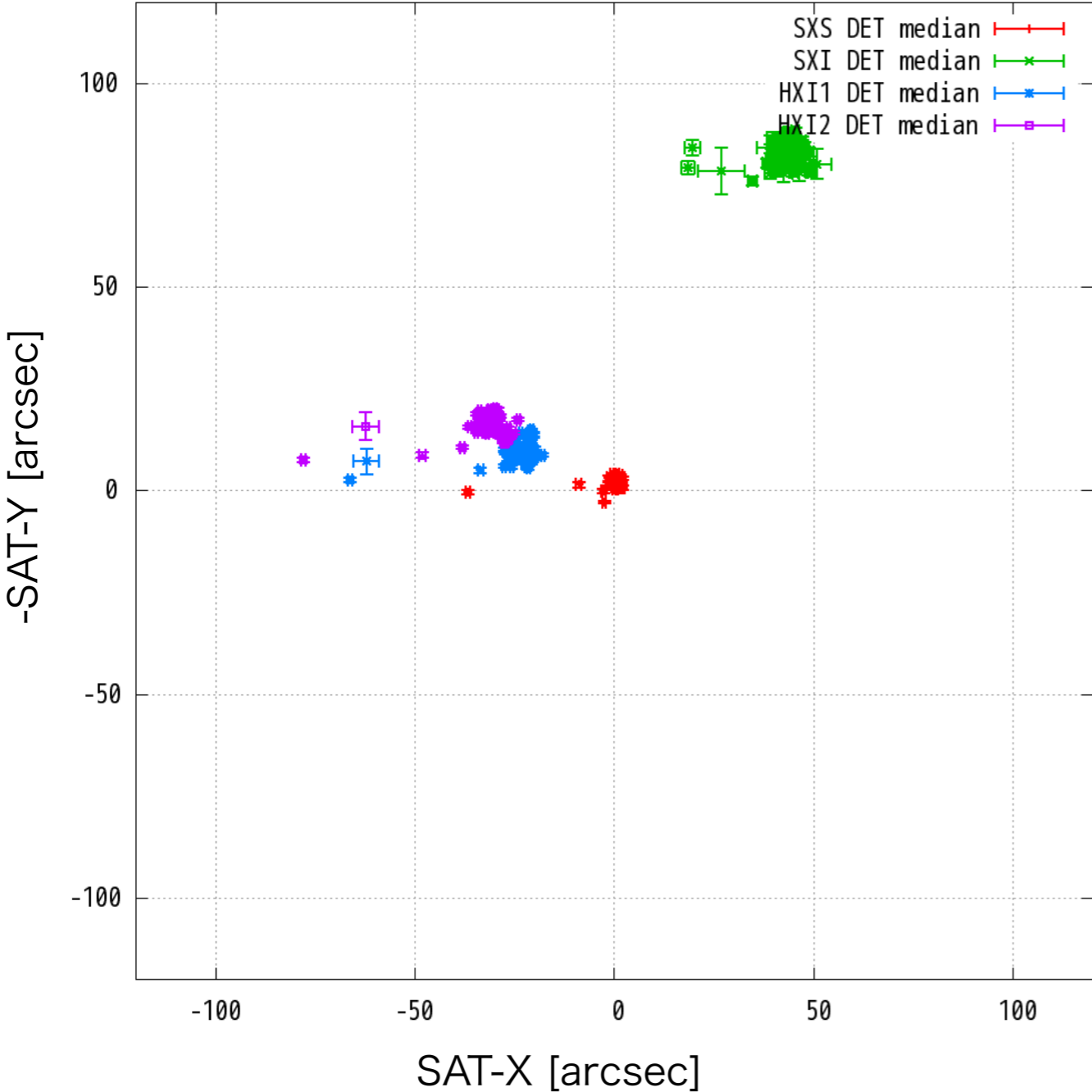


Crab (STT-CTL)

seq: 100044010

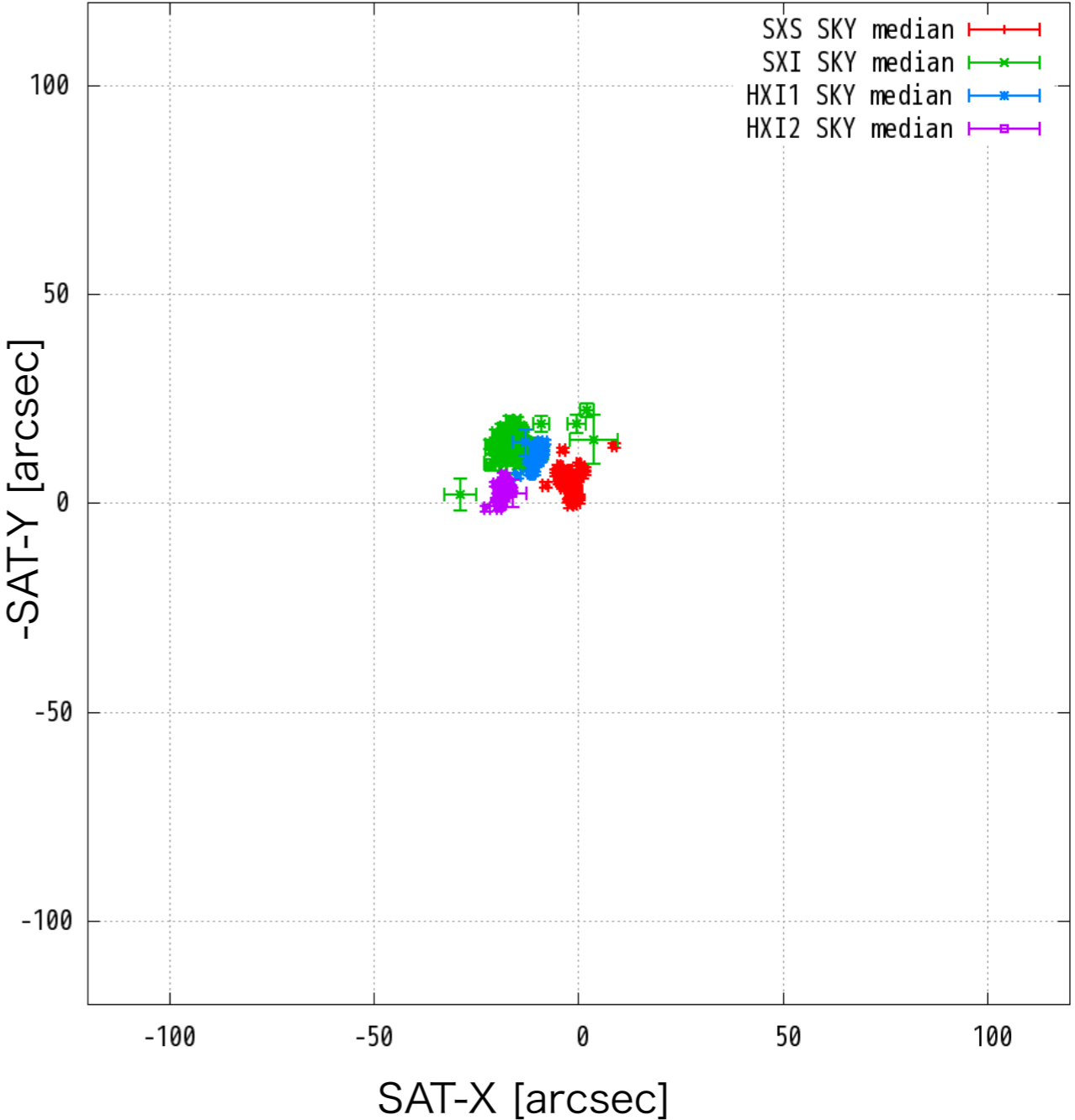
DET

Crab DET-X/DET-Y (unit: arcsec)



SKY

Crab SKY-X/SKY-Y (unit: arcsec)

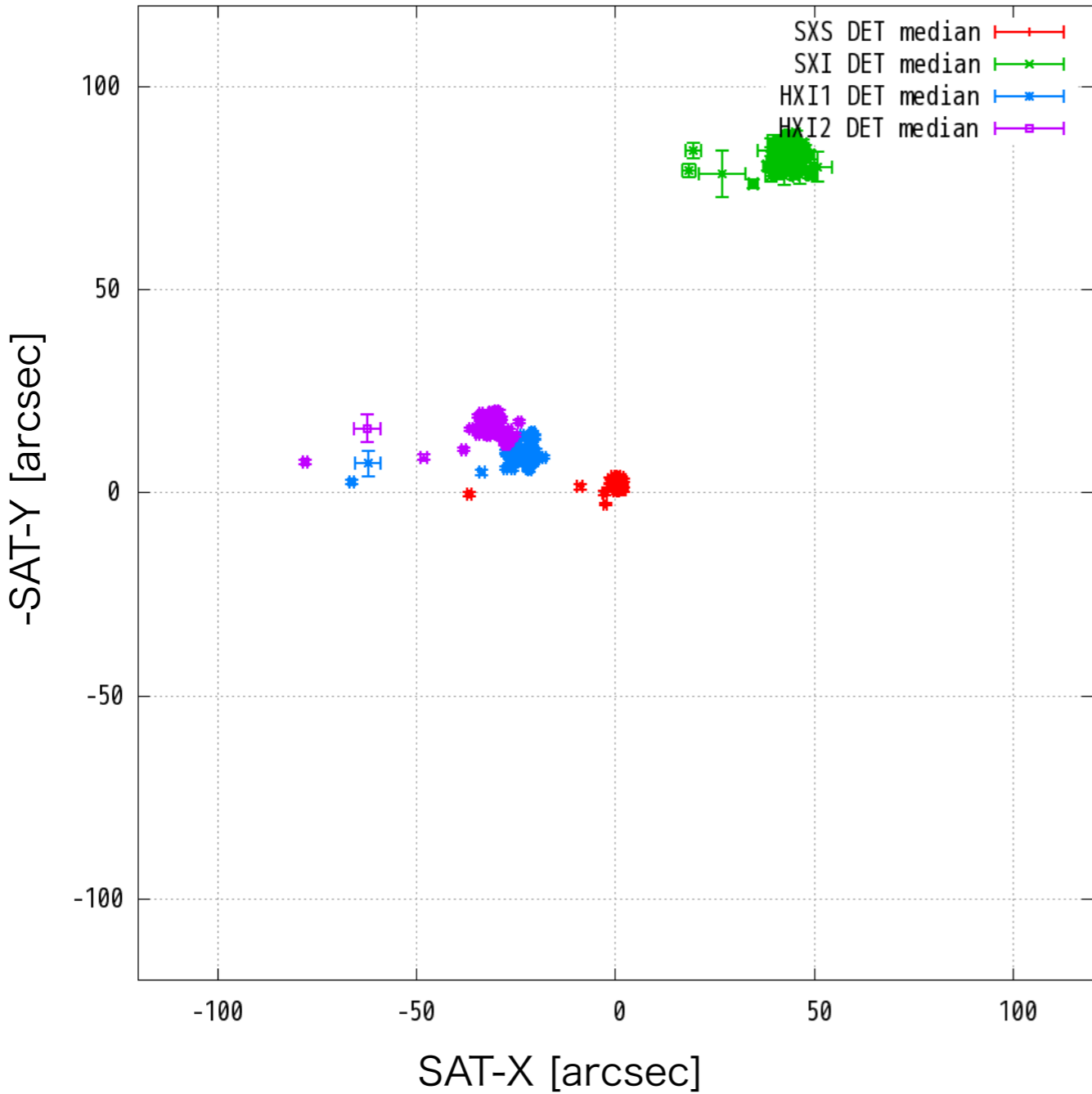


Crab (STT-CTL)

seq: 100044010

DET

Crab DET-X/DET-Y (unit: arcsec)



SKY

new att

Crab SKY-X/SKY-Y (unit: arcsec)

