Calibration results
==========
Camera-system parameters:
cam0 (/cam0/image_raw):
type: <class 'aslam_cv.libaslam_cv_python.OmniCameraGeometry'>
distortion: [] +- []
projection: [1.73847739 769.52032991 771.82257017 316.17073003 201.519992] +- [0.00570577 1.70895799
1.70674043 0.29904641 0.27315331]
reprojection error: [0.000001, -0.000000] +- [0.131985, 0.119910]

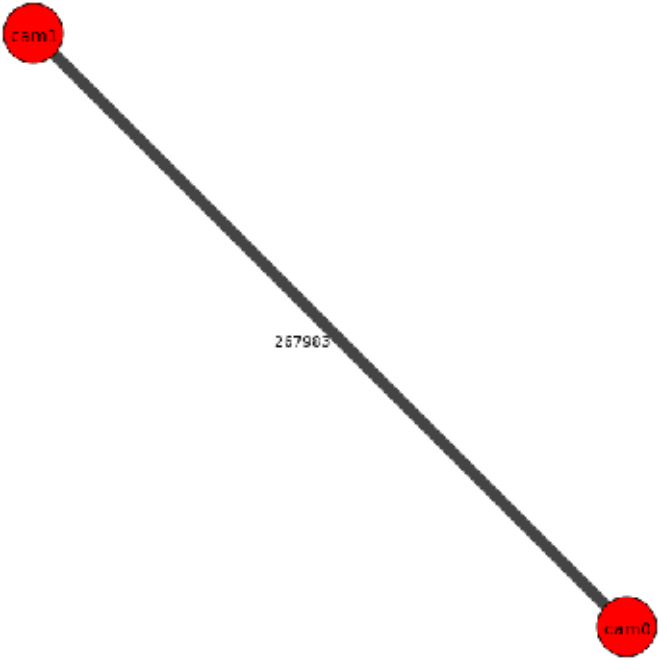
cam1 (/cam1/image_raw):
type: <class 'aslam_cv.libaslam_cv_python.OmniCameraGeometry'>
distortion: [] +- []
projection: [1.70397228 757.47026948 759.76455111 315.42066011 200.60578   ] +- [0.00489006 1.72506083
1.72439755 0.31266437 0.27333466]
reprojection error: [-0.000001, 0.000001] +- [0.142192, 0.116797]

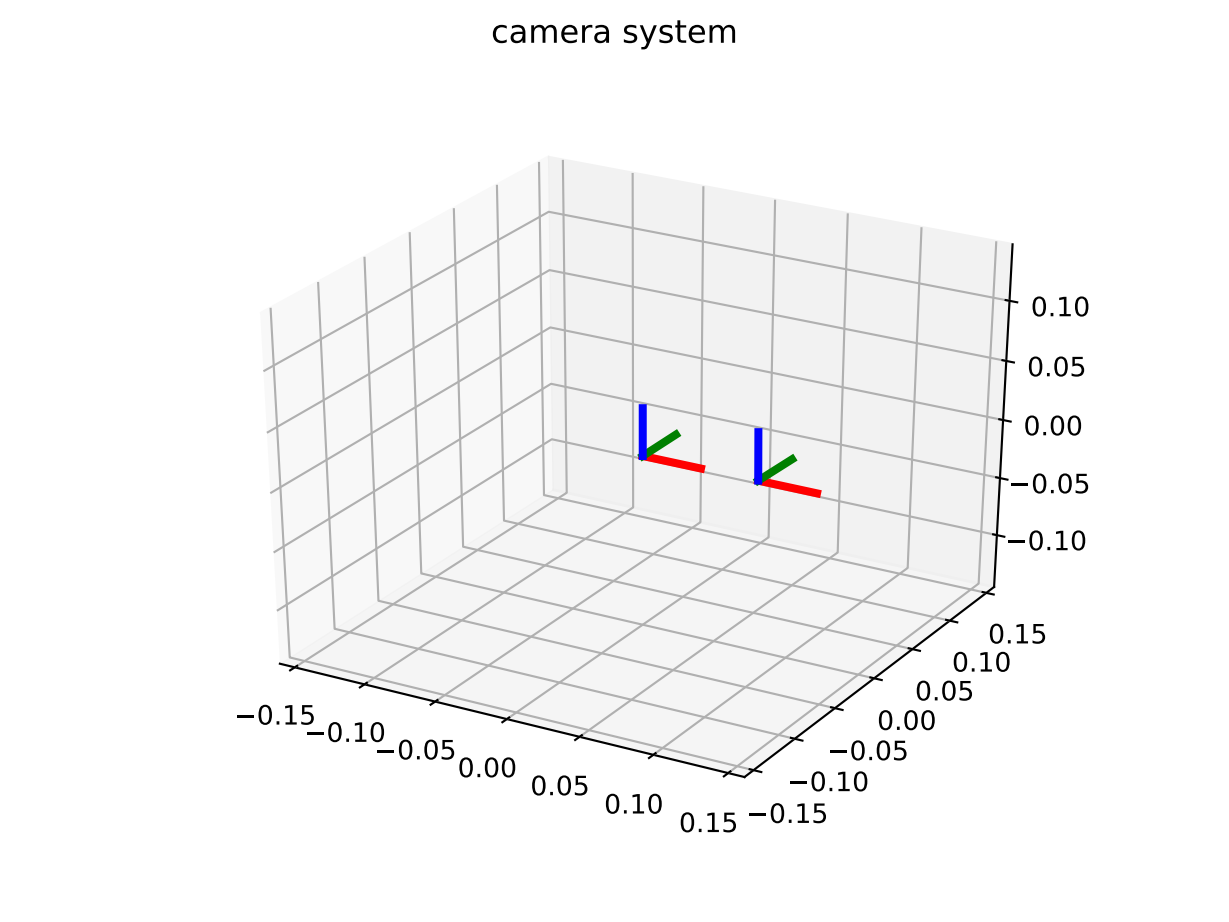
baseline T_1_0:
q: [-0.00219846 -0.00683031 -0.01228931 0.99989874] +- [0.00072948 0.00116076 0.00014963]
t: [-0.08018823 0.00001419 -0.00028394] +- [0.00013277 0.00012206 0.00038197]

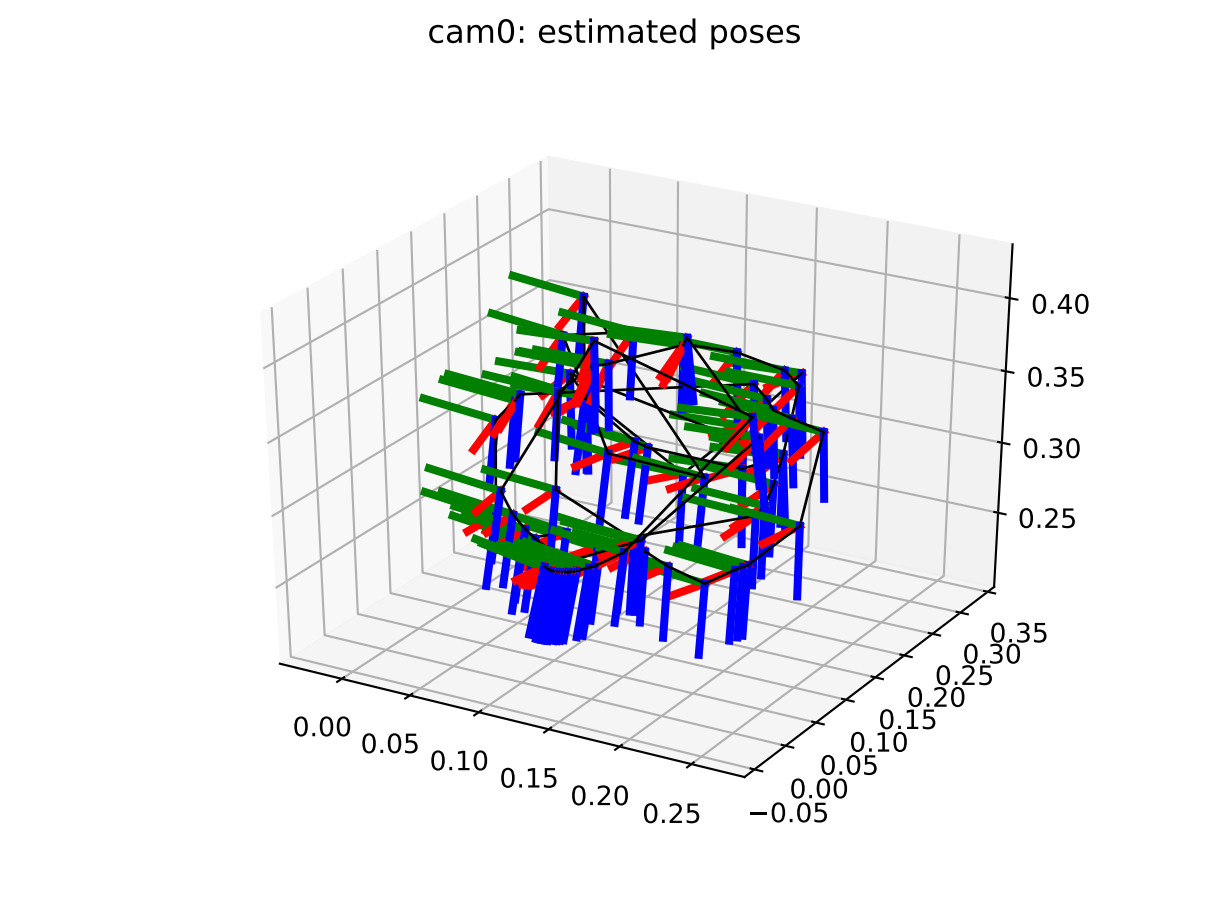
Target configuration
==========

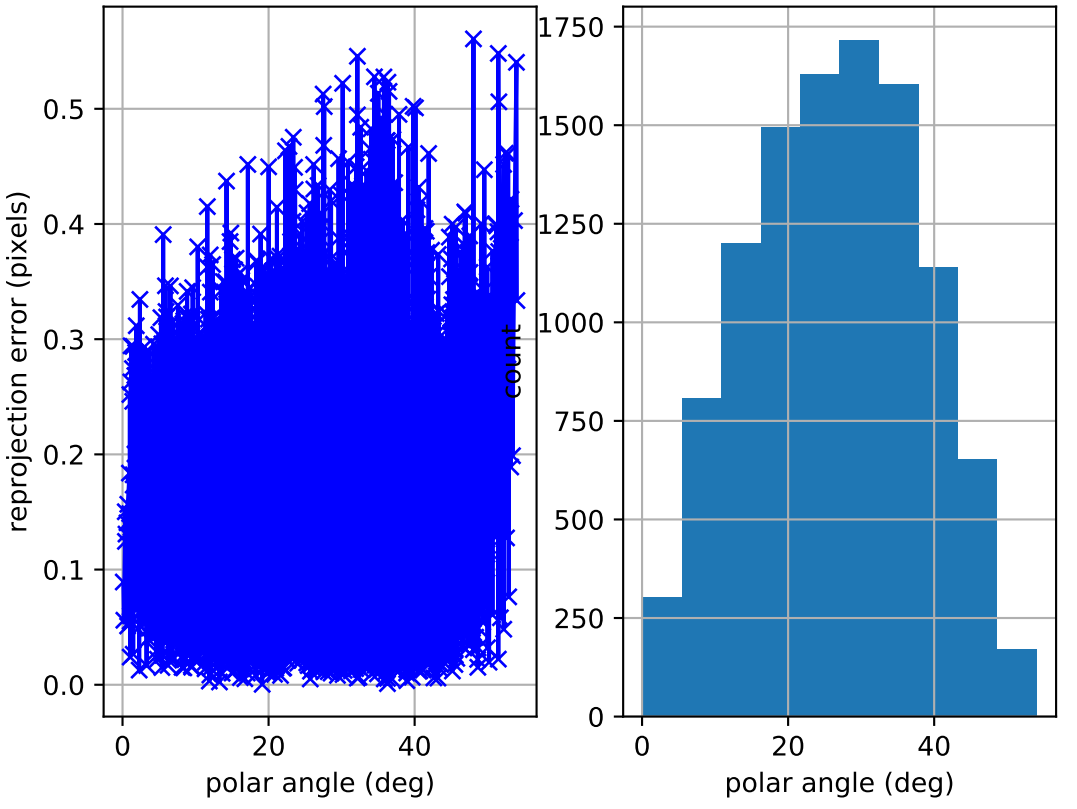
Type: aprilgrid
Tags:
Rows: 6
Cols: 6
Size: 0.0312 [m]
Spacing 0.00959999976 [m]

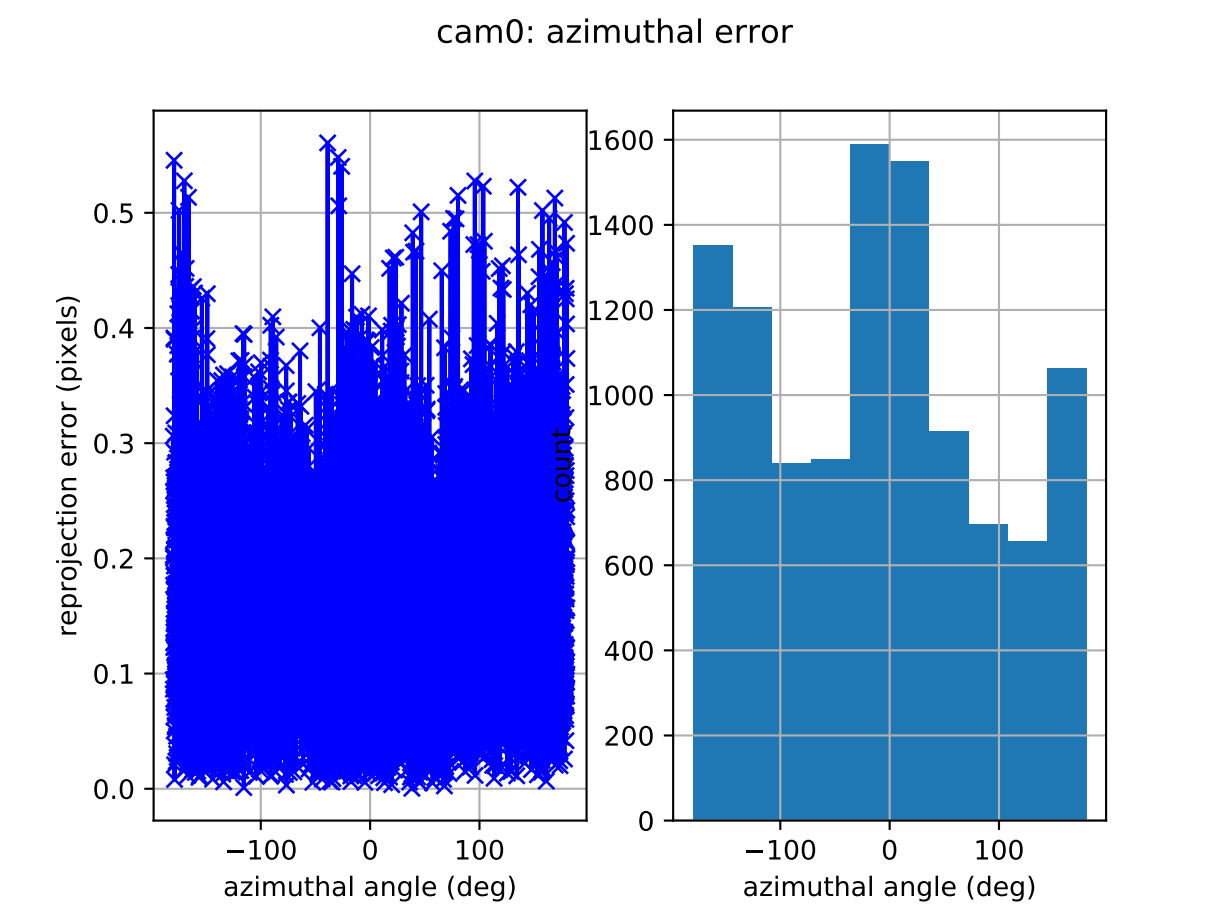
Inter-camera observations graph (edge weight=#mutual obs.)

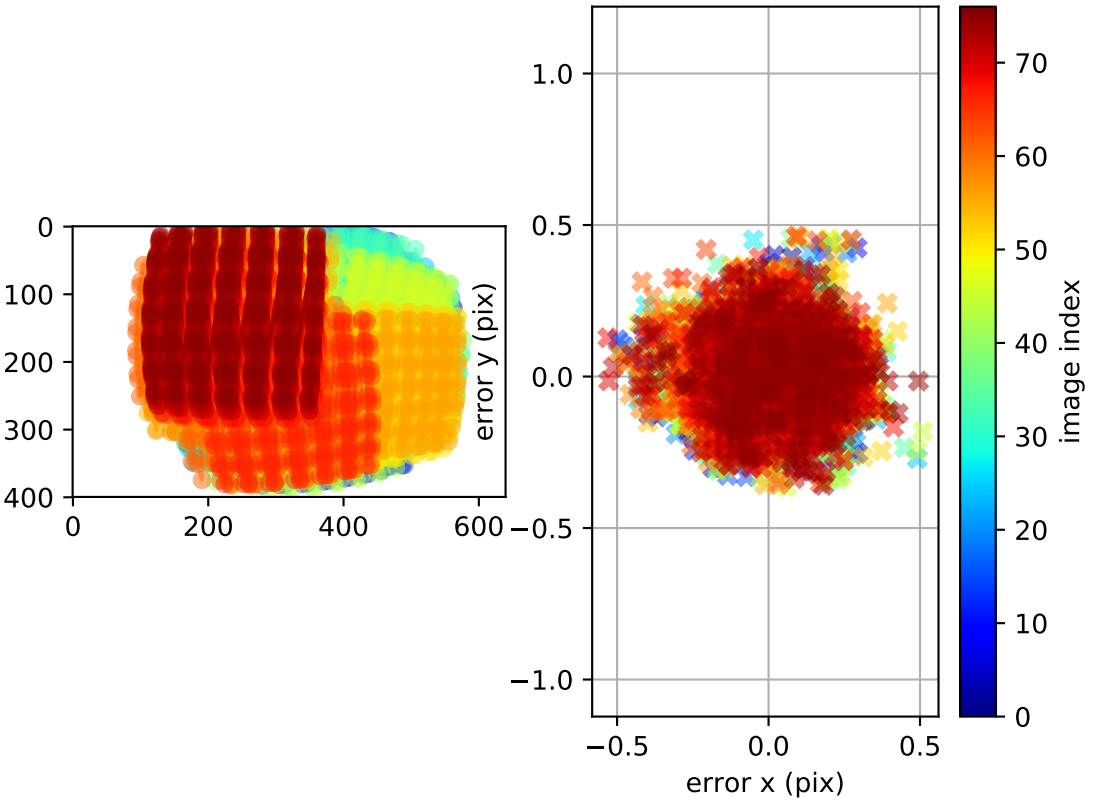


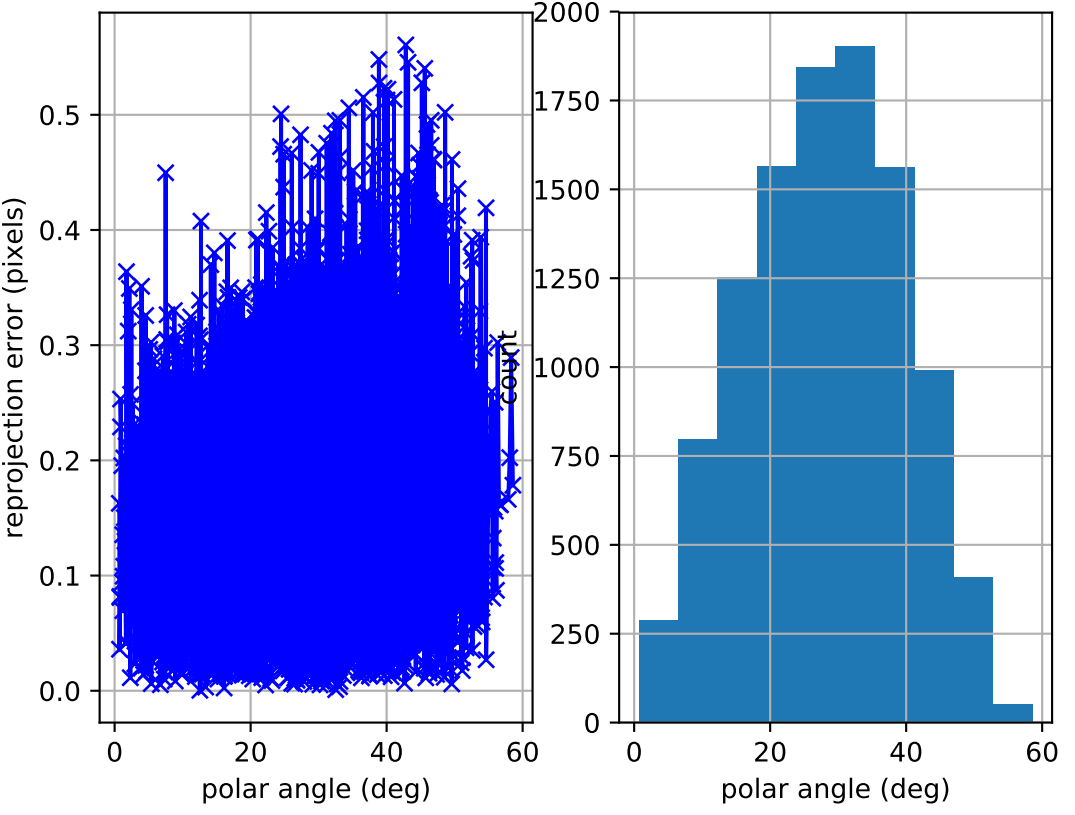

camera system
0.10
0.05
0.00
−0.05
−0.10
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.15
−0.10
−0.05
0.00
0.05
0.10
0.15

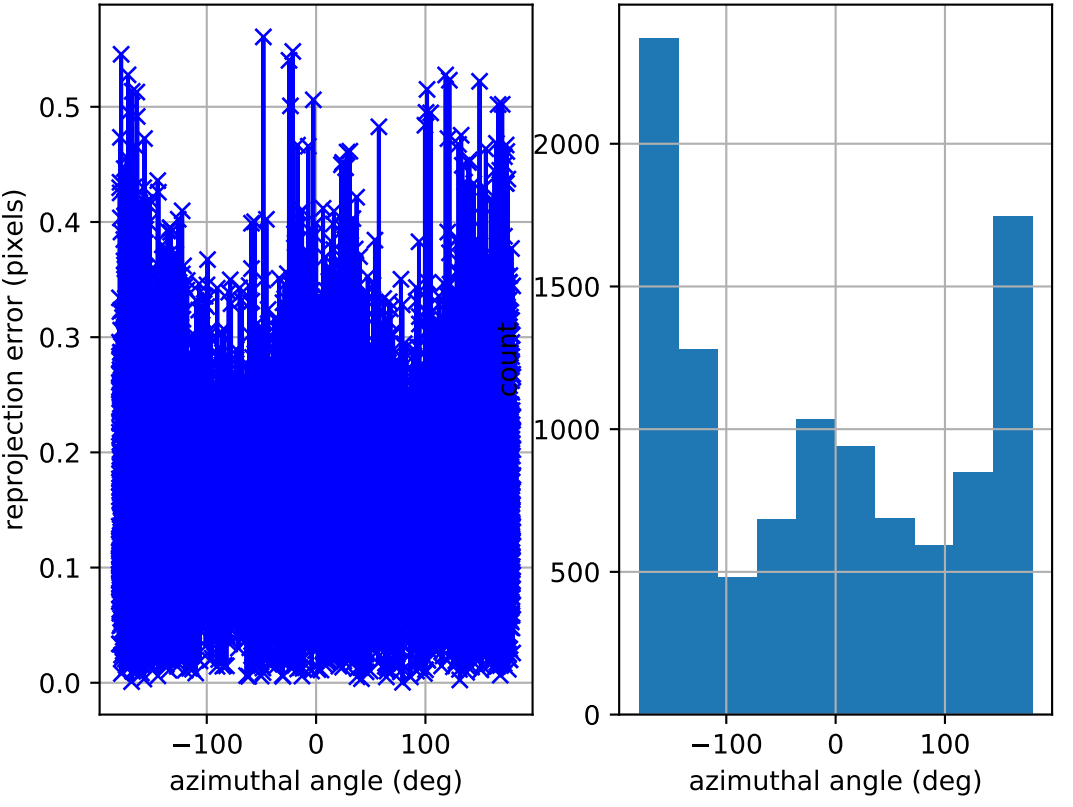

cam0: estimated poses
0.40
0.35
0.30
0.25
0.00
0.05
0.10
0.15
0.20
0.25
−0.05
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35

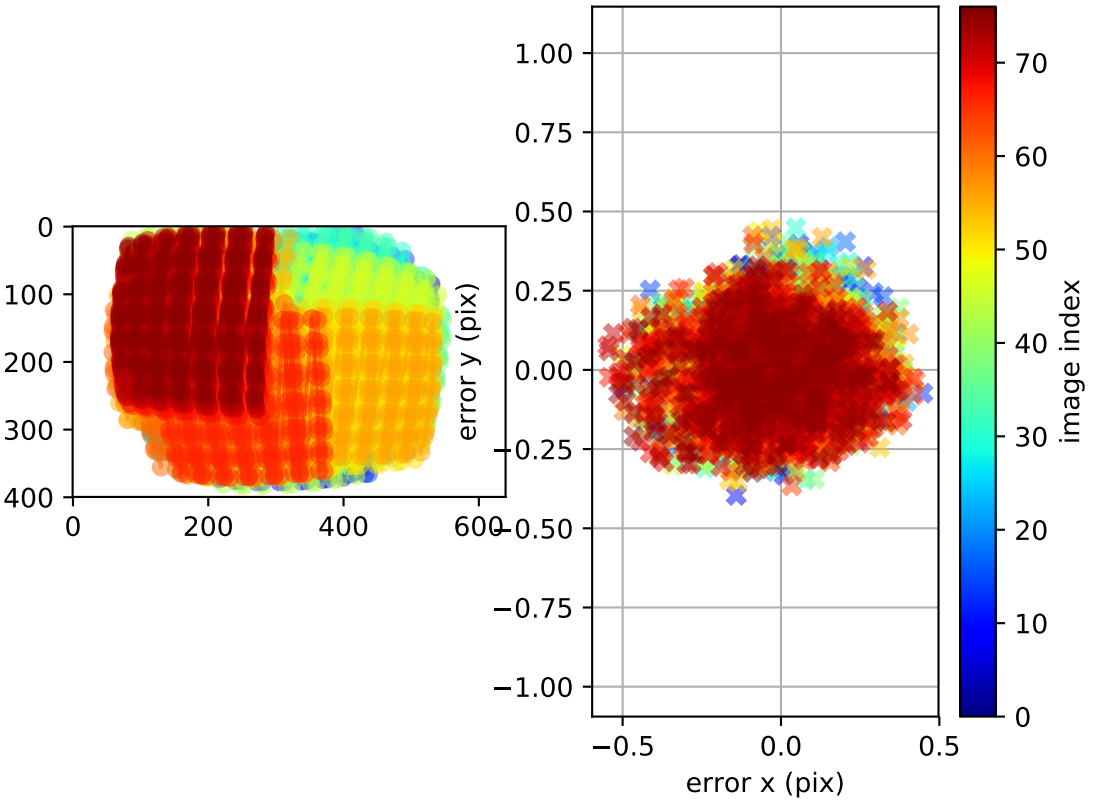

cam0: polar error
reprojection error (pixels)
0.0
0.1
0.2
0.3
0.4
0.5
0
20
40
polar angle (deg)
count
0
250
500
750
1000
1250
1500
1750
0
20
40
polar angle (deg)

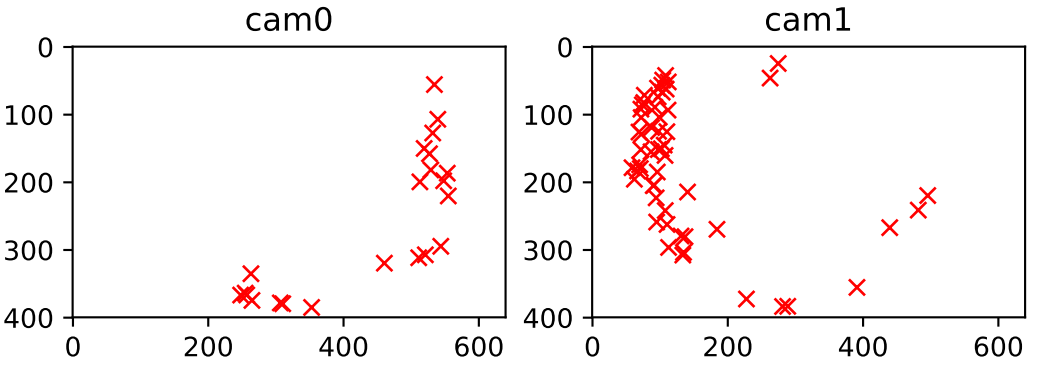

cam0: azimuthal error
reprojection error (pixels)
0.0
0.1
0.2
0.3
0.4
0.5
−100
0
100
azimuthal angle (deg)
count
0
200
400
600
800
1000
1200
1400
1600
−100
0
100
azimuthal angle (deg)


cam0: reprojection errors
0
100
200
300
400
0
200
400
600
error y (pix)
1.0
0.5
0.0
−0.5
−1.0
−0.5
0.0
0.5
error x (pix)
70
60
50
40
30
20
10
0
image index


cam1: polar error
reprojection error (pixels)
0.0
0.1
0.2
0.3
0.4
0.5
0
20
40
60
polar angle (deg)
count
0
250
500
750
1000
1250
1500
1750
2000
0
20
40
60
polar angle (deg)


cam1: azimuthal error
reprojection error (pixels)
0.0
0.1
0.2
0.3
0.4
0.5
−100
0
100
azimuthal angle (deg)
count
0
500
1000
1500
2000
−100
0
100
azimuthal angle (deg)


cam1: reprojection errors
0
100
200
300
400
0
200
400
600
error y (pix)
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
−1.00
−0.5
0.0
0.5
error x (pix)
70
60
50
40
30
20
10
0
image index


Location of removed outlier corners
cam0
cam1
0
100
200
300
400
0
200
400
600