Calibration results
====================
Camera-system parameters:
cam0 (/zed/zed_node/left_raw/image_raw_color/compressed):
type: <class 'aslam_cv.libaslam_cv_python.DistortedPinholeCameraGeometry'>
distortion: [-0.10995984  0.04856476  0.00045738  0.00130265] +- [0.00105519 0.00131495 0.00014581 0.00014868]
projection: [480.52155638 480.96539552 639.20350476 380.7532657 ] +- [0.13776743 0.137614   0.4376384
0.50321879]
reprojection error: [0.000070, -0.000065] +- [0.256894, 0.262194]

cam1 (/zed/zed_node/right_raw/image_raw_color/compressed):
type: <class 'aslam_cv.libaslam_cv_python.DistortedPinholeCameraGeometry'>
distortion: [-0.10509679  0.04055944  0.00012039  0.00041092] +- [0.00089659 0.00095643 0.00014114 0.00014635]
projection: [479.66293217 479.43698274 656.46479667 385.04233192] +- [0.13712067 0.13801104 0.43330723
0.50291688]
reprojection error: [0.000077, -0.000065] +- [0.258200, 0.266752]

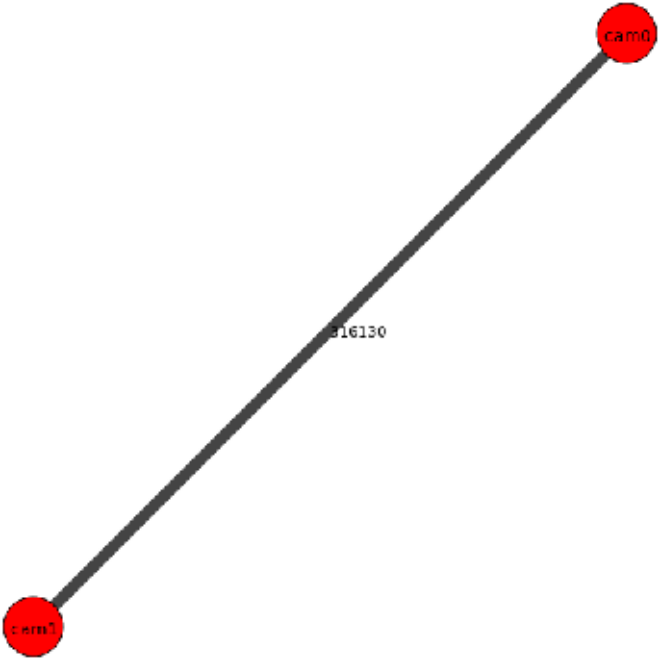
baseline T_1_0:
q: [-0.00018488  0.00486889  0.00039203  0.99998805] +- [0.00051248 0.00064435 0.00006632]
t: [-0.12062695 -0.00003709 -0.00171809] +- [0.00018998 0.00018545 0.000595  ]

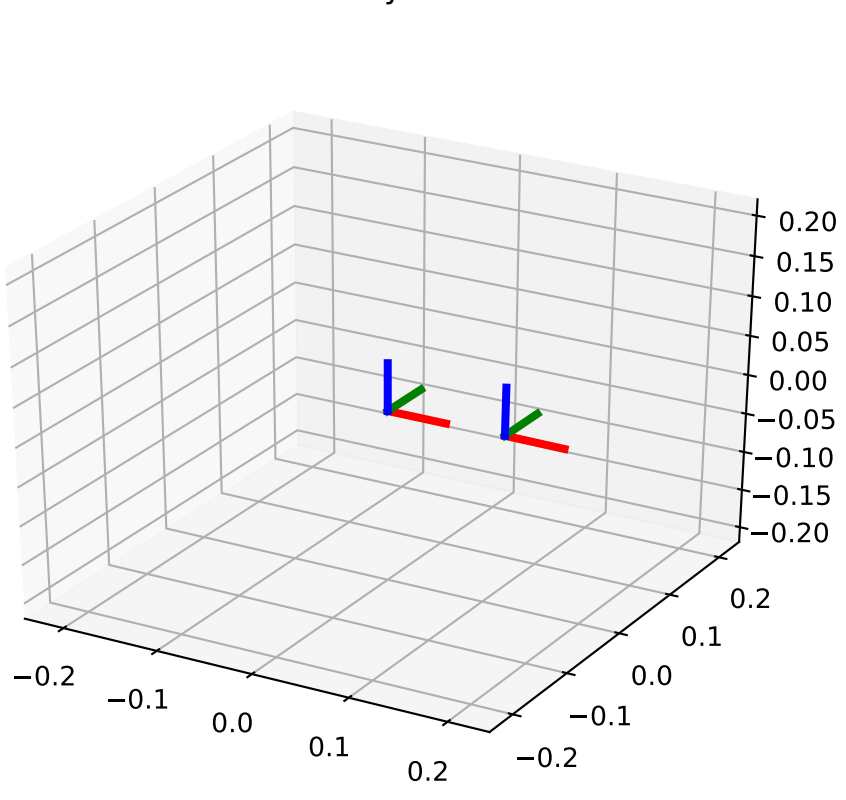


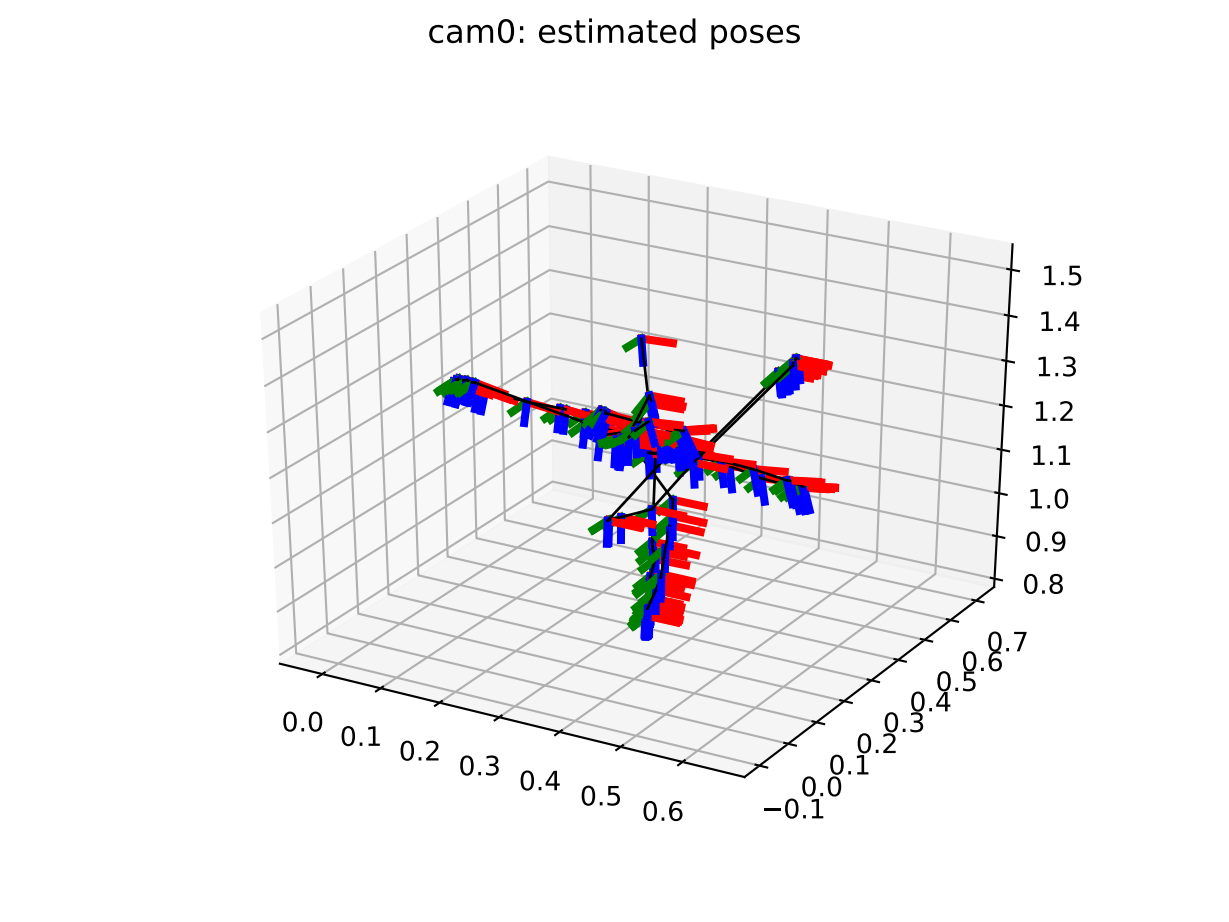
Target configuration
====================

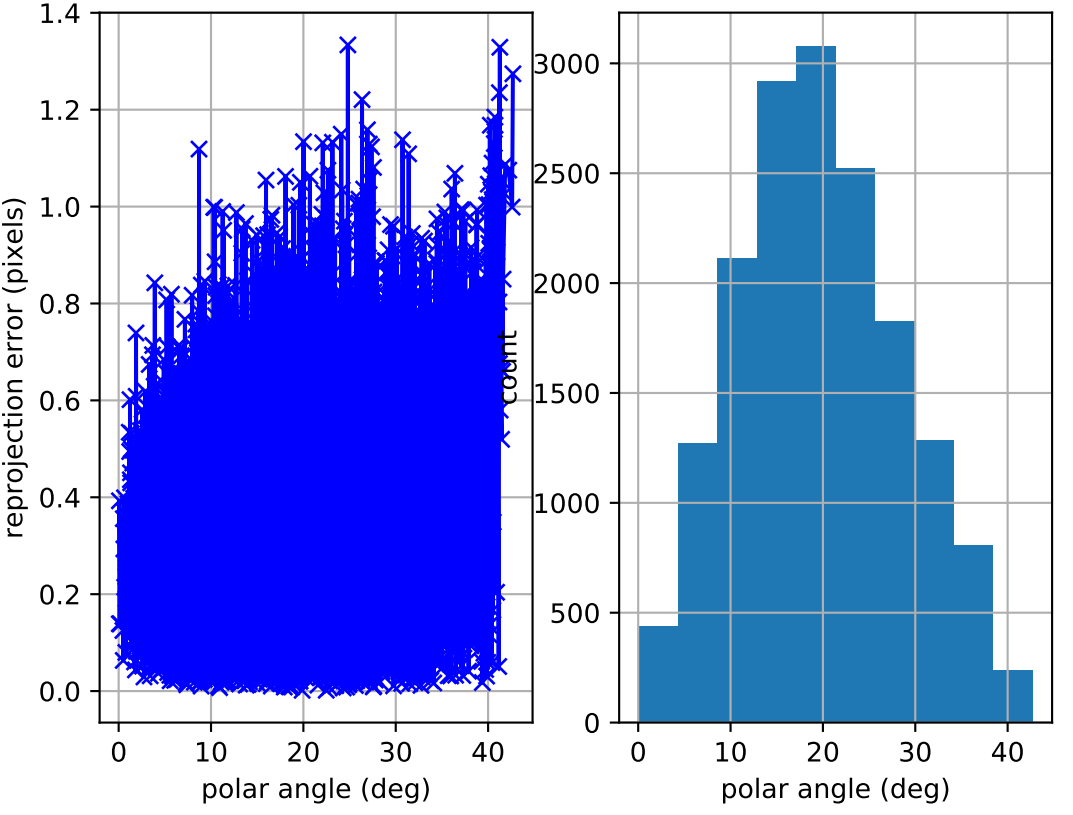
Type: aprilgrid
Tags:
Rows: 6
Cols: 6
Size: 0.088 [m]
Spacing 0.026399999999999996 [m]

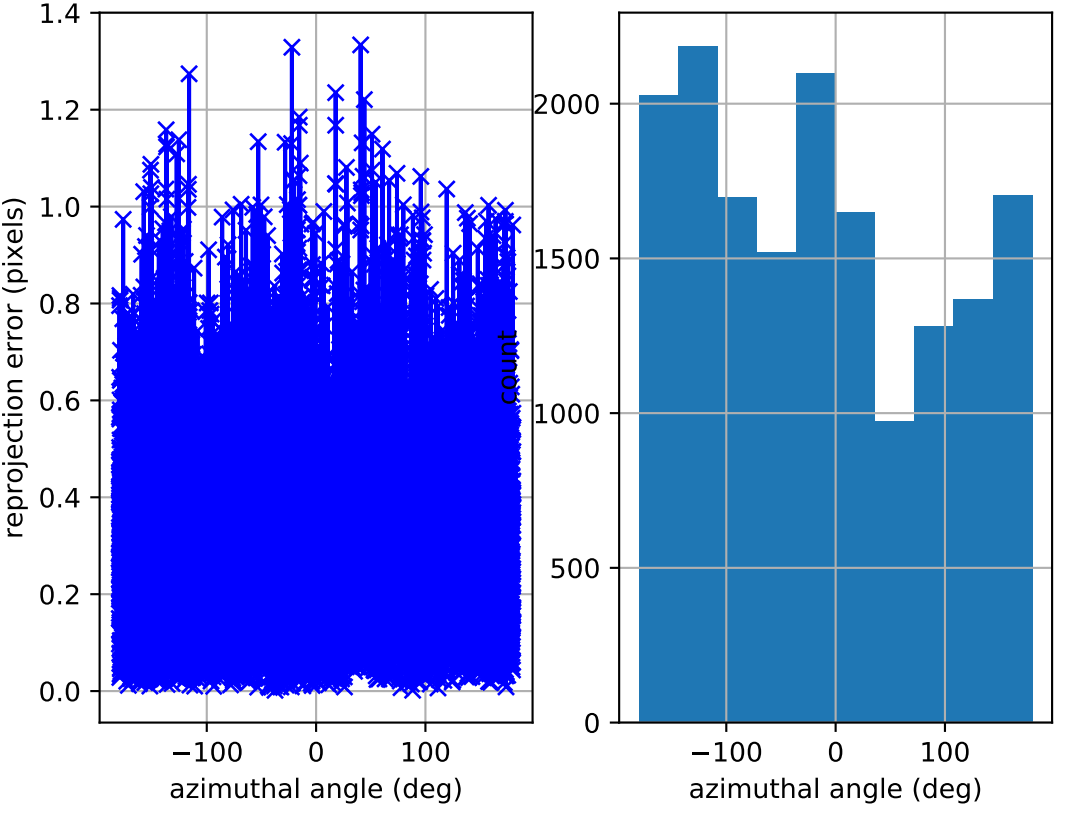
Inter-camera observations graph (edge weight=#mutual obs.)

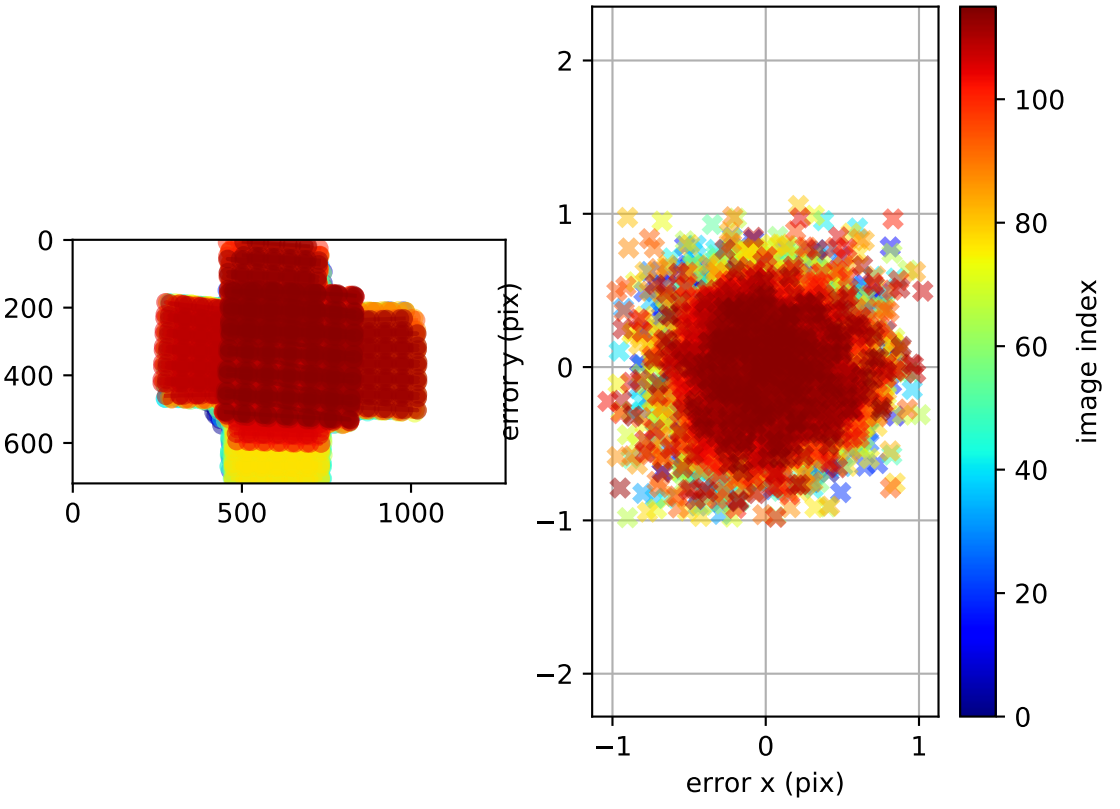


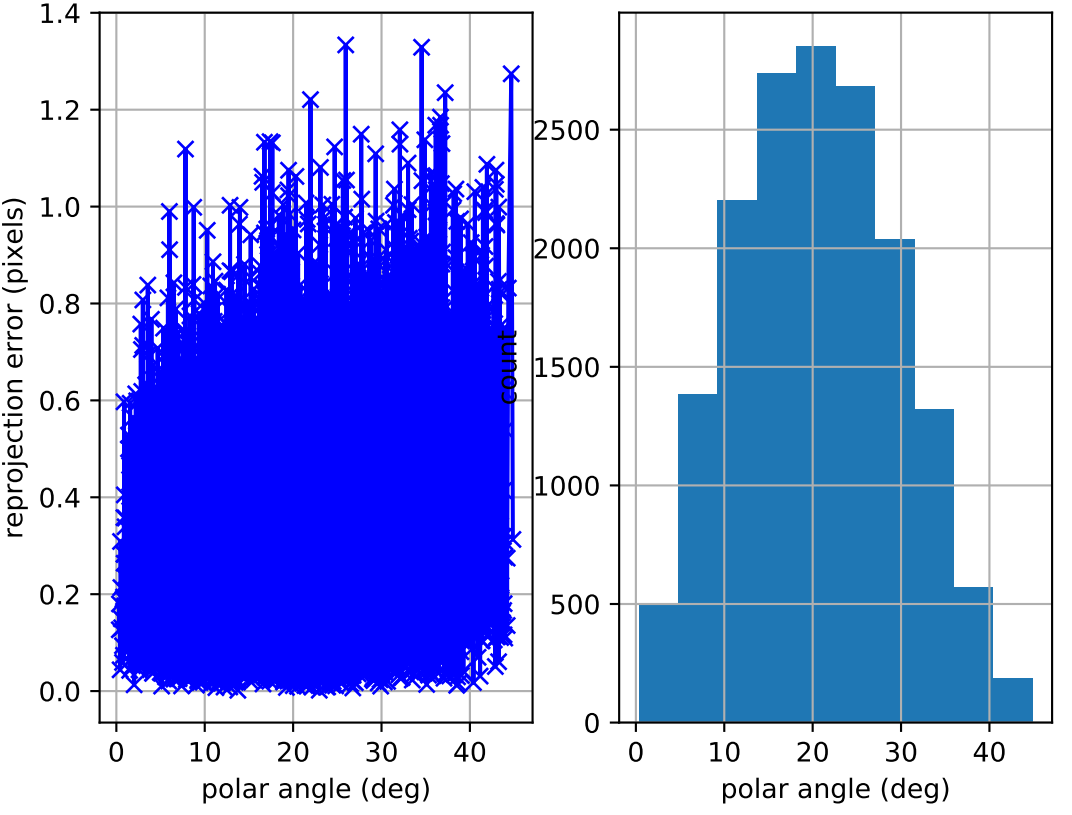

camera system
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.2
−0.1
0.0
0.1
0.2
−0.2
−0.1
0.0
0.1
0.2

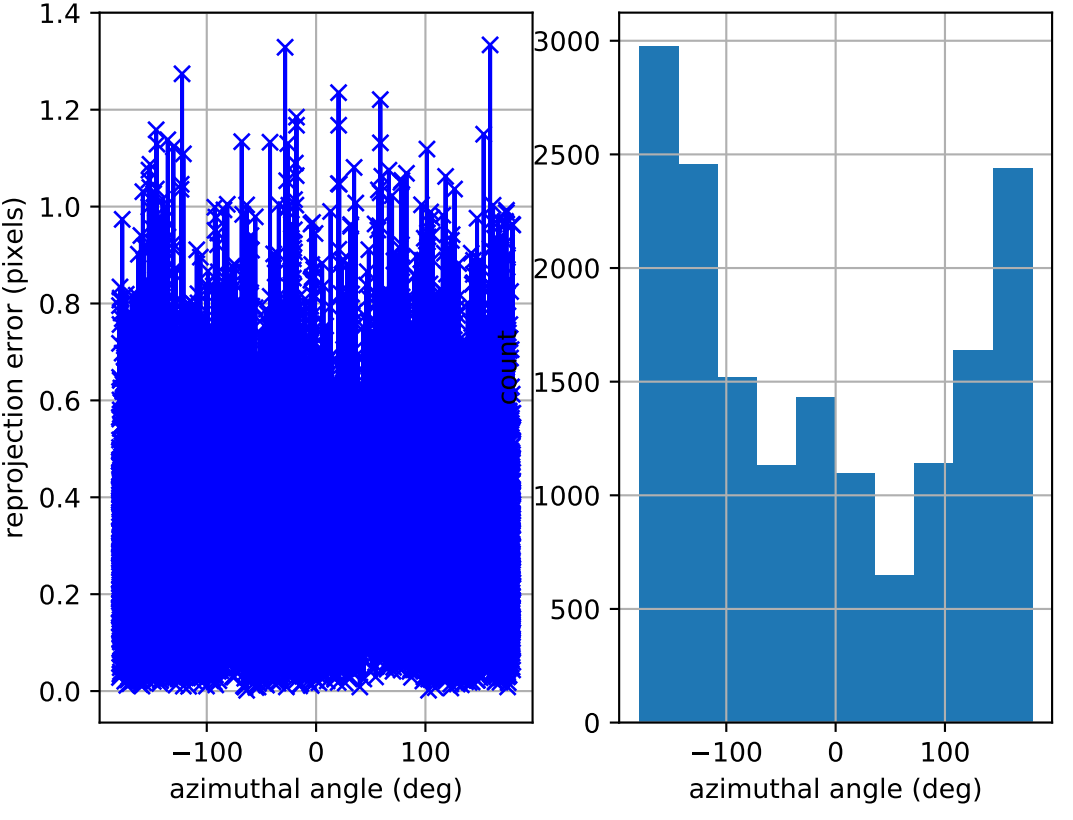

cam0: estimated poses
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
−0.1
0.0
0.1
0.2
0.3
0.4
0.5
0.6

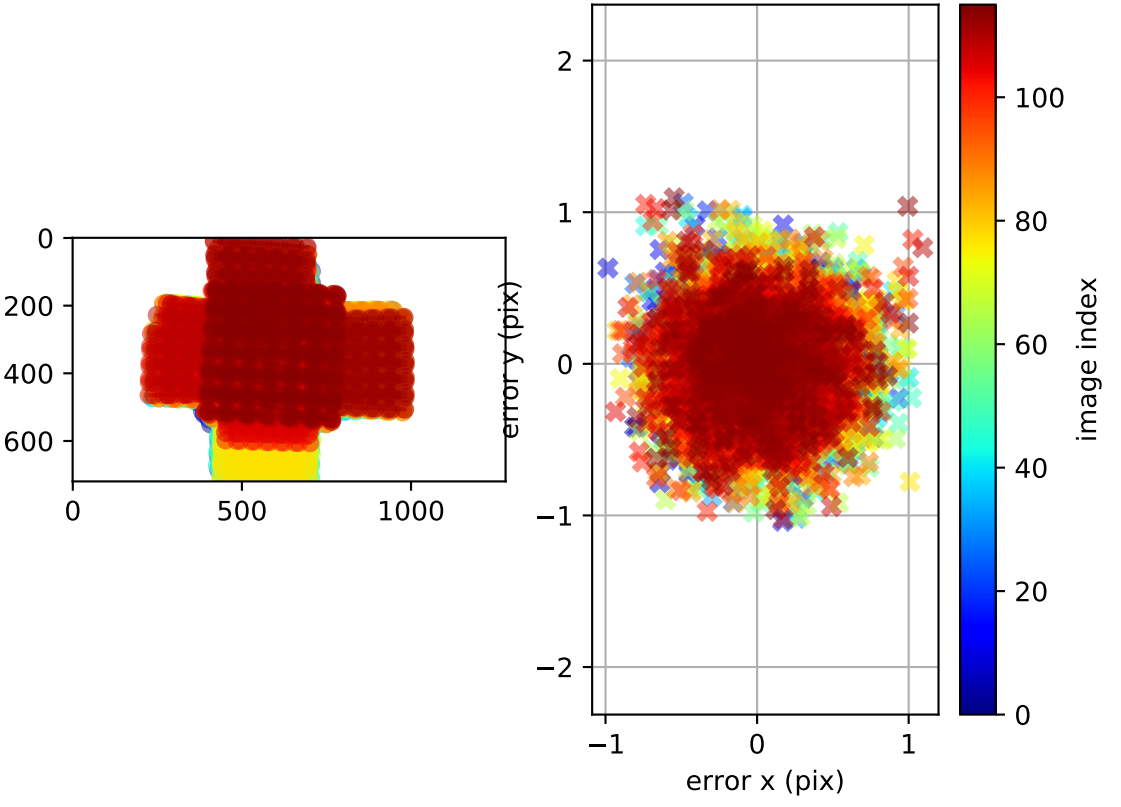

cam0: polar error
reprojection error (pixels)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
10
20
30
40
polar angle (deg)
count
3000
2500
2000
1500
1000
500
0
0
10
20
30
40
polar angle (deg)

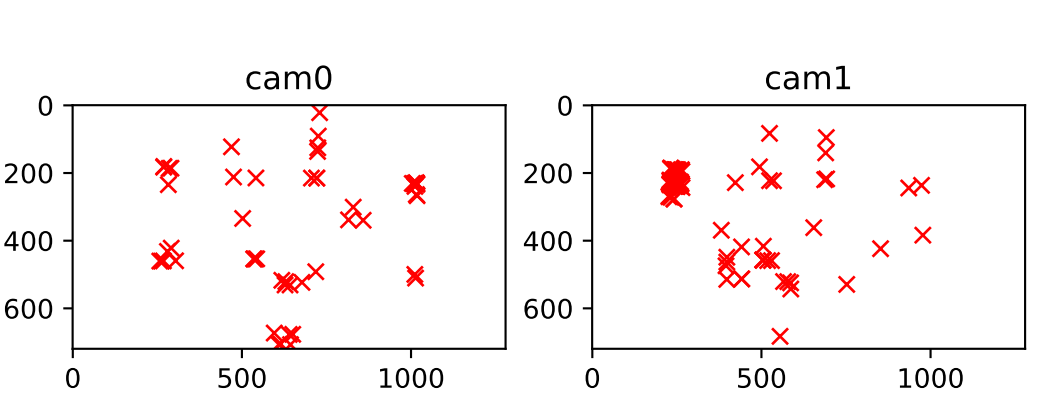

cam0: azimuthal error
reprojection error (pixels)
azimuthal angle (deg)
count
azimuthal angle (deg)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
−100
0
100
0
500
1000
1500
2000


cam0: reprojection errors
0
200
400
600
0
500
1000
2
1
0
−1
−2
−1
0
1
error x (pix)
error y (pix)
100
80
60
40
20
0
image index


cam1: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
0
10
20
30
40
0
500
1000
1500
2000
2500


cam1: azimuthal error
reprojection error (pixels)
azimuthal angle (deg)
count
azimuthal angle (deg)


cam1: reprojection errors
0
200
400
600
0
500
1000
2
1
0
−1
−2
−1
0
1
error y (pix)
error x (pix)
100
80
60
40
20
0
image index


Location of removed outlier corners
cam0
cam1
0
200
400
600
0
500
1000