

PyCalibrate PSF Report

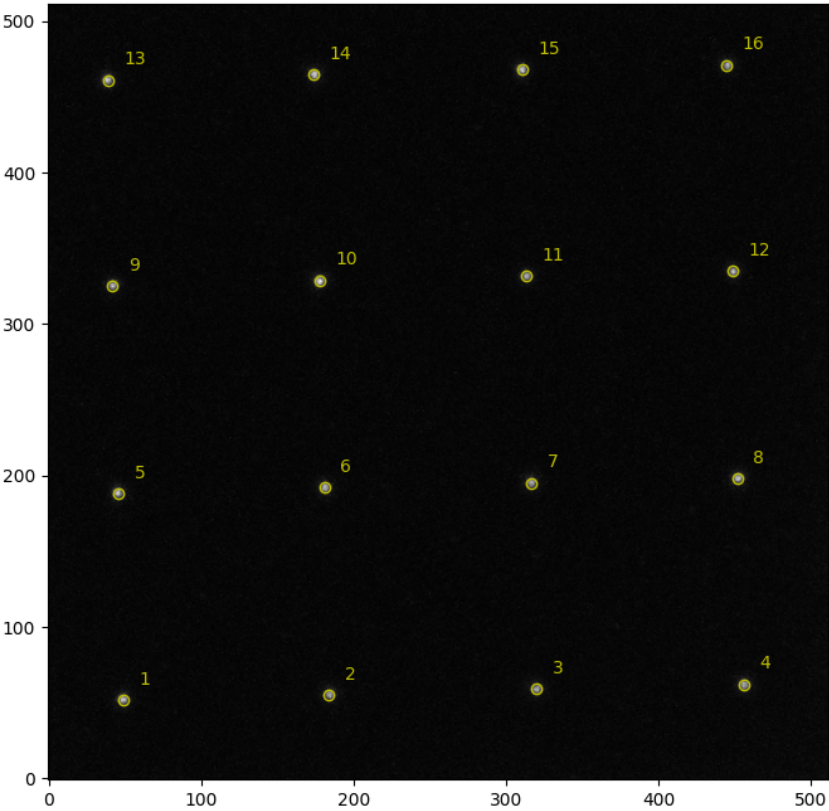
Project : 20230808-110627-tptnxb-olympus_fv3000_60x_psfcheck.tif
Filename : 20230808-110627-tptnxb-olympus_fv3000_60x_psfcheck.tif
Processed : Tue Aug 8 11:06:40 2023

Image stack metadata

Image size X, Y (pixels) : 512, 512
Pixel size X, Y, Z (nm) : 73.4610605690852, 73.4610605690852, 390.0
Colour plane : 1 of 1
Z-stack images : 12

Image point analysis

Number of detected points: 16



Tables

Average values

Parameter	Value (real units)	Value (image units)	Theoretical (n=1.52)
FWHM XY (min) [nm]	354 ± 9	4.8 ± 0.1	NA
FWHM XY (max) [nm]	367 ± 10	5.0 ± 0.1	NA
FWHM Z [nm]	1760 ± 81	4.5 ± 0.2	NA
Orientation [deg.]	13 ± 15	13.4 ± 14.6	NA
R^2 (X-Y fitting)	0.965 ± 0.003	1.0 ± 0.0	NA
R^2 (Z-fitting)	0.989 ± 0.004	1.0 ± 0.0	NA

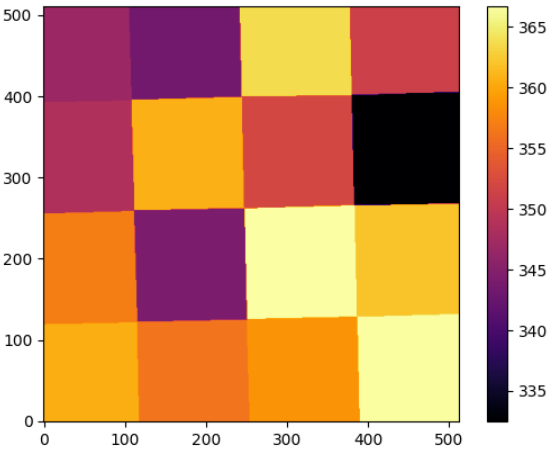
Raw fit data

Point Number	FWHM XY (min)	FWHM XY (max)	FWHM Z	Orientation	R^2 (X-Y fitting)	R^2 (Z-fitting)	Coords (Z, X, Y)
1	360	369	1724	0	0.964	0.992	6, 52, 49
2	356	366	1691	0	0.959	0.993	6, 55, 184
3	359	377	1716	33	0.961	0.991	6, 59, 320
4	367	387	1922	14	0.962	0.989	6, 62, 456
5	357	360	1746	0	0.964	0.981	6, 188, 46
6	344	376	1786	0	0.962	0.990	6, 192, 181
7	367	374	1900	12	0.960	0.982	6, 195, 317

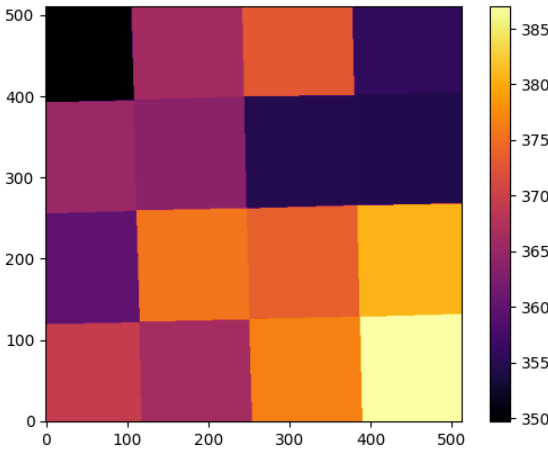
8	362	381	1796	33	0.969	0.986	6, 198, 452
9	348	365	1733	38	0.966	0.984	6, 325, 42
10	361	364	1912	0	0.967	0.985	6, 329, 178
11	352	355	1728	26	0.972	0.986	6, 332, 313
12	332	355	1726	2	0.968	0.994	6, 335, 449
13	347	350	1673	0	0.965	0.991	6, 461, 39
14	343	366	1646	21	0.967	0.990	6, 465, 174
15	364	373	1759	0	0.966	0.993	6, 468, 311
16	351	356	1708	33	0.962	0.996	6, 471, 445

Heatmaps

FWHM XY (min)

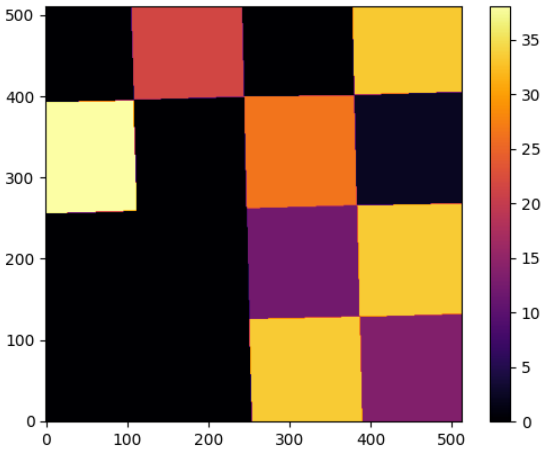
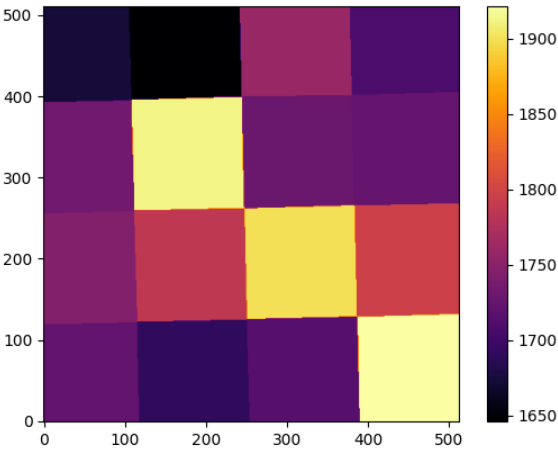


FWHM XY (max)

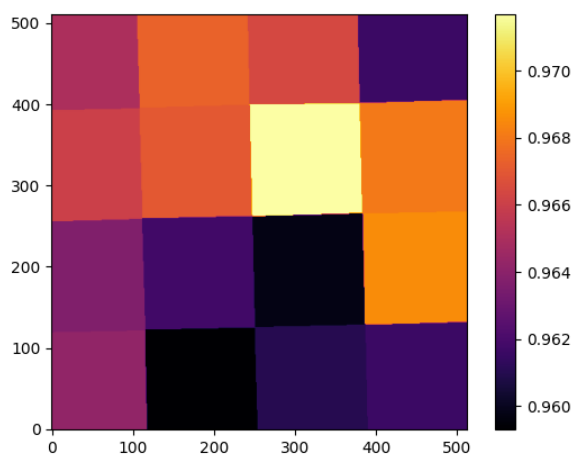


FWHM Z

Orientation



R² (X-Y fitting)



R² (Z-fitting)

