

Bead 301

Date : Mon Oct 17 13:27:57 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

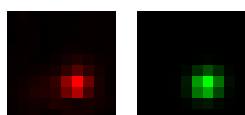
Coordinates : -61.6 μm (x), 36.2 μm (y), 8.51 μm (z)

Corresponding bead : Not found

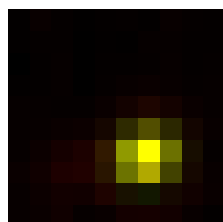
FWHM	Non corrected	Corrected	Theoretical
min	405 nm	419 nm	223 nm
max	459 nm	474 nm	223 nm
z	1.61 μm	1.62 μm	885 nm
Asymmetry	0.884		
Theta	20.3°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
 $R^2 = 0.963$



Parameters:

$A = 785.203$ (brightness)

$B = 126.518$ (background)

$a = 0.660$ px

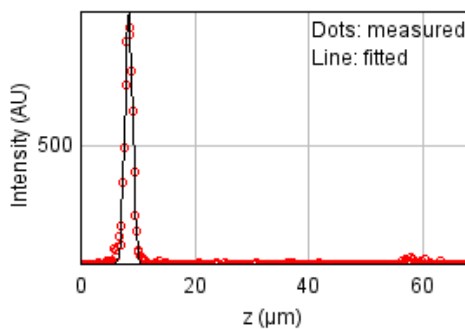
$b = 0.058$ px

$c = 0.796$ px

$x_c = 5.859$ px

$y_c = 6.251$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 32269.1957

Standard deviation: 10.25238

$R^2: 0.99114$

Parameters:

$a = 115.35138$

$b = 939.43964$

$c = 8.50858$

$d = 0.68447$

Bead 302 (Rejected)

Date : Mon Oct 17 13:27:57 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -85.2 μm (x), 16.9 μm (y), 7.84 μm (z)

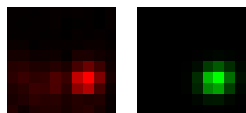
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

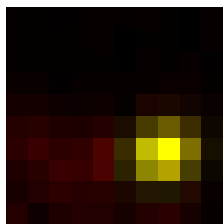
FWHM	Non corrected	Corrected	Theoretical
min	419 nm	433 nm	223 nm
max	491 nm	508 nm	223 nm
z	1.76 μm	1.77 μm	885 nm
Asymmetry	0.852		
Theta	18.1°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.849$



Parameters:

A = 618.749 (brightness)

B = 145.999 (background)

a = 0.577 px

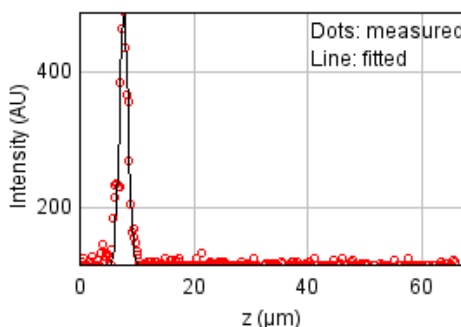
b = 0.062 px

c = 0.745 px

xc = 6.745 px

yc = 6.215 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 49760.0328

Standard deviation: 12.73125

R^2 : 0.94325

Parameters:

a = 113.42303

b = 491.56542

c = 7.83904

d = 0.74707

Bead 303

Date : Mon Oct 17 13:27:57 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

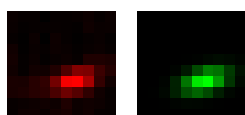
Coordinates : -129 μm (x), 15.6 μm (y), 7.3 μm (z)

Corresponding bead : Not found

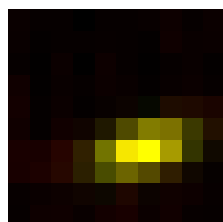
FWHM	Non corrected	Corrected	Theoretical
min	358 nm	370 nm	223 nm
max	746 nm	772 nm	223 nm
z	1.53 μm	1.54 μm	885 nm
Asymmetry	0.48		
Theta	15.5°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.974$



Parameters:

A = 364.988 (brightness)

B = 117.807 (background)

a = 0.298 px

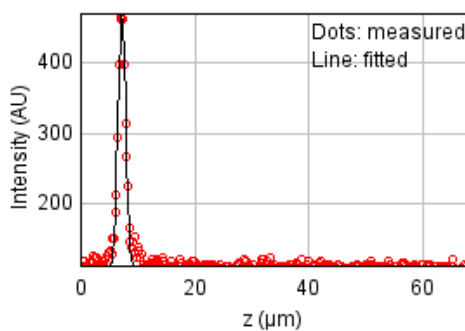
b = 0.207 px

c = 0.988 px

xc = 5.717 px

yc = 5.926 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 21616.7235

Standard deviation: 8.39123

R^2 : 0.96793

Parameters:

a = 112.36612

b = 471.04744

c = 7.30260

d = 0.65168

Bead 304

Date : Mon Oct 17 13:27:57 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

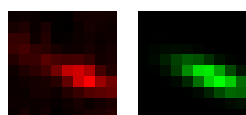
Coordinates : 117 μm (x), 10.7 μm (y), 6.8 μm (z)

Corresponding bead : Not found

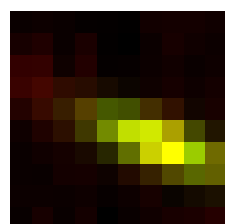
FWHM	Non corrected	Corrected	Theoretical
min	371 nm	383 nm	223 nm
max	1.14 μm	1.18 μm	223 nm
z	1.77 μm	1.78 μm	885 nm
Asymmetry	0.324		
Theta	-20.9°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.927$



Parameters:

$A = 225.406$ (brightness)

$B = 119.109$ (background)

$a = 0.213$ px

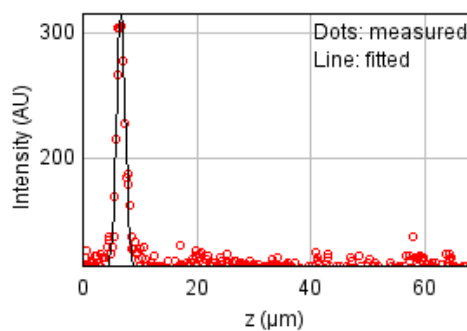
$b = -0.291$ px

$c = 0.865$ px

$x_c = 6.376$ px

$y_c = 5.561$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 16768.5308

Standard deviation: 7.39058

$R^2: 0.93445$

Parameters:

$a = 112.88074$

$b = 315.60749$

$c = 6.80075$

$d = 0.75146$

Bead 305 (Rejected)

Date : Mon Oct 17 13:27:58 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -141 μm (x), 2.58 μm (y), 9.9 μm (z)

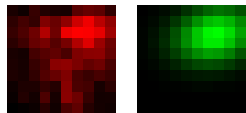
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

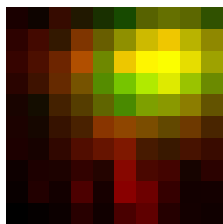
FWHM	Non corrected	Corrected	Theoretical
min	888 nm	918 nm	223 nm
max	1.27 μm	1.32 μm	223 nm
z	1.17 μm	1.18 μm	885 nm
Asymmetry	0.698		
Theta	12.1°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.707$



Parameters:

A = 119.089 (brightness)

B = 134.547 (background)

a = 0.087 px

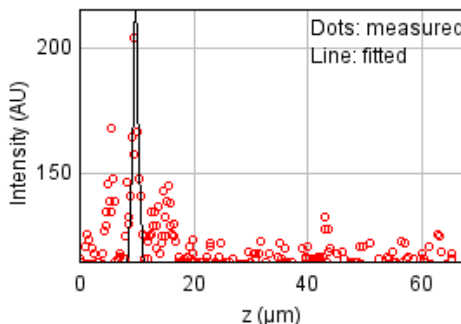
b = 0.018 px

c = 0.166 px

xc = 6.640 px

yc = 2.281 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 29153.1358

Standard deviation: 9.74481

R^2 : 0.57610

Parameters:

a = 114.35703

b = 215.10139

c = 9.90340

d = 0.49748

Bead 306

Date : Mon Oct 17 13:27:58 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

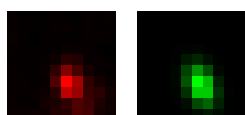
Coordinates : 28.0 μm (x), -10.6 μm (y), 7.88 μm (z)

Corresponding bead : Not found

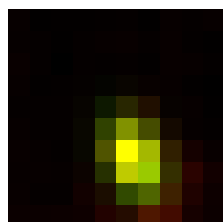
FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	641 nm	662 nm	223 nm
z	1.77 μm	1.78 μm	885 nm
Asymmetry	0.643		
Theta	-67.8°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.925$



Parameters:

A = 689.022 (brightness)

B = 127.419 (background)

a = 0.724 px

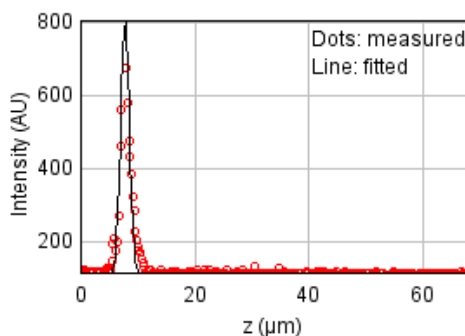
b = -0.162 px

c = 0.393 px

$x_c = 5.351$ px

$y_c = 6.353$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 139996.883

Standard deviation: 21.35453

R^2 : 0.95176

Parameters:

a = 114.97559

b = 804.12020

c = 7.87572

d = 0.75134

Bead 307

Date : Mon Oct 17 13:27:58 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

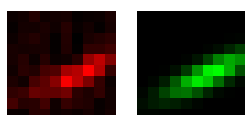
Coordinates : -148 μm (x), -10.4 μm (y), 6.49 μm (z)

Corresponding bead : Not found

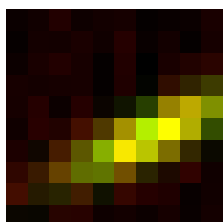
FWHM	Non corrected	Corrected	Theoretical
min	384 nm	397 nm	223 nm
max	1.44 μm	1.48 μm	223 nm
z	2.3 μm	2.31 μm	885 nm
Asymmetry	0.267		
Theta	25.1°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.907$



Parameters:

$A = 145.399$ (brightness)

$B = 112.597$ (background)

$a = 0.217$ px

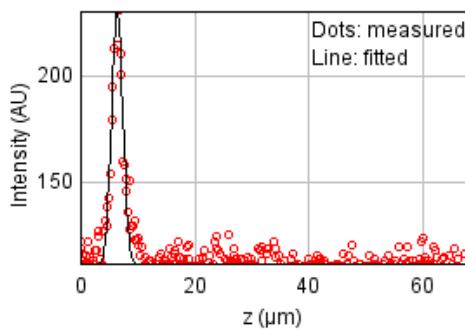
$b = 0.324$ px

$c = 0.757$ px

$x_c = 6.204$ px

$y_c = 5.287$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 13036.4933

Standard deviation: 6.51645

$R^2: 0.89112$

Parameters:

$a = 111.27952$

$b = 230.76015$

$c = 6.49274$

$d = 0.97765$

Bead 308 (Rejected)

Date : Mon Oct 17 13:27:58 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 147 μm (x), -13.1 μm (y), 7.28 μm (z)

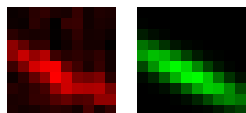
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

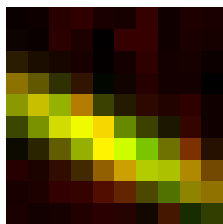
FWHM	Non corrected	Corrected	Theoretical
min	454 nm	469 nm	223 nm
max	2.24 μm	2.32 μm	223 nm
z	3.38 μm	3.39 μm	885 nm
Asymmetry	0.202		
Theta	-25.9°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.882$



Parameters:

A = 101.655 (brightness)

B = 110.915 (background)

a = 0.146 px

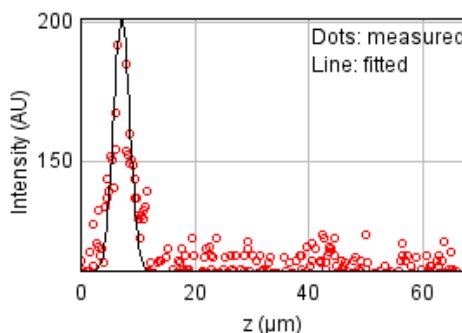
b = -0.246 px

c = 0.533 px

xc = 3.952 px

yc = 5.597 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 18924.7596

Standard deviation: 7.85138

R^2 : 0.82145

Parameters:

a = 110.81532

b = 201.07098

c = 7.27612

d = 1.43422

Bead 309 (Rejected)

Date : Mon Oct 17 13:27:58 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 96.0 μm (x), -14.0 μm (y), 5.61 μm (z)

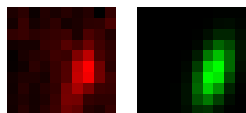
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

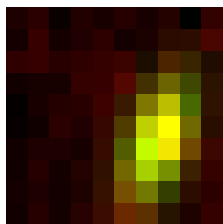
FWHM	Non corrected	Corrected	Theoretical
min	478 nm	494 nm	223 nm
max	990 nm	1.02 μm	223 nm
z	2.67 μm	2.68 μm	885 nm
Asymmetry	0.482		
Theta	70.8°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.876$



Parameters:

A = 118.146 (brightness)

B = 120.172 (background)

a = 0.539 px

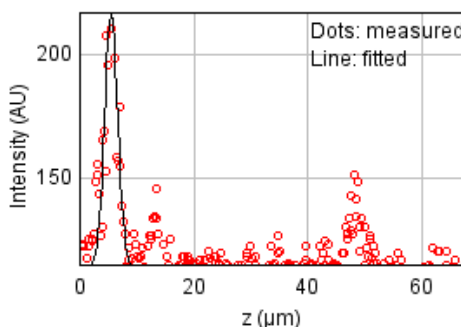
b = 0.140 px

c = 0.186 px

xc = 6.520 px

yc = 5.607 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 26809.9679

Standard deviation: 9.34499

R^2 : 0.76988

Parameters:

a = 114.87943

b = 217.09285

c = 5.61042

d = 1.13270

Bead 310 (Rejected)

Date : Mon Oct 17 13:27:59 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 124 μm (x), -19.5 μm (y), 7.27 μm (z)

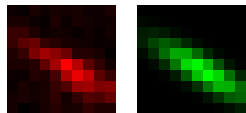
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

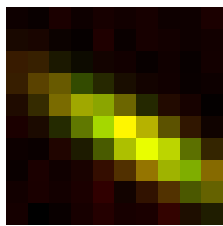
FWHM	Non corrected	Corrected	Theoretical
min	426 nm	441 nm	223 nm
max	1.63 μm	1.69 μm	223 nm
z	3.63 μm	3.64 μm	885 nm
Asymmetry	0.261		
Theta	-30.6°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.940$



Parameters:

A = 164.473 (brightness)

B = 115.591 (background)

a = 0.228 px

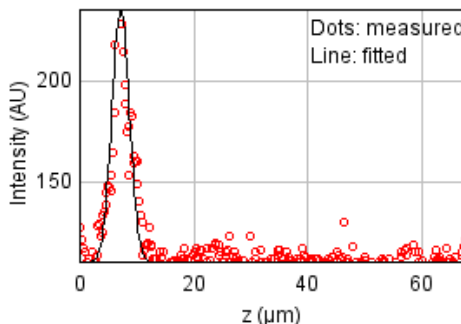
b = -0.301 px

c = 0.560 px

xc = 5.528 px

yc = 5.561 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 29830.9543

Standard deviation: 9.85745

R^2 : 0.85435

Parameters:

a = 110.80280

b = 234.67487

c = 7.27058

d = 1.53946

Bead 311

Date : Mon Oct 17 13:27:59 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

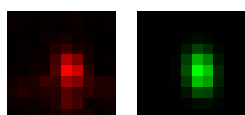
Coordinates : -14.0 μm (x), -27.1 μm (y), 7.97 μm (z)

Corresponding bead : Not found

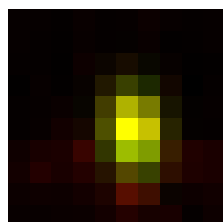
FWHM	Non corrected	Corrected	Theoretical
min	430 nm	444 nm	223 nm
max	640 nm	662 nm	223 nm
z	1.83 μm	1.84 μm	885 nm
Asymmetry	0.672		
Theta	-83.4°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.909$



Parameters:

$A = 578.361$ (brightness)

$B = 134.023$ (background)

$a = 0.721$ px

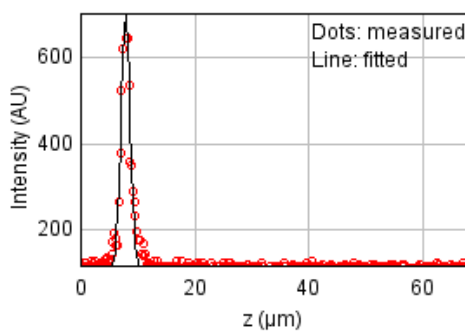
$b = -0.045$ px

$c = 0.333$ px

$x_c = 5.309$ px

$y_c = 5.087$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 70499.5183

Standard deviation: 15.15388

$R^2: 0.96724$

Parameters:

$a = 114.62821$

$b = 702.82290$

$c = 7.96902$

$d = 0.77838$

Bead 312 (Rejected)

Date : Mon Oct 17 13:27:59 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -85.1 μm (x), -70.0 μm (y), 27.4 μm (z)

Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.08 μm	1.08 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

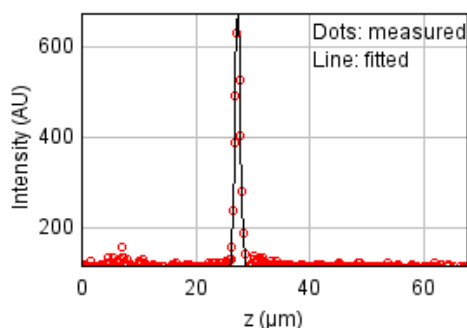
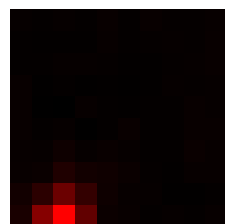
XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $y = a + (b-a) \cdot \exp(-(x-c)^2/(2 \cdot d^2))$

Z profile & fitting parameters:



Fitted on $y = a + (b-a) \cdot \exp(-(x-c)^2/(2 \cdot d^2))$

Sum of residuals squared: 28881.3991

Standard deviation: 9.69929

R²: 0.97568

Parameters:

a = 114.28596

b = 681.95900

c = 27.42283

d = 0.45717

Bead 313 (Rejected)

Date : Mon Oct 17 13:28:00 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -21.4 μm (x), -69.4 μm (y), 8.26 μm (z)

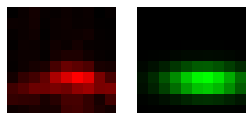
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

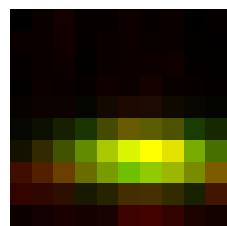
FWHM	Non corrected	Corrected	Theoretical
min	466 nm	482 nm	223 nm
max	1.29 μm	1.34 μm	223 nm
z	2.32 μm	2.33 μm	885 nm
Asymmetry	0.361		
Theta	-0.5°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.874$



Parameters:

A = 316.218 (brightness)

B = 123.266 (background)

a = 0.080 px

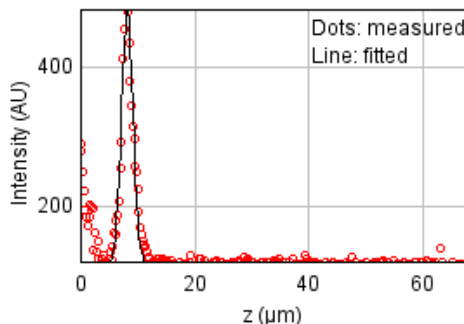
b = -0.005 px

c = 0.618 px

xc = 5.779 px

yc = 6.314 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 172592.458

Standard deviation: 23.71055

R^2 : 0.85468

Parameters:

a = 118.44892

b = 485.57584

c = 8.25906

d = 0.98560

Bead 314 (Rejected)

Date : Mon Oct 17 13:28:00 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -117 μm (x), -74.9 μm (y), 6.34 μm (z)

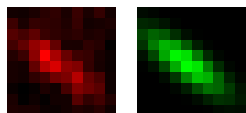
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

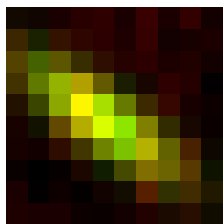
FWHM	Non corrected	Corrected	Theoretical
min	481 nm	498 nm	223 nm
max	1.47 μm	1.52 μm	223 nm
z	1.86 μm	1.87 μm	885 nm
Asymmetry	0.327		
Theta	-36.4°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.881$



Parameters:

A = 111.624 (brightness)

B = 128.580 (background)

a = 0.244 px

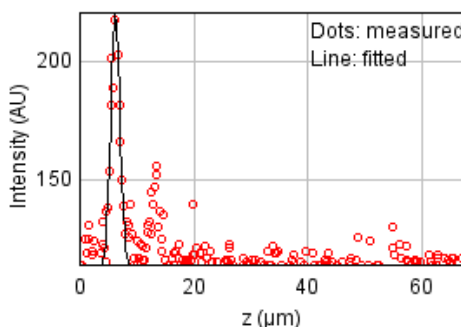
b = -0.247 px

c = 0.396 px

xc = 3.888 px

yc = 4.597 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 22546.8014

Standard deviation: 8.56985

R^2 : 0.75690

Parameters:

a = 113.47923

b = 220.64641

c = 6.33505

d = 0.79146

Bead 315 (Rejected)

Date : Mon Oct 17 13:28:00 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 103 um (x), 59.5 um (y), 7.38 um (z)

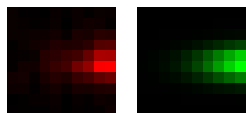
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

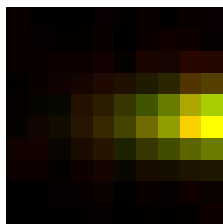
FWHM	Non corrected	Corrected	Theoretical
min	532 nm	550 nm	223 nm
max	1.76 um	1.82 um	223 nm
z	3.3 um	3.31 um	885 nm
Asymmetry	0.303		
Theta	0.6°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.954$



Parameters:

A = 493.297 (brightness)

B = 123.224 (background)

a = 0.043 px

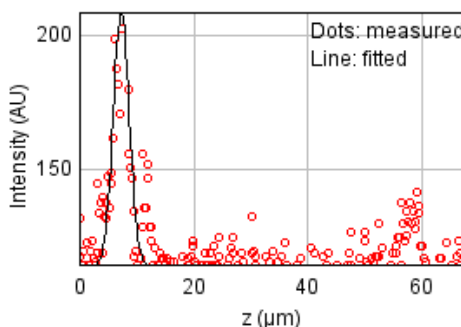
b = 0.004 px

c = 0.474 px

xc = 10.827 px

yc = 4.708 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 34925.5019

Standard deviation: 10.66601

R^2 : 0.72611

Parameters:

a = 114.38882

b = 208.50643

c = 7.38242

d = 1.39995

Bead 316 (Rejected)

Date : Mon Oct 17 13:28:00 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 150 μm (x), 52.4 μm (y), 6.17 μm (z)

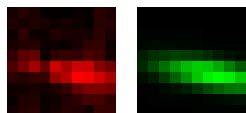
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

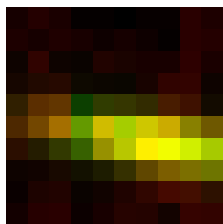
FWHM	Non corrected	Corrected	Theoretical
min	432 nm	447 nm	223 nm
max	1.78 μm	1.84 μm	223 nm
z	3.4 μm	3.41 μm	885 nm
Asymmetry	0.243		
Theta	-9.5°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.888$



Parameters:

A = 92.559 (brightness)

B = 113.488 (background)

a = 0.061 px

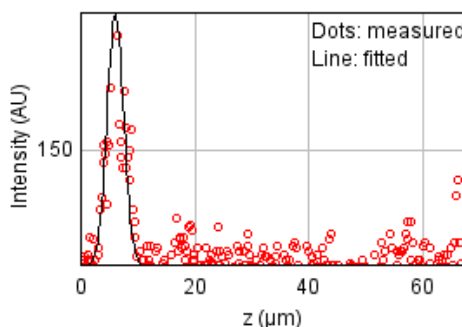
b = -0.110 px

c = 0.700 px

xc = 6.512 px

yc = 5.711 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 21481.6044

Standard deviation: 8.36497

R^2 : 0.78398

Parameters:

a = 111.03969

b = 196.17778

c = 6.17251

d = 1.44404

Bead 317

Date : Mon Oct 17 13:28:01 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

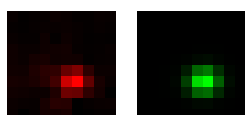
Coordinates : -123 μm (x), 49.9 μm (y), 8.05 μm (z)

Corresponding bead : Not found

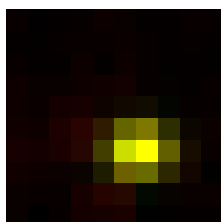
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	421 nm	223 nm
max	487 nm	503 nm	223 nm
z	1.41 μm	1.42 μm	885 nm
Asymmetry	0.835		
Theta	4.1°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.954$



Parameters:

A = 524.393 (brightness)

B = 122.418 (background)

a = 0.567 px

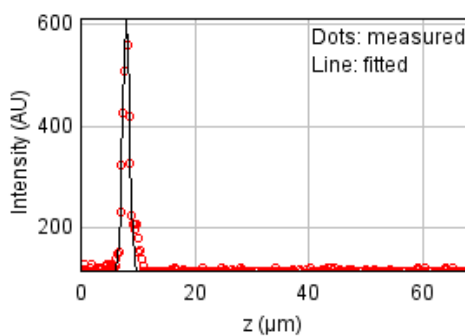
b = 0.017 px

c = 0.810 px

$x_c = 5.628$ px

$y_c = 5.973$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 40754.8378

Standard deviation: 11.52180

R^2 : 0.96684

Parameters:

a = 112.87355

b = 617.15989

c = 8.05208

d = 0.59870

Bead 318

Date : Mon Oct 17 13:28:01 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

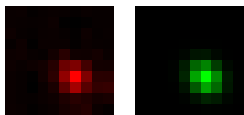
Coordinates : 88.4 μm (x), 25.1 μm (y), 8.08 μm (z)

Corresponding bead : Not found

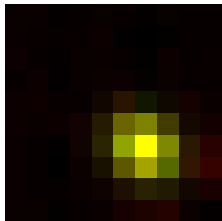
FWHM	Non corrected	Corrected	Theoretical
min	460 nm	476 nm	223 nm
max	542 nm	560 nm	223 nm
z	1.74 μm	1.75 μm	885 nm
Asymmetry	0.85		
Theta	-41.8°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.955$



Parameters:

$A = 405.041$ (brightness)

$B = 117.086$ (background)

$a = 0.535$ px

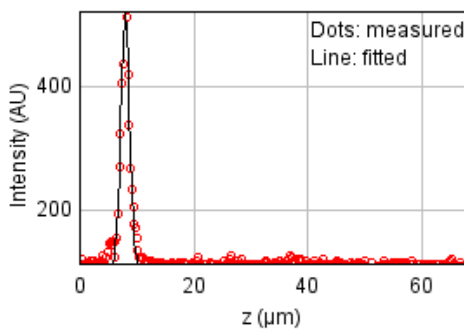
$b = -0.087$ px

$c = 0.555$ px

$x_c = 5.924$ px

$y_c = 6.086$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 25785.3720

Standard deviation: 9.16468

$R^2: 0.97388$

Parameters:

$a = 113.56549$

$b = 523.58922$

$c = 8.08212$

$d = 0.73824$

Bead 319 (Rejected)

Date : Mon Oct 17 13:28:01 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -59.5 μm (x), 5.66 μm (y), 9.1 μm (z)

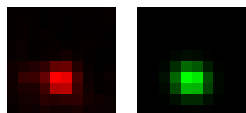
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

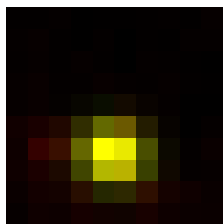
FWHM	Non corrected	Corrected	Theoretical
min	465 nm	480 nm	223 nm
max	522 nm	539 nm	223 nm
z	4.07 μm	4.09 μm	885 nm
Asymmetry	0.891		
Theta	-15.4°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.959$



Parameters:

A = 640.829 (brightness)

B = 122.706 (background)

a = 0.502 px

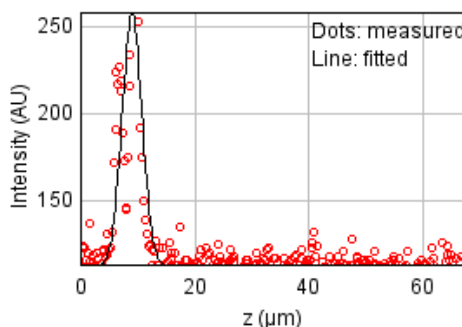
b = -0.033 px

c = 0.612 px

xc = 4.424 px

yc = 6.252 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 81789.4663

Standard deviation: 16.32223

R^2 : 0.76757

Parameters:

a = 112.62691

b = 258.65271

c = 9.10230

d = 1.72854

Bead 320 (Rejected)

Date : Mon Oct 17 13:28:01 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 58.1 μm (x), -95.7 μm (y), 5.52 μm (z)

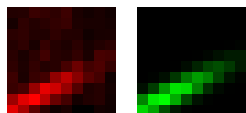
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

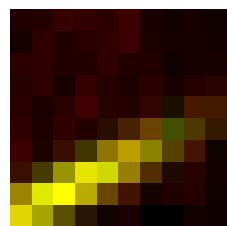
FWHM	Non corrected	Corrected	Theoretical
min	353 nm	365 nm	223 nm
max	1.97 μm	2.04 μm	223 nm
z	2.08 μm	2.09 μm	885 nm
Asymmetry	0.179		
Theta	26.6°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.950$



Parameters:

$A = 179.732$ (brightness)

$B = 131.834$ (background)

$a = 0.243$ px

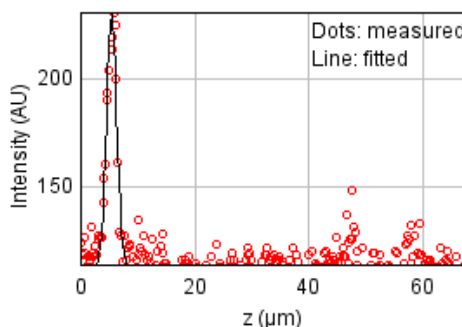
$b = 0.417$ px

$c = 0.867$ px

$xc = 1.971$ px

$yc = 7.828$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 18614.0583

Standard deviation: 7.78666

$R^2: 0.83321$

Parameters:

$a = 113.87514$

$b = 230.96817$

$c = 5.52413$

$d = 0.88256$

Bead 321

Date : Mon Oct 17 13:28:02 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

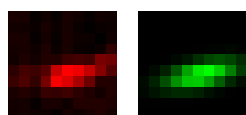
Coordinates : 121 μm (x), 86.6 μm (y), 7.24 μm (z)

Corresponding bead : Not found

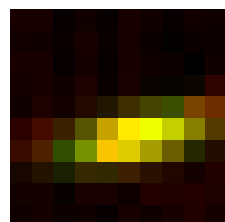
FWHM	Non corrected	Corrected	Theoretical
min	380 nm	393 nm	223 nm
max	1.12 μm	1.16 μm	223 nm
z	2.06 μm	2.07 μm	885 nm
Asymmetry	0.34		
Theta	11.9°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.924$



Parameters:

$A = 188.706$ (brightness)

$B = 113.862$ (background)

$a = 0.142$ px

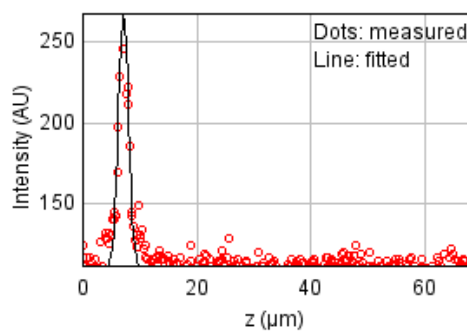
$b = 0.166$ px

$c = 0.892$ px

$x_c = 5.374$ px

$y_c = 5.351$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 18645.5970

Standard deviation: 7.79326

$R^2: 0.89716$

Parameters:

$a = 111.65742$

$b = 267.23480$

$c = 7.23864$

$d = 0.87414$

Bead 322 (Rejected)

Date : Mon Oct 17 13:28:02 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 124 μm (x), 53.6 μm (y), 47.4 μm (z)

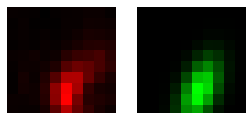
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

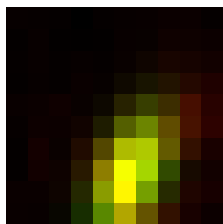
FWHM	Non corrected	Corrected	Theoretical
min	521 nm	538 nm	223 nm
max	1.03 μm	1.07 μm	223 nm
z	1.31 μm	1.31 μm	885 nm
Asymmetry	0.505		
Theta	68.2°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.937$



Parameters:

A = 460.869 (brightness)

B = 123.653 (background)

a = 0.444 px

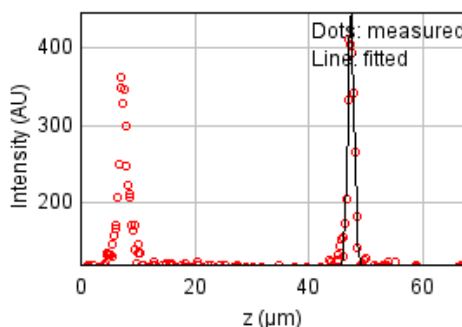
b = 0.127 px

c = 0.177 px

xc = 5.238 px

yc = 7.217 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 360915.055

Standard deviation: 34.28730

R^2 : 0.56392

Parameters:

a = 120.17738

b = 447.89111

c = 47.43589

d = 0.55555

Bead 323

Date : Mon Oct 17 13:28:02 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

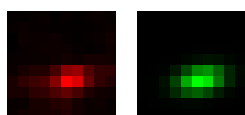
Coordinates : -138 μm (x), 34.4 μm (y), 8.46 μm (z)

Corresponding bead : Not found

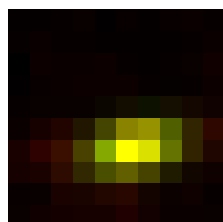
FWHM	Non corrected	Corrected	Theoretical
min	396 nm	410 nm	223 nm
max	740 nm	765 nm	223 nm
z	1.94 μm	1.94 μm	885 nm
Asymmetry	0.536		
Theta	11.2°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.943$



Parameters:

$A = 379.965$ (brightness)

$B = 120.296$ (background)

$a = 0.268$ px

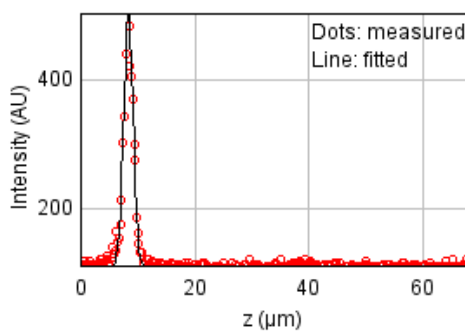
$b = 0.116$ px

$c = 0.832$ px

$x_c = 5.330$ px

$y_c = 5.855$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 25471.4374

Standard deviation: 9.10872

$R^2: 0.97468$

Parameters:

$a = 112.19187$

$b = 505.51737$

$c = 8.45571$

$d = 0.82203$

Bead 324

Date : Mon Oct 17 13:28:02 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

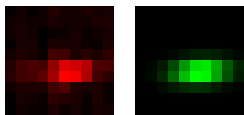
Coordinates : -141 μm (x), 33.1 μm (y), 7.53 μm (z)

Corresponding bead : Not found

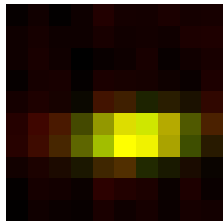
FWHM	Non corrected	Corrected	Theoretical
min	382 nm	395 nm	223 nm
max	892 nm	922 nm	223 nm
z	2.39 μm	2.4 μm	885 nm
Asymmetry	0.428		
Theta	3.5°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.937$



Parameters:

$A = 260.401$ (brightness)

$B = 120.106$ (background)

$a = 0.171$ px

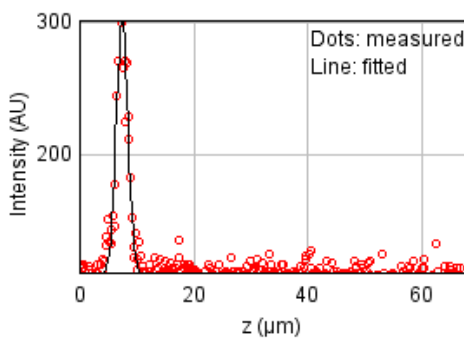
$b = 0.045$ px

$c = 0.919$ px

$x_c = 5.465$ px

$y_c = 5.553$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 27426.9588

Standard deviation: 9.45191

$R^2: 0.91040$

Parameters:

$a = 111.44779$

$b = 301.15715$

$c = 7.52651$

$d = 1.01507$

Bead 325

Date : Mon Oct 17 13:28:03 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

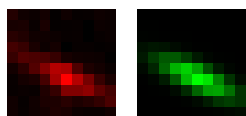
Coordinates : 109 μm (x), 37.6 nm (y), 8.24 μm (z)

Corresponding bead : Not found

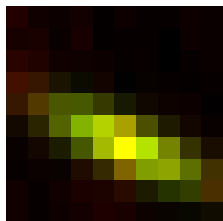
FWHM	Non corrected	Corrected	Theoretical
min	399 nm	413 nm	223 nm
max	1.3 μm	1.34 μm	223 nm
z	1.9 μm	1.91 μm	885 nm
Asymmetry	0.307		
Theta	-25.0°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.933$



Parameters:

$A = 255.629$ (brightness)

$B = 119.455$ (background)

$a = 0.215$ px

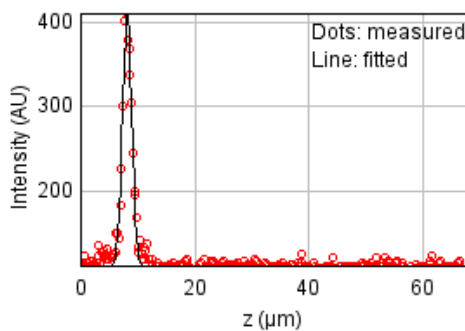
$b = -0.292$ px

$c = 0.705$ px

$x_c = 4.997$ px

$y_c = 5.829$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 22483.1237

Standard deviation: 8.55774

$R^2: 0.96153$

Parameters:

$a = 111.80598$

$b = 412.14221$

$c = 8.23790$

$d = 0.80736$

Bead 326

Date : Mon Oct 17 13:28:03 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

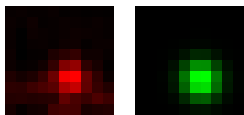
Coordinates : -29.6 μm (x), -39.9 μm (y), 4.31 μm (z)

Corresponding bead : Not found

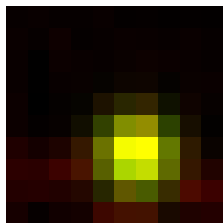
FWHM	Non corrected	Corrected	Theoretical
min	586 nm	606 nm	223 nm
max	605 nm	626 nm	223 nm
z	2.06 μm	2.07 μm	885 nm
Asymmetry	0.968		
Theta	-66.6°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.904$



Parameters:

$A = 423.794$ (brightness)

$B = 129.171$ (background)

$a = 0.387$ px

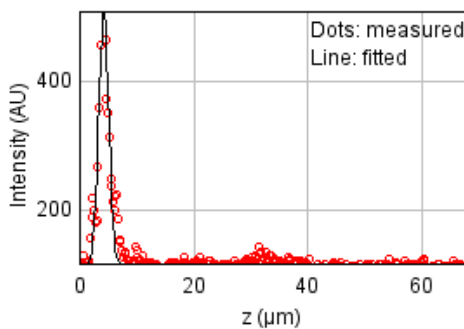
$b = -0.009$ px

$c = 0.370$ px

$x_c = 5.525$ px

$y_c = 6.294$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 77440.2624

Standard deviation: 15.88233

$R^2: 0.93045$

Parameters:

$a = 117.96715$

$b = 510.08277$

$c = 4.30668$

$d = 0.87655$

Bead 327 (Rejected)

Date : Mon Oct 17 13:28:03 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -117 μm (x), -74.9 μm (y), 6.34 μm (z)

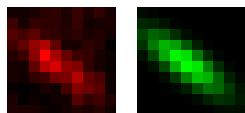
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

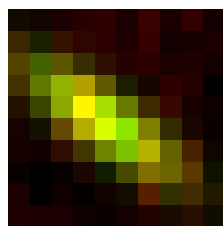
FWHM	Non corrected	Corrected	Theoretical
min	481 nm	498 nm	223 nm
max	1.47 μm	1.52 μm	223 nm
z	1.86 μm	1.87 μm	885 nm
Asymmetry	0.327		
Theta	-36.4°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.881$



Parameters:

A = 111.624 (brightness)

B = 128.580 (background)

a = 0.244 px

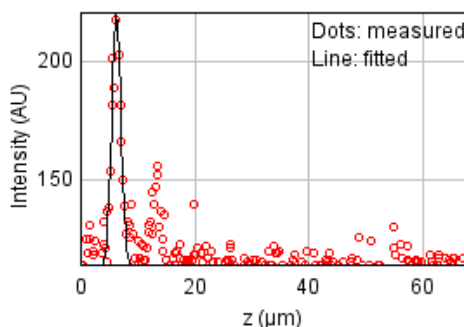
b = -0.247 px

c = 0.396 px

xc = 3.888 px

yc = 4.597 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 22546.8014

Standard deviation: 8.56985

R^2 : 0.75690

Parameters:

a = 113.47923

b = 220.64641

c = 6.33505

d = 0.79146

Bead 328 (Rejected)

Date : Mon Oct 17 13:28:03 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 89.9 μm (x), -76.5 μm (y), 8.91 μm (z)

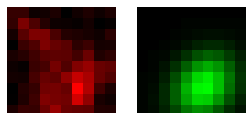
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

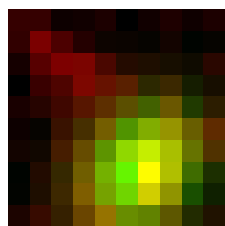
FWHM	Non corrected	Corrected	Theoretical
min	882 nm	911 nm	223 nm
max	1.11 μm	1.14 μm	223 nm
z	3.36 μm	3.37 μm	885 nm
Asymmetry	0.797		
Theta	53.1°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.707$



Parameters:

A = 71.972 (brightness)

B = 124.211 (background)

a = 0.150 px

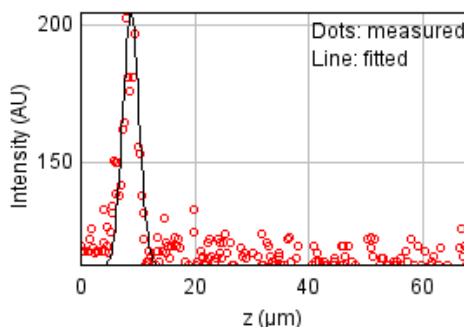
b = 0.030 px

c = 0.132 px

xc = 5.625 px

yc = 6.817 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 19307.3259

Standard deviation: 7.93034

R^2 : 0.82372

Parameters:

a = 112.43437

b = 204.57838

c = 8.90781

d = 1.42515

Bead 329 (Rejected)

Date : Mon Oct 17 13:28:03 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -8.4 μm (x), -80.5 μm (y), 8.13 μm (z)

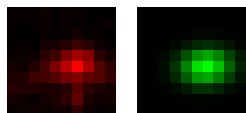
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

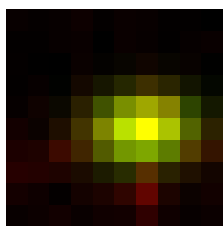
FWHM	Non corrected	Corrected	Theoretical
min	561 nm	580 nm	223 nm
max	821 nm	848 nm	223 nm
z	1.7 μm	1.71 μm	885 nm
Asymmetry	0.684		
Theta	3.3°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.891$



Parameters:

A = 330.345 (brightness)

B = 125.907 (background)

a = 0.200 px

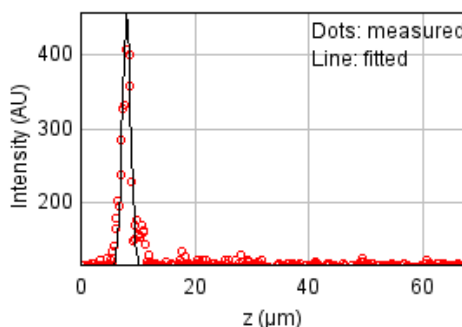
b = 0.013 px

c = 0.425 px

xc = 5.818 px

yc = 5.006 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 52613.5407

Standard deviation: 13.09120

R^2 : 0.92585

Parameters:

a = 114.60903

b = 457.29562

c = 8.12538

d = 0.72158

Bead 330

Date : Mon Oct 17 13:28:03 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

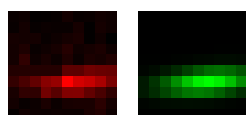
Coordinates : 148 μm (x), 88.2 μm (y), 7.74 μm (z)

Corresponding bead : Not found

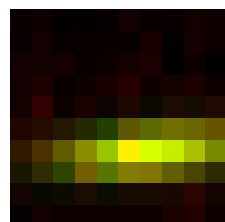
FWHM	Non corrected	Corrected	Theoretical
min	399 nm	412 nm	223 nm
max	1.48 μm	1.53 μm	223 nm
z	2.83 μm	2.84 μm	885 nm
Asymmetry	0.27		
Theta	4.7°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.943$



Parameters:

A = 189.994 (brightness)

B = 114.402 (background)

a = 0.067 px

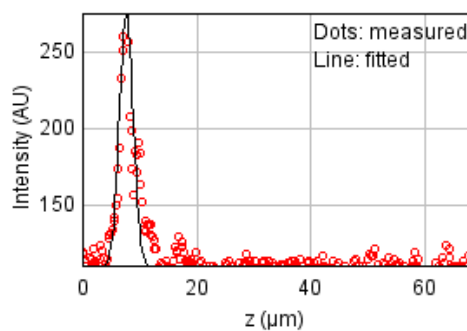
b = 0.064 px

c = 0.839 px

xc = 5.926 px

yc = 6.039 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 41101.8561

Standard deviation: 11.57075

R^2 : 0.85618

Parameters:

a = 110.54958

b = 274.75605

c = 7.74176

d = 1.20193

Bead 331

Date : Mon Oct 17 13:28:04 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

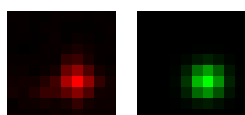
Coordinates : -35.0 μm (x), 82.1 μm (y), 9.01 μm (z)

Corresponding bead : Not found

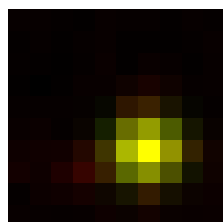
FWHM	Non corrected	Corrected	Theoretical
min	499 nm	516 nm	223 nm
max	548 nm	566 nm	223 nm
z	1.57 μm	1.58 μm	885 nm
Asymmetry	0.911		
Theta	6.1°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.957$



Parameters:

A = 670.918 (brightness)

B = 127.301 (background)

a = 0.448 px

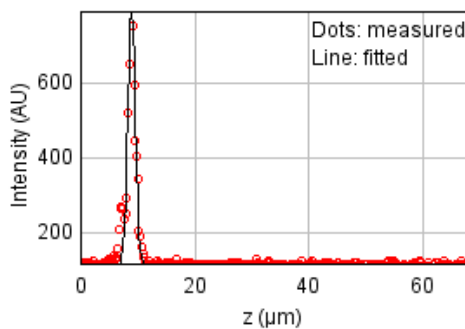
b = 0.010 px

c = 0.538 px

$x_c = 5.874$ px

$y_c = 5.963$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 113046.979

Standard deviation: 19.18935

R^2 : 0.95415

Parameters:

a = 115.13731

b = 788.92320

c = 9.00584

d = 0.66637

Bead 332

Date : Mon Oct 17 13:28:04 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

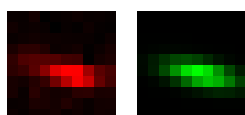
Coordinates : -154 μm (x), 74.9 μm (y), 7.88 μm (z)

Corresponding bead : Not found

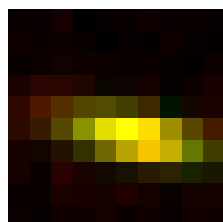
FWHM	Non corrected	Corrected	Theoretical
min	375 nm	388 nm	223 nm
max	1.1 μm	1.14 μm	223 nm
z	2.23 μm	2.24 μm	885 nm
Asymmetry	0.34		
Theta	-11.3°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.953$



Parameters:

A = 289.569 (brightness)

B = 115.474 (background)

a = 0.142 px

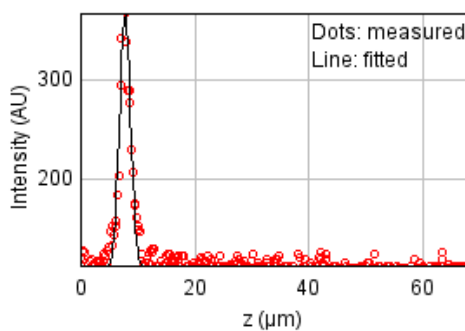
b = -0.161 px

c = 0.920 px

xc = 5.348 px

yc = 5.321 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 29251.3152

Standard deviation: 9.76121

R^2 : 0.94145

Parameters:

a = 111.43269

b = 366.13766

c = 7.87598

d = 0.94682

Bead 333

Date : Mon Oct 17 13:28:04 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

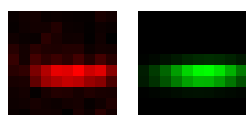
Coordinates : 137 μm (x), 67.0 μm (y), 7.37 μm (z)

Corresponding bead : Not found

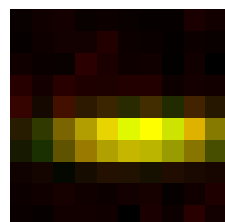
FWHM	Non corrected	Corrected	Theoretical
min	361 nm	373 nm	223 nm
max	1.41 μm	1.46 μm	223 nm
z	1.88 μm	1.89 μm	885 nm
Asymmetry	0.256		
Theta	1.0°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.953$



Parameters:

$A = 185.669$ (brightness)

$B = 114.610$ (background)

$a = 0.068$ px

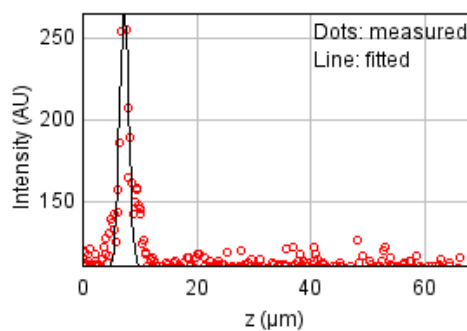
$b = 0.017$ px

$c = 1.029$ px

$x_c = 5.595$ px

$y_c = 5.340$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 25276.3629

Standard deviation: 9.07378

$R^2: 0.85390$

Parameters:

$a = 111.17543$

$b = 265.82127$

$c = 7.36979$

$d = 0.80021$

Bead 334

Date : Mon Oct 17 13:28:04 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

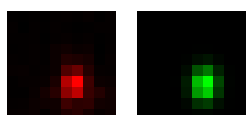
Coordinates : 20.4 μm (x), 50.1 μm (y), 8.7 μm (z)

Corresponding bead : Not found

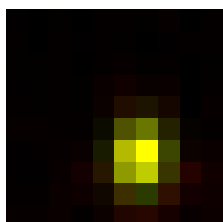
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	421 nm	223 nm
max	518 nm	535 nm	223 nm
z	1.43 μm	1.44 μm	885 nm
Asymmetry	0.786		
Theta	86.6°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.966$



Parameters:

$A = 822.394$ (brightness)

$B = 126.504$ (background)

$a = 0.810$ px

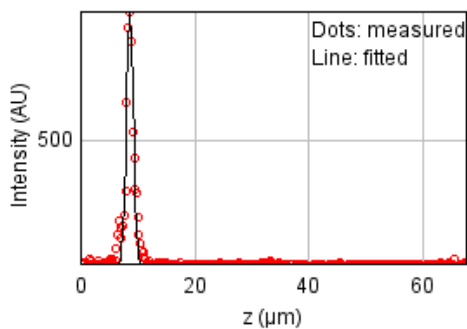
$b = 0.018$ px

$c = 0.501$ px

$x_c = 5.690$ px

$y_c = 6.286$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 127855.537

Standard deviation: 20.40754

$R^2: 0.95872$

Parameters:

$a = 115.75993$

$b = 907.58186$

$c = 8.70073$

$d = 0.60708$

Bead 335 (Rejected)

Date : Mon Oct 17 13:28:04 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -154 μm (x), 32.2 μm (y), 7.98 μm (z)

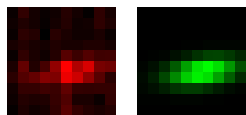
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

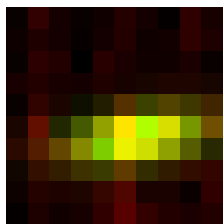
FWHM	Non corrected	Corrected	Theoretical
min	422 nm	436 nm	223 nm
max	1.11 μm	1.15 μm	223 nm
z	2.74 μm	2.75 μm	885 nm
Asymmetry	0.378		
Theta	8.3°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.852$



Parameters:

A = 119.981 (brightness)

B = 115.235 (background)

a = 0.122 px

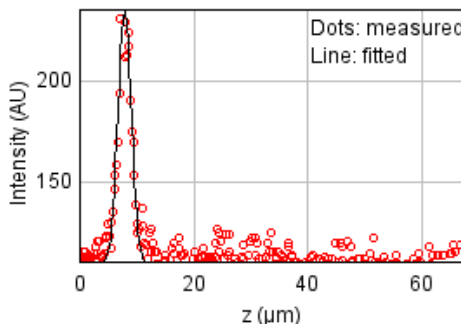
b = 0.092 px

c = 0.741 px

xc = 5.575 px

yc = 5.465 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 15088.1716

Standard deviation: 7.01050

R^2 : 0.89910

Parameters:

a = 111.07469

b = 234.74804

c = 7.98211

d = 1.16173

Bead 336

Date : Mon Oct 17 13:28:04 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

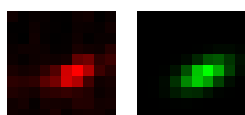
Coordinates : -136 μm (x), 9.39 μm (y), 7.6 μm (z)

Corresponding bead : Not found

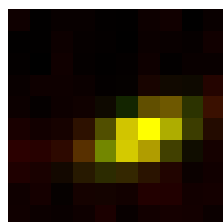
FWHM	Non corrected	Corrected	Theoretical
min	378 nm	391 nm	223 nm
max	780 nm	807 nm	223 nm
z	1.57 μm	1.58 μm	885 nm
Asymmetry	0.484		
Theta	22.5°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.942$



Parameters:

A = 246.113 (brightness)

B = 117.132 (background)

a = 0.326 px

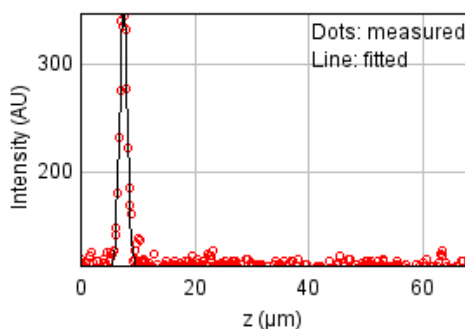
b = 0.255 px

c = 0.834 px

xc = 5.652 px

yc = 5.317 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 13367.5001

Standard deviation: 6.59866

R^2 : 0.95657

Parameters:

a = 111.96847

b = 349.96981

c = 7.59618

d = 0.66847

Bead 337 (Rejected)

Date : Mon Oct 17 13:28:04 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 140 μm (x), -25.2 μm (y), 6.5 μm (z)

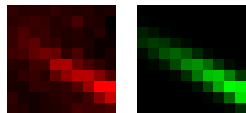
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

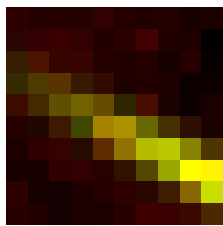
FWHM	Non corrected	Corrected	Theoretical
min	364 nm	377 nm	223 nm
max	3.74 μm	3.86 μm	223 nm
z	1.99 μm	2.0 μm	885 nm
Asymmetry	0.098		
Theta	-27.9°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.924$



Parameters:

A = 168.259 (brightness)

B = 117.890 (background)

a = 0.228 px

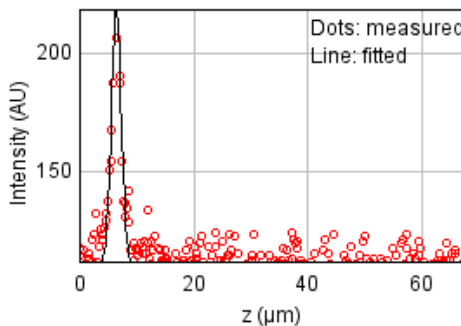
b = -0.413 px

c = 0.792 px

xc = 12.791 px

yc = 9.418 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 13948.3202

Standard deviation: 6.74049

R^2 : 0.84361

Parameters:

a = 111.79672

b = 219.30235

c = 6.50324

d = 0.84547

Bead 338

Date : Mon Oct 17 13:28:05 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

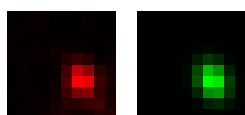
Coordinates : 54.2 μm (x), -38.9 μm (y), 8.38 μm (z)

Corresponding bead : Not found

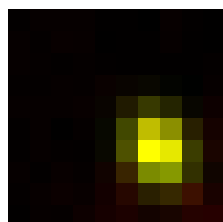
FWHM	Non corrected	Corrected	Theoretical
min	449 nm	465 nm	223 nm
max	571 nm	590 nm	223 nm
z	1.46 μm	1.46 μm	885 nm
Asymmetry	0.788		
Theta	-65.9°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.961$



Parameters:

$A = 675.875$ (brightness)

$B = 126.393$ (background)

$a = 0.622$ px

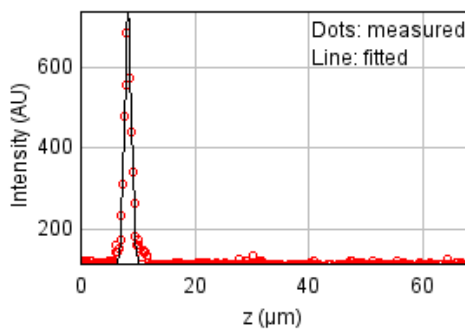
$b = -0.094$ px

$c = 0.454$ px

$x_c = 6.411$ px

$y_c = 5.914$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 33428.2157

Standard deviation: 10.43488

$R^2: 0.98248$

Parameters:

$a = 114.02617$

$b = 737.38352$

$c = 8.37572$

$d = 0.61880$

Bead 339

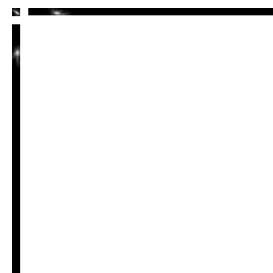
Date : Mon Oct 17 13:28:05 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 117 μm (x), -40.2 μm (y), 7.94 μm (z)

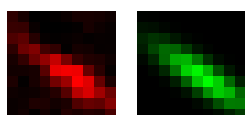
Corresponding bead : Not found



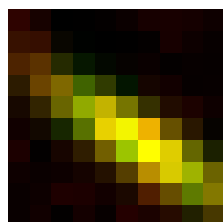
FWHM	Non corrected	Corrected	Theoretical
min	449 nm	465 nm	223 nm
max	1.74 μm	1.8 μm	223 nm
z	2.56 μm	2.57 μm	885 nm
Asymmetry	0.258		
Theta	-33.8°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.931$



Parameters:

$A = 172.576$ (brightness)

$B = 116.674$ (background)

$a = 0.236$ px

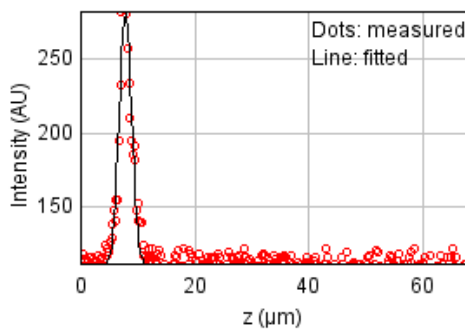
$b = -0.287$ px

$c = 0.473$ px

$x_c = 5.595$ px

$y_c = 5.636$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 18923.5797

Standard deviation: 7.85114

$R^2: 0.92725$

Parameters:

$a = 111.23396$

$b = 282.21953$

$c = 7.93767$

$d = 1.08560$

Bead 340

Date : Mon Oct 17 13:28:05 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

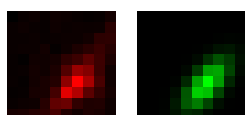
Coordinates : -113 μm (x), -57.0 μm (y), 8.07 μm (z)

Corresponding bead : Not found

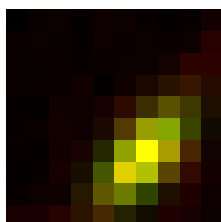
FWHM	Non corrected	Corrected	Theoretical
min	439 nm	453 nm	223 nm
max	925 nm	956 nm	223 nm
z	1.86 μm	1.86 μm	885 nm
Asymmetry	0.474		
Theta	49.9°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.938$



Parameters:

A = 337.492 (brightness)

B = 121.562 (background)

a = 0.473 px

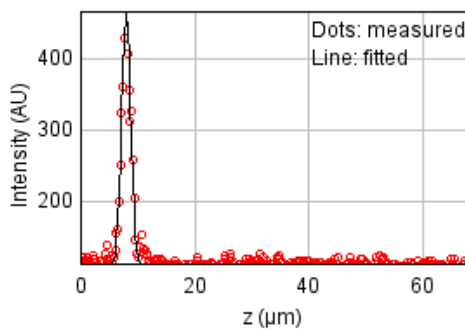
b = 0.266 px

c = 0.381 px

xc = 5.858 px

yc = 6.226 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 29233.4831

Standard deviation: 9.75823

R^2 : 0.96327

Parameters:

a = 112.11054

b = 466.94667

c = 8.06884

d = 0.78828

Bead 341 (Rejected)

Date : Mon Oct 17 13:28:05 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -44.4 μm (x), -69.4 μm (y), 8.2 μm (z)

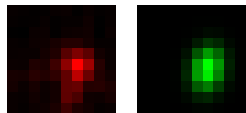
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

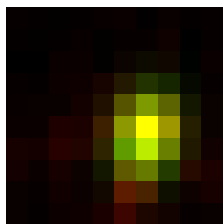
FWHM	Non corrected	Corrected	Theoretical
min	503 nm	520 nm	223 nm
max	689 nm	713 nm	223 nm
z	1.41 μm	1.41 μm	885 nm
Asymmetry	0.729		
Theta	78.4°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.896$



Parameters:

A = 378.539 (brightness)

B = 124.954 (background)

a = 0.521 px

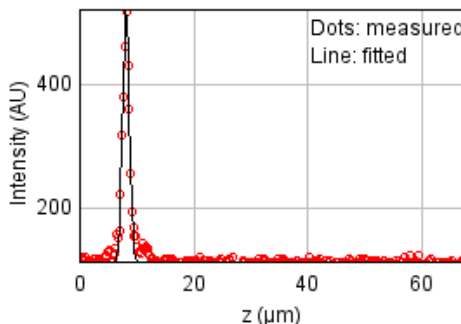
b = 0.049 px

c = 0.292 px

xc = 5.956 px

yc = 5.376 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 22842.0056

Standard deviation: 8.62577

R^2 : 0.97163

Parameters:

a = 113.72320

b = 523.57738

c = 8.20328

d = 0.59666

Bead 342 (Rejected)

Date : Mon Oct 17 13:28:05 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 39.2 μm (x), -81.9 μm (y), 6.79 μm (z)

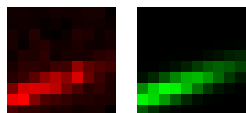
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

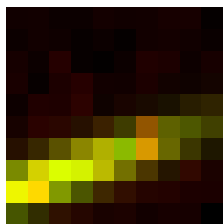
FWHM	Non corrected	Corrected	Theoretical
min	382 nm	395 nm	223 nm
max	2.47 μm	2.55 μm	223 nm
z	1.39 μm	1.4 μm	885 nm
Asymmetry	0.155		
Theta	18.8°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.936$



Parameters:

A = 135.350 (brightness)

B = 119.407 (background)

a = 0.115 px

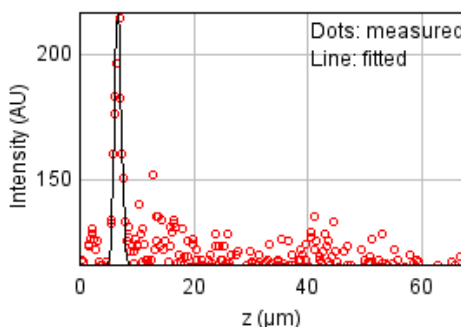
b = 0.274 px

c = 0.825 px

xc = 1.388 px

yc = 7.394 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 20428.1324

Standard deviation: 8.15728

R^2 : 0.69663

Parameters:

a = 116.24769

b = 217.10550

c = 6.79422

d = 0.59062

Bead 343

Date : Mon Oct 17 13:28:05 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 31.7 μm (x), -86.2 μm (y), 7.85 μm (z)

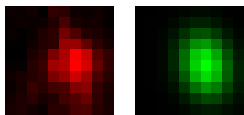
Corresponding bead : Not found



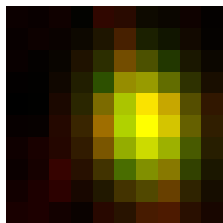
FWHM	Non corrected	Corrected	Theoretical
min	759 nm	785 nm	223 nm
max	1.02 μm	1.05 μm	223 nm
z	2.12 μm	2.13 μm	885 nm
Asymmetry	0.744		
Theta	-76.8°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.918$



Parameters:

$A = 223.651$ (brightness)

$B = 119.225$ (background)

$a = 0.227$ px

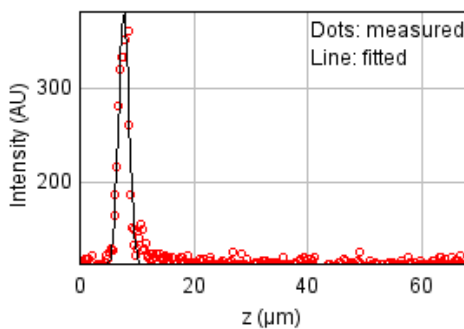
$b = -0.023$ px

$c = 0.134$ px

$x_c = 5.917$ px

$y_c = 4.915$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 30917.0189

Standard deviation: 10.03528

$R^2: 0.94228$

Parameters:

$a = 112.96465$

$b = 383.02590$

$c = 7.84555$

$d = 0.90149$

Bead 344 (Rejected)

Date : Mon Oct 17 13:28:05 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -101 μm (x), -88.2 μm (y), 29.9 μm (z)

Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	263 nm	264 nm	885 nm
Asymmetry	0.0		
Theta	0.0°		

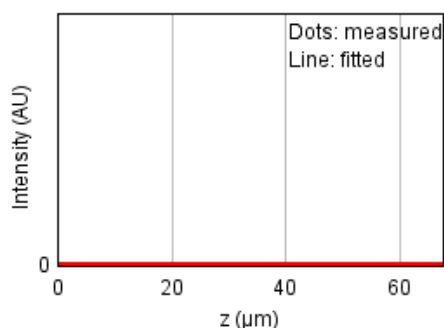
XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $y = a + (b-a) \cdot \exp(-(x-c)^2/(2 \cdot d^2))$

Z profile & fitting parameters:



Fitted on $y = a + (b-a) \cdot \exp(-(x-c)^2/(2 \cdot d^2))$

Sum of residuals squared: 0.00000E0

Standard deviation: 0.00000E0

R²: 0.00000

Parameters:

a = 0.00000E0

b = 0.00000E0

c = -0.11115

d = 0.11151

Bead 345

Date : Mon Oct 17 13:28:06 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

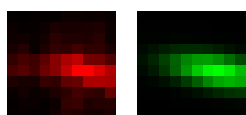
Coordinates : -53.5 μm (x), -94.4 μm (y), 9.1 μm (z)

Corresponding bead : Not found

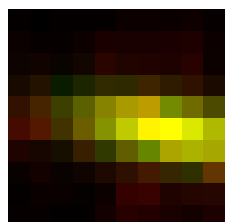
FWHM	Non corrected	Corrected	Theoretical
min	500 nm	517 nm	223 nm
max	1.56 μm	1.62 μm	223 nm
z	1.69 μm	1.69 μm	885 nm
Asymmetry	0.32		
Theta	-10.0°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.932$



Parameters:

A = 293.006 (brightness)

B = 129.431 (background)

a = 0.069 px

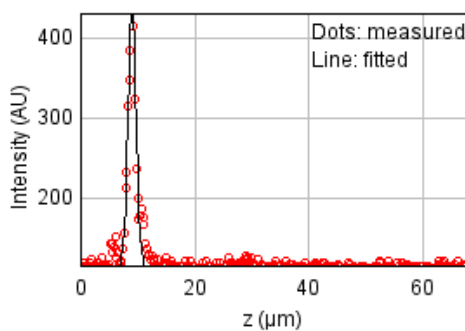
b = -0.083 px

c = 0.522 px

xc = 6.918 px

yc = 5.070 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 35075.8986

Standard deviation: 10.68895

R^2 : 0.94092

Parameters:

a = 114.24333

b = 431.24650

c = 9.09788

d = 0.71682

Bead 346

Date : Mon Oct 17 13:28:06 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

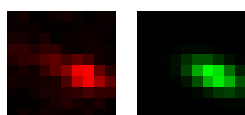
Coordinates : -143 μm (x), 90.3 μm (y), 8.24 μm (z)

Corresponding bead : Not found

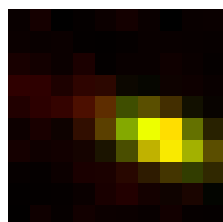
FWHM	Non corrected	Corrected	Theoretical
min	401 nm	415 nm	223 nm
max	818 nm	846 nm	223 nm
z	2.21 μm	2.22 μm	885 nm
Asymmetry	0.49		
Theta	-19.8°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.918$



Parameters:

$A = 308.546$ (brightness)

$B = 123.814$ (background)

$a = 0.273$ px

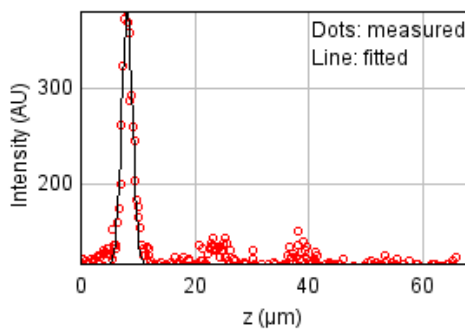
$b = -0.202$ px

$c = 0.762$ px

$x_c = 6.560$ px

$y_c = 5.414$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 37030.0743

Standard deviation: 10.98267

$R^2: 0.93220$

Parameters:

$a = 115.32772$

$b = 381.23325$

$c = 8.23618$

$d = 0.94006$

Bead 347 (Rejected)

Date : Mon Oct 17 13:28:06 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 136 μm (x), 67.0 μm (y), 7.3 μm (z)

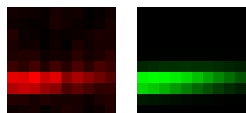
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

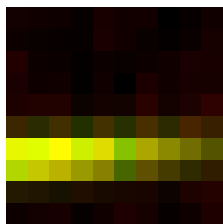
FWHM	Non corrected	Corrected	Theoretical
min	363 nm	376 nm	223 nm
max	2.93 μm	3.03 μm	223 nm
z	1.45 μm	1.46 μm	885 nm
Asymmetry	0.124		
Theta	2.9°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.958$



Parameters:

A = 172.811 (brightness)

B = 115.045 (background)

a = 0.018 px

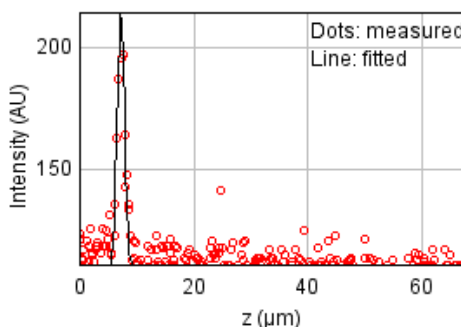
b = 0.050 px

c = 1.013 px

xc = -0.039 px

yc = 6.432 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 13190.0394

Standard deviation: 6.55472

R^2 : 0.79872

Parameters:

a = 110.52795

b = 214.82254

c = 7.30416

d = 0.61717

Bead 348

Date : Mon Oct 17 13:28:06 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

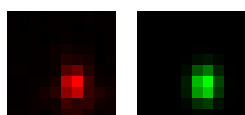
Coordinates : 20.4 μm (x), 50.1 μm (y), 8.7 μm (z)

Corresponding bead : Not found

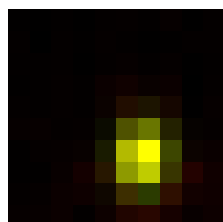
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	421 nm	223 nm
max	518 nm	535 nm	223 nm
z	1.43 μm	1.44 μm	885 nm
Asymmetry	0.786		
Theta	86.6°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.966$



Parameters:

A = 822.394 (brightness)

B = 126.504 (background)

a = 0.810 px

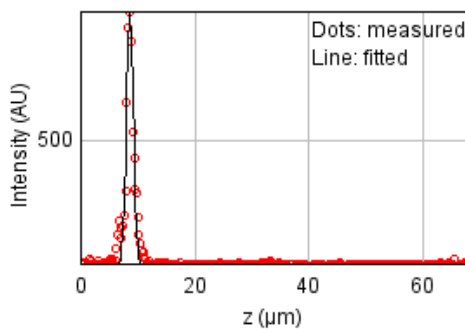
b = 0.018 px

c = 0.501 px

xc = 5.690 px

yc = 6.286 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 127855.537

Standard deviation: 20.40754

R^2 : 0.95872

Parameters:

a = 115.75993

b = 907.58186

c = 8.70073

d = 0.60708

Bead 349 (Rejected)

Date : Mon Oct 17 13:28:06 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -72.5 μm (x), 20.2 μm (y), 8.76 μm (z)

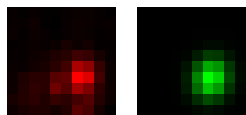
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

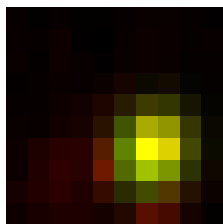
FWHM	Non corrected	Corrected	Theoretical
min	554 nm	573 nm	223 nm
max	639 nm	661 nm	223 nm
z	2.06 μm	2.07 μm	885 nm
Asymmetry	0.867		
Theta	74.3°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.856$



Parameters:

A = 436.730 (brightness)

B = 135.992 (background)

a = 0.429 px

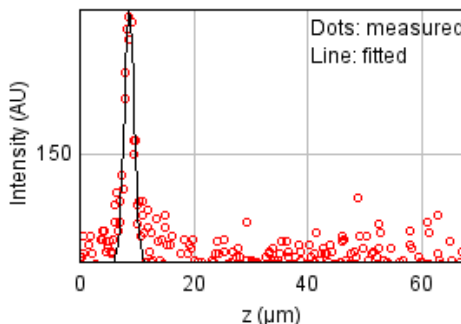
b = 0.028 px

c = 0.336 px

xc = 6.263 px

yc = 6.068 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 14869.6442

Standard deviation: 6.95955

R^2 : 0.77123

Parameters:

a = 112.85604

b = 199.11530

c = 8.76457

d = 0.87640

Bead 350 (Rejected)

Date : Mon Oct 17 13:28:06 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 34.9 μm (x), 10.1 μm (y), 9.16 μm (z)

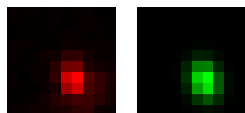
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

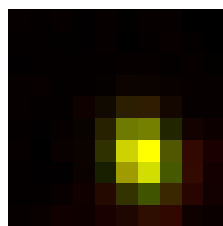
FWHM	Non corrected	Corrected	Theoretical
min	451 nm	466 nm	223 nm
max	585 nm	605 nm	223 nm
z	1.7 μm	1.71 μm	885 nm
Asymmetry	0.77		
Theta	-72.1°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.953$



Parameters:

A = 627.892 (brightness)

B = 125.432 (background)

a = 0.636 px

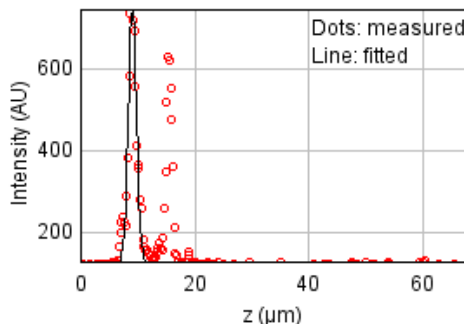
b = -0.079 px

c = 0.417 px

xc = 5.686 px

yc = 6.272 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 1244871.44

Standard deviation: 63.67853

R^2 : 0.63446

Parameters:

a = 127.85017

b = 749.27071

c = 9.16262

d = 0.72174

Bead 351

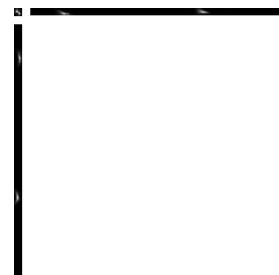
Date : Mon Oct 17 13:28:06 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 42.2 μm (x), 8.13 μm (y), 9.05 μm (z)

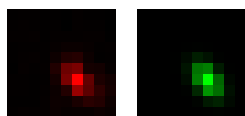
Corresponding bead : Not found



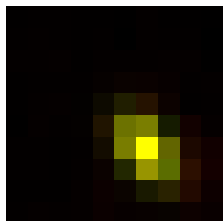
FWHM	Non corrected	Corrected	Theoretical
min	358 nm	370 nm	223 nm
max	579 nm	599 nm	223 nm
z	1.62 μm	1.62 μm	885 nm
Asymmetry	0.618		
Theta	-53.8°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.975$



Parameters:

$A = 1299.620$ (brightness)

$B = 127.822$ (background)

$a = 0.823$ px

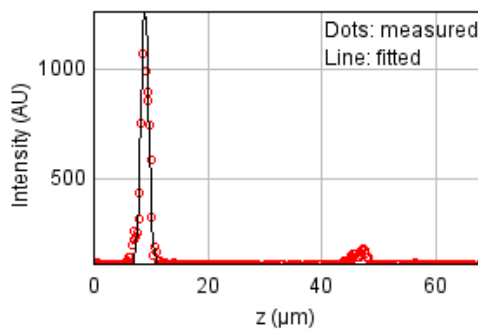
$b = -0.309$ px

$c = 0.626$ px

$x_c = 5.951$ px

$y_c = 6.044$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 324162.091

Standard deviation: 32.49465

$R^2: 0.95520$

Parameters:

$a = 118.26879$

$b = 1256.30712$

$c = 9.05485$

$d = 0.68709$

Bead 352

Date : Mon Oct 17 13:28:06 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

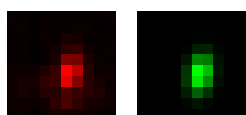
Coordinates : -31.4 μm (x), 4.34 μm (y), 9.04 μm (z)

Corresponding bead : Not found

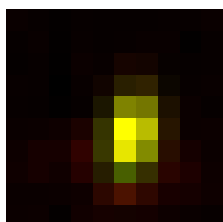
FWHM	Non corrected	Corrected	Theoretical
min	372 nm	384 nm	223 nm
max	602 nm	623 nm	223 nm
z	2.05 μm	2.05 μm	885 nm
Asymmetry	0.617		
Theta	80.3°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.942$



Parameters:

A = 723.422 (brightness)

B = 130.153 (background)

a = 0.954 px

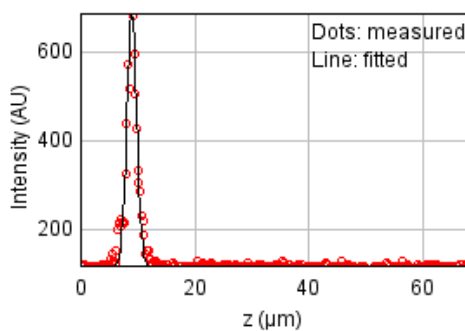
b = 0.099 px

c = 0.387 px

xc = 5.309 px

yc = 5.282 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 84468.3894

Standard deviation: 16.58738

R^2 : 0.96281

Parameters:

a = 115.71737

b = 687.85600

c = 9.04194

d = 0.86857

Bead 353

Date : Mon Oct 17 13:28:07 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

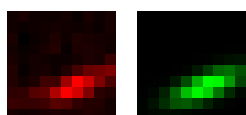
Coordinates : -150 μm (x), 4.31 μm (y), 8.04 μm (z)

Corresponding bead : Not found

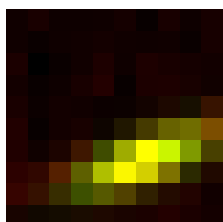
FWHM	Non corrected	Corrected	Theoretical
min	376 nm	388 nm	223 nm
max	1.12 μm	1.16 μm	223 nm
z	1.92 μm	1.92 μm	885 nm
Asymmetry	0.334		
Theta	21.0°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.945$



Parameters:

$A = 216.571$ (brightness)

$B = 114.297$ (background)

$a = 0.214$ px

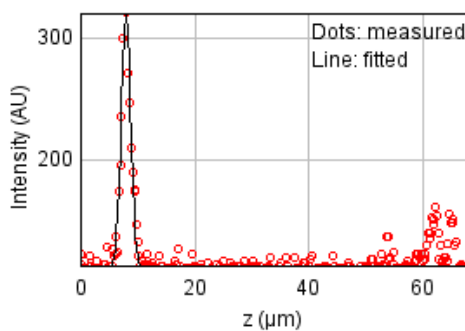
$b = 0.282$ px

$c = 0.843$ px

$x_c = 5.851$ px

$y_c = 6.428$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 40086.4996

Standard deviation: 11.42694

$R^2: 0.87053$

Parameters:

$a = 113.73132$

$b = 320.90046$

$c = 8.03576$

$d = 0.81415$

Bead 354

Date : Mon Oct 17 13:28:07 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

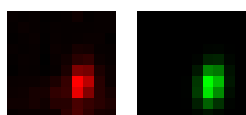
Coordinates : -31.4 μm (x), 4.34 μm (y), 9.04 μm (z)

Corresponding bead : Not found

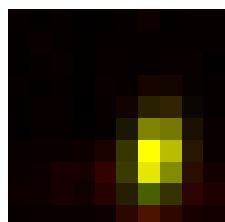
FWHM	Non corrected	Corrected	Theoretical
min	377 nm	389 nm	223 nm
max	608 nm	629 nm	223 nm
z	2.05 μm	2.05 μm	885 nm
Asymmetry	0.619		
Theta	80.3°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.942$



Parameters:

A = 721.592 (brightness)

B = 126.827 (background)

a = 0.930 px

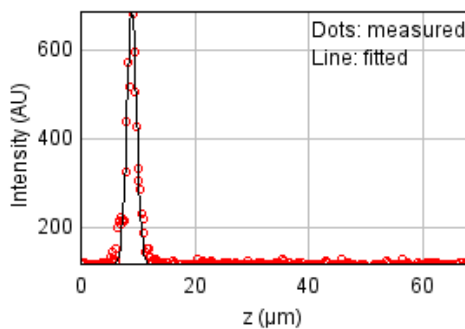
b = 0.097 px

c = 0.379 px

xc = 6.309 px

yc = 6.283 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 84468.3894

Standard deviation: 16.58738

R^2 : 0.96281

Parameters:

a = 115.71737

b = 687.85600

c = 9.04194

d = 0.86857

Bead 355 (Rejected)

Date : Mon Oct 17 13:28:07 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -5.7 μm (x), -41.4 μm (y), 8.58 μm (z)

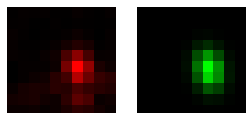
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

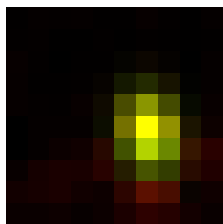
FWHM	Non corrected	Corrected	Theoretical
min	437 nm	452 nm	223 nm
max	618 nm	639 nm	223 nm
z	1.74 μm	1.74 μm	885 nm
Asymmetry	0.707		
Theta	-79.4°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.878$



Parameters:

A = 552.821 (brightness)

B = 131.992 (background)

a = 0.691 px

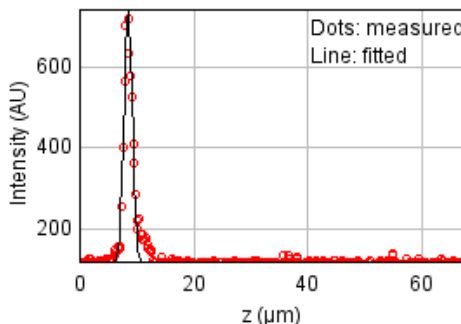
b = -0.064 px

c = 0.363 px

xc = 6.111 px

yc = 5.254 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 97816.5279

Standard deviation: 17.84995

R^2 : 0.95855

Parameters:

a = 115.58907

b = 744.68205

c = 8.57912

d = 0.73797

Bead 356

Date : Mon Oct 17 13:28:07 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

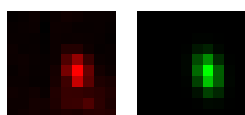
Coordinates : 20.5 μm (x), -41.8 μm (y), 7.99 μm (z)

Corresponding bead : Not found

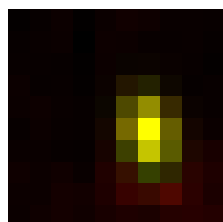
FWHM	Non corrected	Corrected	Theoretical
min	371 nm	384 nm	223 nm
max	578 nm	597 nm	223 nm
z	1.3 μm	1.31 μm	885 nm
Asymmetry	0.643		
Theta	-77.7°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.901$



Parameters:

$A = 500.042$ (brightness)

$B = 123.734$ (background)

$a = 0.947$ px

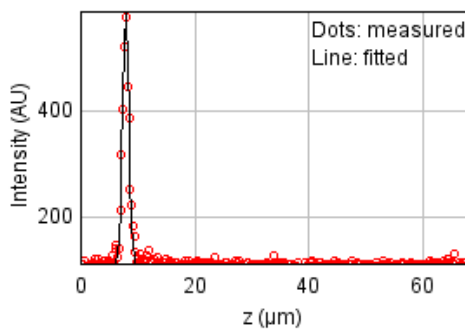
$b = -0.119$ px

$c = 0.428$ px

$x_c = 5.992$ px

$y_c = 5.194$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 23724.5107

Standard deviation: 8.79082

$R^2: 0.97612$

Parameters:

$a = 113.60760$

$b = 587.41727$

$c = 7.99007$

$d = 0.55217$

Bead 357 (Rejected)

Date : Mon Oct 17 13:28:07 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -48.8 μm (x), -57.4 μm (y), 6.8 μm (z)

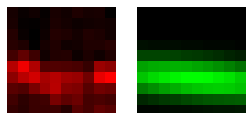
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

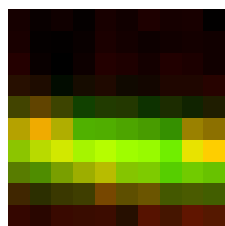
FWHM	Non corrected	Corrected	Theoretical
min	632 nm	654 nm	223 nm
max	3.77 μm	3.9 μm	223 nm
z	3.1 μm	3.11 μm	885 nm
Asymmetry	0.167		
Theta	-4.0°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.756$



Parameters:

A = 87.001 (brightness)

B = 116.606 (background)

a = -0.008 px

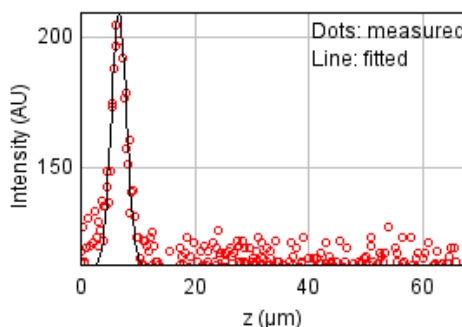
b = -0.024 px

c = 0.334 px

xc = 5.019 px

yc = 6.134 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 14703.9740

Standard deviation: 6.92067

R^2 : 0.86097

Parameters:

a = 113.10446

b = 209.09874

c = 6.79824

d = 1.31734

Bead 358 (Rejected)

Date : Mon Oct 17 13:28:07 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 127 μm (x), -60.4 μm (y), 52.8 μm (z)

Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

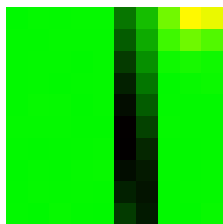
FWHM	Non corrected	Corrected	Theoretical
min	132 nm	136 nm	223 nm
max	2.5 μm	2.58 μm	223 nm
z	263 nm	264 nm	885 nm
Asymmetry	0.053		
Theta	-89.6°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.011$



Parameters:

A = -237.362 (brightness)

B = 141.596 (background)

a = 7.714 px

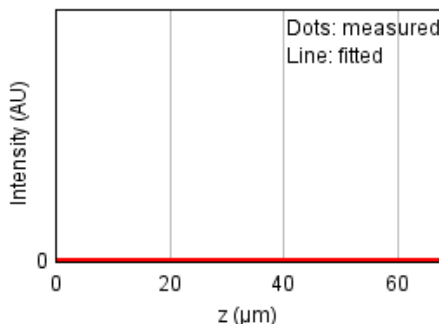
b = -0.056 px

c = 0.022 px

xc = 5.494 px

yc = 6.731 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 0.00000E0

Standard deviation: 0.00000E0

R^2 : 0.00000

Parameters:

a = 0.00000E0

b = 0.00000E0

c = -0.11115

d = 0.11151

Bead 359

Date : Mon Oct 17 13:28:08 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

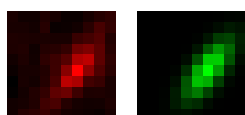
Coordinates : -99.0 μm (x), -65.1 μm (y), 7.94 μm (z)

Corresponding bead : Not found

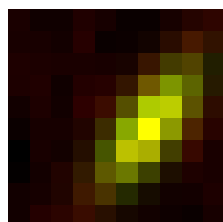
FWHM	Non corrected	Corrected	Theoretical
min	452 nm	467 nm	223 nm
max	1.1 μm	1.13 μm	223 nm
z	1.95 μm	1.96 μm	885 nm
Asymmetry	0.413		
Theta	53.5°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.932$



Parameters:

A = 187.416 (brightness)

B = 123.774 (background)

a = 0.464 px

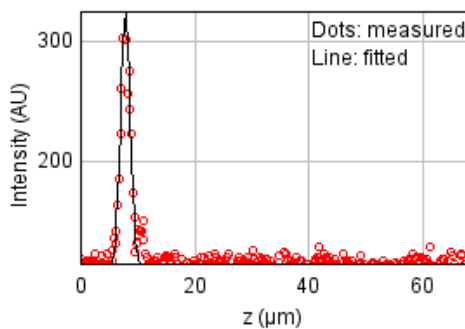
b = 0.261 px

c = 0.304 px

$x_c = 6.042$ px

$y_c = 4.835$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 19398.4663

Standard deviation: 7.94904

R^2 : 0.93693

Parameters:

a = 112.96693

b = 325.51244

c = 7.94137

d = 0.82760

Bead 360 (Rejected)

Date : Mon Oct 17 13:28:08 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 42.6 μm (x), -93.3 μm (y), 8.66 μm (z)

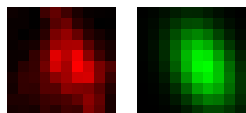
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

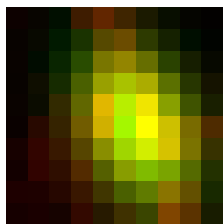
FWHM	Non corrected	Corrected	Theoretical
min	887 nm	917 nm	223 nm
max	1.38 μm	1.42 μm	223 nm
z	2.96 μm	2.97 μm	885 nm
Asymmetry	0.643		
Theta	-66.4°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.873$



Parameters:

A = 192.950 (brightness)

B = 121.680 (background)

a = 0.155 px

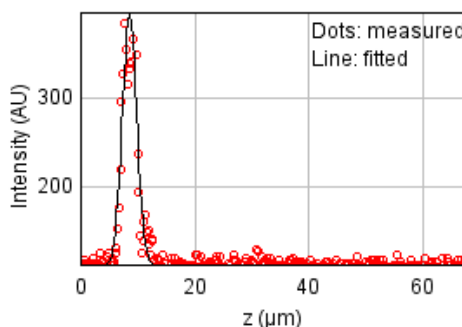
b = -0.037 px

c = 0.087 px

xc = 5.582 px

yc = 4.938 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 73174.6245

Standard deviation: 15.43871

R^2 : 0.91207

Parameters:

a = 112.02153

b = 395.44999

c = 8.65878

d = 1.25518

Bead 361

Date : Mon Oct 17 13:28:08 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

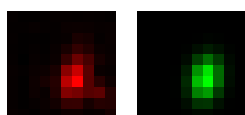
Coordinates : 36.5 μm (x), 89.2 μm (y), 9.13 μm (z)

Corresponding bead : Not found

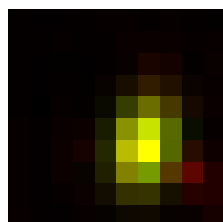
FWHM	Non corrected	Corrected	Theoretical
min	465 nm	481 nm	223 nm
max	674 nm	697 nm	223 nm
z	1.61 μm	1.61 μm	885 nm
Asymmetry	0.69		
Theta	78.4°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.928$



Parameters:

$A = 577.417$ (brightness)

$B = 124.512$ (background)

$a = 0.607$ px

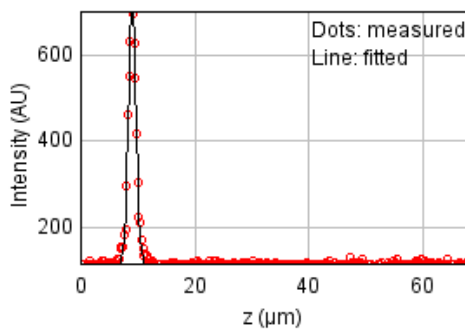
$b = 0.064$ px

$c = 0.309$ px

$x_c = 5.786$ px

$y_c = 5.735$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 21278.0504

Standard deviation: 8.32524

$R^2: 0.98880$

Parameters:

$a = 113.99332$

$b = 709.23653$

$c = 9.12641$

$d = 0.68254$

Bead 362

Date : Mon Oct 17 13:28:08 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

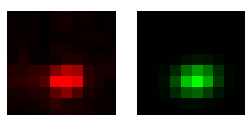
Coordinates : -128 μm (x), 38.1 μm (y), 9.03 μm (z)

Corresponding bead : Not found

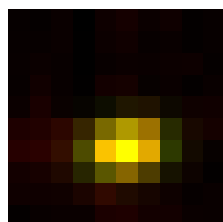
FWHM	Non corrected	Corrected	Theoretical
min	431 nm	445 nm	223 nm
max	634 nm	655 nm	223 nm
z	1.63 μm	1.64 μm	885 nm
Asymmetry	0.68		
Theta	8.0°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.946$



Parameters:

A = 376.420 (brightness)

B = 116.819 (background)

a = 0.342 px

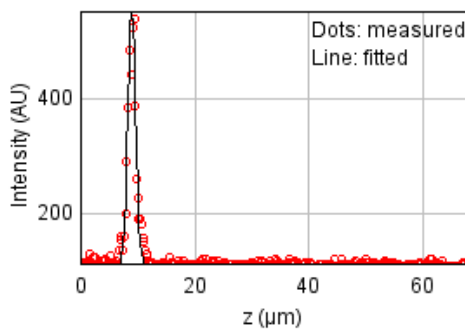
b = 0.053 px

c = 0.716 px

xc = 4.919 px

yc = 5.861 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 48465.5475

Standard deviation: 12.56456

R^2 : 0.95512

Parameters:

a = 112.52524

b = 550.51271

c = 9.03382

d = 0.69238

Bead 363

Date : Mon Oct 17 13:28:08 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

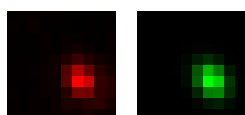
Coordinates : 50.2 μm (x), 26.2 μm (y), 9.32 μm (z)

Corresponding bead : Not found

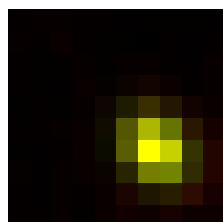
FWHM	Non corrected	Corrected	Theoretical
min	442 nm	457 nm	223 nm
max	561 nm	580 nm	223 nm
z	1.82 μm	1.83 μm	885 nm
Asymmetry	0.788		
Theta	-53.4°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.973$



Parameters:

A = 791.736 (brightness)

B = 123.242 (background)

a = 0.595 px

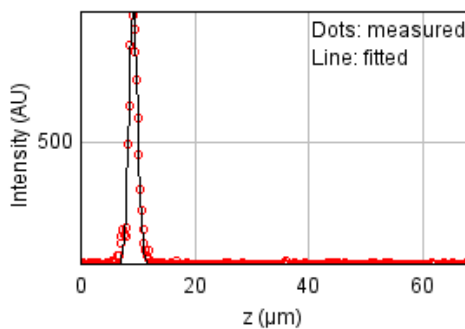
b = -0.125 px

c = 0.519 px

$x_c = 6.310$ px

$y_c = 5.896$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 69015.5621

Standard deviation: 14.99354

R^2 : 0.98246

Parameters:

a = 113.39445

b = 916.97093

c = 9.32098

d = 0.77465

Bead 364

Date : Mon Oct 17 13:28:08 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

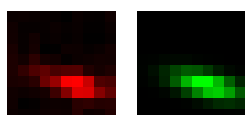
Coordinates : 101 μm (x), 23.9 μm (y), 8.6 μm (z)

Corresponding bead : Not found

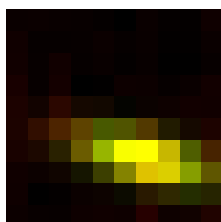
FWHM	Non corrected	Corrected	Theoretical
min	379 nm	392 nm	223 nm
max	1.07 μm	1.11 μm	223 nm
z	1.89 μm	1.9 μm	885 nm
Asymmetry	0.354		
Theta	-14.4°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.958$



Parameters:

A = 335.664 (brightness)

B = 119.749 (background)

a = 0.168 px

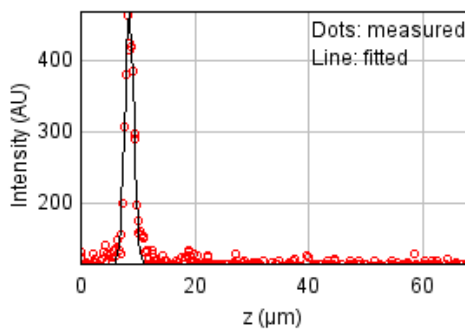
b = -0.197 px

c = 0.884 px

$x_c = 5.890$ px

$y_c = 6.322$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 41733.7672

Standard deviation: 11.65936

R^2 : 0.94921

Parameters:

a = 114.06821

b = 468.87605

c = 8.60360

d = 0.80270

Bead 365 (Rejected)

Date : Mon Oct 17 13:28:09 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -64.7 μm (x), -17.2 μm (y), 7.44 μm (z)

Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	2.63 μm	2.64 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

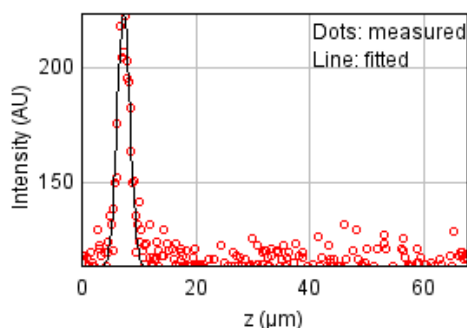
XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $y = a + (b-a) \cdot \exp(-(x-c)^2/(2 \cdot d^2))$

Z profile & fitting parameters:



Fitted on $y = a + (b-a) \cdot \exp(-(x-c)^2/(2 \cdot d^2))$

Sum of residuals squared: 16222.7547

Standard deviation: 7.26931

R²: 0.86239

Parameters:

a = 113.73457

b = 223.36003

c = 7.43912

d = 1.11505

Bead 366

Date : Mon Oct 17 13:28:09 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

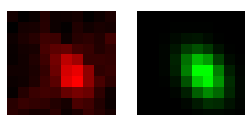
Coordinates : -133 μm (x), -17.4 μm (y), 6.4 μm (z)

Corresponding bead : Not found

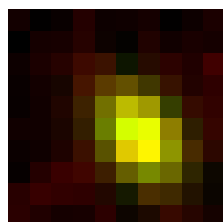
FWHM	Non corrected	Corrected	Theoretical
min	566 nm	585 nm	223 nm
max	813 nm	841 nm	223 nm
z	2.73 μm	2.74 μm	885 nm
Asymmetry	0.696		
Theta	-56.3°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.907$



Parameters:

$A = 123.539$ (brightness)

$B = 118.032$ (background)

$a = 0.352$ px

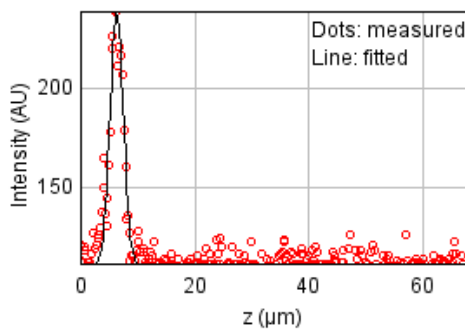
$b = -0.100$ px

$c = 0.269$ px

$x_c = 5.580$ px

$y_c = 5.280$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 16523.0966

Standard deviation: 7.33629

$R^2: 0.89464$

Parameters:

$a = 111.57189$

$b = 237.99355$

$c = 6.39583$

$d = 1.15998$

Bead 367 (Rejected)

Date : Mon Oct 17 13:28:09 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -22.2 μm (x), -62.3 μm (y), 8.64 μm (z)

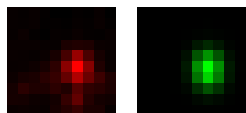
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

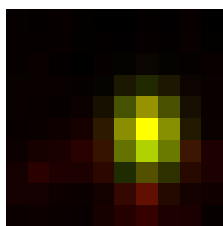
FWHM	Non corrected	Corrected	Theoretical
min	481 nm	498 nm	223 nm
max	598 nm	618 nm	223 nm
z	1.41 μm	1.41 μm	885 nm
Asymmetry	0.806		
Theta	-86.8°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.882$



Parameters:

A = 471.759 (brightness)

B = 131.008 (background)

a = 0.578 px

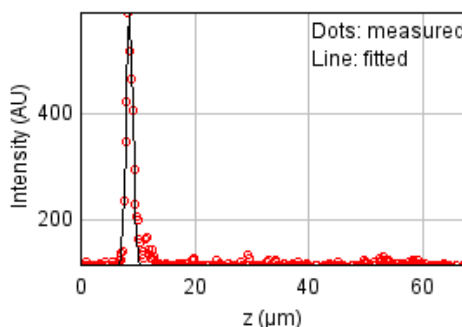
b = -0.011 px

c = 0.376 px

xc = 6.010 px

yc = 5.239 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 44036.1311

Standard deviation: 11.97665

R^2 : 0.95991

Parameters:

a = 114.39454

b = 590.10376

c = 8.63910

d = 0.59694

Bead 368 (Rejected)

Date : Mon Oct 17 13:28:09 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -132 μm (x), 93.3 μm (y), 8.82 μm (z)

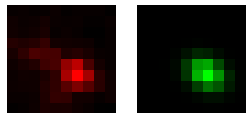
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

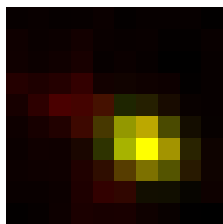
FWHM	Non corrected	Corrected	Theoretical
min	441 nm	456 nm	223 nm
max	594 nm	614 nm	223 nm
z	1.83 μm	1.84 μm	885 nm
Asymmetry	0.742		
Theta	-28.3°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.884$



Parameters:

A = 391.581 (brightness)

B = 127.745 (background)

a = 0.450 px

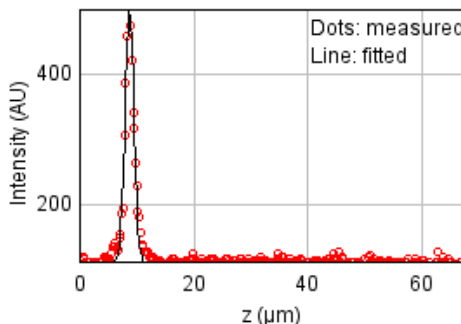
b = -0.130 px

c = 0.621 px

xc = 5.839 px

yc = 5.806 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 26137.6049

Standard deviation: 9.22707

R^2 : 0.97185

Parameters:

a = 111.59010

b = 498.73939

c = 8.81567

d = 0.77900

Bead 369 (Rejected)

Date : Mon Oct 17 13:28:09 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -2.12 μm (x), 92.8 μm (y), 8.63 μm (z)

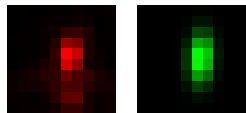
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

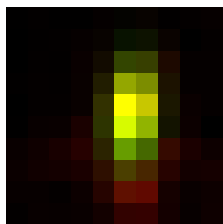
FWHM	Non corrected	Corrected	Theoretical
min	376 nm	388 nm	223 nm
max	778 nm	804 nm	223 nm
z	1.12 μm	1.12 μm	885 nm
Asymmetry	0.483		
Theta	86.8°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.868$



Parameters:

A = 602.479 (brightness)

B = 135.080 (background)

a = 0.948 px

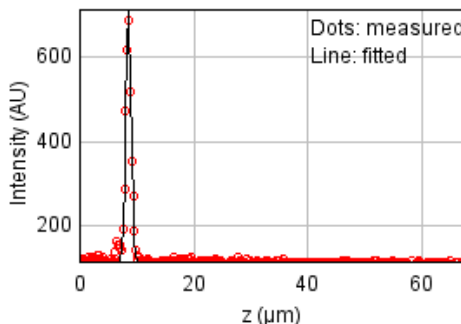
b = 0.040 px

c = 0.224 px

xc = 5.352 px

yc = 4.392 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 24237.3821

Standard deviation: 8.88533

R^2 : 0.98227

Parameters:

a = 114.86762

b = 715.20073

c = 8.62958

d = 0.47409

Bead 370 (Rejected)

Date : Mon Oct 17 13:28:09 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -100 μm (x), 83.2 μm (y), 9.94 μm (z)

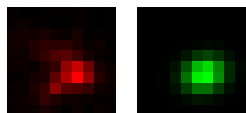
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

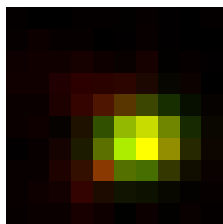
FWHM	Non corrected	Corrected	Theoretical
min	514 nm	531 nm	223 nm
max	645 nm	667 nm	223 nm
z	2.27 μm	2.28 μm	885 nm
Asymmetry	0.796		
Theta	15.2°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.860$



Parameters:

A = 565.455 (brightness)

B = 133.812 (background)

a = 0.335 px

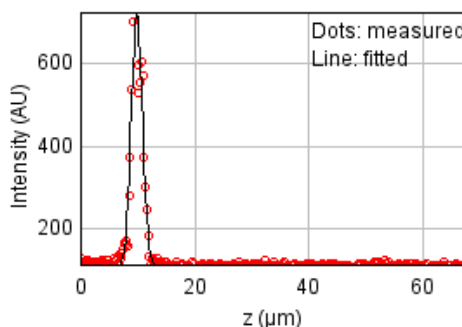
b = 0.047 px

c = 0.496 px

xc = 5.656 px

yc = 5.687 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 117734.718

Standard deviation: 19.58317

R^2 : 0.95895

Parameters:

a = 112.56893

b = 722.66528

c = 9.94076

d = 0.96597

Bead 371

Date : Mon Oct 17 13:28:09 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

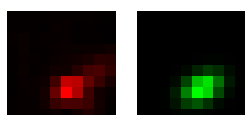
Coordinates : 88.1 μm (x), 81.0 μm (y), 9.46 μm (z)

Corresponding bead : Not found

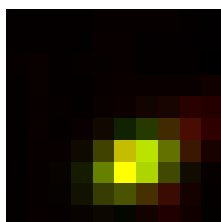
FWHM	Non corrected	Corrected	Theoretical
min	409 nm	423 nm	223 nm
max	622 nm	643 nm	223 nm
z	1.66 μm	1.66 μm	885 nm
Asymmetry	0.657		
Theta	26.5°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.920$



Parameters:

A = 642.520 (brightness)

B = 123.975 (background)

a = 0.437 px

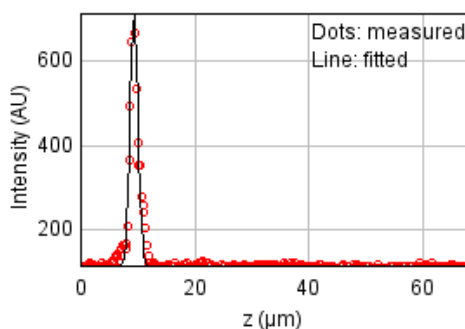
b = 0.182 px

c = 0.710 px

$x_c = 5.459$ px

$y_c = 6.595$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 87664.6158

Standard deviation: 16.89830

R^2 : 0.95667

Parameters:

a = 114.64277

b = 710.06293

c = 9.45704

d = 0.70356

Bead 372 (Rejected)

Date : Mon Oct 17 13:28:09 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 79.8 μm (x), 79.9 μm (y), 7.53 μm (z)

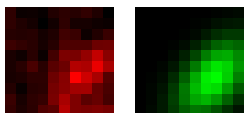
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

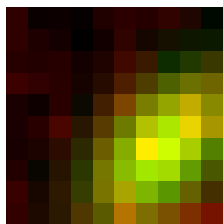
FWHM	Non corrected	Corrected	Theoretical
min	855 nm	883 nm	223 nm
max	1.45 μm	1.5 μm	223 nm
z	1.24 μm	1.24 μm	885 nm
Asymmetry	0.587		
Theta	49.0°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.815$



Parameters:

A = 81.809 (brightness)

B = 122.618 (background)

a = 0.132 px

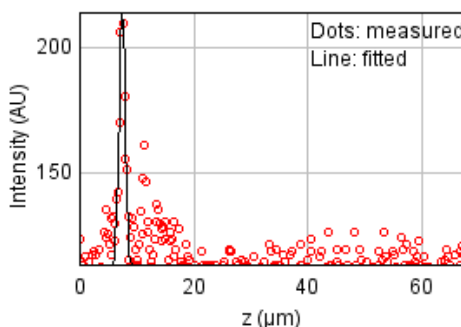
b = 0.060 px

c = 0.115 px

xc = 6.707 px

yc = 6.037 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 23879.8377

Standard deviation: 8.81955

R^2 : 0.63625

Parameters:

a = 113.31723

b = 214.00215

c = 7.53164

d = 0.52589

Bead 373

Date : Mon Oct 17 13:28:10 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

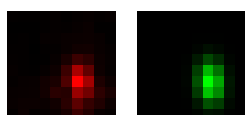
Coordinates : -2.15 μm (x), 61.1 μm (y), 9.54 μm (z)

Corresponding bead : Not found

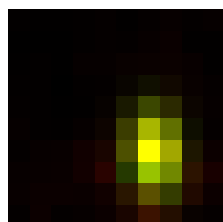
FWHM	Non corrected	Corrected	Theoretical
min	411 nm	425 nm	223 nm
max	665 nm	688 nm	223 nm
z	1.66 μm	1.67 μm	885 nm
Asymmetry	0.618		
Theta	-86.3°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.953$



Parameters:

A = 746.222 (brightness)

B = 125.687 (background)

a = 0.793 px

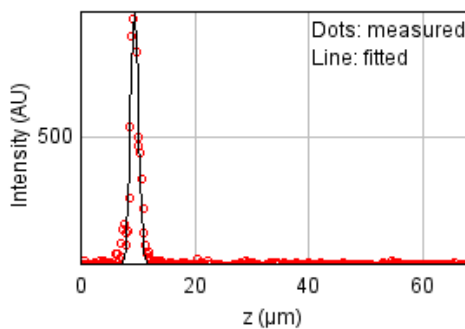
b = -0.031 px

c = 0.305 px

xc = 6.237 px

yc = 6.078 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 132229.931

Standard deviation: 20.75371

R^2 : 0.96089

Parameters:

a = 115.40755

b = 884.99226

c = 9.53630

d = 0.70691

Bead 374 (Rejected)

Date : Mon Oct 17 13:28:10 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -152 μm (x), 56.6 μm (y), 7.85 μm (z)

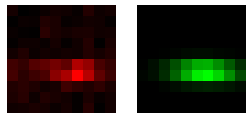
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

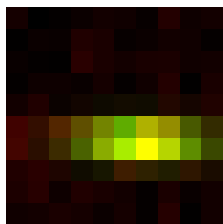
FWHM	Non corrected	Corrected	Theoretical
min	336 nm	347 nm	223 nm
max	1.05 μm	1.09 μm	223 nm
z	1.81 μm	1.82 μm	885 nm
Asymmetry	0.319		
Theta	-1.3°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.875$



Parameters:

A = 124.087 (brightness)

B = 115.777 (background)

a = 0.122 px

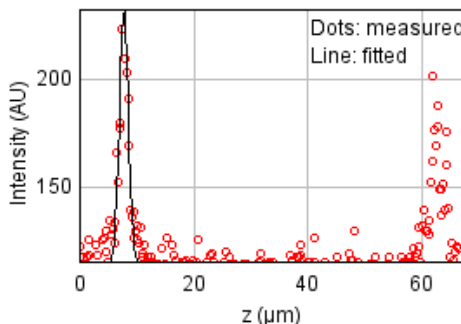
b = -0.025 px

c = 1.189 px

xc = 5.717 px

yc = 5.648 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 58874.1958

Standard deviation: 13.84820

R^2 : 0.58185

Parameters:

a = 115.44191

b = 232.87409

c = 7.84637

d = 0.76823

Bead 375

Date : Mon Oct 17 13:28:10 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

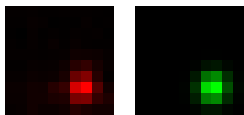
Coordinates : -32.9 μm (x), 35.9 μm (y), 9.92 μm (z)

Corresponding bead : Not found

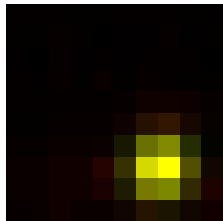
FWHM	Non corrected	Corrected	Theoretical
min	447 nm	462 nm	223 nm
max	468 nm	484 nm	223 nm
z	1.61 μm	1.62 μm	885 nm
Asymmetry	0.955		
Theta	70.4°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.971$



Parameters:

$A = 817.785$ (brightness)

$B = 127.034$ (background)

$a = 0.666$ px

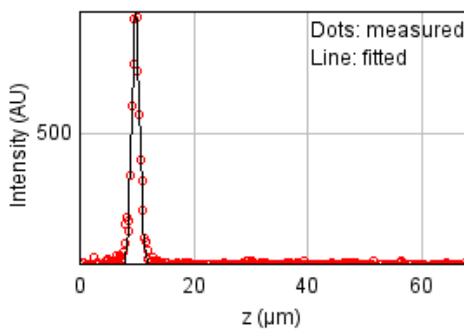
$b = 0.019$ px

$c = 0.620$ px

$x_c = 6.623$ px

$y_c = 7.009$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 56569.5021

Standard deviation: 13.57444

$R^2 = 0.98143$

Parameters:

$a = 114.73860$

$b = 864.31842$

$c = 9.91727$

$d = 0.68503$

Bead 376 (Rejected)

Date : Mon Oct 17 13:28:10 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 34.9 μm (x), 10.1 μm (y), 9.16 μm (z)

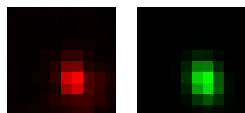
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

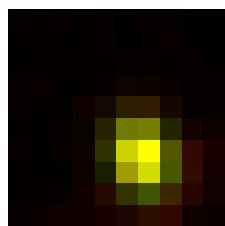
FWHM	Non corrected	Corrected	Theoretical
min	451 nm	466 nm	223 nm
max	585 nm	605 nm	223 nm
z	1.7 μm	1.71 μm	885 nm
Asymmetry	0.77		
Theta	-72.1°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.953$



Parameters:

A = 627.892 (brightness)

B = 125.432 (background)

a = 0.636 px

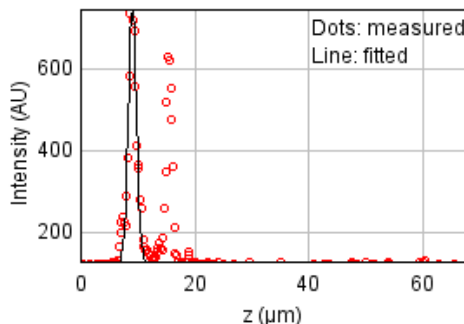
b = -0.079 px

c = 0.417 px

xc = 5.686 px

yc = 6.272 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 1244871.44

Standard deviation: 63.67853

R^2 : 0.63446

Parameters:

a = 127.85017

b = 749.27071

c = 9.16262

d = 0.72174

Bead 377

Date : Mon Oct 17 13:28:10 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

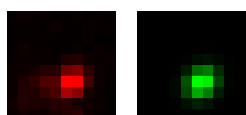
Coordinates : -89.7 μm (x), -12.1 μm (y), 9.3 μm (z)

Corresponding bead : Not found

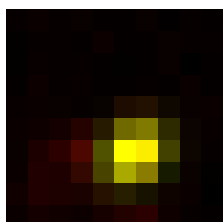
FWHM	Non corrected	Corrected	Theoretical
min	423 nm	437 nm	223 nm
max	511 nm	528 nm	223 nm
z	1.77 μm	1.77 μm	885 nm
Asymmetry	0.829		
Theta	39.5°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
 $R^2 = 0.935$



Parameters:

A = 650.617 (brightness)

B = 128.329 (background)

a = 0.610 px

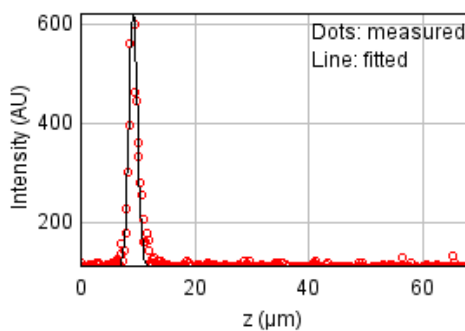
b = 0.115 px

c = 0.655 px

$x_c = 5.415$ px

$y_c = 6.109$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 62166.6302

Standard deviation: 14.23015

R^2 : 0.96034

Parameters:

a = 113.38838

b = 622.68782

c = 9.30457

d = 0.74970

Bead 378 (Rejected)

Date : Mon Oct 17 13:28:10 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 147 μm (x), -13.1 μm (y), 7.28 μm (z)

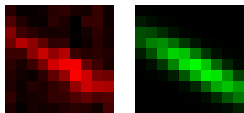
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

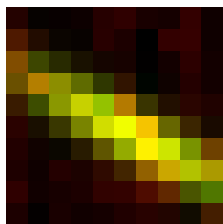
FWHM	Non corrected	Corrected	Theoretical
min	429 nm	443 nm	223 nm
max	2.19 μm	2.26 μm	223 nm
z	3.38 μm	3.39 μm	885 nm
Asymmetry	0.196		
Theta	-29.2°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.899$



Parameters:

A = 103.286 (brightness)

B = 111.364 (background)

a = 0.195 px

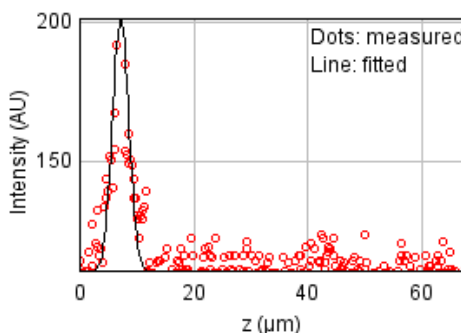
b = -0.299 px

c = 0.563 px

xc = 5.402 px

yc = 5.368 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 18924.7596

Standard deviation: 7.85138

R^2 : 0.82145

Parameters:

a = 110.81532

b = 201.07098

c = 7.27612

d = 1.43422

Bead 379 (Rejected)

Date : Mon Oct 17 13:28:11 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 146 μm (x), -20.6 μm (y), 7.92 μm (z)

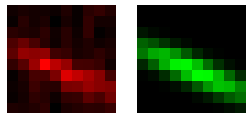
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

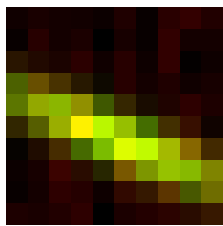
FWHM	Non corrected	Corrected	Theoretical
min	416 nm	430 nm	223 nm
max	2.18 μm	2.25 μm	223 nm
z	1.88 μm	1.89 μm	885 nm
Asymmetry	0.191		
Theta	-23.4°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.901$



Parameters:

A = 91.218 (brightness)

B = 110.697 (background)

a = 0.146 px

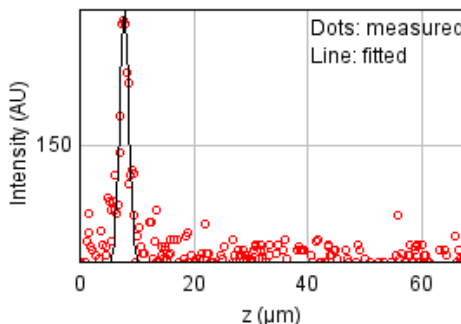
b = -0.272 px

c = 0.659 px

xc = 4.705 px

yc = 5.584 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 13152.9328

Standard deviation: 6.54549

R^2 : 0.78380

Parameters:

a = 109.52583

b = 197.39017

c = 7.92203

d = 0.80016

Bead 380 (Rejected)

Date : Mon Oct 17 13:28:11 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 97.1 μm (x), -36.4 μm (y), 6.32 μm (z)

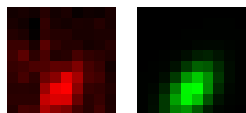
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

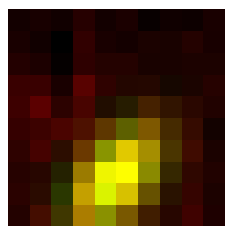
FWHM	Non corrected	Corrected	Theoretical
min	559 nm	578 nm	223 nm
max	936 nm	968 nm	223 nm
z	4.34 μm	4.36 μm	885 nm
Asymmetry	0.597		
Theta	52.3°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.902$



Parameters:

A = 148.908 (brightness)

B = 124.470 (background)

a = 0.326 px

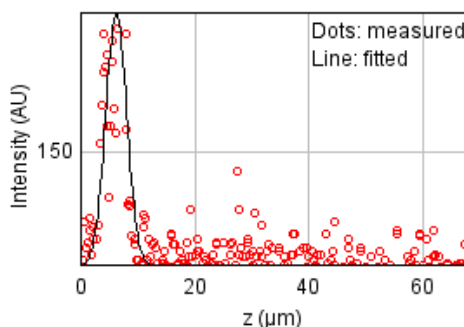
b = 0.134 px

c = 0.256 px

xc = 4.455 px

yc = 7.246 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 29683.6745

Standard deviation: 9.83308

R^2 : 0.76511

Parameters:

a = 111.96934

b = 196.84933

c = 6.32477

d = 1.84352

Bead 381 (Rejected)

Date : Mon Oct 17 13:28:11 PDT 2022

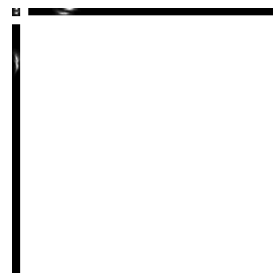
Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 80.4 μm (x), 79.5 μm (y), 9.44 μm (z)

Corresponding bead : Not found

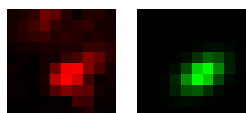
Reason of rejection : R or C parameter off limits.



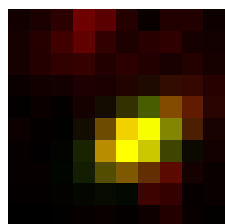
FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	695 nm	719 nm	223 nm
z	2.07 μm	2.07 μm	885 nm
Asymmetry	0.604		
Theta	32.2°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.796$



Parameters:

A = 427.705 (brightness)

B = 145.985 (background)

a = 0.415 px

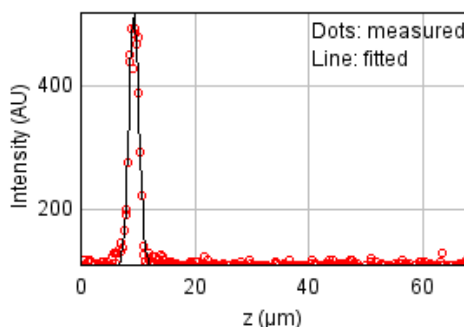
b = 0.218 px

c = 0.624 px

xc = 5.475 px

yc = 5.493 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 39332.9229

Standard deviation: 11.31902

R^2 : 0.96552

Parameters:

a = 111.91129

b = 516.01381

c = 9.44334

d = 0.87752

Bead 382

Date : Mon Oct 17 13:28:11 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

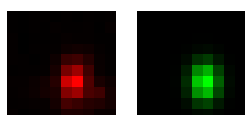
Coordinates : 27.9 μm (x), 70.6 μm (y), 9.68 μm (z)

Corresponding bead : Not found

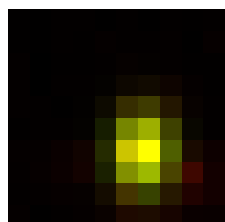
FWHM	Non corrected	Corrected	Theoretical
min	463 nm	478 nm	223 nm
max	617 nm	638 nm	223 nm
z	1.55 μm	1.55 μm	885 nm
Asymmetry	0.75		
Theta	88.9°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.961$



Parameters:

A = 979.042 (brightness)

B = 128.781 (background)

a = 0.627 px

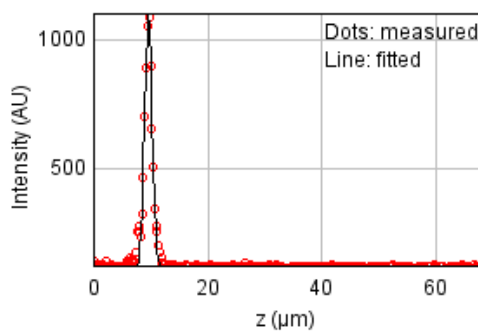
b = 0.005 px

c = 0.352 px

xc = 5.706 px

yc = 6.043 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 85263.8176

Standard deviation: 16.66530

R^2 : 0.98324

Parameters:

a = 114.98174

b = 1104.30116

c = 9.68417

d = 0.65708

Bead 383 (Rejected)

Date : Mon Oct 17 13:28:11 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -82.4 μm (x), 26.7 μm (y), 10.4 μm (z)

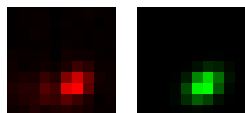
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

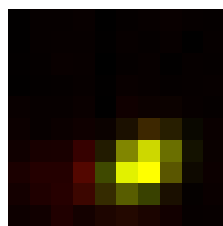
FWHM	Non corrected	Corrected	Theoretical
min	386 nm	399 nm	223 nm
max	554 nm	573 nm	223 nm
z	3.5 μm	3.51 μm	885 nm
Asymmetry	0.697		
Theta	32.2°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.929$



Parameters:

A = 670.883 (brightness)

B = 130.730 (background)

a = 0.569 px

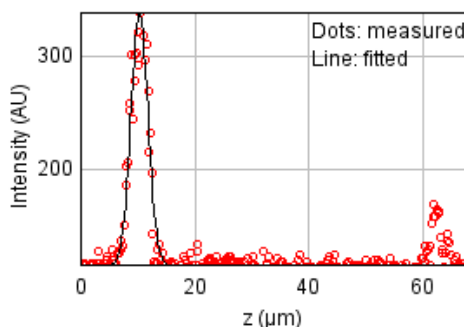
b = 0.209 px

c = 0.769 px

xc = 5.659 px

yc = 6.702 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 47402.2685

Standard deviation: 12.42597

R^2 : 0.92051

Parameters:

a = 115.96712

b = 338.94482

c = 10.39533

d = 1.48595

Bead 384 (Rejected)

Date : Mon Oct 17 13:28:11 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 113 um (x), -4.72 um (y), 7.0 um (z)

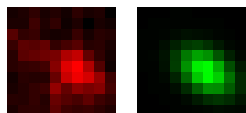
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

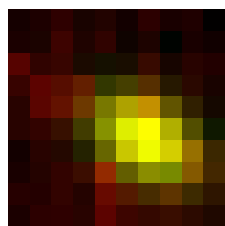
FWHM	Non corrected	Corrected	Theoretical
min	620 nm	641 nm	223 nm
max	931 nm	962 nm	223 nm
z	3.2 um	3.21 um	885 nm
Asymmetry	0.666		
Theta	-34.2°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.832$



Parameters:

A = 103.961 (brightness)

B = 117.439 (background)

a = 0.216 px

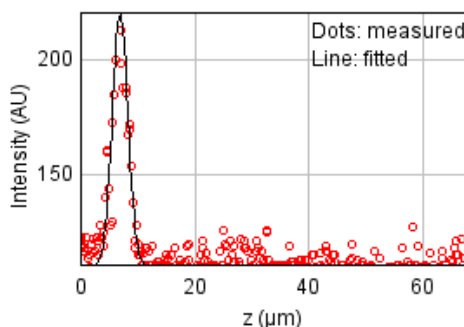
b = -0.090 px

c = 0.287 px

xc = 5.814 px

yc = 5.432 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 19772.4432

Standard deviation: 8.02529

R^2 : 0.86206

Parameters:

a = 110.27678

b = 220.49800

c = 7.00025

d = 1.35906

Bead 385

Date : Mon Oct 17 13:28:12 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

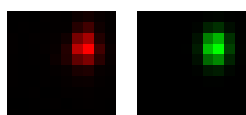
Coordinates : -62.5 μm (x), -60.7 μm (y), 53.3 μm (z)

Corresponding bead : Not found

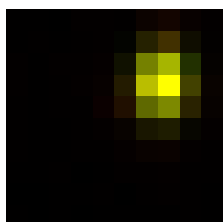
FWHM	Non corrected	Corrected	Theoretical
min	402 nm	415 nm	223 nm
max	525 nm	543 nm	223 nm
z	1.17 μm	1.18 μm	885 nm
Asymmetry	0.764		
Theta	86.9°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.990$



Parameters:

A = 2076.940 (brightness)

B = 125.914 (background)

a = 0.831 px

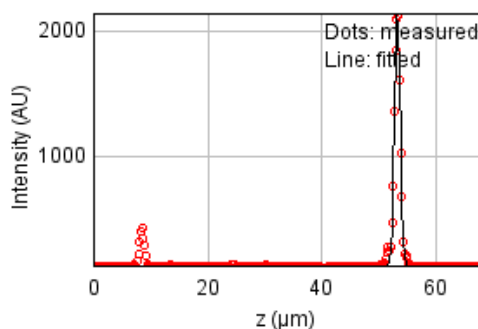
b = 0.019 px

c = 0.487 px

xc = 6.683 px

yc = 2.869 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 445074.014

Standard deviation: 38.07562

R^2 : 0.97306

Parameters:

a = 123.62181

b = 2153.06080

c = 53.30069

d = 0.49736

Bead 386 (Rejected)

Date : Mon Oct 17 13:28:12 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -135 μm (x), -61.0 μm (y), 8.59 μm (z)

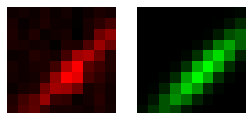
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

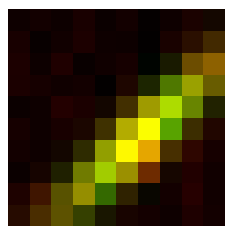
FWHM	Non corrected	Corrected	Theoretical
min	398 nm	411 nm	223 nm
max	1.77 μm	1.83 μm	223 nm
z	2.17 μm	2.17 μm	885 nm
Asymmetry	0.225		
Theta	43.8°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.897$



Parameters:

A = 137.559 (brightness)

B = 115.299 (background)

a = 0.428 px

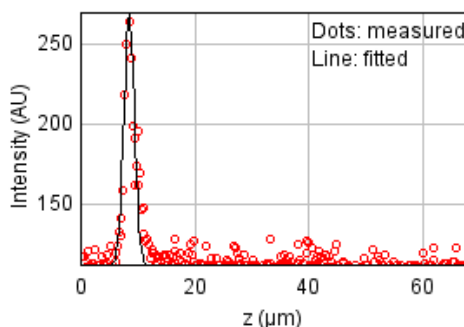
b = 0.402 px

c = 0.463 px

xc = 5.637 px

yc = 5.352 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 25437.6323

Standard deviation: 9.10268

R^2 : 0.87316

Parameters:

a = 111.93464

b = 269.50527

c = 8.58972

d = 0.91969

Bead 387 (Rejected)

Date : Mon Oct 17 13:28:12 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -146 μm (x), -67.4 μm (y), 56.8 μm (z)

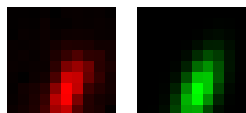
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

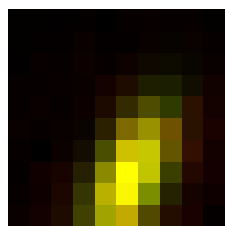
FWHM	Non corrected	Corrected	Theoretical
min	518 nm	535 nm	223 nm
max	1.16 μm	1.19 μm	223 nm
z	1.13 μm	1.13 μm	885 nm
Asymmetry	0.448		
Theta	67.0°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.983$



Parameters:

A = 538.458 (brightness)

B = 122.063 (background)

a = 0.439 px

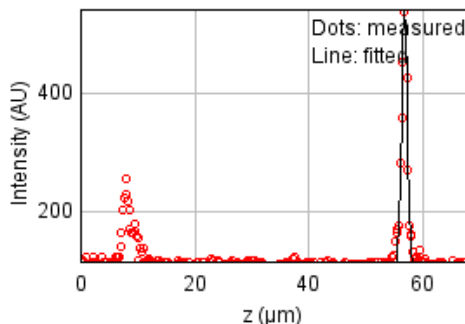
b = 0.144 px

c = 0.162 px

xc = 5.119 px

yc = 7.262 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 125503.823

Standard deviation: 20.21898

R^2 : 0.84472

Parameters:

a = 115.72847

b = 541.92176

c = 56.80141

d = 0.47851

Bead 388

Date : Mon Oct 17 13:28:12 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

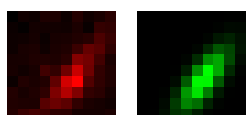
Coordinates : -116 μm (x), -72.8 μm (y), 9.1 μm (z)

Corresponding bead : Not found

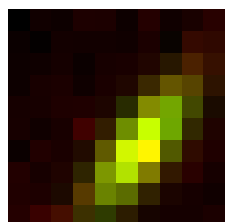
FWHM	Non corrected	Corrected	Theoretical
min	431 nm	446 nm	223 nm
max	1.15 μm	1.18 μm	223 nm
z	2.01 μm	2.02 μm	885 nm
Asymmetry	0.376		
Theta	53.5°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.912$



Parameters:

$A = 224.029$ (brightness)

$B = 125.667$ (background)

$a = 0.503$ px

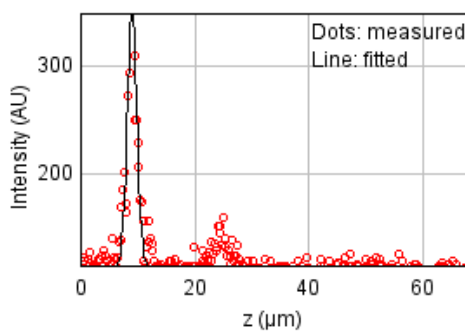
$b = 0.296$ px

$c = 0.322$ px

$x_c = 5.611$ px

$y_c = 5.798$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 46749.2907

Standard deviation: 12.34009

$R^2: 0.88448$

Parameters:

$a = 114.99736$

$b = 348.24078$

$c = 9.09784$

$d = 0.85486$

Bead 389

Date : Mon Oct 17 13:28:12 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

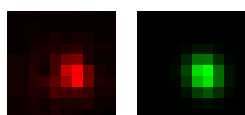
Coordinates : -73.1 μm (x), 74.9 μm (y), 9.83 μm (z)

Corresponding bead : Not found

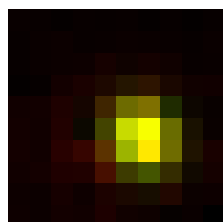
FWHM	Non corrected	Corrected	Theoretical
min	499 nm	516 nm	223 nm
max	561 nm	580 nm	223 nm
z	1.77 μm	1.78 μm	885 nm
Asymmetry	0.889		
Theta	-57.8°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.941$



Parameters:

A = 434.949 (brightness)

B = 125.269 (background)

a = 0.506 px

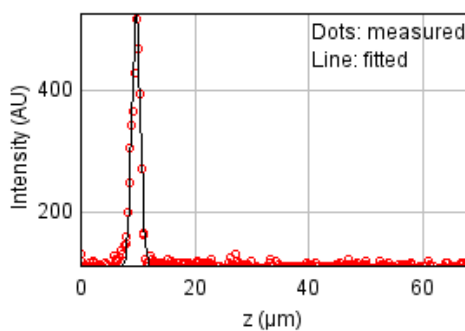
b = -0.051 px

c = 0.458 px

$x_c = 5.687$ px

$y_c = 5.360$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 42628.9954

Standard deviation: 11.78375

R^2 : 0.95834

Parameters:

a = 113.89181

b = 524.65335

c = 9.82524

d = 0.75090

Bead 390

Date : Mon Oct 17 13:28:12 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

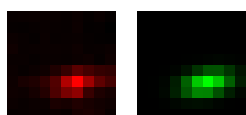
Coordinates : 106 um (x), 66.0 um (y), 9.74 um (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	380 nm	393 nm	223 nm
max	778 nm	805 nm	223 nm
z	2.01 um	2.02 um	885 nm
Asymmetry	0.488		
Theta	10.6°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.959$



Parameters:

A = 472.813 (brightness)

B = 120.710 (background)

a = 0.246 px

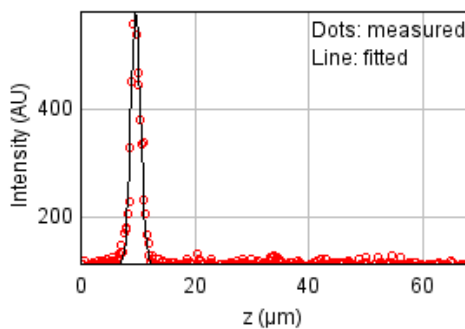
b = 0.129 px

c = 0.906 px

xc = 5.918 px

yc = 6.143 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 47921.6111

Standard deviation: 12.49386

R^2 : 0.96754

Parameters:

a = 113.73138

b = 579.81728

c = 9.74152

d = 0.85430

Bead 391

Date : Mon Oct 17 13:28:12 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

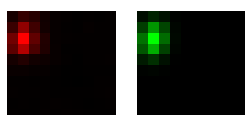
Coordinates : -117 μm (x), 24.8 μm (y), 63.3 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	398 nm	411 nm	223 nm
max	544 nm	563 nm	223 nm
z	1.13 μm	1.14 μm	885 nm
Asymmetry	0.731		
Theta	82.6°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.982$



Parameters:

A = 1417.266 (brightness)

B = 117.942 (background)

a = 0.841 px

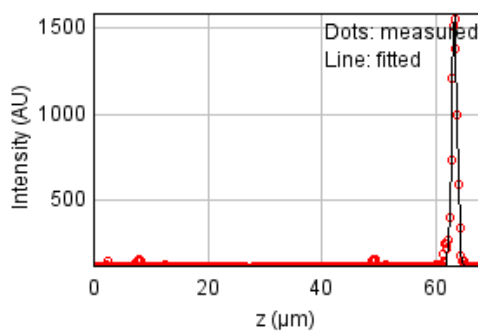
b = 0.050 px

c = 0.459 px

$x_c = 0.975$ px

$y_c = 2.080$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 83322.1592

Standard deviation: 16.47446

R^2 : 0.98994

Parameters:

a = 117.15529

b = 1590.04503

c = 63.30974

d = 0.48107

Bead 392

Date : Mon Oct 17 13:28:13 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

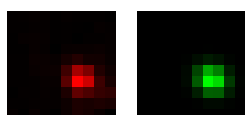
Coordinates : 75.1 μm (x), 12.4 μm (y), 9.86 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	426 nm	441 nm	223 nm
max	487 nm	503 nm	223 nm
z	1.69 μm	1.69 μm	885 nm
Asymmetry	0.875		
Theta	-25.9°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.968$



Parameters:

$A = 721.568$ (brightness)

$B = 119.734$ (background)

$a = 0.599$ px

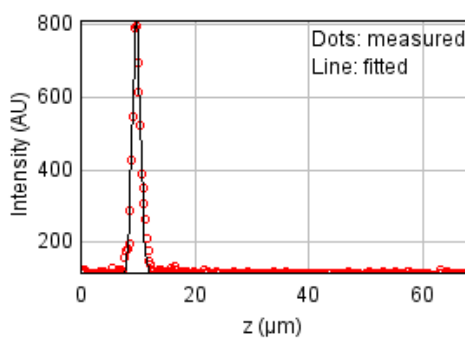
$b = -0.068$ px

$c = 0.705$ px

$x_c = 6.351$ px

$y_c = 5.831$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 88783.3925

Standard deviation: 17.00578

$R^2: 0.96818$

Parameters:

$a = 114.50094$

$b = 811.67074$

$c = 9.86121$

$d = 0.71666$

Bead 393 (Rejected)

Date : Mon Oct 17 13:28:13 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 146 μm (x), -20.6 μm (y), 7.92 μm (z)

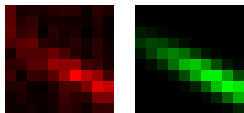
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

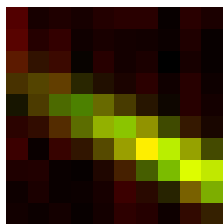
FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	2.43 μm	2.51 μm	223 nm
z	1.88 μm	1.89 μm	885 nm
Asymmetry	0.161		
Theta	-26.7°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.851$



Parameters:

A = 88.843 (brightness)

B = 111.774 (background)

a = 0.196 px

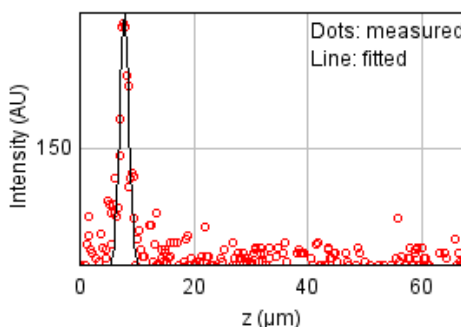
b = -0.344 px

c = 0.706 px

xc = 7.601 px

yc = 6.621 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 13152.9328

Standard deviation: 6.54549

R^2 : 0.78380

Parameters:

a = 109.52583

b = 197.39017

c = 7.92203

d = 0.80016

Bead 394

Date : Mon Oct 17 13:28:13 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

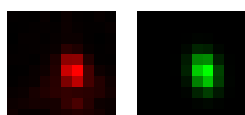
Coordinates : 4.11 μm (x), -43.6 μm (y), 9.54 μm (z)

Corresponding bead : Not found

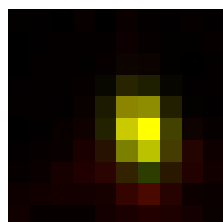
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	420 nm	223 nm
max	566 nm	585 nm	223 nm
z	1.55 μm	1.56 μm	885 nm
Asymmetry	0.718		
Theta	-76.2°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.928$



Parameters:

A = 749.908 (brightness)

B = 134.942 (background)

a = 0.789 px

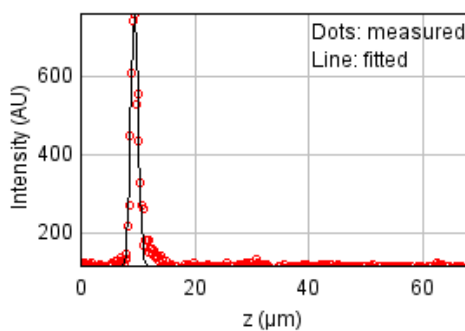
b = -0.091 px

c = 0.441 px

xc = 5.659 px

yc = 5.116 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 85562.2274

Standard deviation: 16.69444

R^2 : 0.96181

Parameters:

a = 116.44778

b = 764.52257

c = 9.54352

d = 0.65954

Bead 395 (Rejected)

Date : Mon Oct 17 13:28:13 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -61.8 μm (x), -71.7 μm (y), 10.4 μm (z)

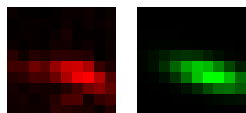
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

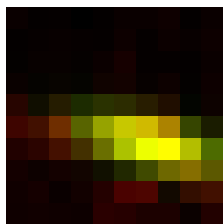
FWHM	Non corrected	Corrected	Theoretical
min	404 nm	418 nm	223 nm
max	1.18 μm	1.22 μm	223 nm
z	1.92 μm	1.93 μm	885 nm
Asymmetry	0.343		
Theta	-14.3°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.910$



Parameters:

A = 403.916 (brightness)

B = 129.420 (background)

a = 0.141 px

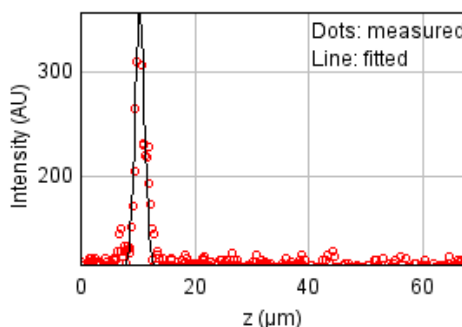
b = -0.174 px

c = 0.778 px

xc = 6.148 px

yc = 5.736 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 39085.9464

Standard deviation: 11.28343

R^2 : 0.90790

Parameters:

a = 112.83509

b = 360.24252

c = 10.44039

d = 0.81620

Bead 396

Date : Mon Oct 17 13:28:13 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

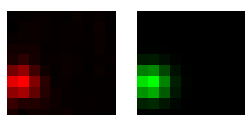
Coordinates : -91.6 μm (x), -79.2 μm (y), 20.4 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	511 nm	528 nm	223 nm
max	584 nm	604 nm	223 nm
z	1.44 μm	1.44 μm	885 nm
Asymmetry	0.875		
Theta	-6.7°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.987$



Parameters:

A = 658.023 (brightness)

B = 118.879 (background)

a = 0.395 px

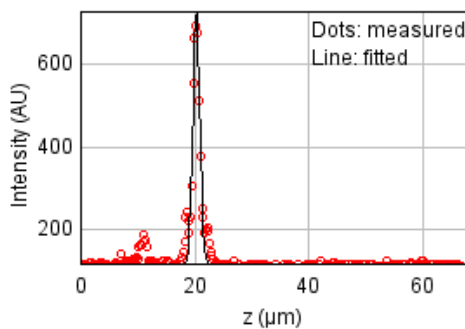
b = -0.014 px

c = 0.512 px

xc = 0.666 px

yc = 6.100 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 109814.580

Standard deviation: 18.91302

R^2 : 0.94299

Parameters:

a = 117.54157

b = 735.21488

c = 20.36487

d = 0.61046

Bead 397 (Rejected)

Date : Mon Oct 17 13:28:13 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : 149 μm (x), 96.5 μm (y), 8.79 μm (z)

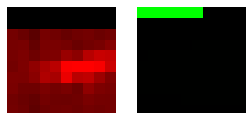
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	2.04 μm	2.11 μm	223 nm
max	7.02 μm	7.25 μm	223 nm
z	2.95 μm	2.97 μm	885 nm
Asymmetry	0.291		
Theta	0.8°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.787$

Parameters:

A = 304.630 (brightness)

B = -111.662 (background)

a = 0.003 px

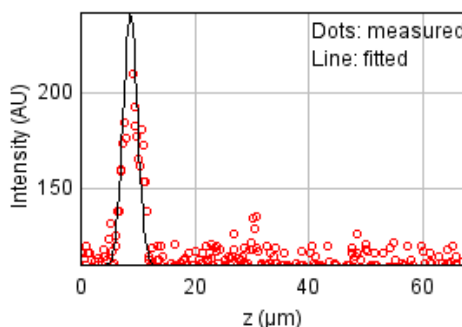
b = 0.000 px

c = 0.032 px

xc = 7.870 px

yc = 5.487 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 27600.3017

Standard deviation: 9.48173

R^2 : 0.85338

Parameters:

a = 110.68126

b = 241.10678

c = 8.79155

d = 1.25446

Bead 398

Date : Mon Oct 17 13:28:13 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

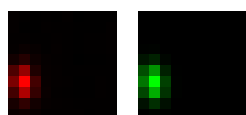
Coordinates : -48.9 μm (x), 27.3 μm (y), 42.7 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	352 nm	363 nm	223 nm
max	538 nm	556 nm	223 nm
z	1.27 μm	1.27 μm	885 nm
Asymmetry	0.654		
Theta	-83.7°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.997$



Parameters:

A = 1694.536 (brightness)

B = 116.754 (background)

a = 1.078 px

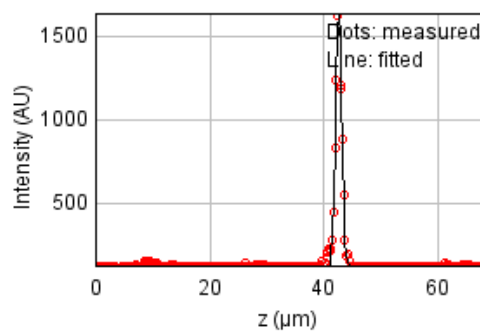
b = -0.068 px

c = 0.472 px

$x_c = 0.863$ px

$y_c = 6.066$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 203185.336

Standard deviation: 25.72628

R^2 : 0.97945

Parameters:

a = 118.85693

b = 1635.69452

c = 42.66057

d = 0.53748

Bead 399 (Rejected)

Date : Mon Oct 17 13:28:13 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

Coordinates : -82.4 μm (x), 26.7 μm (y), 10.4 μm (z)

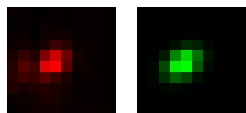
Corresponding bead : Not found

Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

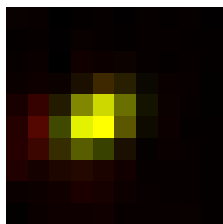
FWHM	Non corrected	Corrected	Theoretical
min	387 nm	400 nm	223 nm
max	556 nm	575 nm	223 nm
z	3.5 μm	3.51 μm	885 nm
Asymmetry	0.697		
Theta	32.3°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.934$



Parameters:

A = 670.142 (brightness)

B = 129.821 (background)

a = 0.565 px

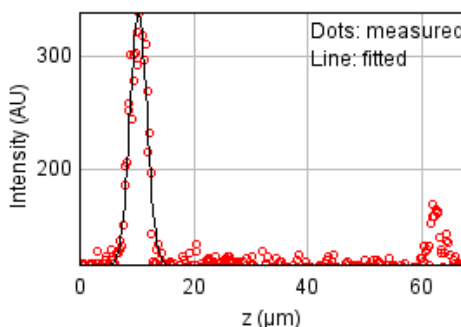
b = 0.208 px

c = 0.763 px

xc = 3.659 px

yc = 4.702 px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 47402.2685

Standard deviation: 12.42597

R^2 : 0.92051

Parameters:

a = 115.96712

b = 338.94482

c = 10.39533

d = 1.48595

Bead 400

Date : Mon Oct 17 13:28:14 PDT 2022

Origin : data_traditional.tif (Nikon 40x1.15 water)

Frame size : 10 pixels

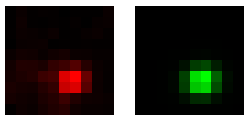
Coordinates : -114 μm (x), 23.9 μm (y), 9.33 μm (z)

Corresponding bead : Not found

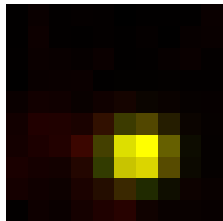
FWHM	Non corrected	Corrected	Theoretical
min	427 nm	441 nm	223 nm
max	491 nm	508 nm	223 nm
z	1.5 μm	1.51 μm	885 nm
Asymmetry	0.869		
Theta	8.9°		

XY profile & fitting parameters :

(red : the original data, green : the fit, yellow : the two merged)



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.950$



Parameters:

$A = 520.145$ (brightness)

$B = 126.454$ (background)

$a = 0.560$ px

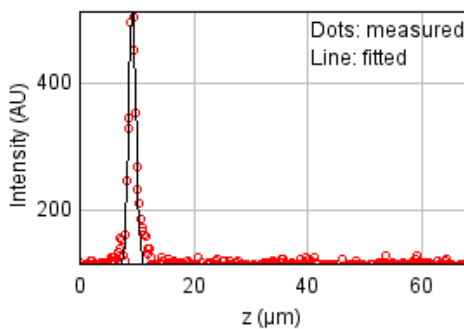
$b = 0.027$ px

$c = 0.732$ px

$x_c = 5.604$ px

$y_c = 6.391$ px

Z profile & fitting parameters:



Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Sum of residuals squared: 40992.5006

Standard deviation: 11.55535

$R^2: 0.95153$

Parameters:

$a = 113.59105$

$b = 515.81855$

$c = 9.33017$

$d = 0.63867$