

Bead 501 (Rejected)

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

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

Frame size : 10 pixels

Coordinates : 20.4 μm (x), -21.0 μm (y), 18.1 μm (z)

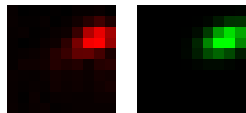
Corresponding bead : Not found

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

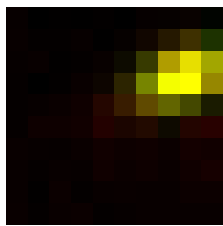
FWHM	Non corrected	Corrected	Theoretical
min	419 nm	433 nm	223 nm
max	724 nm	748 nm	223 nm
z	3.14 μm	3.15 μm	885 nm
Asymmetry	0.579		
Theta	21.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.972$



Parameters:

A = 598.911 (brightness)

B = 125.898 (background)

a = 0.321 px

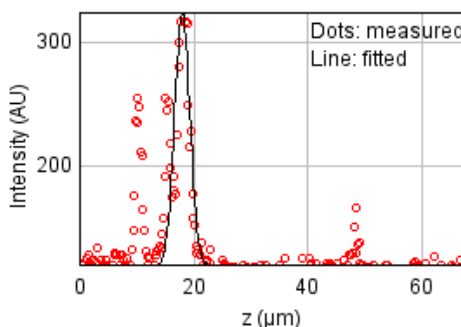
b = 0.170 px

c = 0.699 px

xc = 7.682 px

yc = 2.675 px

Z profile & fitting parameters:



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

Sum of residuals squared: 184040.849

Standard deviation: 24.48431

R^2 : 0.69795

Parameters:

a = 118.30006

b = 324.55983

c = 18.07214

d = 1.33382

Bead 502

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

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

Frame size : 10 pixels

Coordinates : 128 μm (x), -31.5 μm (y), 10.6 μm (z)

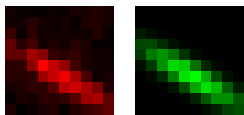
Corresponding bead : Not found



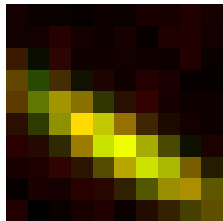
FWHM	Non corrected	Corrected	Theoretical
min	405 nm	419 nm	223 nm
max	1.81 μm	1.87 μm	223 nm
z	2.54 μm	2.55 μm	885 nm
Asymmetry	0.224		
Theta	-31.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 121.004$ (brightness)

$B = 111.991$ (background)

$a = 0.247$ px

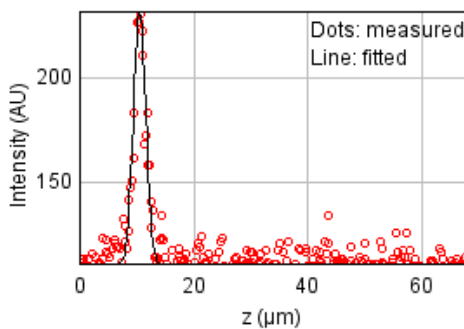
$b = -0.343$ px

$c = 0.610$ px

$x_c = 4.745$ px

$y_c = 6.016$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 15839.8429

Standard deviation: 7.18301

$R^2: 0.88313$

Parameters:

$a = 110.94522$

$b = 231.83731$

$c = 10.59125$

$d = 1.07729$

Bead 503

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

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

Frame size : 10 pixels

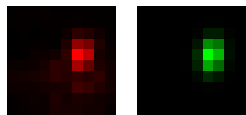
Coordinates : -36.0 μm (x), -42.5 μm (y), 11.5 μm (z)

Corresponding bead : Not found

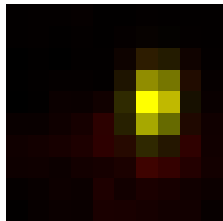
FWHM	Non corrected	Corrected	Theoretical
min	354 nm	366 nm	223 nm
max	521 nm	538 nm	223 nm
z	1.32 μm	1.33 μm	885 nm
Asymmetry	0.68		
Theta	82.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.915$



Parameters:

$A = 786.955$ (brightness)

$B = 142.627$ (background)

$a = 1.061$ px

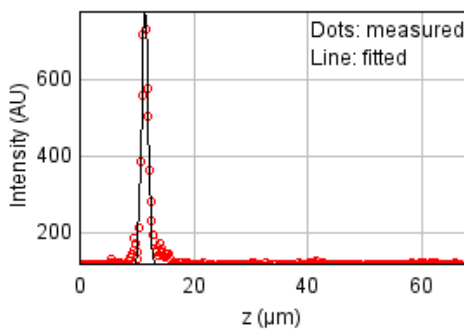
$b = 0.071$ px

$c = 0.504$ px

$x_c = 6.347$ px

$y_c = 4.038$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 62684.1740

Standard deviation: 14.28926

$R^2: 0.96888$

Parameters:

$a = 115.94771$

$b = 783.18965$

$c = 11.51779$

$d = 0.56049$

Bead 504 (Rejected)

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

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

Frame size : 10 pixels

Coordinates : 147 μm (x), -61.3 μm (y), 10.6 μm (z)

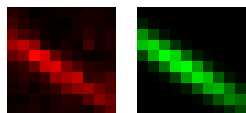
Corresponding bead : Not found

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

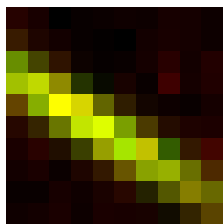
FWHM	Non corrected	Corrected	Theoretical
min	376 nm	389 nm	223 nm
max	2.67 μm	2.76 μm	223 nm
z	1.53 μm	1.54 μm	885 nm
Asymmetry	0.141		
Theta	-32.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 108.639 (brightness)

B = 113.109 (background)

a = 0.280 px

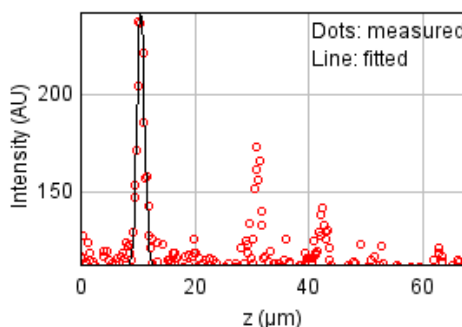
b = -0.418 px

c = 0.688 px

xc = 3.112 px

yc = 4.620 px

Z profile & fitting parameters:



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

Sum of residuals squared: 30952.8516

Standard deviation: 10.04110

R^2 : 0.73266

Parameters:

a = 113.03245

b = 242.53126

c = 10.62739

d = 0.64996

Bead 505 (Rejected)

Date : Mon Oct 17 13:28:15 PDT 2022

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

Frame size : 10 pixels

Coordinates : 145 μm (x), 76.3 μm (y), 10.1 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	2.45 μm	2.46 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

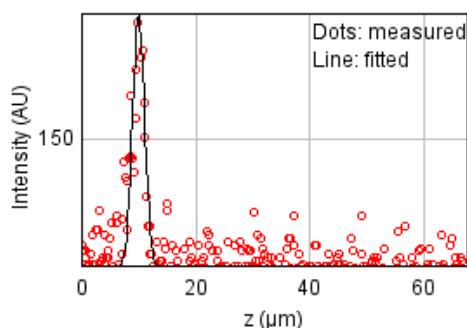
XY profile & fitting parameters :

(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: 17264.4029

Standard deviation: 7.49906

R²: 0.74411

Parameters:

a = 109.98097

b = 189.61205

c = 10.05977

d = 1.03920

Bead 506 (Rejected)

Date : Mon Oct 17 13:28:15 PDT 2022

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

Frame size : 10 pixels

Coordinates : -13.9 μm (x), 63.6 μm (y), 46.4 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	263 nm	264 nm	885 nm
Asymmetry	0.0		
Theta	0.0°		

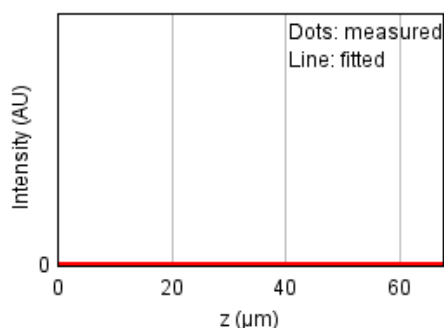
XY profile & fitting parameters :

(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 507 (Rejected)

Date : Mon Oct 17 13:28:15 PDT 2022

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

Frame size : 10 pixels

Coordinates : 146 μm (x), 40.6 μm (y), 10.2 μm (z)

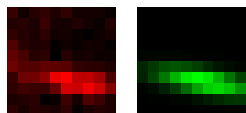
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

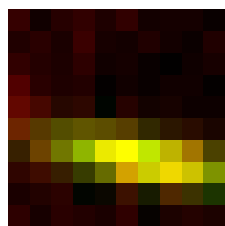
FWHM	Non corrected	Corrected	Theoretical
min	371 nm	384 nm	223 nm
max	1.55 μm	1.6 μm	223 nm
z	1.85 μm	1.85 μm	885 nm
Asymmetry	0.239		
Theta	-10.4°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.883$



Parameters:

A = 110.884 (brightness)

B = 113.384 (background)

a = 0.085 px

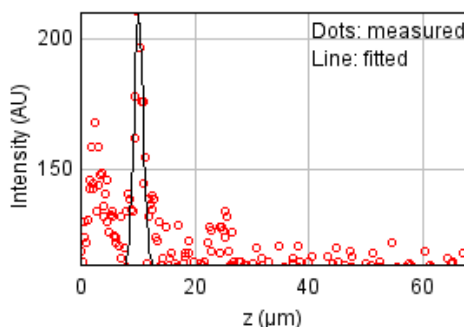
b = -0.162 px

c = 0.943 px

xc = 5.687 px

yc = 6.376 px

Z profile & fitting parameters:



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

Sum of residuals squared: 44805.6211

Standard deviation: 12.08084

R^2 : 0.56284

Parameters:

a = 113.14624

b = 210.71166

c = 10.24275

d = 0.78439

Bead 508

Date : Mon Oct 17 13:28:15 PDT 2022

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

Frame size : 10 pixels

Coordinates : 93.6 μm (x), 26.1 μm (y), 11.7 μm (z)

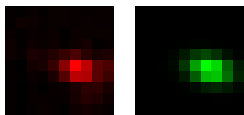
Corresponding bead : Not found



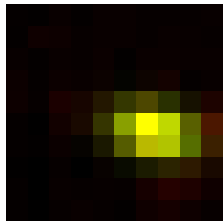
FWHM	Non corrected	Corrected	Theoretical
min	402 nm	416 nm	223 nm
max	676 nm	699 nm	223 nm
z	1.43 μm	1.44 μm	885 nm
Asymmetry	0.594		
Theta	-12.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 592.295$ (brightness)

$B = 117.814$ (background)

$a = 0.318$ px

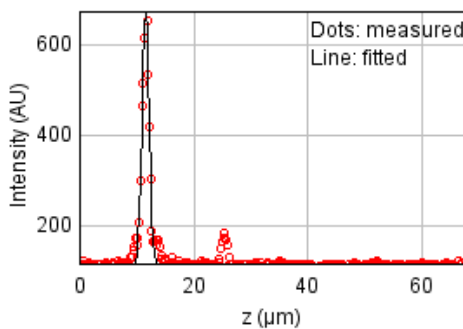
$b = -0.114$ px

$c = 0.805$ px

$x_c = 6.361$ px

$y_c = 5.348$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 51191.4525

Standard deviation: 12.91307

$R^2: 0.96670$

Parameters:

$a = 115.42782$

$b = 674.80958$

$c = 11.65619$

$d = 0.60897$

Bead 509

Date : Mon Oct 17 13:28:15 PDT 2022

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

Frame size : 10 pixels

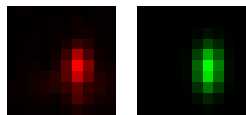
Coordinates : -5.7 μm (x), 12.7 μm (y), 12.1 μm (z)

Corresponding bead : Not found

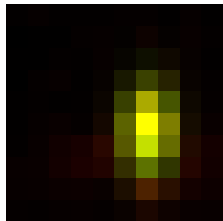
FWHM	Non corrected	Corrected	Theoretical
min	402 nm	415 nm	223 nm
max	703 nm	727 nm	223 nm
z	1.7 μm	1.71 μm	885 nm
Asymmetry	0.571		
Theta	88.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 746.995 (brightness)

B = 132.040 (background)

a = 0.832 px

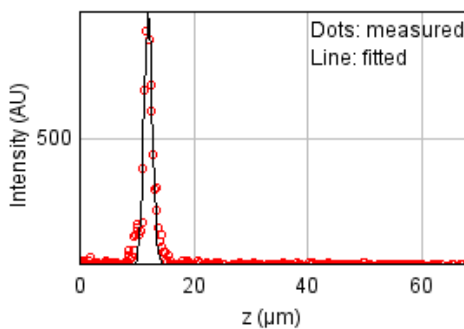
b = 0.012 px

c = 0.272 px

$x_c = 6.070$ px

$y_c = 5.253$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 140927.142

Standard deviation: 21.42536

R^2 : 0.95910

Parameters:

a = 116.53833

b = 884.93336

c = 12.08960

d = 0.72190

Bead 510

Date : Mon Oct 17 13:28:15 PDT 2022

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

Frame size : 10 pixels

Coordinates : 65.0 μm (x), 9.4 μm (y), 12.5 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	424 nm	223 nm
max	482 nm	498 nm	223 nm
z	1.68 μm	1.69 μm	885 nm
Asymmetry	0.852		
Theta	-49.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1052.393$ (brightness)

$B = 124.160$ (background)

$a = 0.705$ px

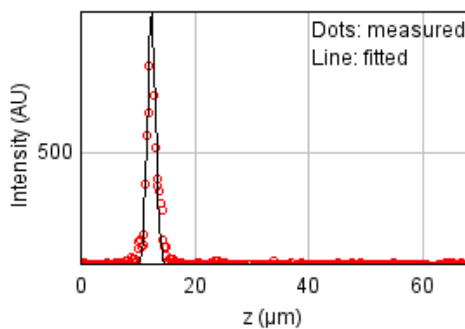
$b = -0.108$ px

$c = 0.670$ px

$x_c = 6.438$ px

$y_c = 6.259$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 229152.535

Standard deviation: 27.32078

$R^2: 0.94813$

Parameters:

$a = 115.96726$

$b = 985.99021$

$c = 12.49931$

$d = 0.71343$

Bead 511

Date : Mon Oct 17 13:28:15 PDT 2022

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

Frame size : 10 pixels

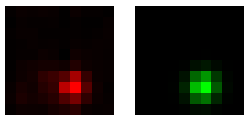
Coordinates : -108 μm (x), 2.44 μm (y), 12.1 μm (z)

Corresponding bead : Not found

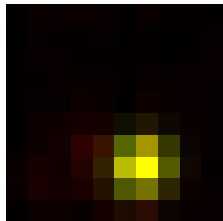
FWHM	Non corrected	Corrected	Theoretical
min	436 nm	451 nm	223 nm
max	454 nm	470 nm	223 nm
z	1.65 μm	1.66 μm	885 nm
Asymmetry	0.959		
Theta	49.6°		

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:

$A = 704.178$ (brightness)

$B = 124.605$ (background)

$a = 0.683$ px

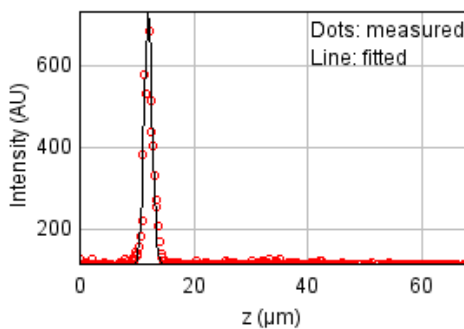
$b = 0.028$ px

$c = 0.674$ px

$x_c = 5.731$ px

$y_c = 6.910$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 82506.2759

Standard deviation: 16.39360

$R^2: 0.96202$

Parameters:

$a = 112.91150$

$b = 732.52862$

$c = 12.09772$

$d = 0.70133$

Bead 512 (Rejected)

Date : Mon Oct 17 13:28:15 PDT 2022

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

Frame size : 10 pixels

Coordinates : -143 μm (x), 4.63 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.

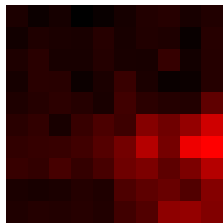
FWHM	Non corrected	Corrected	Theoretical
min	104 nm	107 nm	223 nm
max	202 nm	208 nm	223 nm
z	1.17 μm	1.18 μm	885 nm
Asymmetry	0.515		
Theta	46.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.000$



Parameters:

A = -37.155 (brightness)

B = 139.170 (background)

a = 8.113 px

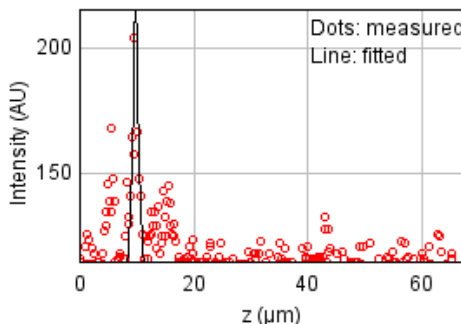
b = 4.562 px

c = 7.634 px

xc = 1.805 px

yc = -3.045 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 513 (Rejected)

Date : Mon Oct 17 13:28:15 PDT 2022

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

Frame size : 10 pixels

Coordinates : 129 um (x), -31.7 um (y), 10.4 um (z)

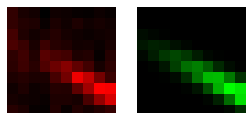
Corresponding bead : Not found

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

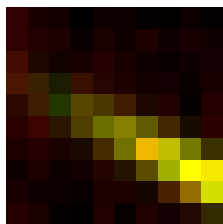
FWHM	Non corrected	Corrected	Theoretical
min	365 nm	377 nm	223 nm
max	2.67 um	2.76 um	223 nm
z	1.8 um	1.81 um	885 nm
Asymmetry	0.137		
Theta	-27.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 145.076 (brightness)

B = 114.719 (background)

a = 0.230 px

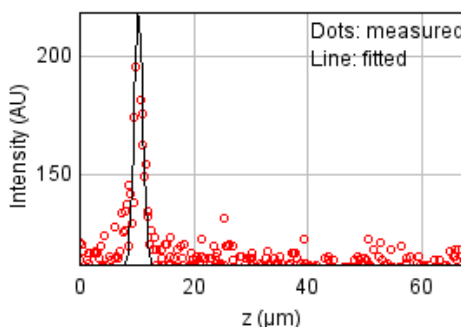
b = -0.405 px

c = 0.798 px

xc = 10.335 px

yc = 8.154 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15623.3560

Standard deviation: 7.13375

R^2 : 0.81350

Parameters:

a = 111.73937

b = 218.97620

c = 10.39025

d = 0.76629

Bead 514

Date : Mon Oct 17 13:28:15 PDT 2022

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

Frame size : 10 pixels

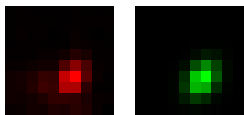
Coordinates : -72.5 μm (x), -33.9 μm (y), 12.1 μm (z)

Corresponding bead : Not found

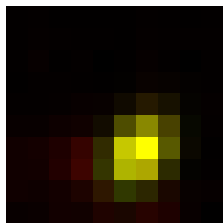
FWHM	Non corrected	Corrected	Theoretical
min	420 nm	435 nm	223 nm
max	566 nm	585 nm	223 nm
z	1.43 μm	1.44 μm	885 nm
Asymmetry	0.743		
Theta	55.5°		

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:

$A = 1048.361$ (brightness)

$B = 137.287$ (background)

$a = 0.650$ px

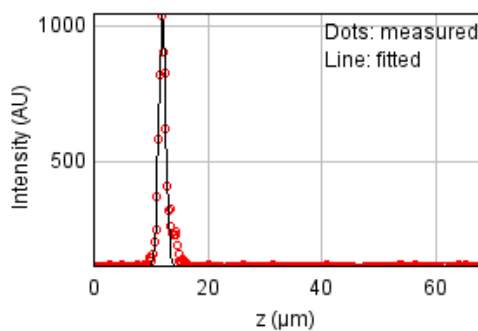
$b = 0.159$ px

$c = 0.528$ px

$x_c = 5.639$ px

$y_c = 6.207$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 133564.295

Standard deviation: 20.85816

$R^2: 0.96833$

Parameters:

$a = 116.02071$

$b = 1043.38590$

$c = 12.11752$

$d = 0.60870$

Bead 515

Date : Mon Oct 17 13:28:15 PDT 2022

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

Frame size : 10 pixels

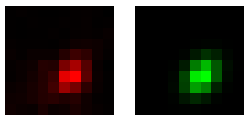
Coordinates : -107 μm (x), -33.9 μm (y), 11.8 μm (z)

Corresponding bead : Not found

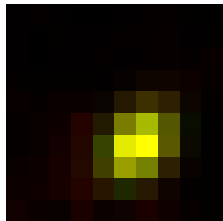
FWHM	Non corrected	Corrected	Theoretical
min	437 nm	452 nm	223 nm
max	591 nm	611 nm	223 nm
z	1.19 μm	1.2 μm	885 nm
Asymmetry	0.74		
Theta	51.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 837.189 (brightness)

B = 129.901 (background)

a = 0.576 px

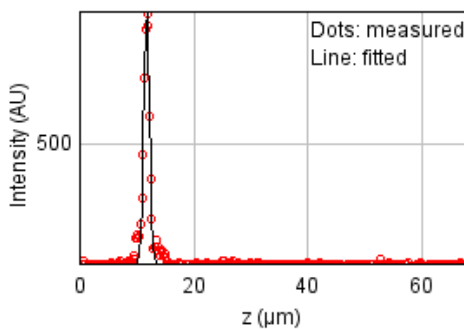
b = 0.155 px

c = 0.510 px

xc = 5.592 px

yc = 5.943 px

Z profile & fitting parameters:



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

Sum of residuals squared: 70073.6249

Standard deviation: 15.10804

R^2 : 0.97374

Parameters:

a = 115.52800

b = 923.76283

c = 11.83192

d = 0.50727

Bead 516

Date : Mon Oct 17 13:28:15 PDT 2022

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

Frame size : 10 pixels

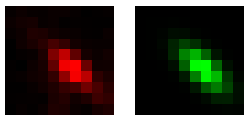
Coordinates : 84.2 μm (x), -39.7 μm (y), 11.5 μm (z)

Corresponding bead : Not found

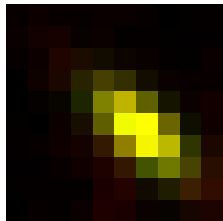
FWHM	Non corrected	Corrected	Theoretical
min	405 nm	418 nm	223 nm
max	887 nm	917 nm	223 nm
z	1.69 μm	1.7 μm	885 nm
Asymmetry	0.456		
Theta	-43.4°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.969$



Parameters:

$A = 529.935$ (brightness)

$B = 122.233$ (background)

$a = 0.476$ px

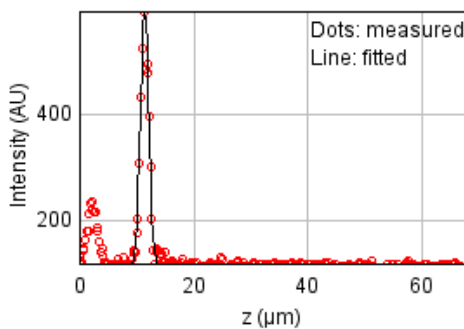
$b = -0.324$ px

$c = 0.513$ px

$x_c = 5.705$ px

$y_c = 5.273$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 139119.510

Standard deviation: 21.28751

$R^2: 0.90069$

Parameters:

$a = 117.63901$

$b = 593.75203$

$c = 11.48070$

$d = 0.71786$

Bead 517

Date : Mon Oct 17 13:28:15 PDT 2022

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

Frame size : 10 pixels

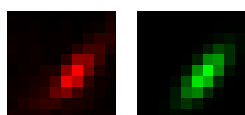
Coordinates : -115 μm (x), -49.8 μm (y), 11.3 μm (z)

Corresponding bead : Not found

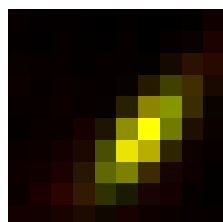
FWHM	Non corrected	Corrected	Theoretical
min	363 nm	375 nm	223 nm
max	922 nm	953 nm	223 nm
z	1.3 μm	1.31 μm	885 nm
Asymmetry	0.394		
Theta	49.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 561.552 (brightness)

B = 126.348 (background)

a = 0.658 px

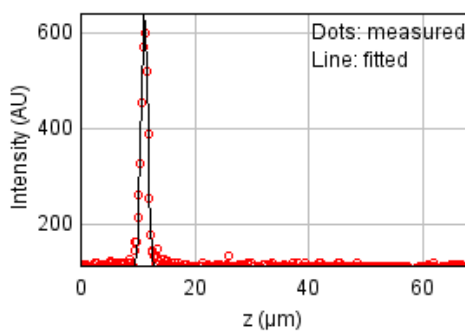
b = 0.424 px

c = 0.517 px

$x_c = 5.706$ px

$y_c = 5.372$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 23128.1478

Standard deviation: 8.67963

R^2 : 0.98132

Parameters:

a = 113.10172

b = 642.69515

c = 11.25197

d = 0.55380

Bead 518 (Rejected)

Date : Mon Oct 17 13:28:15 PDT 2022

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

Frame size : 10 pixels

Coordinates : 140 μm (x), -49.8 μm (y), 10.6 μm (z)

Corresponding bead : Not found

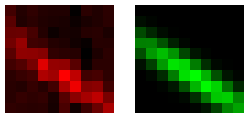
Reason of rejection : R or C parameter off limits.



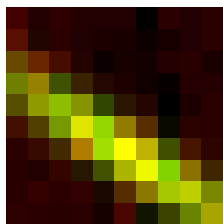
FWHM	Non corrected	Corrected	Theoretical
min	426 nm	440 nm	223 nm
max	2.65 μm	2.74 μm	223 nm
z	1.69 μm	1.69 μm	885 nm
Asymmetry	0.16		
Theta	-33.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.871$



Parameters:

A = 110.018 (brightness)

B = 112.910 (background)

a = 0.235 px

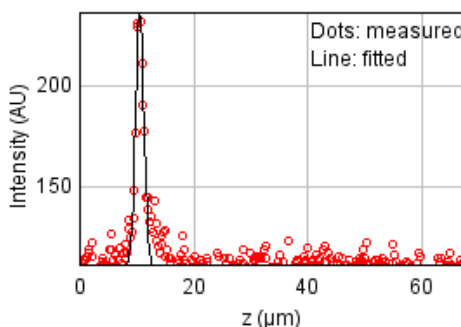
b = -0.330 px

c = 0.524 px

xc = 5.136 px

yc = 6.264 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15530.2460

Standard deviation: 7.11246

R^2 : 0.85028

Parameters:

a = 111.13209

b = 237.14768

c = 10.61860

d = 0.71620

Bead 519 (Rejected)

Date : Mon Oct 17 13:28:16 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)

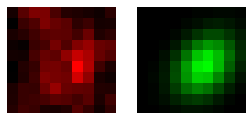
Corresponding bead : Not found

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

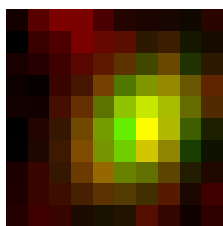
FWHM	Non corrected	Corrected	Theoretical
min	781 nm	808 nm	223 nm
max	1.06 μm	1.09 μm	223 nm
z	3.36 μm	3.37 μm	885 nm
Asymmetry	0.739		
Theta	50.4°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.716$



Parameters:

A = 71.528 (brightness)

B = 127.648 (background)

a = 0.179 px

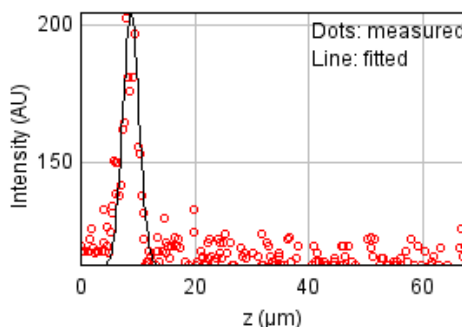
b = 0.049 px

c = 0.161 px

xc = 5.705 px

yc = 4.860 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 520 (Rejected)

Date : Mon Oct 17 13:28:16 PDT 2022

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

Frame size : 10 pixels

Coordinates : -132 μm (x), -85.3 μm (y), 10.4 μm (z)

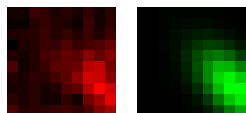
Corresponding bead : Not found

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

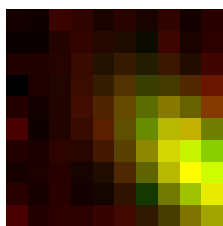
FWHM	Non corrected	Corrected	Theoretical
min	758 nm	783 nm	223 nm
max	1.49 μm	1.54 μm	223 nm
z	3.55 μm	3.57 μm	885 nm
Asymmetry	0.509		
Theta	-46.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.880$



Parameters:

A = 99.404 (brightness)

B = 113.095 (background)

a = 0.153 px

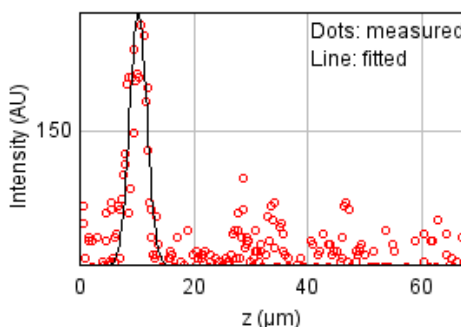
b = -0.086 px

c = 0.142 px

xc = 8.451 px

yc = 6.895 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22725.7611

Standard deviation: 8.60379

R^2 : 0.72364

Parameters:

a = 111.52526

b = 184.43052

c = 10.35976

d = 1.50869

Bead 521

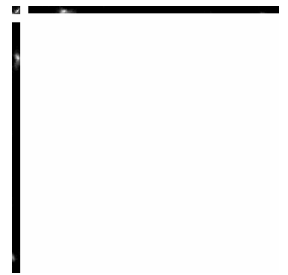
Date : Mon Oct 17 13:28:16 PDT 2022

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

Frame size : 10 pixels

Coordinates : -144 μm (x), -87.3 μm (y), 9.43 μm (z)

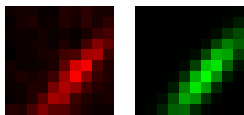
Corresponding bead : Not found



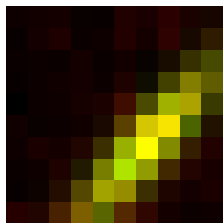
FWHM	Non corrected	Corrected	Theoretical
min	409 nm	422 nm	223 nm
max	1.62 μm	1.67 μm	223 nm
z	1.95 μm	1.96 μm	885 nm
Asymmetry	0.252		
Theta	49.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 146.097$ (brightness)

$B = 114.128$ (background)

$a = 0.484$ px

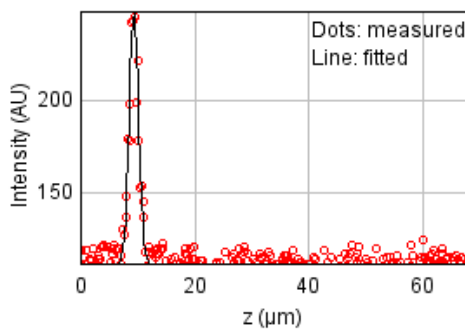
$b = 0.372$ px

$c = 0.371$ px

$x_c = 5.996$ px

$y_c = 5.845$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 11887.4848

Standard deviation: 6.22266

$R^2: 0.91044$

Parameters:

$a = 110.95247$

$b = 248.52017$

$c = 9.43266$

$d = 0.82852$

Bead 522

Date : Mon Oct 17 13:28:16 PDT 2022

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

Frame size : 10 pixels

Coordinates : -14.6 μm (x), -89.4 μm (y), 12.0 μm (z)

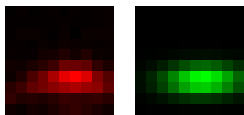
Corresponding bead : Not found



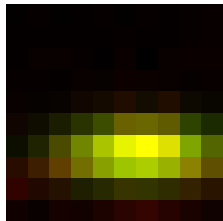
FWHM	Non corrected	Corrected	Theoretical
min	487 nm	504 nm	223 nm
max	1.24 μm	1.28 μm	223 nm
z	2.08 μm	2.09 μm	885 nm
Asymmetry	0.394		
Theta	0.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 466.079 (brightness)

B = 121.831 (background)

a = 0.088 px

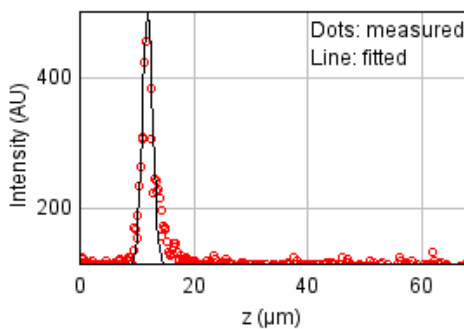
b = 0.006 px

c = 0.565 px

$x_c = 5.726$ px

$y_c = 6.309$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 93517.3817

Standard deviation: 17.45328

R^2 : 0.91612

Parameters:

a = 115.28762

b = 503.41508

c = 11.99258

d = 0.88223

Bead 523

Date : Mon Oct 17 13:28:16 PDT 2022

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

Frame size : 10 pixels

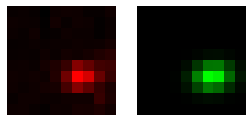
Coordinates : 93.2 μm (x), 56.3 μm (y), 11.7 μm (z)

Corresponding bead : Not found

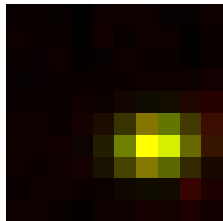
FWHM	Non corrected	Corrected	Theoretical
min	417 nm	431 nm	223 nm
max	600 nm	620 nm	223 nm
z	1.6 μm	1.61 μm	885 nm
Asymmetry	0.695		
Theta	6.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.952$



Parameters:

A = 398.295 (brightness)

B = 114.641 (background)

a = 0.379 px

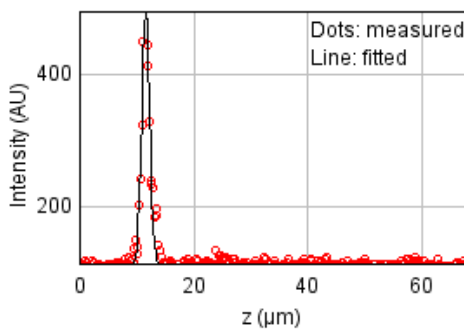
b = 0.046 px

c = 0.767 px

xc = 6.411 px

yc = 5.990 px

Z profile & fitting parameters:



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

Sum of residuals squared: 38799.2800

Standard deviation: 11.24198

R^2 : 0.95202

Parameters:

a = 113.83844

b = 495.64717

c = 11.67120

d = 0.67968

Bead 524 (Rejected)

Date : Mon Oct 17 13:28:16 PDT 2022

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

Frame size : 10 pixels

Coordinates : -36.8 μm (x), -17.5 μm (y), 11.9 μm (z)

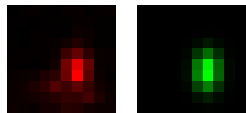
Corresponding bead : Not found

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

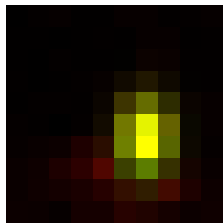
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	420 nm	223 nm
max	594 nm	614 nm	223 nm
z	3.44 μm	3.45 μm	885 nm
Asymmetry	0.684		
Theta	88.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.900$



Parameters:

A = 683.192 (brightness)

B = 133.644 (background)

a = 0.811 px

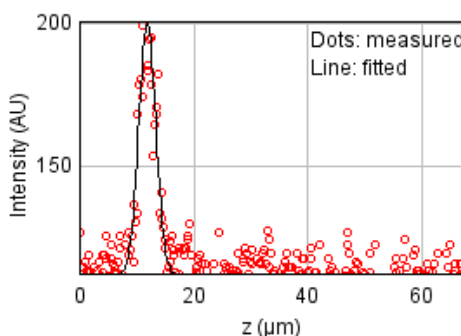
b = 0.011 px

c = 0.380 px

xc = 5.931 px

yc = 5.565 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18034.9174

Standard deviation: 7.66457

R^2 : 0.82613

Parameters:

a = 112.22114

b = 201.00591

c = 11.94803

d = 1.46095

Bead 525

Date : Mon Oct 17 13:28:16 PDT 2022

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

Frame size : 10 pixels

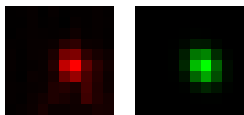
Coordinates : 47.2 μm (x), -35.9 μm (y), 12.1 μm (z)

Corresponding bead : Not found

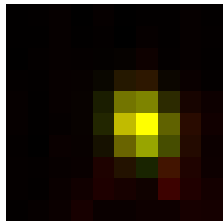
FWHM	Non corrected	Corrected	Theoretical
min	439 nm	454 nm	223 nm
max	525 nm	542 nm	223 nm
z	1.42 μm	1.42 μm	885 nm
Asymmetry	0.837		
Theta	-57.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 856.832 (brightness)

B = 132.712 (background)

a = 0.636 px

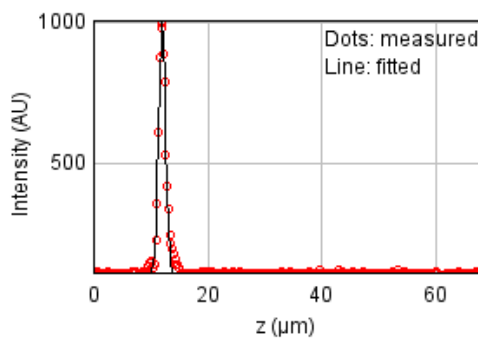
b = -0.095 px

c = 0.548 px

xc = 5.757 px

yc = 5.059 px

Z profile & fitting parameters:



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

Sum of residuals squared: 68831.6524

Standard deviation: 14.97355

R^2 : 0.98189

Parameters:

a = 113.67753

b = 1004.91782

c = 12.09117

d = 0.60212

Bead 526

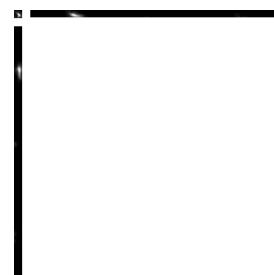
Date : Mon Oct 17 13:28:16 PDT 2022

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

Frame size : 10 pixels

Coordinates : 96.1 μm (x), -45.5 μm (y), 11.9 μm (z)

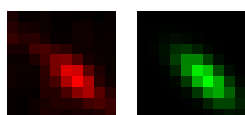
Corresponding bead : Not found



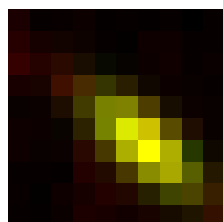
FWHM	Non corrected	Corrected	Theoretical
min	440 nm	455 nm	223 nm
max	1.04 μm	1.07 μm	223 nm
z	2.12 μm	2.12 μm	885 nm
Asymmetry	0.424		
Theta	-42.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 452.805$ (brightness)

$B = 126.693$ (background)

$a = 0.381$ px

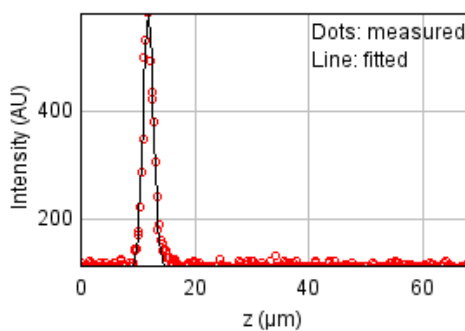
$b = -0.283$ px

$c = 0.437$ px

$x_c = 5.734$ px

$y_c = 5.642$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 32145.4249

Standard deviation: 10.23270

$R^2: 0.97916$

Parameters:

$a = 113.84195$

$b = 581.79433$

$c = 11.94993$

$d = 0.89833$

Bead 527 (Rejected)

Date : Mon Oct 17 13:28:16 PDT 2022

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

Frame size : 10 pixels

Coordinates : 147 μm (x), -61.2 μm (y), 10.6 μm (z)

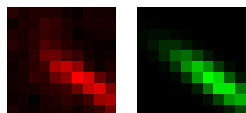
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

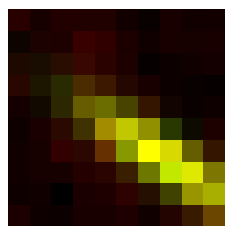
FWHM	Non corrected	Corrected	Theoretical
min	378 nm	391 nm	223 nm
max	1.59 μm	1.64 μm	223 nm
z	1.53 μm	1.54 μm	885 nm
Asymmetry	0.238		
Theta	-34.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 121.408 (brightness)

B = 111.991 (background)

a = 0.332 px

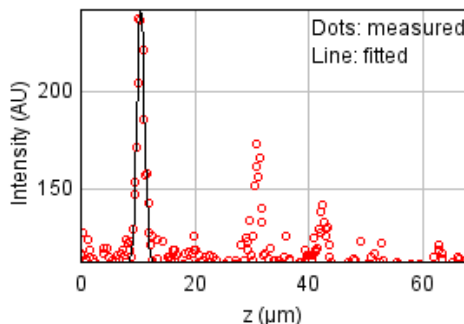
b = -0.412 px

c = 0.661 px

xc = 6.739 px

yc = 6.389 px

Z profile & fitting parameters:



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

Sum of residuals squared: 30952.8516

Standard deviation: 10.04110

R^2 : 0.73266

Parameters:

a = 113.03245

b = 242.53126

c = 10.62739

d = 0.64996

Bead 528 (Rejected)

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

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

Frame size : 10 pixels

Coordinates : 147 um (x), -61.3 um (y), 10.6 um (z)

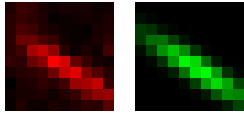
Corresponding bead : Not found

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

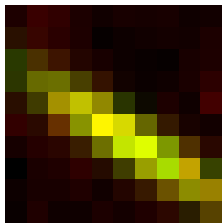
FWHM	Non corrected	Corrected	Theoretical
min	374 nm	386 nm	223 nm
max	1.93 um	1.99 um	223 nm
z	1.53 um	1.54 um	885 nm
Asymmetry	0.194		
Theta	-33.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 117.561 (brightness)

B = 112.830 (background)

a = 0.311 px

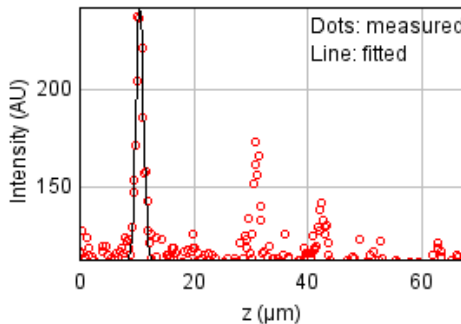
b = -0.423 px

c = 0.687 px

xc = 5.251 px

yc = 5.696 px

Z profile & fitting parameters:



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

Sum of residuals squared: 30952.8516

Standard deviation: 10.04110

R^2 : 0.73266

Parameters:

a = 113.03245

b = 242.53126

c = 10.62739

d = 0.64996

Bead 529 (Rejected)

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

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

Frame size : 10 pixels

Coordinates : 106 um (x), -71.0 um (y), 10.7 um (z)

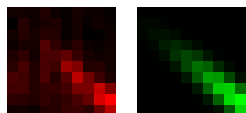
Corresponding bead : Not found

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

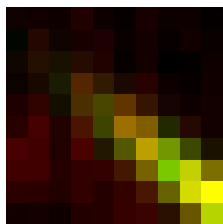
FWHM	Non corrected	Corrected	Theoretical
min	408 nm	422 nm	223 nm
max	2.42 um	2.51 um	223 nm
z	1.96 um	1.96 um	885 nm
Asymmetry	0.169		
Theta	-38.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.827$



Parameters:

A = 145.767 (brightness)

B = 123.535 (background)

a = 0.330 px

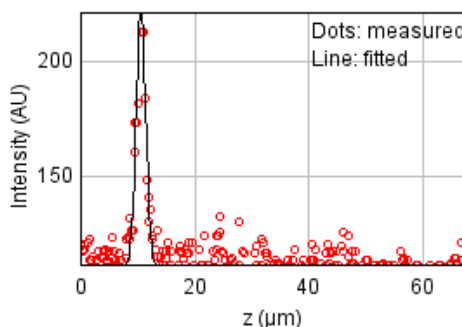
b = -0.382 px

c = 0.497 px

xc = 9.819 px

yc = 8.950 px

Z profile & fitting parameters:



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

Sum of residuals squared: 12656.4646

Standard deviation: 6.42077

R^2 : 0.85937

Parameters:

a = 111.54822

b = 221.47884

c = 10.65561

d = 0.83044

Bead 530

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

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

Frame size : 10 pixels

Coordinates : 72.2 μm (x), -86.6 μm (y), 11.7 μm (z)

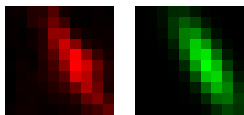
Corresponding bead : Not found



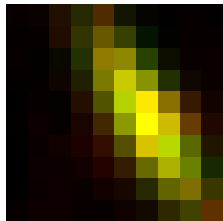
FWHM	Non corrected	Corrected	Theoretical
min	502 nm	519 nm	223 nm
max	1.51 μm	1.57 μm	223 nm
z	2.15 μm	2.16 μm	885 nm
Asymmetry	0.332		
Theta	-59.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.951$



Parameters:

$A = 344.200$ (brightness)

$B = 122.812$ (background)

$a = 0.412$ px

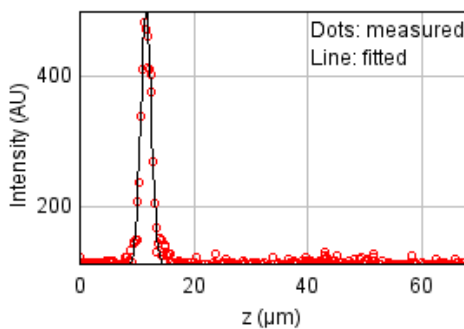
$b = -0.206$ px

$c = 0.179$ px

$x_c = 6.006$ px

$y_c = 4.768$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 42033.1588

Standard deviation: 11.70110

$R^2: 0.96126$

Parameters:

$a = 113.26830$

$b = 499.31113$

$c = 11.73641$

$d = 0.91222$

Bead 531 (Rejected)

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

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

Frame size : 10 pixels

Coordinates : -101 μm (x), -95.8 μm (y), 11.8 μm (z)

Corresponding bead : Not found

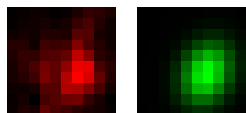
Reason of rejection : R or C parameter off limits.



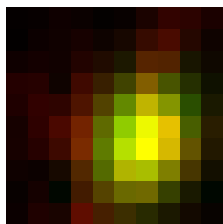
FWHM	Non corrected	Corrected	Theoretical
min	739 nm	764 nm	223 nm
max	971 nm	1.0 μm	223 nm
z	3.17 μm	3.18 μm	885 nm
Asymmetry	0.761		
Theta	68.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.839$



Parameters:

A = 196.466 (brightness)

B = 130.448 (background)

a = 0.231 px

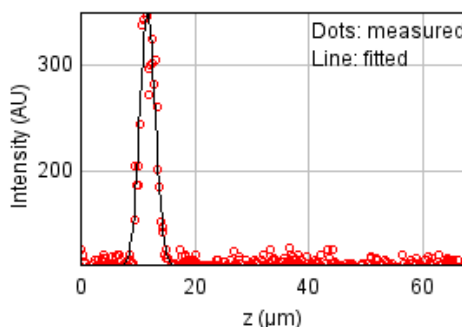
b = 0.036 px

c = 0.157 px

xc = 5.846 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: 42707.7073

Standard deviation: 11.79462

R^2 : 0.93058

Parameters:

a = 111.84716

b = 350.24695

c = 11.82340

d = 1.34489

Bead 532

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

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

Frame size : 10 pixels

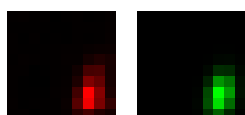
Coordinates : 261 nm (x), 73.0 um (y), 61.8 um (z)

Corresponding bead : Not found

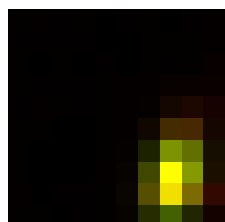
FWHM	Non corrected	Corrected	Theoretical
min	383 nm	396 nm	223 nm
max	645 nm	667 nm	223 nm
z	1.17 um	1.18 um	885 nm
Asymmetry	0.594		
Theta	78.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.960$



Parameters:

A = 1579.254 (brightness)

B = 126.011 (background)

a = 0.891 px

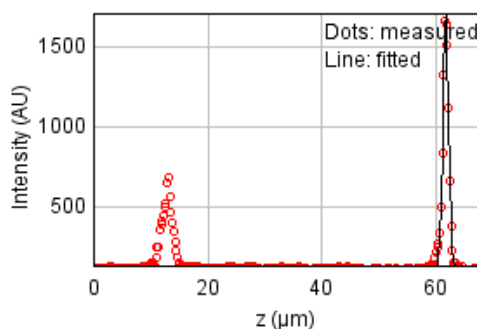
b = 0.114 px

c = 0.345 px

xc = 7.186 px

yc = 7.239 px

Z profile & fitting parameters:



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

Sum of residuals squared: 1870981.14

Standard deviation: 78.06665

R^2 : 0.83931

Parameters:

a = 134.57327

b = 1716.53298

c = 61.76326

d = 0.49763

Bead 533

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

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

Frame size : 10 pixels

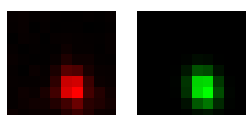
Coordinates : 10.5 μm (x), 25.8 μm (y), 12.4 μm (z)

Corresponding bead : Not found

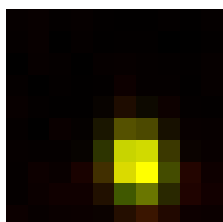
FWHM	Non corrected	Corrected	Theoretical
min	436 nm	451 nm	223 nm
max	548 nm	566 nm	223 nm
z	1.72 μm	1.73 μm	885 nm
Asymmetry	0.797		
Theta	-74.4°		

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 = 607.086 (brightness)

B = 121.541 (background)

a = 0.686 px

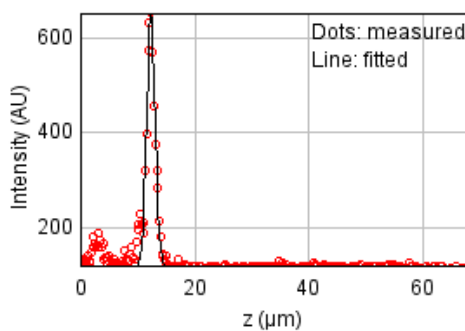
b = -0.067 px

c = 0.466 px

xc = 5.580 px

yc = 6.613 px

Z profile & fitting parameters:



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

Sum of residuals squared: 93398.1120

Standard deviation: 17.44214

R^2 : 0.94545

Parameters:

a = 118.18877

b = 652.60416

c = 12.39378

d = 0.73146

Bead 534

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

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

Frame size : 10 pixels

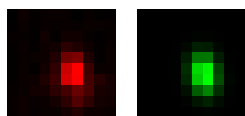
Coordinates : 10.5 μm (x), 25.9 μm (y), 12.0 μm (z)

Corresponding bead : Not found

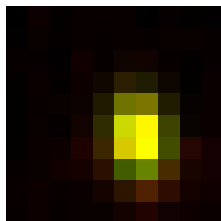
FWHM	Non corrected	Corrected	Theoretical
min	430 nm	444 nm	223 nm
max	624 nm	645 nm	223 nm
z	1.64 μm	1.65 μm	885 nm
Asymmetry	0.688		
Theta	-81.6°		

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:

$A = 596.825$ (brightness)

$B = 123.836$ (background)

$a = 0.718$ px

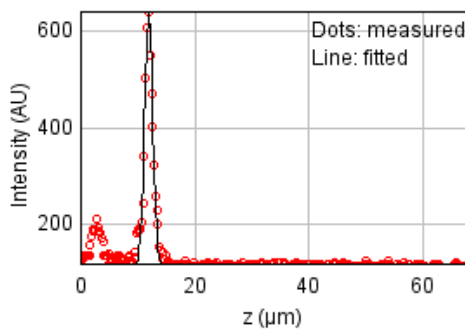
$b = -0.055$ px

$c = 0.352$ px

$x_c = 5.628$ px

$y_c = 5.487$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 109198.817

Standard deviation: 18.85992

$R^2: 0.93221$

Parameters:

$a = 118.75821$

$b = 645.21396$

$c = 12.01566$

$d = 0.69794$

Bead 535

Date : Mon Oct 17 13:28:18 PDT 2022

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

Frame size : 10 pixels

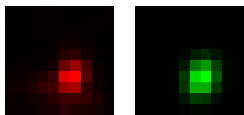
Coordinates : -44.5 μm (x), -7.07 μm (y), 13.3 μm (z)

Corresponding bead : Not found

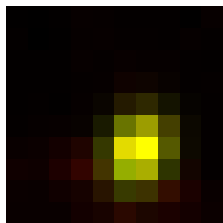
FWHM	Non corrected	Corrected	Theoretical
min	460 nm	475 nm	223 nm
max	574 nm	593 nm	223 nm
z	1.87 μm	1.88 μm	885 nm
Asymmetry	0.801		
Theta	69.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1185.192 (brightness)

B = 137.265 (background)

a = 0.607 px

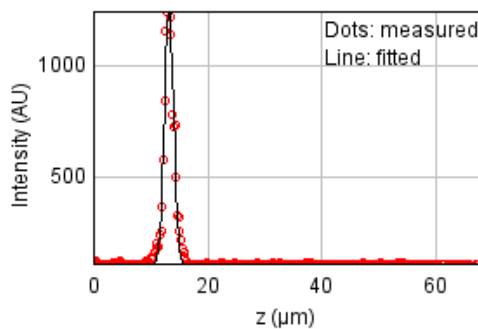
b = 0.075 px

c = 0.436 px

xc = 5.611 px

yc = 6.128 px

Z profile & fitting parameters:



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

Sum of residuals squared: 168780.619

Standard deviation: 23.44726

R^2 : 0.97908

Parameters:

a = 115.01212

b = 1249.10050

c = 13.28662

d = 0.79559

Bead 536

Date : Mon Oct 17 13:28:18 PDT 2022

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

Frame size : 10 pixels

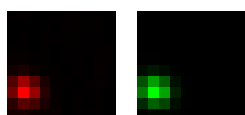
Coordinates : -84.7 μm (x), -71.9 μm (y), 35.1 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	423 nm	437 nm	223 nm
max	478 nm	494 nm	223 nm
z	1.44 μm	1.44 μm	885 nm
Asymmetry	0.886		
Theta	-20.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.992$



Parameters:

A = 1446.690 (brightness)

B = 120.193 (background)

a = 0.608 px

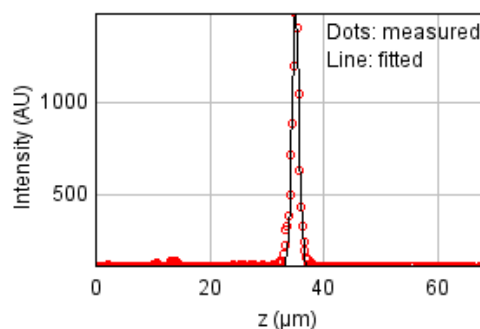
b = -0.053 px

c = 0.729 px

$x_c = 1.115$ px

$y_c = 6.834$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 161137.358

Standard deviation: 22.91020

R^2 : 0.98234

Parameters:

a = 117.48536

b = 1490.10981

c = 35.10683

d = 0.60990

Bead 537

Date : Mon Oct 17 13:28:18 PDT 2022

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

Frame size : 10 pixels

Coordinates : 102 μm (x), -82.1 μm (y), 11.5 μm (z)

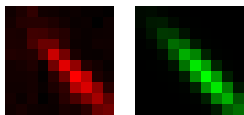
Corresponding bead : Not found



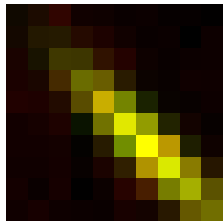
FWHM	Non corrected	Corrected	Theoretical
min	361 nm	373 nm	223 nm
max	1.69 μm	1.74 μm	223 nm
z	2.03 μm	2.04 μm	885 nm
Asymmetry	0.214		
Theta	-45.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 254.712$ (brightness)

$B = 120.498$ (background)

$a = 0.552$ px

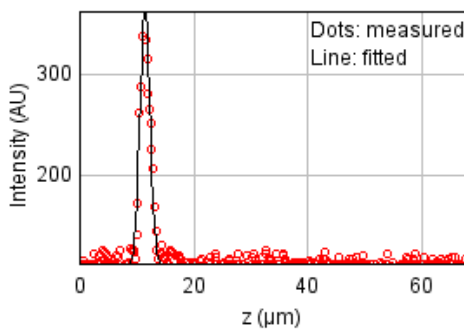
$b = -0.491$ px

$c = 0.525$ px

$x_c = 6.022$ px

$y_c = 5.992$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 22716.4475

Standard deviation: 8.60203

$R^2: 0.94886$

Parameters:

$a = 111.62392$

$b = 363.82831$

$c = 11.54355$

$d = 0.86124$

Bead 538 (Rejected)

Date : Mon Oct 17 13:28:18 PDT 2022

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

Frame size : 10 pixels

Coordinates : -152 μm (x), -88.0 μm (y), 12.3 μm (z)

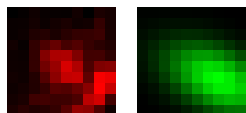
Corresponding bead : Not found

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

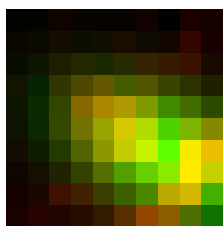
FWHM	Non corrected	Corrected	Theoretical
min	957 nm	989 nm	223 nm
max	1.76 μm	1.82 μm	223 nm
z	4.24 μm	4.25 μm	885 nm
Asymmetry	0.542		
Theta	-25.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.769$



Parameters:

A = 182.139 (brightness)

B = 117.380 (background)

a = 0.063 px

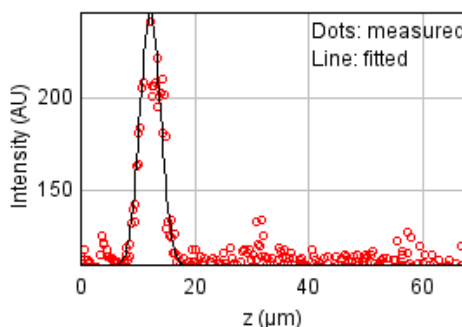
b = -0.041 px

c = 0.127 px

xc = 6.988 px

yc = 6.191 px

Z profile & fitting parameters:



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

Sum of residuals squared: 23891.9759

Standard deviation: 8.82179

R^2 : 0.91010

Parameters:

a = 109.97333

b = 245.68678

c = 12.29543

d = 1.79929

Bead 539

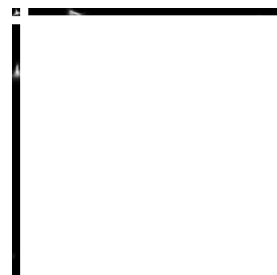
Date : Mon Oct 17 13:28:18 PDT 2022

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

Frame size : 10 pixels

Coordinates : 35.8 μm (x), -88.1 μm (y), 12.4 μm (z)

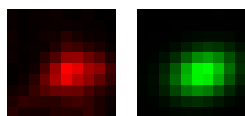
Corresponding bead : Not found



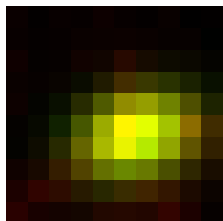
FWHM	Non corrected	Corrected	Theoretical
min	674 nm	697 nm	223 nm
max	958 nm	991 nm	223 nm
z	2.84 μm	2.85 μm	885 nm
Asymmetry	0.703		
Theta	16.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 384.707$ (brightness)

$B = 127.386$ (background)

$a = 0.158$ px

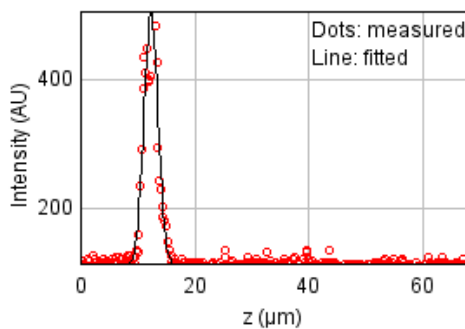
$b = 0.040$ px

$c = 0.284$ px

$x_c = 5.535$ px

$y_c = 5.410$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 81438.6583

Standard deviation: 16.28719

$R^2: 0.94572$

Parameters:

$a = 112.71822$

$b = 507.36659$

$c = 12.41146$

$d = 1.20688$

Bead 540

Date : Mon Oct 17 13:28:18 PDT 2022

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

Frame size : 10 pixels

Coordinates : -39.4 μm (x), -91.3 μm (y), 12.9 μm (z)

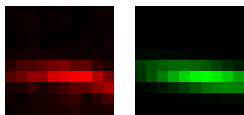
Corresponding bead : Not found



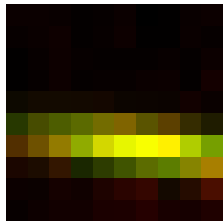
FWHM	Non corrected	Corrected	Theoretical
min	366 nm	379 nm	223 nm
max	1.91 μm	1.97 μm	223 nm
z	1.78 μm	1.79 μm	885 nm
Asymmetry	0.192		
Theta	-6.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 378.007$ (brightness)

$B = 124.199$ (background)

$a = 0.049$ px

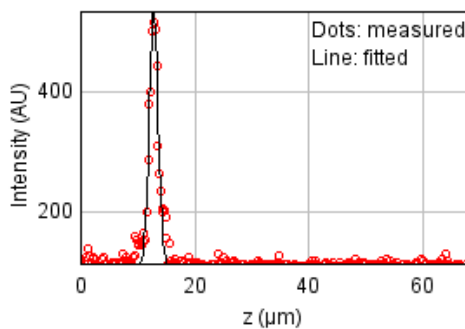
$b = -0.106$ px

$c = 0.989$ px

$x_c = 6.028$ px

$y_c = 6.067$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 50593.5519

Standard deviation: 12.83744

$R^2: 0.95355$

Parameters:

$a = 114.42347$

$b = 535.37543$

$c = 12.87172$

$d = 0.75759$

Bead 541

Date : Mon Oct 17 13:28:18 PDT 2022

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

Frame size : 10 pixels

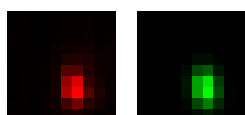
Coordinates : -125 μm (x), -96.5 μm (y), 64.3 μm (z)

Corresponding bead : Not found

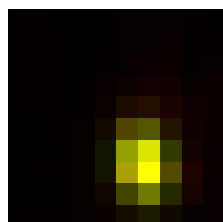
FWHM	Non corrected	Corrected	Theoretical
min	397 nm	410 nm	223 nm
max	568 nm	587 nm	223 nm
z	1.16 μm	1.16 μm	885 nm
Asymmetry	0.7		
Theta	-82.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.981$



Parameters:

A = 888.822 (brightness)

B = 118.078 (background)

a = 0.844 px

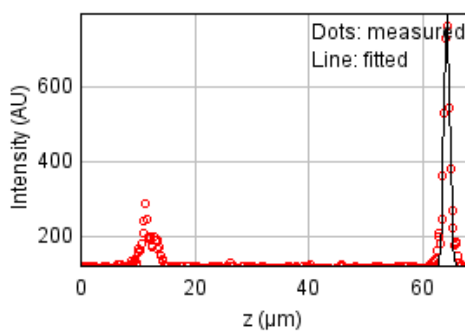
b = -0.054 px

c = 0.424 px

$x_c = 5.748$ px

$y_c = 6.597$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 185699.453

Standard deviation: 24.59439

R^2 : 0.90542

Parameters:

a = 119.22624

b = 798.18437

c = 64.25742

d = 0.49126

Bead 542 (Rejected)

Date : Mon Oct 17 13:28:18 PDT 2022

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

Frame size : 10 pixels

Coordinates : -118 μm (x), 94.5 μm (y), 12.7 μm (z)

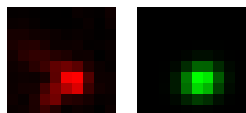
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

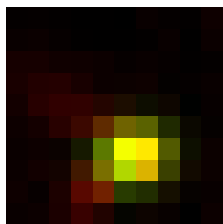
FWHM	Non corrected	Corrected	Theoretical
min	485 nm	501 nm	223 nm
max	572 nm	592 nm	223 nm
z	1.99 μm	2.0 μm	885 nm
Asymmetry	0.847		
Theta	15.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.861$



Parameters:

A = 451.576 (brightness)

B = 127.064 (background)

a = 0.422 px

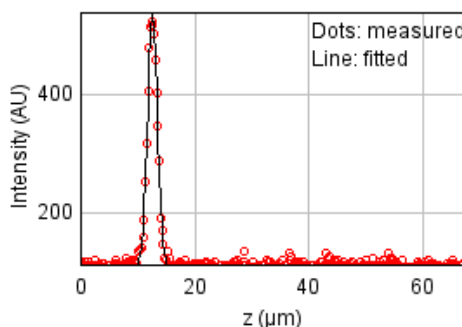
b = 0.042 px

c = 0.560 px

xc = 5.352 px

yc = 6.318 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18303.8188

Standard deviation: 7.72150

R^2 : 0.98494

Parameters:

a = 113.11550

b = 542.11433

c = 12.66308

d = 0.84482

Bead 543

Date : Mon Oct 17 13:28:18 PDT 2022

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

Frame size : 10 pixels

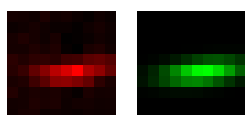
Coordinates : 141 um (x), 76.7 um (y), 11.4 um (z)

Corresponding bead : Not found

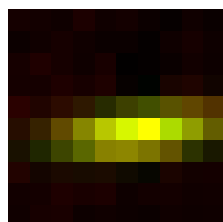
FWHM	Non corrected	Corrected	Theoretical
min	369 nm	382 nm	223 nm
max	1.27 um	1.31 um	223 nm
z	1.95 um	1.95 um	885 nm
Asymmetry	0.291		
Theta	5.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 206.162 (brightness)

B = 115.570 (background)

a = 0.092 px

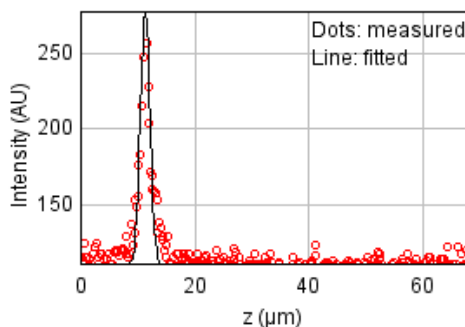
b = 0.089 px

c = 0.975 px

xc = 5.540 px

yc = 5.138 px

Z profile & fitting parameters:



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

Sum of residuals squared: 25900.3196

Standard deviation: 9.18509

R^2 : 0.87439

Parameters:

a = 110.03246

b = 278.27759

c = 11.39681

d = 0.82632

Bead 544

Date : Mon Oct 17 13:28:19 PDT 2022

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

Frame size : 10 pixels

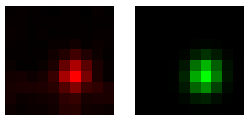
Coordinates : -29.5 μm (x), -27.0 μm (y), 13.1 μm (z)

Corresponding bead : Not found

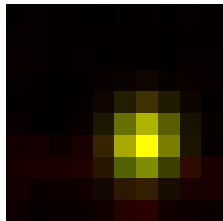
FWHM	Non corrected	Corrected	Theoretical
min	483 nm	499 nm	223 nm
max	539 nm	557 nm	223 nm
z	2.01 μm	2.02 μm	885 nm
Asymmetry	0.896		
Theta	72.4°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.952$



Parameters:

A = 646.687 (brightness)

B = 128.836 (background)

a = 0.565 px

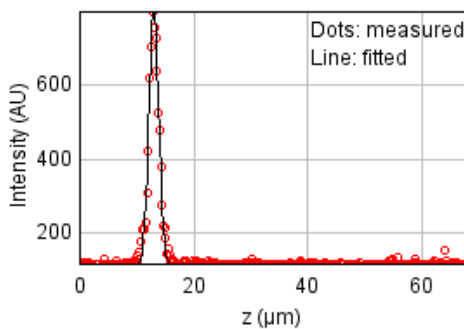
b = 0.032 px

c = 0.472 px

xc = 5.873 px

yc = 5.879 px

Z profile & fitting parameters:



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

Sum of residuals squared: 51645.1598

Standard deviation: 12.97017

R^2 : 0.98365

Parameters:

a = 115.28280

b = 803.08796

c = 13.07300

d = 0.85341

Bead 545

Date : Mon Oct 17 13:28:19 PDT 2022

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

Frame size : 10 pixels

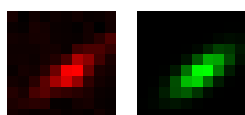
Coordinates : -139 μm (x), -39.6 μm (y), 12.1 μm (z)

Corresponding bead : Not found

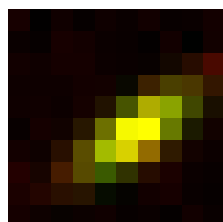
FWHM	Non corrected	Corrected	Theoretical
min	392 nm	405 nm	223 nm
max	977 nm	1.01 μm	223 nm
z	1.95 μm	1.96 μm	885 nm
Asymmetry	0.401		
Theta	35.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 383.161 (brightness)

B = 128.597 (background)

a = 0.387 px

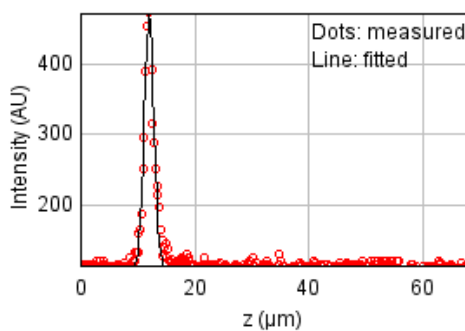
b = 0.347 px

c = 0.630 px

xc = 5.417 px

yc = 5.133 px

Z profile & fitting parameters:



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

Sum of residuals squared: 31106.7745

Standard deviation: 10.06603

R^2 : 0.96373

Parameters:

a = 112.15175

b = 472.14156

c = 12.08099

d = 0.82754

Bead 546 (Rejected)

Date : Mon Oct 17 13:28:19 PDT 2022

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

Frame size : 10 pixels

Coordinates : 102 μm (x), -69.7 μm (y), 12.1 μm (z)

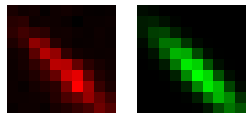
Corresponding bead : Not found

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

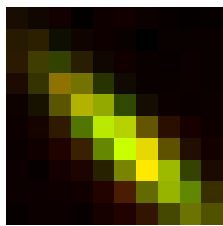
FWHM	Non corrected	Corrected	Theoretical
min	414 nm	428 nm	223 nm
max	1.75 μm	1.81 μm	223 nm
z	2.42 μm	2.43 μm	885 nm
Asymmetry	0.237		
Theta	-43.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.947$



Parameters:

A = 280.716 (brightness)

B = 117.649 (background)

a = 0.398 px

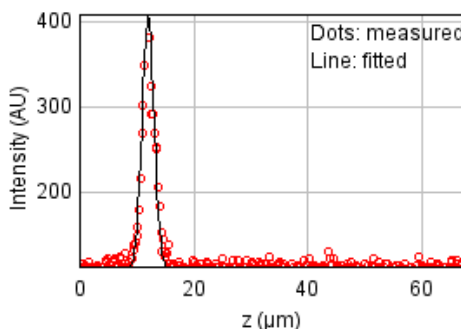
b = -0.370 px

c = 0.430 px

xc = 5.199 px

yc = 5.901 px

Z profile & fitting parameters:



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

Sum of residuals squared: 36827.9821

Standard deviation: 10.95266

R^2 : 0.94894

Parameters:

a = 111.67372

b = 407.45080

c = 12.08723

d = 1.02625

Bead 547 (Rejected)

Date : Mon Oct 17 13:28:19 PDT 2022

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

Frame size : 10 pixels

Coordinates : 10.1 μm (x), -80.1 μm (y), 13.8 μm (z)

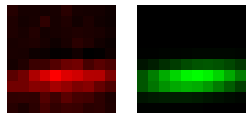
Corresponding bead : Not found

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

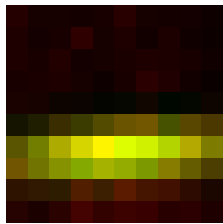
FWHM	Non corrected	Corrected	Theoretical
min	424 nm	439 nm	223 nm
max	1.79 μm	1.85 μm	223 nm
z	3.01 μm	3.03 μm	885 nm
Asymmetry	0.238		
Theta	3.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 149.203 (brightness)

B = 117.042 (background)

a = 0.044 px

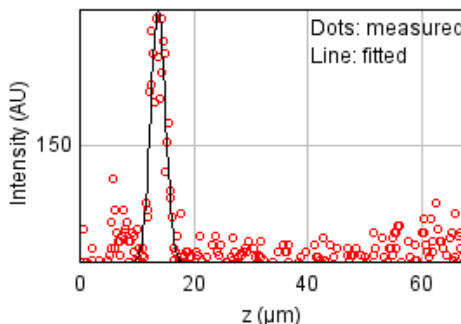
b = 0.038 px

c = 0.743 px

xc = 4.761 px

yc = 6.254 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16920.8477

Standard deviation: 7.42407

R^2 : 0.78108

Parameters:

a = 113.27827

b = 192.48509

c = 13.82318

d = 1.28016

Bead 548 (Rejected)

Date : Mon Oct 17 13:28:19 PDT 2022

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

Frame size : 10 pixels

Coordinates : -14.9 μm (x), -82.2 μm (y), 11.9 μm (z)

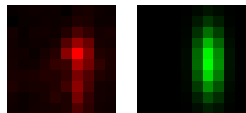
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

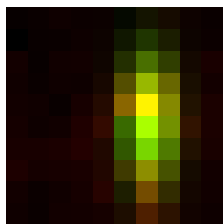
FWHM	Non corrected	Corrected	Theoretical
min	431 nm	446 nm	223 nm
max	1.08 μm	1.12 μm	223 nm
z	1.29 μm	1.3 μm	885 nm
Asymmetry	0.397		
Theta	-89.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.858$



Parameters:

A = 282.496 (brightness)

B = 120.984 (background)

a = 0.722 px

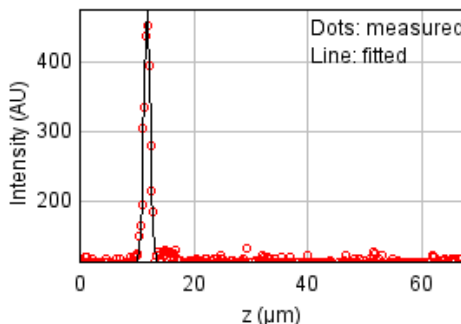
b = -0.004 px

c = 0.114 px

xc = 6.108 px

yc = 4.717 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16011.5337

Standard deviation: 7.22183

R^2 : 0.97234

Parameters:

a = 113.69086

b = 475.43785

c = 11.90330

d = 0.54959

Bead 549 (Rejected)

Date : Mon Oct 17 13:28:19 PDT 2022

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

Frame size : 10 pixels

Coordinates : 88.4 μm (x), -89.8 μm (y), 46.6 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	1.14 μm	1.15 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

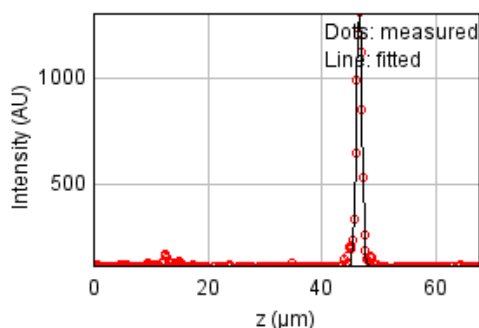
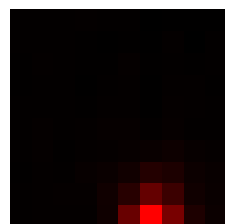
XY profile & fitting parameters :

(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: 68801.8658

Standard deviation: 14.97031

R²: 0.98738

Parameters:

a = 116.53667

b = 1305.72678

c = 46.59418

d = 0.48472

Bead 550 (Rejected)

Date : Mon Oct 17 13:28:19 PDT 2022

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

Frame size : 10 pixels

Coordinates : 14.7 μm (x), -95.0 μm (y), 10.9 μm (z)

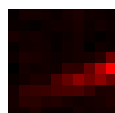
Corresponding bead : Not found

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	2.09 μm	2.1 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

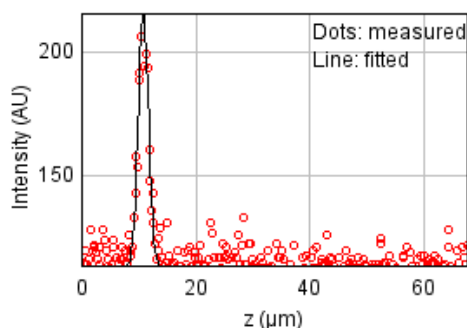
XY profile & fitting parameters :

(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: 12885.1071

Standard deviation: 6.47851

R^2 : 0.84953

Parameters:

$a = 113.12853$

$b = 216.34293$

$c = 10.90545$

$d = 0.88896$

Bead 551

Date : Mon Oct 17 13:28:19 PDT 2022

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

Frame size : 10 pixels

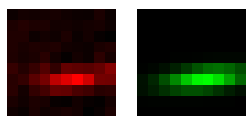
Coordinates : 144 μm (x), 74.2 μm (y), 11.5 μm (z)

Corresponding bead : Not found

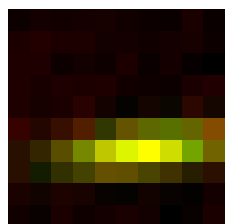
FWHM	Non corrected	Corrected	Theoretical
min	347 nm	358 nm	223 nm
max	1.33 μm	1.37 μm	223 nm
z	2.01 μm	2.02 μm	885 nm
Asymmetry	0.261		
Theta	5.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 158.679$ (brightness)

$B = 115.173$ (background)

$a = 0.086$ px

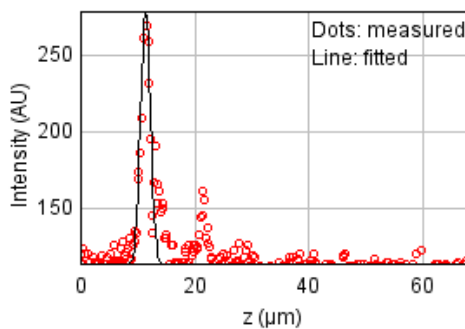
$b = 0.101$ px

$c = 1.107$ px

$x_c = 5.810$ px

$y_c = 5.918$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 42065.1120

Standard deviation: 11.70555

$R^2: 0.80810$

Parameters:

$a = 113.74599$

$b = 278.00982$

$c = 11.45961$

$d = 0.85288$

Bead 552

Date : Mon Oct 17 13:28:19 PDT 2022

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

Frame size : 10 pixels

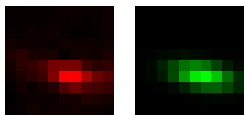
Coordinates : 113 um (x), 33.2 um (y), 12.1 um (z)

Corresponding bead : Not found

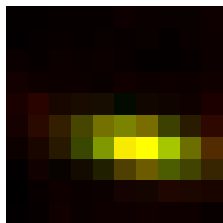
FWHM	Non corrected	Corrected	Theoretical
min	373 nm	385 nm	223 nm
max	959 nm	992 nm	223 nm
z	1.7 um	1.7 um	885 nm
Asymmetry	0.389		
Theta	-9.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 363.998 (brightness)

B = 116.118 (background)

a = 0.170 px

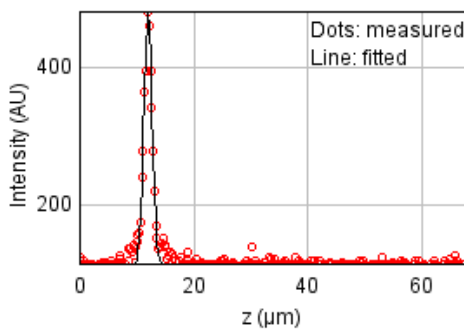
b = -0.138 px

c = 0.942 px

xc = 5.680 px

yc = 5.903 px

Z profile & fitting parameters:



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

Sum of residuals squared: 24370.4899

Standard deviation: 8.90970

R^2 : 0.96886

Parameters:

a = 112.81388

b = 481.34008

c = 12.07102

d = 0.72003

Bead 553 (Rejected)

Date : Mon Oct 17 13:28:19 PDT 2022

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

Frame size : 10 pixels

Coordinates : 164 μm (x), 17.9 μm (y), 11.2 μm (z)

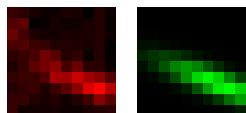
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

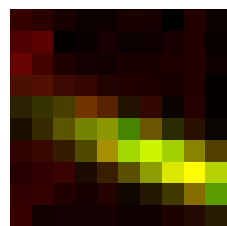
FWHM	Non corrected	Corrected	Theoretical
min	398 nm	412 nm	223 nm
max	1.9 μm	1.96 μm	223 nm
z	1.79 μm	1.8 μm	885 nm
Asymmetry	0.21		
Theta	-21.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.822$



Parameters:

A = 104.106 (brightness)

B = 115.180 (background)

a = 0.143 px

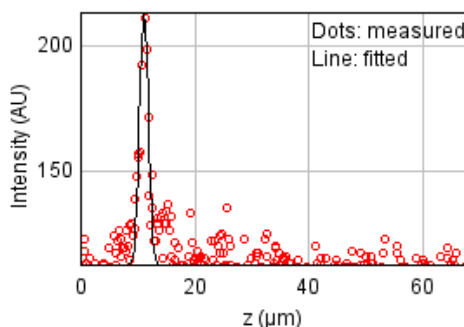
b = -0.272 px

c = 0.742 px

xc = 7.050 px

yc = 6.587 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17940.6983

Standard deviation: 7.64452

R^2 : 0.77320

Parameters:

a = 111.81939

b = 213.76641

c = 11.18078

d = 0.76072

Bead 554

Date : Mon Oct 17 13:28:20 PDT 2022

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

Frame size : 10 pixels

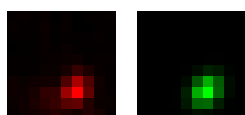
Coordinates : -63.0 μm (x), 2.89 μm (y), 13.3 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	405 nm	419 nm	223 nm
max	518 nm	536 nm	223 nm
z	1.77 μm	1.77 μm	885 nm
Asymmetry	0.782		
Theta	47.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.948$



Parameters:

$A = 746.597$ (brightness)

$B = 129.676$ (background)

$a = 0.674$ px

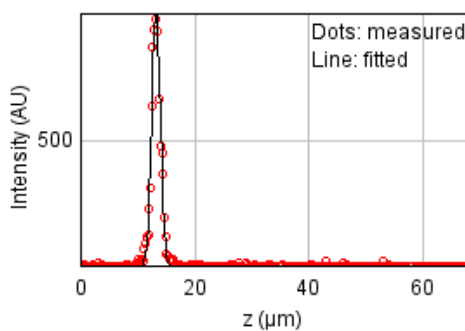
$b = 0.158$ px

$c = 0.642$ px

$x_c = 5.820$ px

$y_c = 6.846$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 56529.3425

Standard deviation: 13.56962

$R^2: 0.98464$

Parameters:

$a = 112.78187$

$b = 902.88137$

$c = 13.29743$

$d = 0.74984$

Bead 555

Date : Mon Oct 17 13:28:20 PDT 2022

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

Frame size : 10 pixels

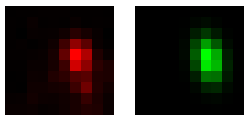
Coordinates : 13.9 μm (x), -53.5 μm (y), 12.5 μm (z)

Corresponding bead : Not found

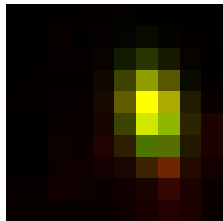
FWHM	Non corrected	Corrected	Theoretical
min	427 nm	441 nm	223 nm
max	702 nm	725 nm	223 nm
z	1.36 μm	1.37 μm	885 nm
Asymmetry	0.609		
Theta	-78.4°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.915$



Parameters:

$A = 914.912$ (brightness)

$B = 138.666$ (background)

$a = 0.717$ px

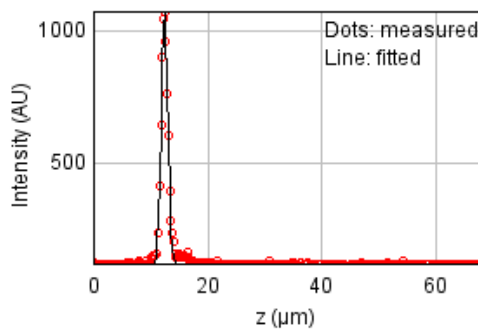
$b = -0.091$ px

$c = 0.291$ px

$x_c = 6.266$ px

$y_c = 4.407$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 47984.6229

Standard deviation: 12.50207

$R^2 = 0.98863$

Parameters:

$a = 116.32937$

$b = 1076.60967$

$c = 12.51134$

$d = 0.57933$

Bead 556

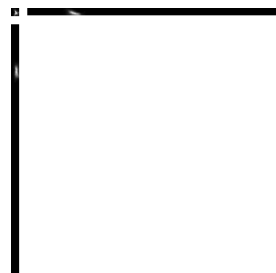
Date : Mon Oct 17 13:28:20 PDT 2022

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

Frame size : 10 pixels

Coordinates : 67.7 μm (x), -64.6 μm (y), 12.6 μm (z)

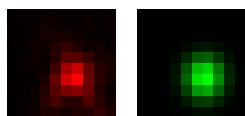
Corresponding bead : Not found



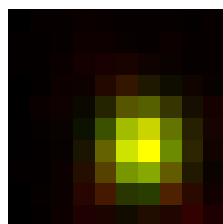
FWHM	Non corrected	Corrected	Theoretical
min	609 nm	630 nm	223 nm
max	669 nm	691 nm	223 nm
z	1.82 μm	1.83 μm	885 nm
Asymmetry	0.911		
Theta	88.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 430.344$ (brightness)

$B = 124.814$ (background)

$a = 0.362$ px

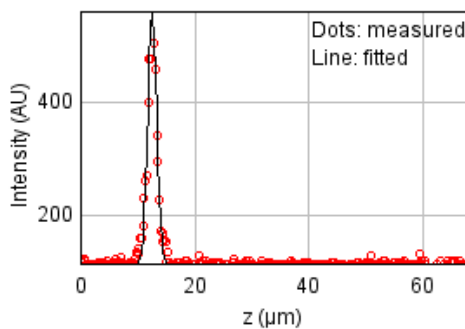
$b = 0.002$ px

$c = 0.300$ px

$x_c = 5.663$ px

$y_c = 5.811$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 27729.4557

Standard deviation: 9.50389

$R^2: 0.97794$

Parameters:

$a = 112.26045$

$b = 565.41968$

$c = 12.61834$

$d = 0.77429$

Bead 557 (Rejected)

Date : Mon Oct 17 13:28:20 PDT 2022

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

Frame size : 10 pixels

Coordinates : -6.3 μm (x), -74.4 μm (y), 12.4 μm (z)

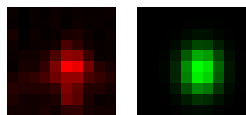
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

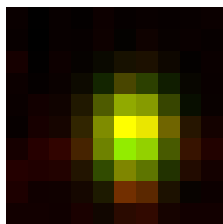
FWHM	Non corrected	Corrected	Theoretical
min	613 nm	634 nm	223 nm
max	745 nm	771 nm	223 nm
z	1.48 μm	1.49 μm	885 nm
Asymmetry	0.823		
Theta	86.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.883$



Parameters:

A = 284.960 (brightness)

B = 119.555 (background)

a = 0.356 px

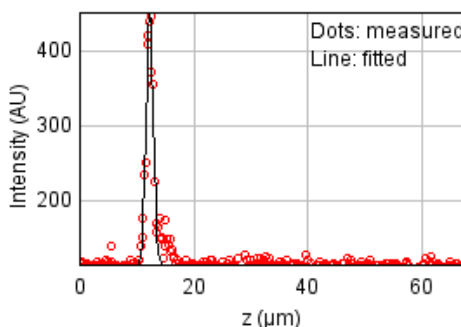
b = 0.006 px

c = 0.242 px

xc = 5.345 px

yc = 5.326 px

Z profile & fitting parameters:



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

Sum of residuals squared: 35554.3473

Standard deviation: 10.76161

R^2 : 0.93962

Parameters:

a = 115.45255

b = 451.13933

c = 12.35730

d = 0.63027

Bead 558 (Rejected)

Date : Mon Oct 17 13:28:20 PDT 2022

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

Frame size : 10 pixels

Coordinates : 15.2 μm (x), 93.6 μm (y), 2.97 μm (z)

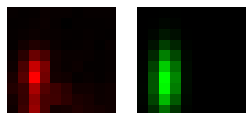
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

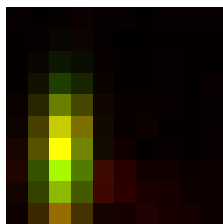
FWHM	Non corrected	Corrected	Theoretical
min	389 nm	402 nm	223 nm
max	1.03 μm	1.06 μm	223 nm
z	1.29 μm	1.3 μm	885 nm
Asymmetry	0.378		
Theta	88.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.894$



Parameters:

A = 533.672 (brightness)

B = 125.680 (background)

a = 0.887 px

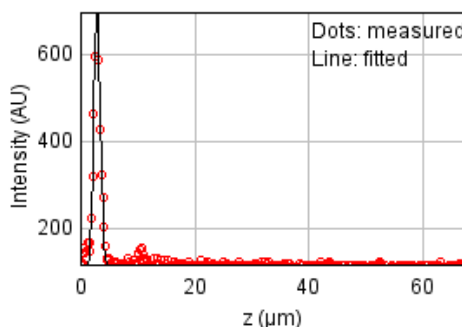
b = 0.020 px

c = 0.128 px

xc = 2.123 px

yc = 6.356 px

Z profile & fitting parameters:



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

Sum of residuals squared: 36488.8148

Standard deviation: 10.90211

R^2 : 0.97646

Parameters:

a = 116.00988

b = 709.40438

c = 2.96694

d = 0.54932

Bead 559 (Rejected)

Date : Mon Oct 17 13:28:20 PDT 2022

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

Frame size : 10 pixels

Coordinates : -35.9 μm (x), 86.9 μm (y), 62.3 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	1.09 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

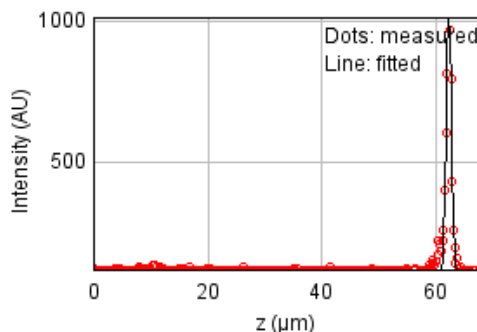
XY profile & fitting parameters :

(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: 64784.9964

Standard deviation: 14.52674

R^2 : 0.97860

Parameters:

$a = 115.94661$

$b = 1020.56466$

$c = 62.31201$

$d = 0.46041$

Bead 560

Date : Mon Oct 17 13:28:20 PDT 2022

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

Frame size : 10 pixels

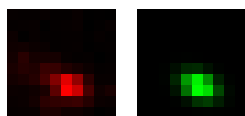
Coordinates : -131 μm (x), 69.4 μm (y), 12.7 μm (z)

Corresponding bead : Not found

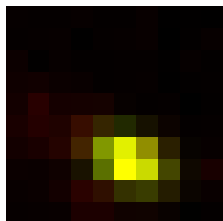
FWHM	Non corrected	Corrected	Theoretical
min	380 nm	392 nm	223 nm
max	569 nm	588 nm	223 nm
z	1.9 μm	1.91 μm	885 nm
Asymmetry	0.667		
Theta	-22.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 598.288 (brightness)

B = 126.761 (background)

a = 0.491 px

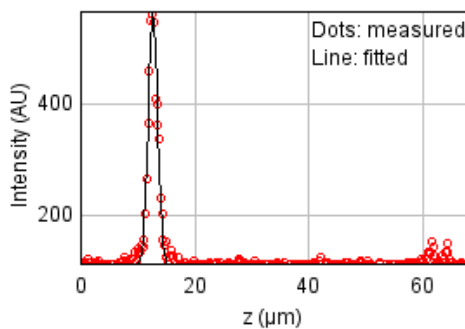
b = -0.184 px

c = 0.855 px

xc = 5.181 px

yc = 6.575 px

Z profile & fitting parameters:



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

Sum of residuals squared: 40071.0214

Standard deviation: 11.42473

R^2 : 0.96929

Parameters:

a = 112.86023

b = 563.77088

c = 12.73999

d = 0.80603

Bead 561

Date : Mon Oct 17 13:28:20 PDT 2022

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

Frame size : 10 pixels

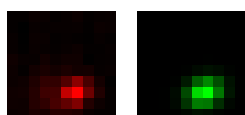
Coordinates : -86.8 μm (x), 54.6 μm (y), 13.8 μm (z)

Corresponding bead : Not found

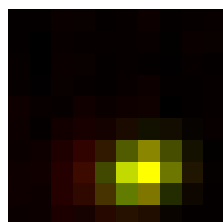
FWHM	Non corrected	Corrected	Theoretical
min	423 nm	438 nm	223 nm
max	562 nm	581 nm	223 nm
z	2.27 μm	2.28 μm	885 nm
Asymmetry	0.753		
Theta	20.2°		

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 = 450.598 (brightness)

B = 125.676 (background)

a = 0.463 px

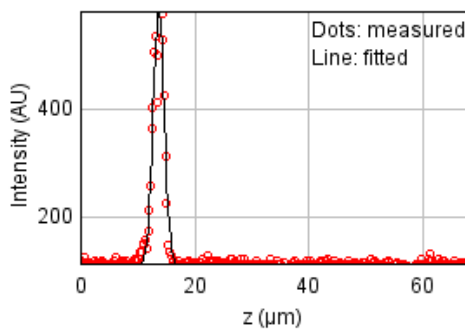
b = 0.105 px

c = 0.711 px

$x_c = 5.671$ px

$y_c = 7.003$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 72381.2708

Standard deviation: 15.35479

R^2 : 0.95715

Parameters:

a = 113.40859

b = 581.44824

c = 13.75206

d = 0.96483

Bead 562 (Rejected)

Date : Mon Oct 17 13:28:20 PDT 2022

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

Frame size : 10 pixels

Coordinates : 164 μm (x), 17.8 μm (y), 11.2 μm (z)

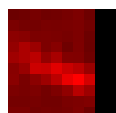
Corresponding bead : Not found

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	1.79 μm	1.8 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

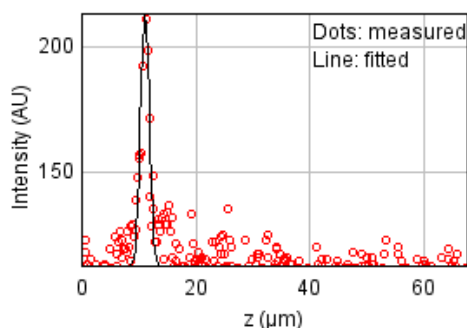
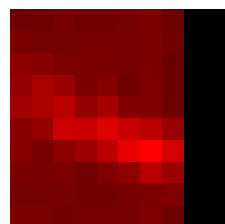
XY profile & fitting parameters :

(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: 17940.6983

Standard deviation: 7.64452

R²: 0.77320

Parameters:

a = 111.81939

b = 213.76641

c = 11.18078

d = 0.76072

Bead 563

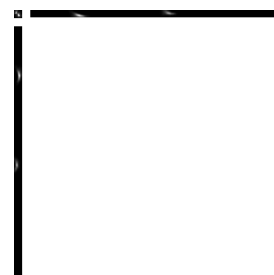
Date : Mon Oct 17 13:28:20 PDT 2022

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

Frame size : 10 pixels

Coordinates : 46.8 μm (x), 14.3 μm (y), 13.2 μm (z)

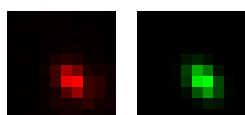
Corresponding bead : Not found



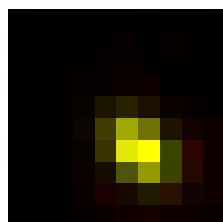
FWHM	Non corrected	Corrected	Theoretical
min	382 nm	394 nm	223 nm
max	555 nm	574 nm	223 nm
z	1.44 μm	1.44 μm	885 nm
Asymmetry	0.687		
Theta	-48.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1100.995$ (brightness)

$B = 127.063$ (background)

$a = 0.705$ px

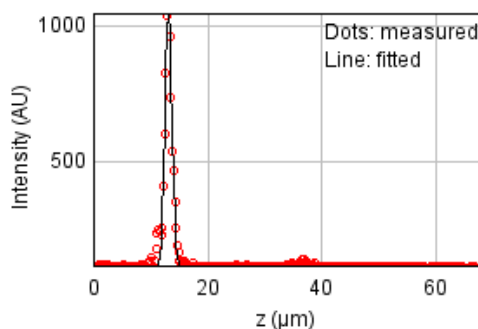
$b = -0.242$ px

$c = 0.652$ px

$x_c = 5.549$ px

$y_c = 5.944$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 105323.055

Standard deviation: 18.52220

$R^2: 0.97488$

Parameters:

$a = 116.70561$

$b = 1043.86017$

$c = 13.18502$

$d = 0.60960$

Bead 564

Date : Mon Oct 17 13:28:21 PDT 2022

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

Frame size : 10 pixels

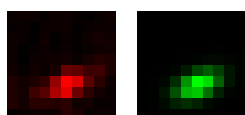
Coordinates : -137 μm (x), 3.45 μm (y), 12.5 μm (z)

Corresponding bead : Not found

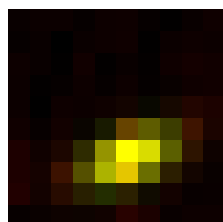
FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	724 nm	748 nm	223 nm
z	1.74 μm	1.75 μm	885 nm
Asymmetry	0.54		
Theta	22.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.956$



Parameters:

A = 369.112 (brightness)

B = 120.249 (background)

a = 0.348 px

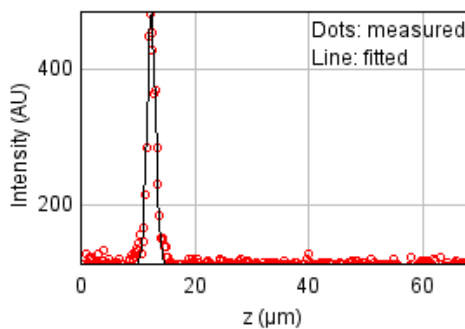
b = 0.221 px

c = 0.787 px

xc = 5.084 px

yc = 6.315 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33024.5232

Standard deviation: 10.37168

R^2 : 0.96077

Parameters:

a = 112.17772

b = 487.69997

c = 12.46607

d = 0.74049

Bead 565

Date : Mon Oct 17 13:28:21 PDT 2022

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

Frame size : 10 pixels

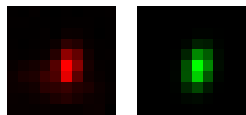
Coordinates : -44.0 μm (x), 3.69 μm (y), 13.7 μm (z)

Corresponding bead : Not found

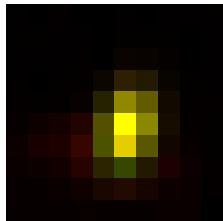
FWHM	Non corrected	Corrected	Theoretical
min	381 nm	394 nm	223 nm
max	582 nm	602 nm	223 nm
z	1.82 μm	1.83 μm	885 nm
Asymmetry	0.655		
Theta	76.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1115.564$ (brightness)

$B = 137.078$ (background)

$a = 0.896$ px

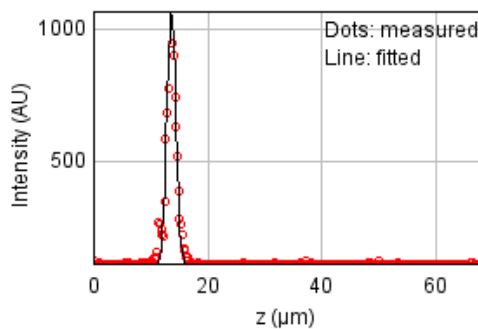
$b = 0.118$ px

$c = 0.424$ px

$x_c = 5.119$ px

$y_c = 5.214$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 173033.937

Standard deviation: 23.74086

$R^2: 0.96908$

Parameters:

$a = 114.46232$

$b = 1067.43792$

$c = 13.69545$

$d = 0.77248$

Bead 566

Date : Mon Oct 17 13:28:21 PDT 2022

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

Frame size : 10 pixels

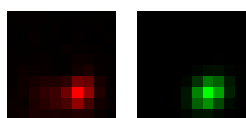
Coordinates : -86.7 μm (x), 648 nm (y), 13.6 μm (z)

Corresponding bead : Not found

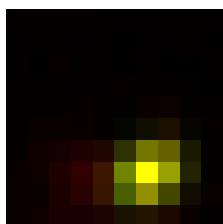
FWHM	Non corrected	Corrected	Theoretical
min	422 nm	437 nm	223 nm
max	529 nm	547 nm	223 nm
z	1.75 μm	1.75 μm	885 nm
Asymmetry	0.799		
Theta	33.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 838.640$ (brightness)

$B = 130.998$ (background)

$a = 0.561$ px

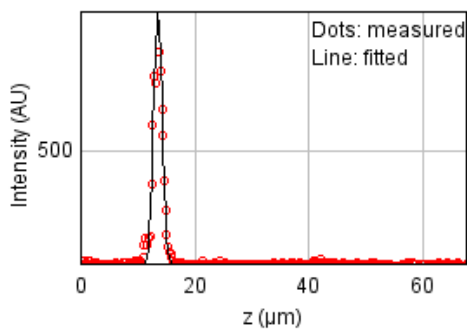
$b = 0.124$ px

$c = 0.672$ px

$x_c = 6.079$ px

$y_c = 7.056$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 90844.1329

Standard deviation: 17.20201

$R^2: 0.97882$

Parameters:

$a = 115.37227$

$b = 970.53740$

$c = 13.60803$

$d = 0.74124$

Bead 567

Date : Mon Oct 17 13:28:21 PDT 2022

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

Frame size : 10 pixels

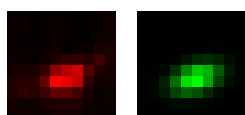
Coordinates : -130 μm (x), -593 nm (y), 12.7 μm (z)

Corresponding bead : Not found

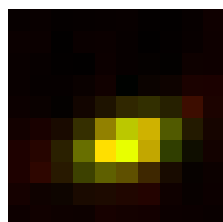
FWHM	Non corrected	Corrected	Theoretical
min	423 nm	437 nm	223 nm
max	762 nm	788 nm	223 nm
z	1.88 μm	1.89 μm	885 nm
Asymmetry	0.554		
Theta	18.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.952$



Parameters:

A = 426.222 (brightness)

B = 120.434 (background)

a = 0.281 px

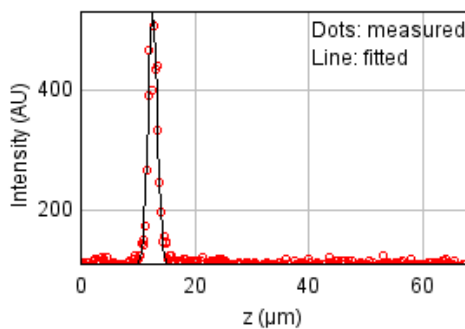
b = 0.154 px

c = 0.701 px

xc = 4.907 px

yc = 5.694 px

Z profile & fitting parameters:



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

Sum of residuals squared: 47541.3520

Standard deviation: 12.44419

R^2 : 0.95816

Parameters:

a = 111.10288

b = 531.22019

c = 12.69045

d = 0.79894

Bead 568

Date : Mon Oct 17 13:28:21 PDT 2022

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

Frame size : 10 pixels

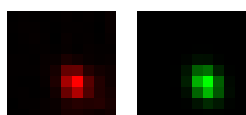
Coordinates : 71.5 μm (x), -12.8 μm (y), 12.9 μm (z)

Corresponding bead : Not found

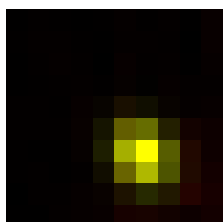
FWHM	Non corrected	Corrected	Theoretical
min	417 nm	431 nm	223 nm
max	510 nm	527 nm	223 nm
z	1.47 μm	1.48 μm	885 nm
Asymmetry	0.818		
Theta	-57.3°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.972$



Parameters:

A = 873.391 (brightness)

B = 121.927 (background)

a = 0.697 px

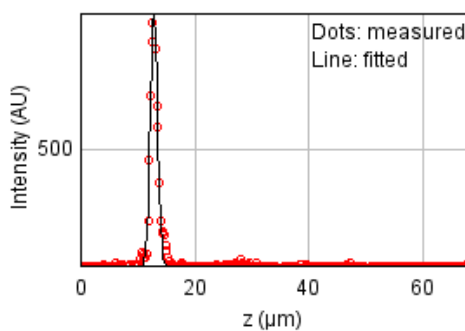
b = -0.116 px

c = 0.590 px

xc = 5.803 px

yc = 6.184 px

Z profile & fitting parameters:



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

Sum of residuals squared: 64452.4296

Standard deviation: 14.48940

R^2 : 0.98172

Parameters:

a = 115.14850

b = 957.76505

c = 12.91537

d = 0.62572

Bead 569

Date : Mon Oct 17 13:28:21 PDT 2022

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

Frame size : 10 pixels

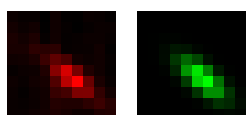
Coordinates : 88.8 μm (x), -41.5 μm (y), 12.6 μm (z)

Corresponding bead : Not found

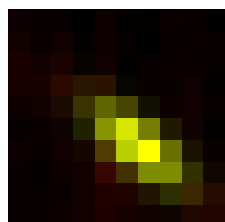
FWHM	Non corrected	Corrected	Theoretical
min	366 nm	378 nm	223 nm
max	887 nm	917 nm	223 nm
z	1.88 μm	1.89 μm	885 nm
Asymmetry	0.412		
Theta	-40.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 416.483 (brightness)

B = 125.018 (background)

a = 0.519 px

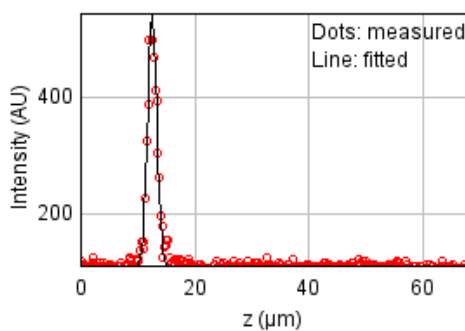
b = -0.411 px

c = 0.654 px

xc = 5.489 px

yc = 5.727 px

Z profile & fitting parameters:



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

Sum of residuals squared: 28902.8228

Standard deviation: 9.70289

R^2 : 0.97536

Parameters:

a = 112.01011

b = 542.75114

c = 12.61569

d = 0.79871

Bead 570 (Rejected)

Date : Mon Oct 17 13:28:21 PDT 2022

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

Frame size : 10 pixels

Coordinates : -43.0 μm (x), -42.6 μm (y), 13.1 μm (z)

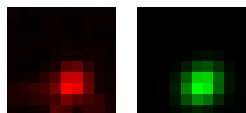
Corresponding bead : Not found

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

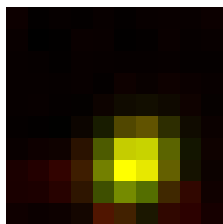
FWHM	Non corrected	Corrected	Theoretical
min	534 nm	553 nm	223 nm
max	628 nm	650 nm	223 nm
z	3.96 μm	3.98 μm	885 nm
Asymmetry	0.85		
Theta	39.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 487.366 (brightness)

B = 124.980 (background)

a = 0.392 px

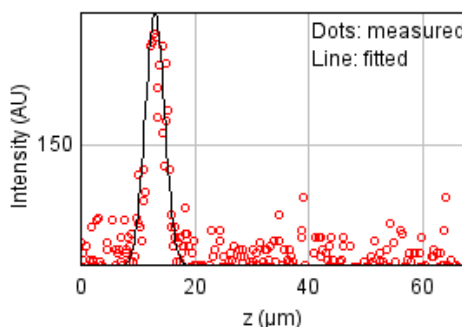
b = 0.064 px

c = 0.417 px

xc = 5.426 px

yc = 6.700 px

Z profile & fitting parameters:



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

Sum of residuals squared: 21243.9113

Standard deviation: 8.31856

R^2 : 0.78130

Parameters:

a = 112.91938

b = 191.28174

c = 13.09966

d = 1.68208

Bead 571

Date : Mon Oct 17 13:28:21 PDT 2022

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

Frame size : 10 pixels

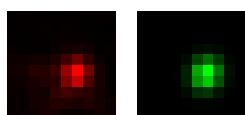
Coordinates : -79.7 μm (x), -56.2 μm (y), 12.9 μm (z)

Corresponding bead : Not found

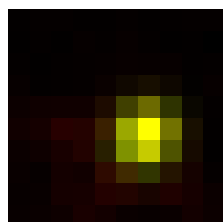
FWHM	Non corrected	Corrected	Theoretical
min	459 nm	474 nm	223 nm
max	502 nm	519 nm	223 nm
z	1.42 μm	1.43 μm	885 nm
Asymmetry	0.913		
Theta	61.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 804.436 (brightness)

B = 133.511 (background)

a = 0.614 px

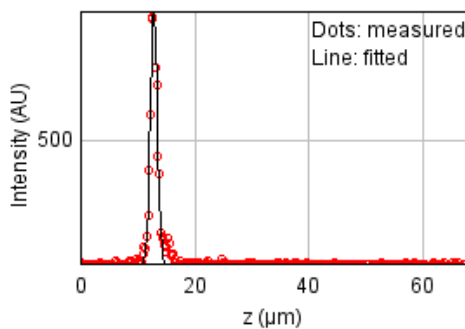
b = 0.044 px

c = 0.556 px

$x_c = 5.818$ px

$y_c = 5.307$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 72549.6248

Standard deviation: 15.37264

R^2 : 0.97641

Parameters:

a = 114.40260

b = 913.06427

c = 12.89588

d = 0.60342

Bead 572 (Rejected)

Date : Mon Oct 17 13:28:22 PDT 2022

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

Frame size : 10 pixels

Coordinates : -82.5 μm (x), -82.7 μm (y), 38.7 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	1.32 μm	1.33 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

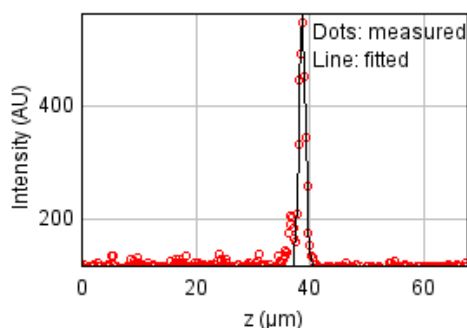
XY profile & fitting parameters :

(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: 50059.1422

Standard deviation: 12.76946

R^2 : 0.94566

Parameters:

a = 116.12532

b = 561.91788

c = 38.74712

d = 0.56059

Bead 573

Date : Mon Oct 17 13:28:22 PDT 2022

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

Frame size : 10 pixels

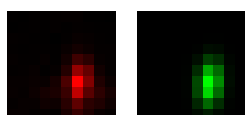
Coordinates : 5.76 μm (x), 63.8 μm (y), 13.4 μm (z)

Corresponding bead : Not found

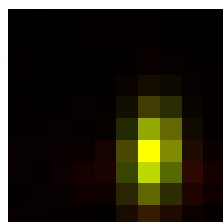
FWHM	Non corrected	Corrected	Theoretical
min	377 nm	390 nm	223 nm
max	686 nm	709 nm	223 nm
z	1.49 μm	1.49 μm	885 nm
Asymmetry	0.55		
Theta	84.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 763.191 (brightness)

B = 127.197 (background)

a = 0.938 px

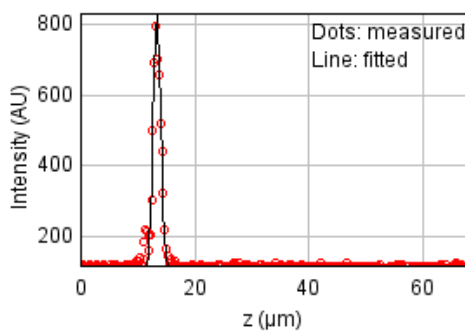
b = 0.061 px

c = 0.291 px

xc = 6.163 px

yc = 6.181 px

Z profile & fitting parameters:



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

Sum of residuals squared: 73970.6753

Standard deviation: 15.52246

R^2 : 0.97136

Parameters:

a = 116.04287

b = 830.55204

c = 13.44913

d = 0.63074

Bead 574 (Rejected)

Date : Mon Oct 17 13:28:22 PDT 2022

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

Frame size : 10 pixels

Coordinates : 72.4 μm (x), 59.0 μm (y), 61.7 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	1.14 μm	1.15 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

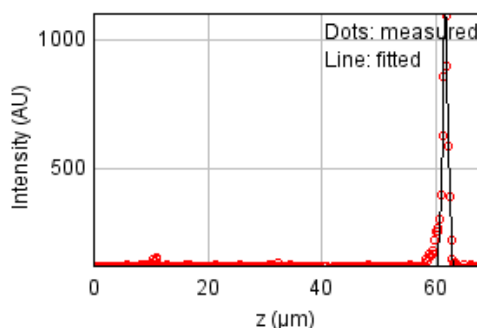
XY profile & fitting parameters :

(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: 103358.013

Standard deviation: 18.34860

R²: 0.97404

Parameters:

a = 115.84282

b = 1124.07491

c = 61.69361

d = 0.48587

Bead 575

Date : Mon Oct 17 13:28:22 PDT 2022

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

Frame size : 10 pixels

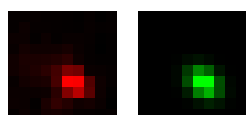
Coordinates : -122 μm (x), 53.4 μm (y), 13.3 μm (z)

Corresponding bead : Not found

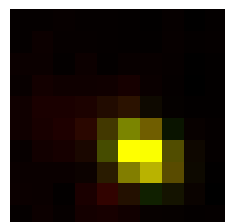
FWHM	Non corrected	Corrected	Theoretical
min	405 nm	418 nm	223 nm
max	537 nm	555 nm	223 nm
z	1.59 μm	1.6 μm	885 nm
Asymmetry	0.754		
Theta	-38.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 708.826 (brightness)

B = 124.956 (background)

a = 0.604 px

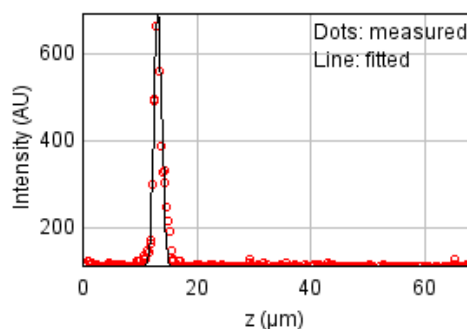
b = -0.173 px

c = 0.680 px

$x_c = 5.535$ px

$y_c = 6.117$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 97784.7288

Standard deviation: 17.84705

R^2 : 0.94813

Parameters:

a = 112.86495

b = 696.55955

c = 13.26892

d = 0.67508

Bead 576 (Rejected)

Date : Mon Oct 17 13:28:22 PDT 2022

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

Frame size : 10 pixels

Coordinates : 129 μm (x), 14.6 μm (y), 12.7 μm (z)

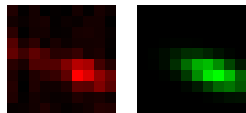
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

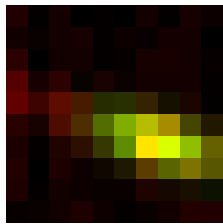
FWHM	Non corrected	Corrected	Theoretical
min	403 nm	417 nm	223 nm
max	1.02 μm	1.05 μm	223 nm
z	2.95 μm	2.96 μm	885 nm
Asymmetry	0.396		
Theta	-17.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.827$



Parameters:

A = 157.557 (brightness)

B = 119.679 (background)

a = 0.195 px

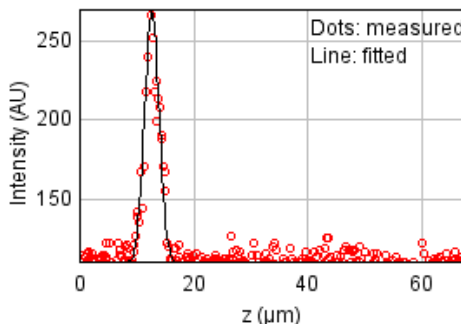
b = -0.203 px

c = 0.760 px

xc = 6.516 px

yc = 5.766 px

Z profile & fitting parameters:



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

Sum of residuals squared: 25766.5168

Standard deviation: 9.16133

R^2 : 0.90153

Parameters:

a = 111.00010

b = 269.17104

c = 12.73282

d = 1.25237

Bead 577 (Rejected)

Date : Mon Oct 17 13:28:22 PDT 2022

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

Frame size : 10 pixels

Coordinates : -37.6 μm (x), -17.8 μm (y), 11.9 μm (z)

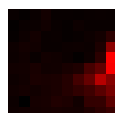
Corresponding bead : Not found

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	3.44 μm	3.45 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

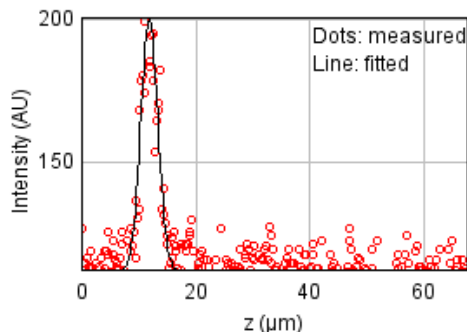
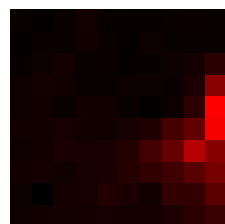
XY profile & fitting parameters :

(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: 18034.9174

Standard deviation: 7.66457

R²: 0.82613

Parameters:

a = 112.22114

b = 201.00591

c = 11.94803

d = 1.46095

Bead 578

Date : Mon Oct 17 13:28:22 PDT 2022

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

Frame size : 10 pixels

Coordinates : -29.8 μm (x), -41.4 μm (y), 13.2 μm (z)

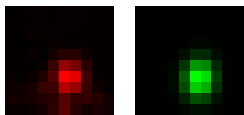
Corresponding bead : Not found



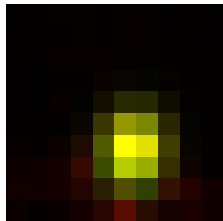
FWHM	Non corrected	Corrected	Theoretical
min	479 nm	495 nm	223 nm
max	602 nm	622 nm	223 nm
z	1.75 μm	1.76 μm	885 nm
Asymmetry	0.796		
Theta	86.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 562.949 (brightness)

B = 123.126 (background)

a = 0.585 px

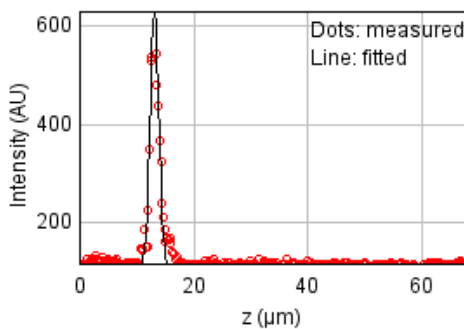
b = 0.014 px

c = 0.371 px

xc = 5.379 px

yc = 6.185 px

Z profile & fitting parameters:



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

Sum of residuals squared: 61592.1522

Standard deviation: 14.16425

R^2 : 0.96097

Parameters:

a = 115.29176

b = 628.54338

c = 13.19430

d = 0.74354

Bead 579

Date : Mon Oct 17 13:28:23 PDT 2022

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

Frame size : 10 pixels

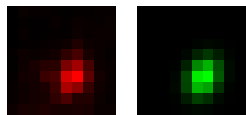
Coordinates : -91.2 μm (x), -54.6 μm (y), 13.0 μm (z)

Corresponding bead : Not found

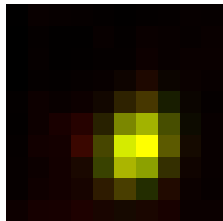
FWHM	Non corrected	Corrected	Theoretical
min	469 nm	485 nm	223 nm
max	612 nm	633 nm	223 nm
z	1.25 μm	1.26 μm	885 nm
Asymmetry	0.766		
Theta	63.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.960$



Parameters:

A = 711.678 (brightness)

B = 130.630 (background)

a = 0.561 px

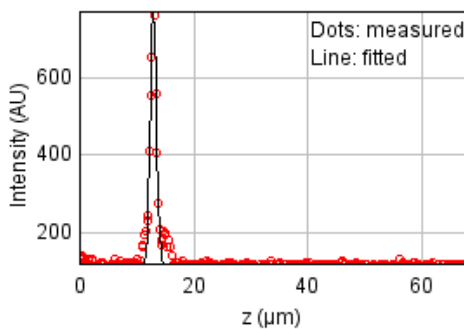
b = 0.100 px

c = 0.408 px

$x_c = 5.567$ px

$y_c = 6.041$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 79012.8026

Standard deviation: 16.04278

R^2 : 0.95798

Parameters:

a = 116.44613

b = 773.84174

c = 12.99654

d = 0.53224

Bead 580

Date : Mon Oct 17 13:28:23 PDT 2022

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

Frame size : 10 pixels

Coordinates : 99.8 μm (x), -57.4 μm (y), 12.6 μm (z)

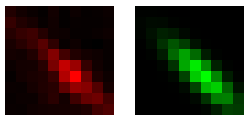
Corresponding bead : Not found



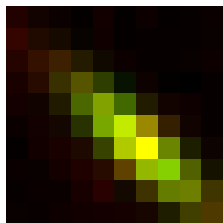
FWHM	Non corrected	Corrected	Theoretical
min	396 nm	410 nm	223 nm
max	1.36 μm	1.41 μm	223 nm
z	2.06 μm	2.07 μm	885 nm
Asymmetry	0.291		
Theta	-43.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 275.563$ (brightness)

$B = 121.115$ (background)

$a = 0.445$ px

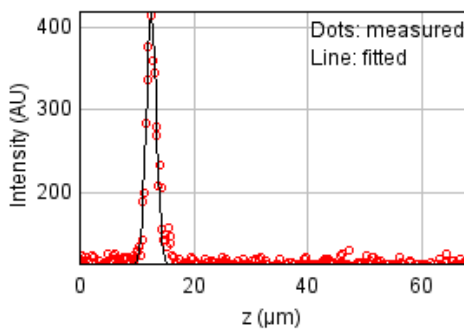
$b = -0.390$ px

$c = 0.481$ px

$x_c = 5.651$ px

$y_c = 5.868$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 28572.4434

Standard deviation: 9.64727

$R^2: 0.95673$

Parameters:

$a = 113.53469$

$b = 420.09099$

$c = 12.62422$

$d = 0.87445$

Bead 581

Date : Mon Oct 17 13:28:23 PDT 2022

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

Frame size : 10 pixels

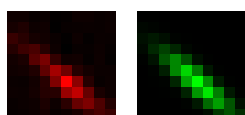
Coordinates : 105 μm (x), -63.4 μm (y), 12.4 μm (z)

Corresponding bead : Not found

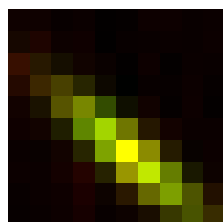
FWHM	Non corrected	Corrected	Theoretical
min	347 nm	358 nm	223 nm
max	1.43 μm	1.48 μm	223 nm
z	1.59 μm	1.6 μm	885 nm
Asymmetry	0.243		
Theta	-41.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 294.500 (brightness)

B = 120.420 (background)

a = 0.529 px

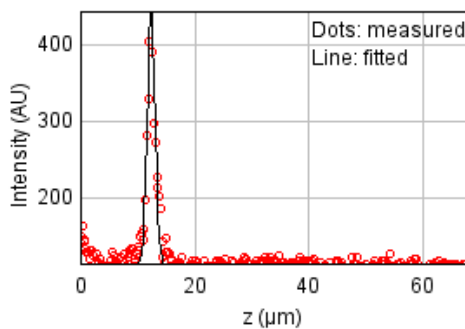
b = -0.522 px

c = 0.653 px

$x_c = 5.076$ px

$y_c = 6.152$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 46829.2352

Standard deviation: 12.35064

R^2 : 0.92577

Parameters:

a = 114.43603

b = 447.64068

c = 12.43981

d = 0.67687

Bead 582

Date : Mon Oct 17 13:28:23 PDT 2022

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

Frame size : 10 pixels

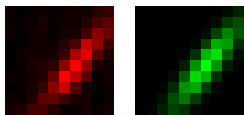
Coordinates : -129 μm (x), -89.1 μm (y), 12.1 μm (z)

Corresponding bead : Not found

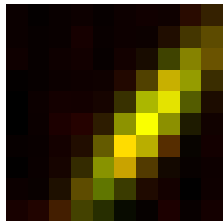
FWHM	Non corrected	Corrected	Theoretical
min	394 nm	407 nm	223 nm
max	1.61 μm	1.67 μm	223 nm
z	2.12 μm	2.12 μm	885 nm
Asymmetry	0.244		
Theta	52.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 235.534 (brightness)

B = 115.315 (background)

a = 0.561 px

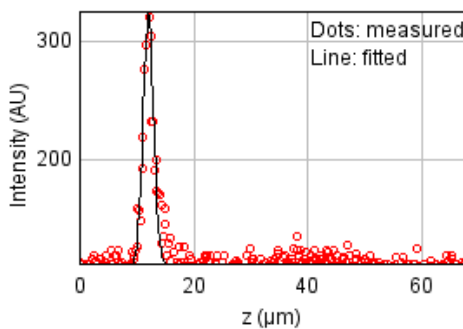
b = 0.393 px

c = 0.355 px

xc = 6.068 px

yc = 4.889 px

Z profile & fitting parameters:



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

Sum of residuals squared: 28681.6973

Standard deviation: 9.66570

R^2 : 0.91463

Parameters:

a = 113.33942

b = 324.41780

c = 12.13324

d = 0.89833

Bead 583 (Rejected)

Date : Mon Oct 17 13:28:23 PDT 2022

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

Frame size : 10 pixels

Coordinates : -34.0 μm (x), 84.9 μm (y), 11.7 μm (z)

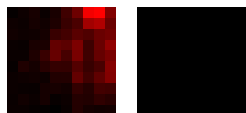
Corresponding bead : Not found

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

FWHM	Non corrected	Corrected	Theoretical
min	100 nm	103 nm	223 nm
max	120 nm	124 nm	223 nm
z	1.25 μm	1.25 μm	885 nm
Asymmetry	0.832		
Theta	76.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = -0.000$



Parameters:

A = 0.381 (brightness)

B = 168.560 (background)

a = 13.196 px

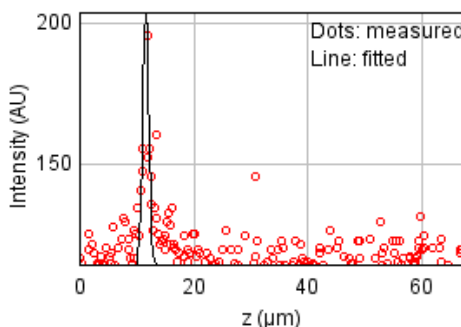
b = 0.928 px

c = 9.517 px

xc = 10.566 px

yc = 8.908 px

Z profile & fitting parameters:



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

Sum of residuals squared: 21737.1895

Standard deviation: 8.41458

R^2 : 0.60482

Parameters:

a = 114.31598

b = 203.81854

c = 11.67547

d = 0.53020

Bead 584

Date : Mon Oct 17 13:28:23 PDT 2022

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

Frame size : 10 pixels

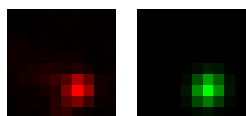
Coordinates : -125 μm (x), 66.0 μm (y), 13.7 μm (z)

Corresponding bead : Not found

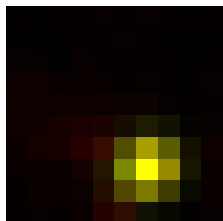
FWHM	Non corrected	Corrected	Theoretical
min	450 nm	465 nm	223 nm
max	485 nm	501 nm	223 nm
z	1.62 μm	1.62 μm	885 nm
Asymmetry	0.929		
Theta	45.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.949$



Parameters:

A = 824.825 (brightness)

B = 127.235 (background)

a = 0.617 px

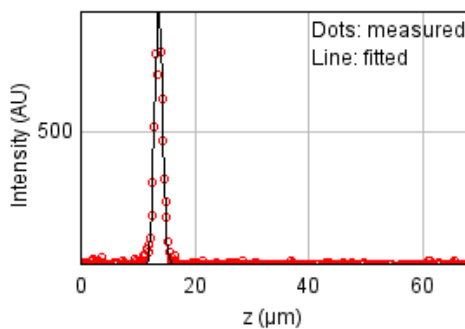
b = 0.045 px

c = 0.617 px

xc = 6.010 px

yc = 6.892 px

Z profile & fitting parameters:



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

Sum of residuals squared: 56095.1110

Standard deviation: 13.51740

R^2 : 0.98124

Parameters:

a = 112.55818

b = 854.42291

c = 13.73164

d = 0.68654

Bead 585

Date : Mon Oct 17 13:28:23 PDT 2022

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

Frame size : 10 pixels

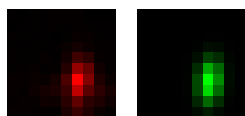
Coordinates : 5.76 μm (x), 63.8 μm (y), 13.4 μm (z)

Corresponding bead : Not found

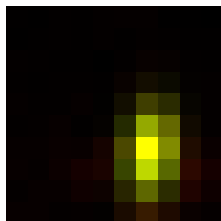
FWHM	Non corrected	Corrected	Theoretical
min	377 nm	390 nm	223 nm
max	686 nm	709 nm	223 nm
z	1.49 μm	1.49 μm	885 nm
Asymmetry	0.55		
Theta	84.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 763.191 (brightness)

B = 127.197 (background)

a = 0.938 px

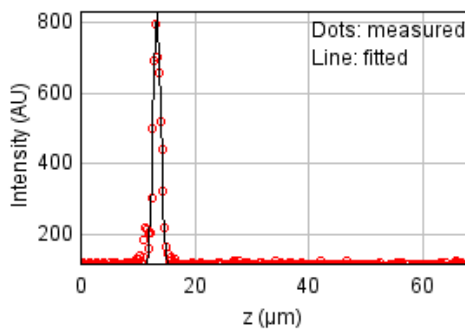
b = 0.061 px

c = 0.291 px

xc = 6.163 px

yc = 6.181 px

Z profile & fitting parameters:



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

Sum of residuals squared: 73970.6753

Standard deviation: 15.52246

R^2 : 0.97136

Parameters:

a = 116.04287

b = 830.55204

c = 13.44913

d = 0.63074

Bead 586

Date : Mon Oct 17 13:28:23 PDT 2022

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

Frame size : 10 pixels

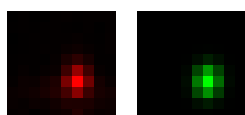
Coordinates : -33.2 μm (x), 33.9 μm (y), 14.2 μm (z)

Corresponding bead : Not found

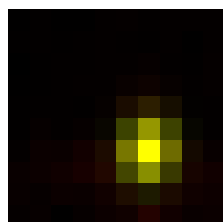
FWHM	Non corrected	Corrected	Theoretical
min	404 nm	418 nm	223 nm
max	494 nm	511 nm	223 nm
z	1.57 μm	1.58 μm	885 nm
Asymmetry	0.818		
Theta	84.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.970$



Parameters:

$A = 1142.217$ (brightness)

$B = 134.533$ (background)

$a = 0.820$ px

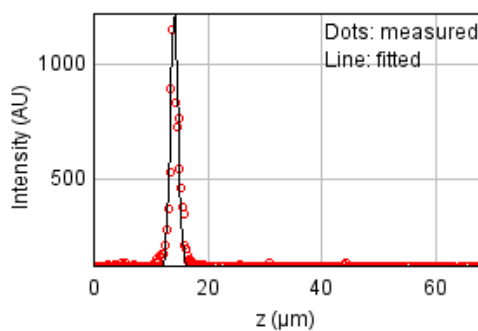
$b = 0.026$ px

$c = 0.552$ px

$x_c = 5.968$ px

$y_c = 5.976$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 345019.715

Standard deviation: 33.52376

$R^2: 0.94951$

Parameters:

$a = 116.65967$

$b = 1235.63254$

$c = 14.20645$

$d = 0.66637$

Bead 587

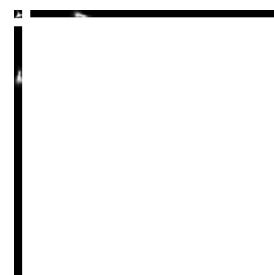
Date : Mon Oct 17 13:28:23 PDT 2022

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

Frame size : 10 pixels

Coordinates : 53.6 μm (x), -88.6 μm (y), 14.0 μm (z)

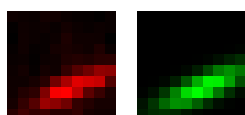
Corresponding bead : Not found



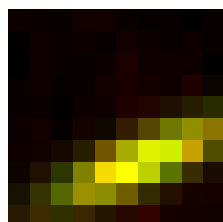
FWHM	Non corrected	Corrected	Theoretical
min	406 nm	419 nm	223 nm
max	1.47 μm	1.52 μm	223 nm
z	1.97 μm	1.98 μm	885 nm
Asymmetry	0.276		
Theta	23.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.965$



Parameters:

$A = 401.569$ (brightness)

$B = 124.533$ (background)

$a = 0.182$ px

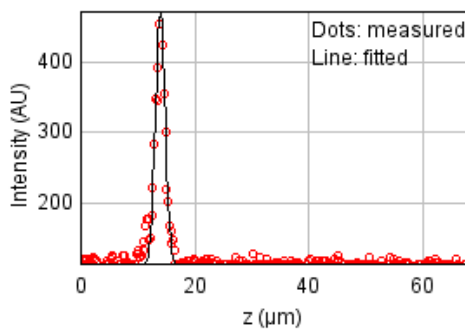
$b = 0.276$ px

$c = 0.695$ px

$x_c = 5.641$ px

$y_c = 6.528$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 31583.5856

Standard deviation: 10.14289

$R^2: 0.96287$

Parameters:

$a = 113.91366$

$b = 470.66131$

$c = 14.04142$

$d = 0.83539$

Bead 588

Date : Mon Oct 17 13:28:23 PDT 2022

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

Frame size : 10 pixels

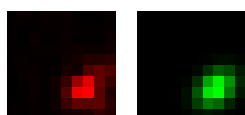
Coordinates : 64.8 μm (x), 76.6 μm (y), 14.0 μm (z)

Corresponding bead : Not found

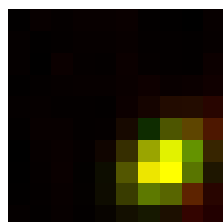
FWHM	Non corrected	Corrected	Theoretical
min	470 nm	485 nm	223 nm
max	644 nm	666 nm	223 nm
z	2.12 μm	2.13 μm	885 nm
Asymmetry	0.729		
Theta	40.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.926$



Parameters:

A = 585.943 (brightness)

B = 120.830 (background)

a = 0.442 px

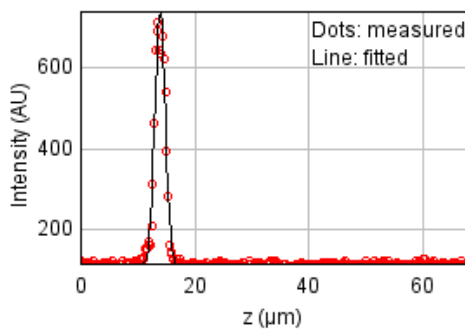
b = 0.141 px

c = 0.490 px

xc = 6.734 px

yc = 6.634 px

Z profile & fitting parameters:



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

Sum of residuals squared: 80967.8232

Standard deviation: 16.24004

R^2 : 0.97106

Parameters:

a = 113.58352

b = 741.03104

c = 13.99899

d = 0.89891

Bead 589

Date : Mon Oct 17 13:28:23 PDT 2022

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

Frame size : 10 pixels

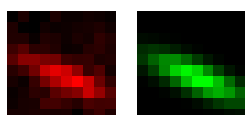
Coordinates : 148 μm (x), -3.0 μm (y), 12.8 μm (z)

Corresponding bead : Not found

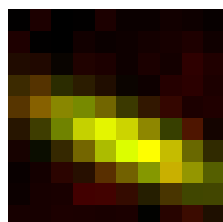
FWHM	Non corrected	Corrected	Theoretical
min	449 nm	464 nm	223 nm
max	1.57 μm	1.63 μm	223 nm
z	3.24 μm	3.25 μm	885 nm
Asymmetry	0.285		
Theta	-23.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 128.750$ (brightness)

$B = 118.704$ (background)

$a = 0.151$ px

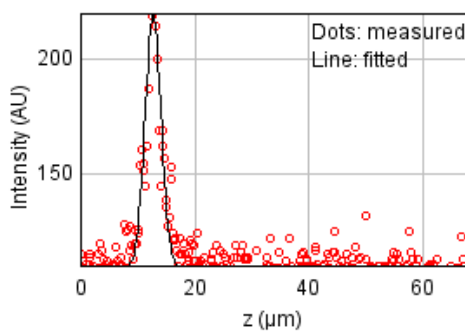
$b = -0.223$ px

$c = 0.569$ px

$x_c = 4.991$ px

$y_c = 5.654$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 20640.3597

Standard deviation: 8.19954

$R^2: 0.85776$

Parameters:

$a = 109.51131$

$b = 219.55847$

$c = 12.77129$

$d = 1.37458$

Bead 590

Date : Mon Oct 17 13:28:24 PDT 2022

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

Frame size : 10 pixels

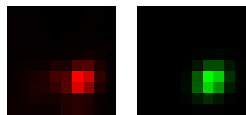
Coordinates : -93.4 μm (x), -9.75 μm (y), 14.2 μm (z)

Corresponding bead : Not found

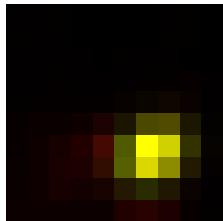
FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	496 nm	513 nm	223 nm
z	1.52 μm	1.53 μm	885 nm
Asymmetry	0.83		
Theta	34.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1826.093 (brightness)

B = 157.623 (background)

a = 0.623 px

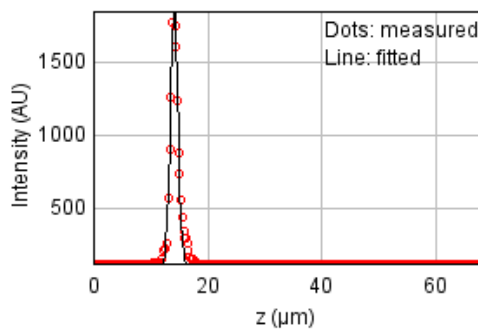
b = 0.114 px

c = 0.714 px

$x_c = 6.275$ px

$y_c = 6.338$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 322044.612

Standard deviation: 32.38835

R^2 : 0.97958

Parameters:

a = 117.29959

b = 1868.77645

c = 14.20243

d = 0.64686

Bead 591

Date : Mon Oct 17 13:28:24 PDT 2022

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

Frame size : 10 pixels

Coordinates : 129 μm (x), -16.8 μm (y), 12.9 μm (z)

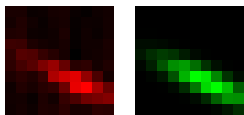
Corresponding bead : Not found



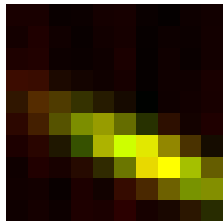
FWHM	Non corrected	Corrected	Theoretical
min	372 nm	385 nm	223 nm
max	1.53 μm	1.58 μm	223 nm
z	2.14 μm	2.15 μm	885 nm
Asymmetry	0.243		
Theta	-25.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 223.701$ (brightness)

$B = 116.027$ (background)

$a = 0.222$ px

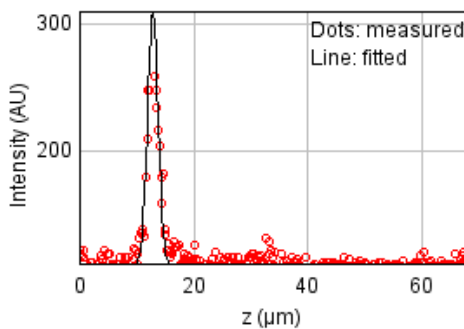
$b = -0.351$ px

$c = 0.804$ px

$x_c = 6.037$ px

$y_c = 6.476$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 26176.1434

Standard deviation: 9.23387

$R^2: 0.91340$

Parameters:

$a = 111.46683$

$b = 310.44866$

$c = 12.89743$

$d = 0.90872$

Bead 592 (Rejected)

Date : Mon Oct 17 13:28:24 PDT 2022

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

Frame size : 10 pixels

Coordinates : -43.6 μm (x), -42.5 μm (y), 13.1 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	3.96 μm	3.98 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

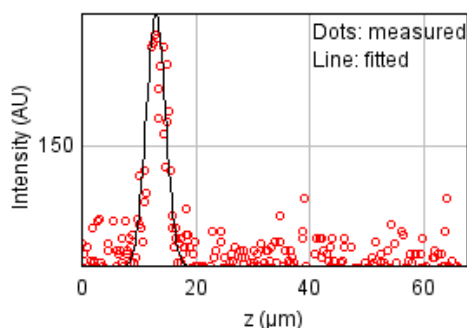
XY profile & fitting parameters :

(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: 21243.9113

Standard deviation: 8.31856

R²: 0.78130

Parameters:

a = 112.91938

b = 191.28174

c = 13.09966

d = 1.68208

Bead 593

Date : Mon Oct 17 13:28:24 PDT 2022

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

Frame size : 10 pixels

Coordinates : 111 μm (x), -52.6 μm (y), 12.6 μm (z)

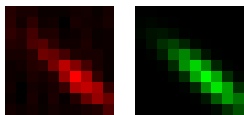
Corresponding bead : Not found



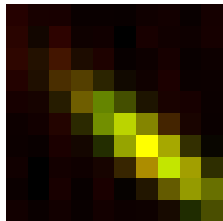
FWHM	Non corrected	Corrected	Theoretical
min	368 nm	380 nm	223 nm
max	1.47 μm	1.52 μm	223 nm
z	1.65 μm	1.66 μm	885 nm
Asymmetry	0.25		
Theta	-39.0°		

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:

$A = 229.051$ (brightness)

$B = 118.062$ (background)

$a = 0.431$ px

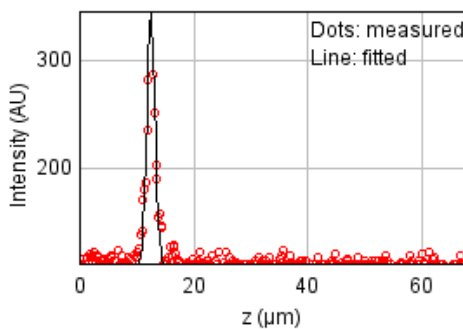
$b = -0.454$ px

$c = 0.622$ px

$x_c = 6.159$ px

$y_c = 6.139$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 17206.7229

Standard deviation: 7.48652

$R^2: 0.94444$

Parameters:

$a = 112.49830$

$b = 344.39019$

$c = 12.56707$

$d = 0.70077$

Bead 594 (Rejected)

Date : Mon Oct 17 13:28:24 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)

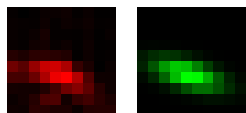
Corresponding bead : Not found

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

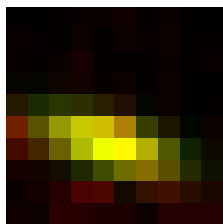
FWHM	Non corrected	Corrected	Theoretical
min	409 nm	423 nm	223 nm
max	1.09 μm	1.13 μm	223 nm
z	1.92 μm	1.93 μm	885 nm
Asymmetry	0.375		
Theta	-16.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 419.409 (brightness)

B = 125.982 (background)

a = 0.167 px

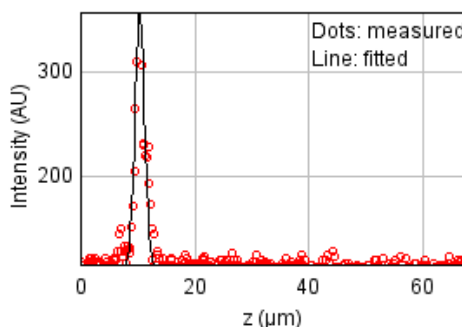
b = -0.185 px

c = 0.749 px

xc = 4.138 px

yc = 5.733 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 595 (Rejected)

Date : Mon Oct 17 13:28:24 PDT 2022

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

Frame size : 10 pixels

Coordinates : 60.8 μm (x), 64.4 μm (y), 12.3 μm (z)

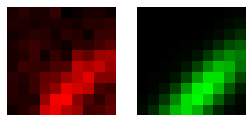
Corresponding bead : Not found

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

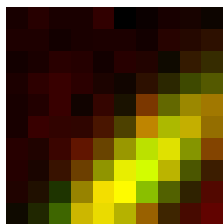
FWHM	Non corrected	Corrected	Theoretical
min	604 nm	624 nm	223 nm
max	2.06 μm	2.13 μm	223 nm
z	1.38 μm	1.39 μm	885 nm
Asymmetry	0.294		
Theta	45.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.886$



Parameters:

A = 99.279 (brightness)

B = 115.317 (background)

a = 0.200 px

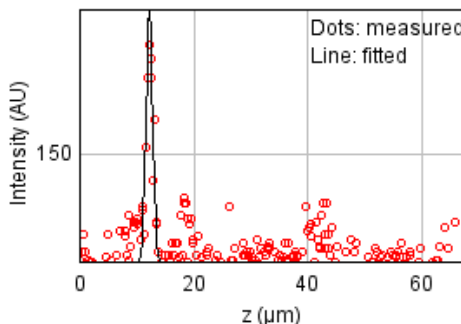
b = 0.168 px

c = 0.200 px

xc = 5.390 px

yc = 7.316 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17171.8032

Standard deviation: 7.47892

R^2 : 0.65252

Parameters:

a = 114.24793

b = 198.16243

c = 12.30176

d = 0.58638

Bead 596 (Rejected)

Date : Mon Oct 17 13:28:24 PDT 2022

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

Frame size : 10 pixels

Coordinates : 5.8 um (x), 63.9 um (y), 12.8 um (z)

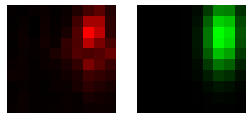
Corresponding bead : Not found

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

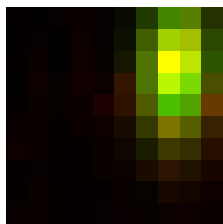
FWHM	Non corrected	Corrected	Theoretical
min	548 nm	566 nm	223 nm
max	1.07 um	1.11 um	223 nm
z	2.91 um	2.92 um	885 nm
Asymmetry	0.51		
Theta	87.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.885$



Parameters:

A = 419.313 (brightness)

B = 120.749 (background)

a = 0.447 px

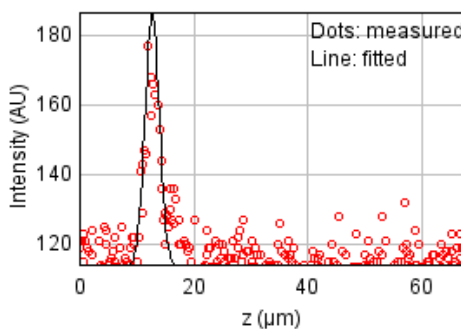
b = 0.013 px

c = 0.117 px

xc = 7.369 px

yc = 2.334 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19085.2713

Standard deviation: 7.88461

R^2 : 0.71947

Parameters:

a = 113.89767

b = 186.41467

c = 12.78798

d = 1.23513

Bead 597

Date : Mon Oct 17 13:28:25 PDT 2022

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

Frame size : 10 pixels

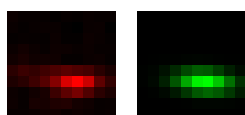
Coordinates : -157 μm (x), 60.3 μm (y), 13.4 μm (z)

Corresponding bead : Not found

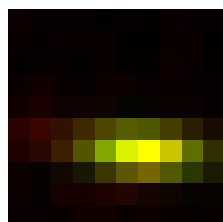
FWHM	Non corrected	Corrected	Theoretical
min	366 nm	378 nm	223 nm
max	937 nm	969 nm	223 nm
z	2.02 μm	2.03 μm	885 nm
Asymmetry	0.391		
Theta	-3.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.948$



Parameters:

$A = 341.723$ (brightness)

$B = 117.024$ (background)

$a = 0.157$ px

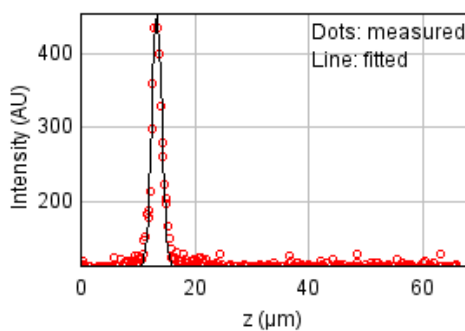
$b = -0.056$ px

$c = 0.998$ px

$x_c = 5.680$ px

$y_c = 6.022$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 28280.8749

Standard deviation: 9.59792

$R^2: 0.96503$

Parameters:

$a = 111.37092$

$b = 455.30486$

$c = 13.42254$

$d = 0.85736$

Bead 598

Date : Mon Oct 17 13:28:25 PDT 2022

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

Frame size : 10 pixels

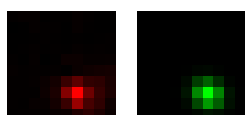
Coordinates : 71.7 μm (x), 49.7 μm (y), 14.5 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	415 nm	429 nm	223 nm
max	470 nm	486 nm	223 nm
z	1.66 μm	1.66 μm	885 nm
Asymmetry	0.884		
Theta	-28.7°		

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 = 851.331 (brightness)

B = 125.701 (background)

a = 0.647 px

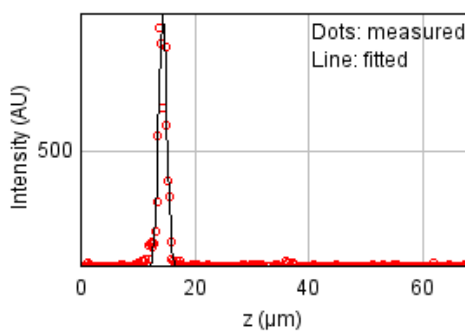
b = -0.071 px

c = 0.739 px

xc = 6.005 px

yc = 7.153 px

Z profile & fitting parameters:



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

Sum of residuals squared: 194530.369

Standard deviation: 25.17239

R^2 : 0.95344

Parameters:

a = 113.35600

b = 967.31965

c = 14.45806

d = 0.70395

Bead 599

Date : Mon Oct 17 13:28:25 PDT 2022

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

Frame size : 10 pixels

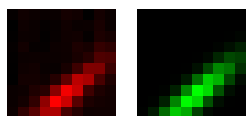
Coordinates : -154 μm (x), -62.1 μm (y), 16.4 μm (z)

Corresponding bead : Not found

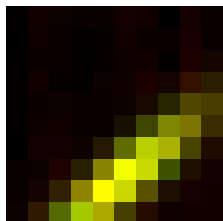
FWHM	Non corrected	Corrected	Theoretical
min	392 nm	406 nm	223 nm
max	1.62 μm	1.68 μm	223 nm
z	1.94 μm	1.95 μm	885 nm
Asymmetry	0.242		
Theta	41.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.978$



Parameters:

$A = 369.867$ (brightness)

$B = 119.923$ (background)

$a = 0.404$ px

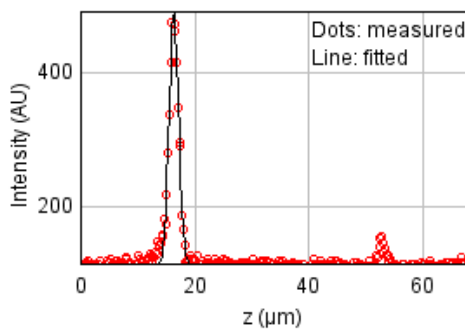
$b = 0.406$ px

$c = 0.518$ px

$x_c = 4.867$ px

$y_c = 7.437$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 28153.2165

Standard deviation: 9.57624

$R^2: 0.97059$

Parameters:

$a = 112.35525$

$b = 494.98839$

$c = 16.41224$

$d = 0.82314$

Bead 600

Date : Mon Oct 17 13:28:25 PDT 2022

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

Frame size : 10 pixels

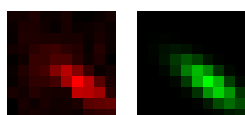
Coordinates : 163 μm (x), -87.4 μm (y), 12.6 μm (z)

Corresponding bead : Not found

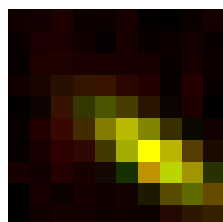
FWHM	Non corrected	Corrected	Theoretical
min	395 nm	409 nm	223 nm
max	1.13 μm	1.17 μm	223 nm
z	2.24 μm	2.25 μm	885 nm
Asymmetry	0.349		
Theta	-35.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 153.078$ (brightness)

$B = 113.835$ (background)

$a = 0.362$ px

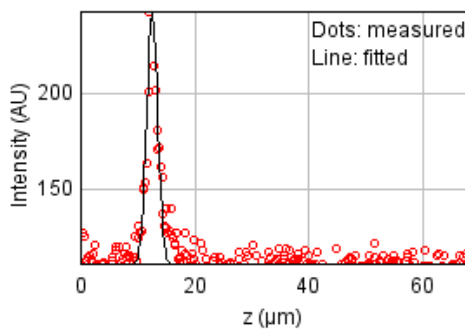
$b = -0.358$ px

$c = 0.601$ px

$x_c = 6.156$ px

$y_c = 6.130$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 16825.3705

Standard deviation: 7.40309

$R^2: 0.88599$

Parameters:

$a = 110.06318$

$b = 243.95459$

$c = 12.61556$

$d = 0.95281$