

Bead 1 (Rejected)

Date : Mon Oct 17 13:27:37 PDT 2022

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

Frame size : 10 pixels

Coordinates : -133 μm (x), 65.8 μm (y), 1.38 μm (z)

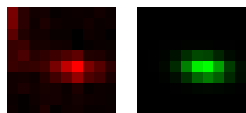
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

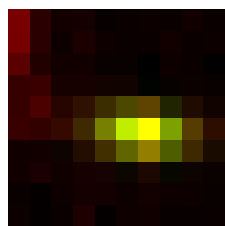
FWHM	Non corrected	Corrected	Theoretical
min	361 nm	373 nm	223 nm
max	717 nm	741 nm	223 nm
z	1.67 μm	1.67 μm	885 nm
Asymmetry	0.503		
Theta	-5.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.736$



Parameters:

A = 304.449 (brightness)

B = 133.254 (background)

a = 0.268 px

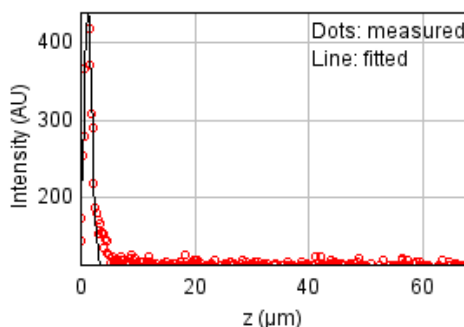
b = -0.075 px

c = 1.023 px

xc = 5.681 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: 30461.2715

Standard deviation: 9.96104

R^2 : 0.95088

Parameters:

a = 112.55352

b = 440.25564

c = 1.38216

d = 0.70782

Bead 2

Date : Mon Oct 17 13:27:37 PDT 2022

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

Frame size : 10 pixels

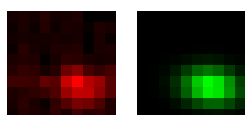
Coordinates : 113 μm (x), 58.6 μm (y), 1.55 μm (z)

Corresponding bead : Not found

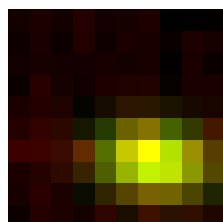
FWHM	Non corrected	Corrected	Theoretical
min	560 nm	579 nm	223 nm
max	882 nm	912 nm	223 nm
z	2.8 μm	2.81 μm	885 nm
Asymmetry	0.635		
Theta	-6.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 121.007$ (brightness)

$B = 115.921$ (background)

$a = 0.176$ px

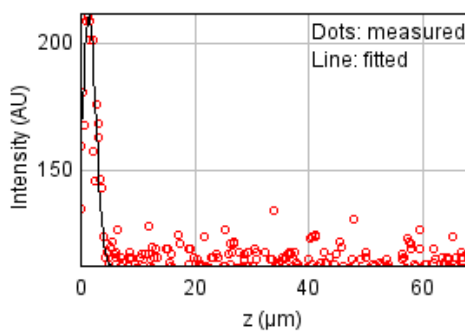
$b = -0.030$ px

$c = 0.424$ px

$x_c = 6.251$ px

$y_c = 6.455$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 17089.3092

Standard deviation: 7.46093

$R^2: 0.83754$

Parameters:

$a = 111.96087$

$b = 211.71048$

$c = 1.55368$

$d = 1.18975$

Bead 3

Date : Mon Oct 17 13:27:38 PDT 2022

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

Frame size : 10 pixels

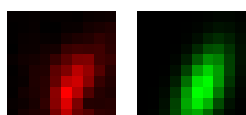
Coordinates : 126 μm (x), 29.1 μm (y), 55.3 μm (z)

Corresponding bead : Not found

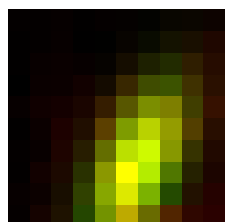
FWHM	Non corrected	Corrected	Theoretical
min	629 nm	650 nm	223 nm
max	1.36 μm	1.4 μm	223 nm
z	998 nm	1.0 μm	885 nm
Asymmetry	0.464		
Theta	67.3°		

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:

$A = 421.938$ (brightness)

$B = 130.571$ (background)

$a = 0.300$ px

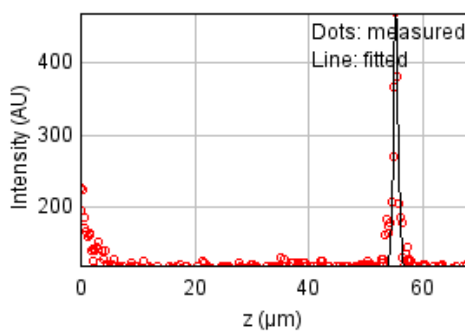
$b = 0.095$ px

$c = 0.113$ px

$x_c = 5.461$ px

$y_c = 6.705$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 88466.8361

Standard deviation: 16.97544

$R^2 = 0.82988$

Parameters:

$a = 116.96598$

$b = 476.41836$

$c = 55.30607$

$d = 0.42400$

Bead 4

Date : Mon Oct 17 13:27:38 PDT 2022

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

Frame size : 10 pixels

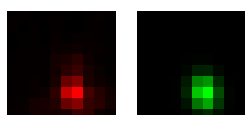
Coordinates : 18.6 μm (x), 18.7 μm (y), 2.74 μm (z)

Corresponding bead : Not found

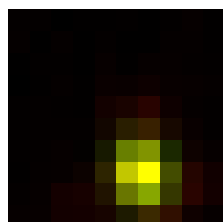
FWHM	Non corrected	Corrected	Theoretical
min	426 nm	440 nm	223 nm
max	530 nm	548 nm	223 nm
z	1.76 μm	1.77 μm	885 nm
Asymmetry	0.803		
Theta	-79.2°		

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:

$A = 729.309$ (brightness)

$B = 126.877$ (background)

$a = 0.731$ px

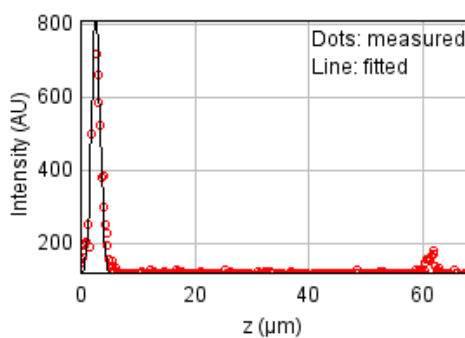
$b = -0.048$ px

$c = 0.487$ px

$x_c = 5.673$ px

$y_c = 7.029$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 215780.850

Standard deviation: 26.51168

$R^2: 0.92945$

Parameters:

$a = 117.77343$

$b = 818.08157$

$c = 2.74127$

$d = 0.74885$

Bead 5 (Rejected)

Date : Mon Oct 17 13:27:38 PDT 2022

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

Frame size : 10 pixels

Coordinates : 126 μm (x), -13.5 μm (y), 619 nm (z)

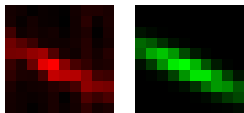
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

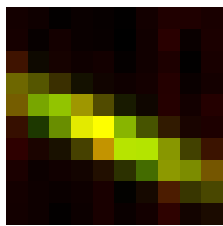
FWHM	Non corrected	Corrected	Theoretical
min	358 nm	370 nm	223 nm
max	1.93 μm	2.0 μm	223 nm
z	3.68 μm	3.7 μm	885 nm
Asymmetry	0.185		
Theta	-24.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.911$



Parameters:

A = 122.160 (brightness)

B = 114.121 (background)

a = 0.211 px

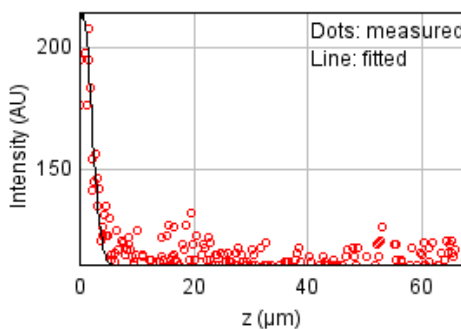
b = -0.383 px

c = 0.875 px

xc = 4.204 px

yc = 5.283 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18229.4275

Standard deviation: 7.70579

R^2 : 0.83724

Parameters:

a = 111.42863

b = 213.96197

c = 0.61922

d = 1.56438

Bead 6 (Rejected)

Date : Mon Oct 17 13:27:38 PDT 2022

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

Frame size : 10 pixels

Coordinates : -23.3 μm (x), -42.0 μm (y), 2.05 μm (z)

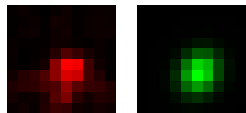
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

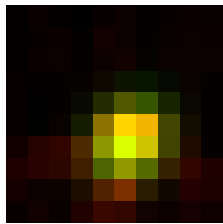
FWHM	Non corrected	Corrected	Theoretical
min	560 nm	579 nm	223 nm
max	655 nm	678 nm	223 nm
z	2.32 μm	2.33 μm	885 nm
Asymmetry	0.855		
Theta	56.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 389.323 (brightness)

B = 124.476 (background)

a = 0.393 px

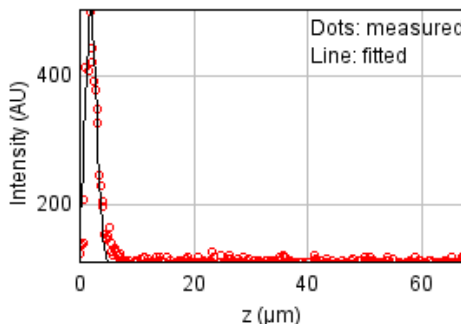
b = 0.053 px

c = 0.347 px

xc = 5.196 px

yc = 5.731 px

Z profile & fitting parameters:



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

Sum of residuals squared: 135645.250

Standard deviation: 21.02002

R^2 : 0.89406

Parameters:

a = 112.89246

b = 502.35543

c = 2.05183

d = 0.98726

Bead 7

Date : Mon Oct 17 13:27:39 PDT 2022

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

Frame size : 10 pixels

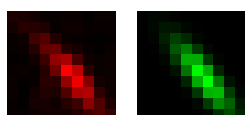
Coordinates : 61.5 μm (x), -54.2 μm (y), 1.17 μm (z)

Corresponding bead : Not found

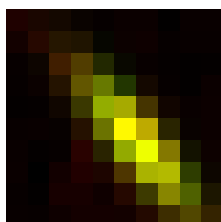
FWHM	Non corrected	Corrected	Theoretical
min	389 nm	403 nm	223 nm
max	1.36 μm	1.4 μm	223 nm
z	1.58 μm	1.58 μm	885 nm
Asymmetry	0.287		
Theta	-51.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.962$



Parameters:

$A = 378.756$ (brightness)

$B = 123.743$ (background)

$a = 0.576$ px

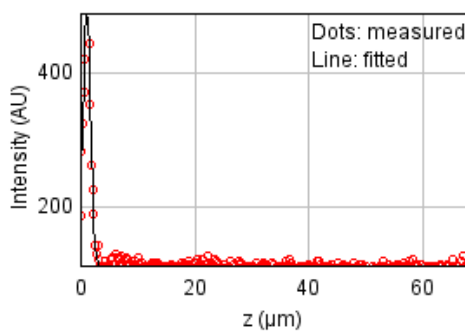
$b = -0.394$ px

$c = 0.382$ px

$x_c = 5.570$ px

$y_c = 5.589$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 17924.1726

Standard deviation: 7.64100

$R^2: 0.97614$

Parameters:

$a = 112.93988$

$b = 488.72467$

$c = 1.16560$

$d = 0.66887$

Bead 8 (Rejected)

Date : Mon Oct 17 13:27:39 PDT 2022

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

Frame size : 10 pixels

Coordinates : 85.1 μm (x), -93.9 μm (y), 4.4 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	8.49 μm	8.52 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

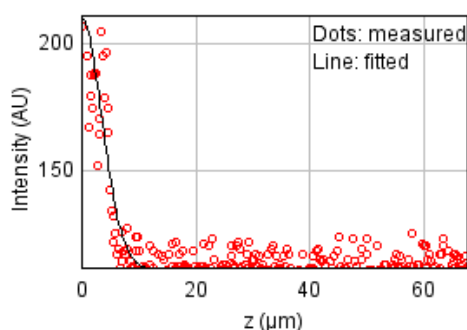
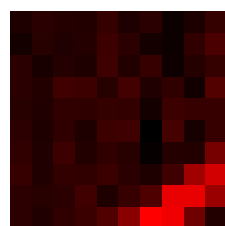
XY profile & fitting parameters :

(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: 22572.8042

Standard deviation: 8.57479

R²: 0.85387

Parameters:

a = 112.10265

b = 211.05463

c = -0.028299

d = 3.60399

Bead 9 (Rejected)

Date : Mon Oct 17 13:27:39 PDT 2022

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

Frame size : 10 pixels

Coordinates : -129 μm (x), 93.7 μm (y), 1.61 μm (z)

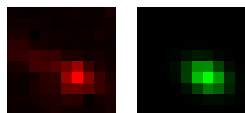
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

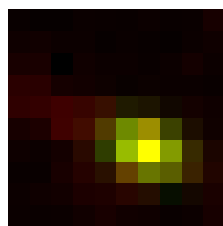
FWHM	Non corrected	Corrected	Theoretical
min	426 nm	440 nm	223 nm
max	622 nm	644 nm	223 nm
z	2.07 μm	2.07 μm	885 nm
Asymmetry	0.684		
Theta	-22.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.863$



Parameters:

A = 292.052 (brightness)

B = 124.837 (background)

a = 0.404 px

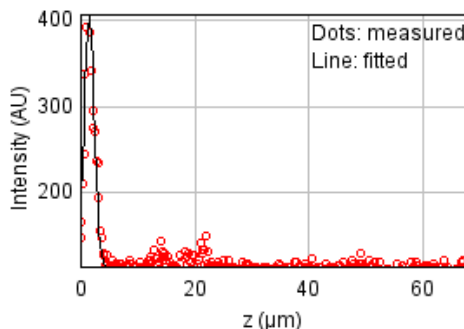
b = -0.140 px

c = 0.683 px

xc = 5.846 px

yc = 5.898 px

Z profile & fitting parameters:



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

Sum of residuals squared: 38061.9694

Standard deviation: 11.13465

R^2 : 0.93891

Parameters:

a = 113.48605

b = 408.03827

c = 1.61080

d = 0.87747

Bead 10

Date : Mon Oct 17 13:27:40 PDT 2022

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

Frame size : 10 pixels

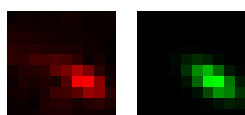
Coordinates : -122 μm (x), 91.8 μm (y), 2.07 μm (z)

Corresponding bead : Not found

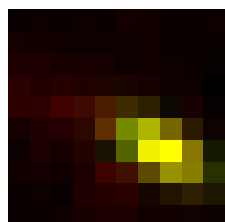
FWHM	Non corrected	Corrected	Theoretical
min	380 nm	393 nm	223 nm
max	773 nm	799 nm	223 nm
z	1.98 μm	1.99 μm	885 nm
Asymmetry	0.492		
Theta	-31.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 477.734$ (brightness)

$B = 132.255$ (background)

$a = 0.415$ px

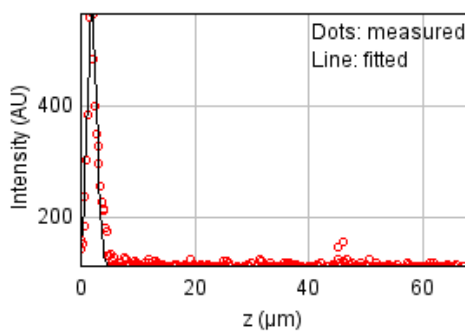
$b = -0.312$ px

$c = 0.739$ px

$x_c = 6.501$ px

$y_c = 5.911$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 72029.2562

Standard deviation: 15.31741

$R^2: 0.94887$

Parameters:

$a = 113.54602$

$b = 567.54794$

$c = 2.06943$

$d = 0.84178$

Bead 11 (Rejected)

Date : Mon Oct 17 13:27:40 PDT 2022

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

Frame size : 10 pixels

Coordinates : -132 μm (x), 83.6 μm (y), 1.98 μm (z)

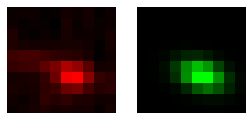
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

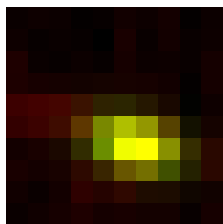
FWHM	Non corrected	Corrected	Theoretical
min	432 nm	446 nm	223 nm
max	727 nm	751 nm	223 nm
z	2.15 μm	2.15 μm	885 nm
Asymmetry	0.594		
Theta	-16.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 317.898 (brightness)

B = 124.190 (background)

a = 0.290 px

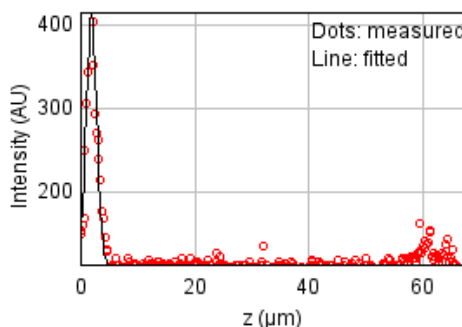
b = -0.124 px

c = 0.684 px

xc = 5.417 px

yc = 5.782 px

Z profile & fitting parameters:



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

Sum of residuals squared: 40987.5577

Standard deviation: 11.55465

R^2 : 0.93925

Parameters:

a = 113.46745

b = 414.49307

c = 1.98085

d = 0.91097

Bead 12 (Rejected)

Date : Mon Oct 17 13:27:40 PDT 2022

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

Frame size : 10 pixels

Coordinates : -159 μm (x), 75.0 μm (y), 695 nm (z)

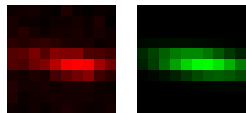
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

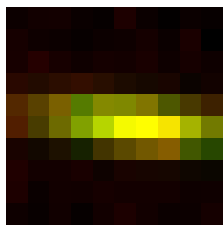
FWHM	Non corrected	Corrected	Theoretical
min	380 nm	393 nm	223 nm
max	1.52 μm	1.57 μm	223 nm
z	3.34 μm	3.35 μm	885 nm
Asymmetry	0.25		
Theta	-5.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.939$



Parameters:

A = 164.780 (brightness)

B = 115.765 (background)

a = 0.066 px

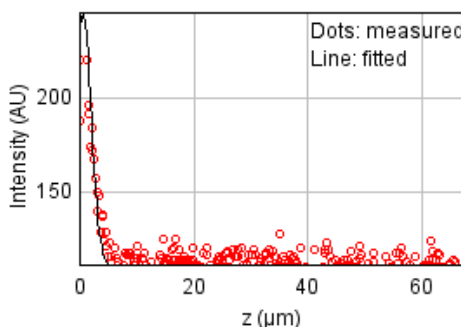
b = -0.086 px

c = 0.922 px

xc = 5.499 px

yc = 4.877 px

Z profile & fitting parameters:



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

Sum of residuals squared: 20393.8639

Standard deviation: 8.15043

R^2 : 0.88310

Parameters:

a = 110.96152

b = 244.98184

c = 0.69473

d = 1.41631

Bead 13

Date : Mon Oct 17 13:27:40 PDT 2022

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

Frame size : 10 pixels

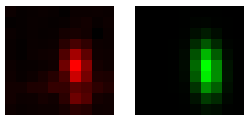
Coordinates : -25.7 μm (x), 71.2 μm (y), 1.98 μm (z)

Corresponding bead : Not found

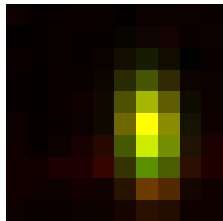
FWHM	Non corrected	Corrected	Theoretical
min	422 nm	437 nm	223 nm
max	810 nm	837 nm	223 nm
z	1.37 μm	1.37 μm	885 nm
Asymmetry	0.522		
Theta	-85.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 432.839 (brightness)

B = 121.403 (background)

a = 0.749 px

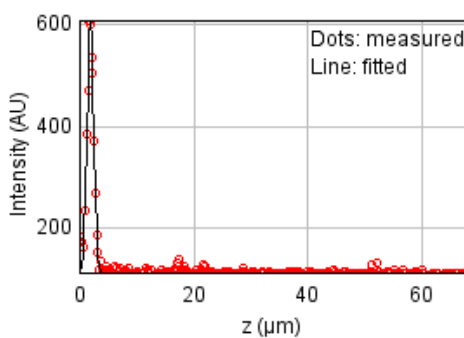
b = -0.042 px

c = 0.208 px

xc = 6.119 px

yc = 5.334 px

Z profile & fitting parameters:



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

Sum of residuals squared: 30444.9215

Standard deviation: 9.95837

R^2 : 0.97309

Parameters:

a = 113.23840

b = 605.76192

c = 1.97850

d = 0.58094

Bead 14 (Rejected)

Date : Mon Oct 17 13:27:40 PDT 2022

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

Frame size : 10 pixels

Coordinates : -148 μm (x), 52.4 μm (y), 752 nm (z)

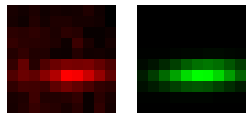
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

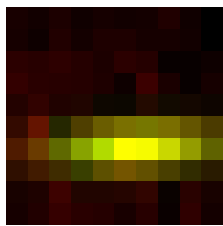
FWHM	Non corrected	Corrected	Theoretical
min	376 nm	389 nm	223 nm
max	1.34 μm	1.39 μm	223 nm
z	2.44 μm	2.44 μm	885 nm
Asymmetry	0.281		
Theta	2.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 105.615 (brightness)

B = 114.337 (background)

a = 0.076 px

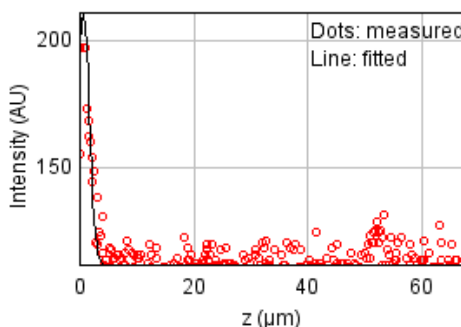
b = 0.033 px

c = 0.946 px

xc = 5.481 px

yc = 5.911 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15946.6336

Standard deviation: 7.20718

R^2 : 0.81563

Parameters:

a = 111.75890

b = 211.72645

c = 0.75239

d = 1.03409

Bead 15 (Rejected)

Date : Mon Oct 17 13:27:41 PDT 2022

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

Frame size : 10 pixels

Coordinates : 146 μm (x), 40.7 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	0	0	223 nm
max	0	0	223 nm
z	1.85 μm	1.85 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

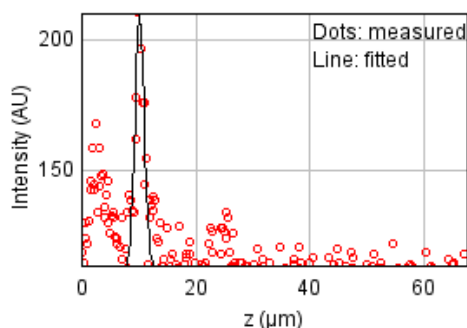
XY profile & fitting parameters :

(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: 44805.6211

Standard deviation: 12.08084

R^2 : 0.56284

Parameters:

$a = 113.14624$

$b = 210.71166$

$c = 10.24275$

$d = 0.78439$

Bead 16 (Rejected)

Date : Mon Oct 17 13:27:41 PDT 2022

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

Frame size : 10 pixels

Coordinates : 126 μm (x), 40.1 μm (y), 928 nm (z)

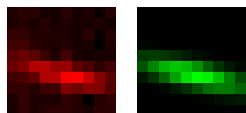
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

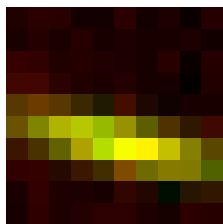
FWHM	Non corrected	Corrected	Theoretical
min	383 nm	395 nm	223 nm
max	1.7 μm	1.76 μm	223 nm
z	3.01 μm	3.03 μm	885 nm
Asymmetry	0.225		
Theta	-12.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 114.813 (brightness)

B = 111.762 (background)

a = 0.090 px

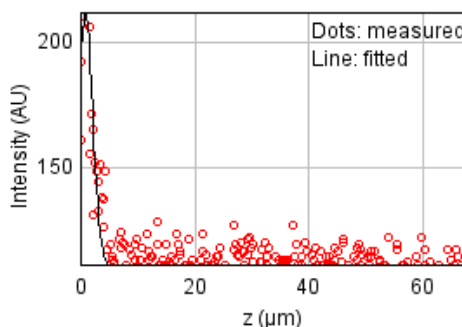
b = -0.190 px

c = 0.874 px

xc = 4.716 px

yc = 5.756 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18969.7295

Standard deviation: 7.86070

R^2 : 0.82108

Parameters:

a = 111.42118

b = 212.09285

c = 0.92760

d = 1.28032

Bead 17 (Rejected)

Date : Mon Oct 17 13:27:41 PDT 2022

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

Frame size : 10 pixels

Coordinates : -66.1 μm (x), 31.7 μm (y), 227 nm (z)

Corresponding bead : Not found

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

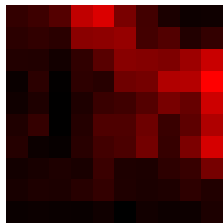
FWHM	Non corrected	Corrected	Theoretical
min	1.58 μm	1.63 μm	223 nm
max	3.15 μm	3.26 μm	223 nm
z	4.9 μm	4.92 μm	885 nm
Asymmetry	0.501		
Theta	0.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.508$



Parameters:

A = -71.114 (brightness)

B = 197.931 (background)

a = 0.022 px

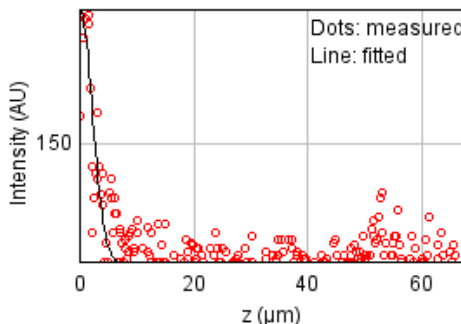
b = -0.034 px

c = 0.018 px

xc = 1.498 px

yc = 6.809 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19162.0657

Standard deviation: 7.90045

R^2 : 0.75620

Parameters:

a = 112.47102

b = 192.29539

c = 0.22723

d = 2.08255

Bead 18

Date : Mon Oct 17 13:27:41 PDT 2022

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

Frame size : 10 pixels

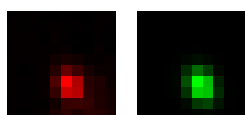
Coordinates : 48.3 μm (x), 7.83 μm (y), 2.33 μm (z)

Corresponding bead : Not found

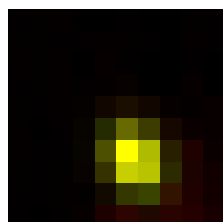
FWHM	Non corrected	Corrected	Theoretical
min	409 nm	423 nm	223 nm
max	527 nm	545 nm	223 nm
z	1.29 μm	1.29 μm	885 nm
Asymmetry	0.776		
Theta	-63.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1076.922$ (brightness)

$B = 133.567$ (background)

$a = 0.738$ px

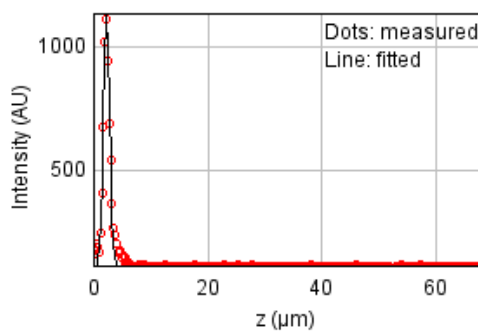
$b = -0.128$ px

$c = 0.548$ px

$x_c = 5.356$ px

$y_c = 6.388$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 109505.400

Standard deviation: 18.88637

$R^2: 0.97649$

Parameters:

$a = 116.22996$

$b = 1147.15000$

$c = 2.33208$

$d = 0.54675$

Bead 19

Date : Mon Oct 17 13:27:41 PDT 2022

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

Frame size : 10 pixels

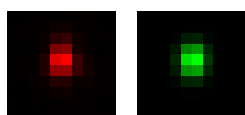
Coordinates : -21.0 μm (x), 5.05 μm (y), 49.9 μm (z)

Corresponding bead : Not found

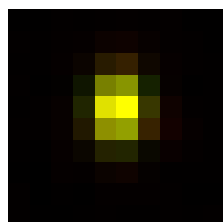
FWHM	Non corrected	Corrected	Theoretical
min	402 nm	415 nm	223 nm
max	517 nm	534 nm	223 nm
z	1.09 μm	1.09 μm	885 nm
Asymmetry	0.778		
Theta	88.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2206.553 (brightness)

B = 130.669 (background)

a = 0.831 px

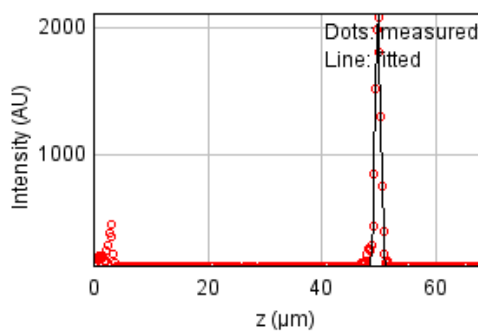
b = 0.011 px

c = 0.503 px

xc = 4.578 px

yc = 4.046 px

Z profile & fitting parameters:



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

Sum of residuals squared: 467443.209

Standard deviation: 39.02072

R^2 : 0.96870

Parameters:

a = 123.59721

b = 2121.67945

c = 49.90449

d = 0.46083

Bead 20 (Rejected)

Date : Mon Oct 17 13:27:42 PDT 2022

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

Frame size : 10 pixels

Coordinates : 126 μm (x), -13.5 μm (y), 619 nm (z)

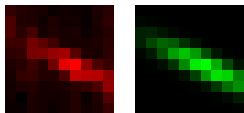
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

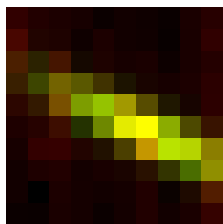
FWHM	Non corrected	Corrected	Theoretical
min	356 nm	368 nm	223 nm
max	1.77 μm	1.83 μm	223 nm
z	3.68 μm	3.7 μm	885 nm
Asymmetry	0.201		
Theta	-25.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 124.788 (brightness)

B = 114.238 (background)

a = 0.233 px

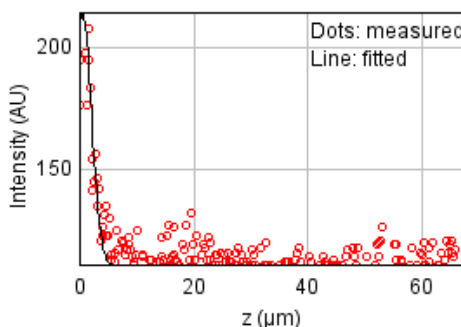
b = -0.396 px

c = 0.868 px

xc = 6.054 px

yc = 5.229 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18229.4275

Standard deviation: 7.70579

R^2 : 0.83724

Parameters:

a = 111.42863

b = 213.96197

c = 0.61922

d = 1.56438

Bead 21 (Rejected)

Date : Mon Oct 17 13:27:42 PDT 2022

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

Frame size : 10 pixels

Coordinates : 55.5 μm (x), -39.1 μm (y), 1.89 μm (z)

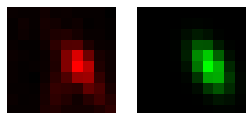
Corresponding bead : Not found

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

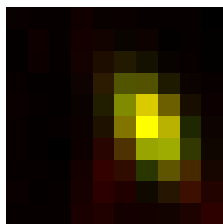
FWHM	Non corrected	Corrected	Theoretical
min	443 nm	458 nm	223 nm
max	777 nm	804 nm	223 nm
z	1.5 μm	1.51 μm	885 nm
Asymmetry	0.57		
Theta	-60.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 602.045 (brightness)

B = 128.841 (background)

a = 0.570 px

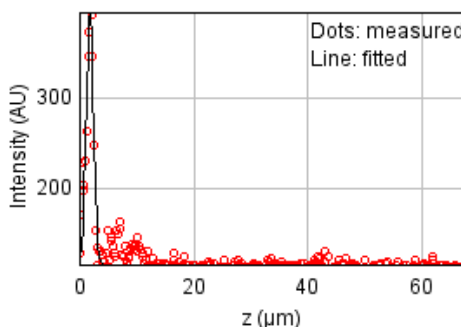
b = -0.199 px

c = 0.336 px

xc = 6.161 px

yc = 4.940 px

Z profile & fitting parameters:



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

Sum of residuals squared: 50714.3329

Standard deviation: 12.85275

R^2 : 0.88668

Parameters:

a = 115.34282

b = 398.08103

c = 1.88782

d = 0.63732

Bead 22 (Rejected)

Date : Mon Oct 17 13:27:42 PDT 2022

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

Frame size : 10 pixels

Coordinates : 55.5 μm (x), -39.1 μm (y), 1.89 μm (z)

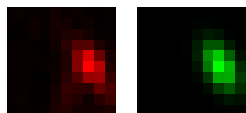
Corresponding bead : Not found

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

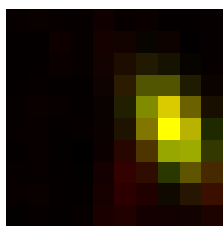
FWHM	Non corrected	Corrected	Theoretical
min	448 nm	463 nm	223 nm
max	778 nm	804 nm	223 nm
z	1.5 μm	1.51 μm	885 nm
Asymmetry	0.576		
Theta	-60.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 604.122 (brightness)

B = 126.114 (background)

a = 0.562 px

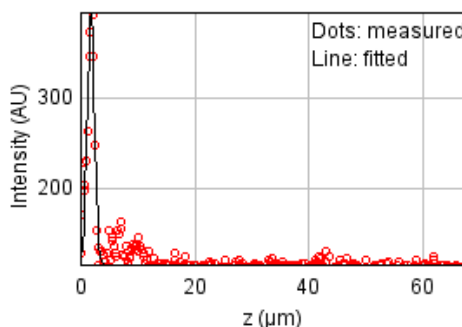
b = -0.192 px

c = 0.330 px

xc = 7.157 px

yc = 4.937 px

Z profile & fitting parameters:



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

Sum of residuals squared: 50714.3329

Standard deviation: 12.85275

R^2 : 0.88668

Parameters:

a = 115.34282

b = 398.08103

c = 1.88782

d = 0.63732

Bead 23

Date : Mon Oct 17 13:27:43 PDT 2022

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

Frame size : 10 pixels

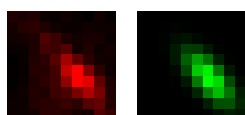
Coordinates : 63.4 μm (x), -50.3 μm (y), 1.79 μm (z)

Corresponding bead : Not found

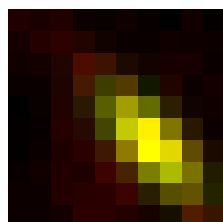
FWHM	Non corrected	Corrected	Theoretical
min	442 nm	457 nm	223 nm
max	1.02 μm	1.05 μm	223 nm
z	2.09 μm	2.09 μm	885 nm
Asymmetry	0.434		
Theta	-48.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 263.553 (brightness)

B = 126.504 (background)

a = 0.444 px

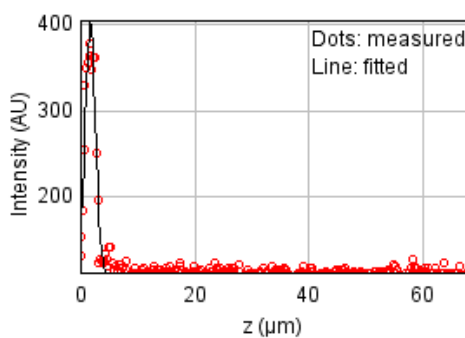
b = -0.277 px

c = 0.373 px

xc = 6.091 px

yc = 5.645 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29682.4071

Standard deviation: 9.83287

R^2 : 0.95120

Parameters:

a = 112.16554

b = 403.66400

c = 1.79079

d = 0.88590

Bead 24 (Rejected)

Date : Mon Oct 17 13:27:43 PDT 2022

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

Frame size : 10 pixels

Coordinates : -39.2 μm (x), -56.3 μm (y), 925 nm (z)

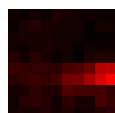
Corresponding bead : Not found

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	2.27 μm	2.28 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

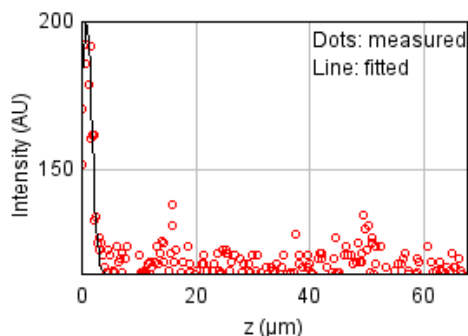
XY profile & fitting parameters :

(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: 14388.8608

Standard deviation: 6.84611

R²: 0.78180

Parameters:

a = 114.30370

b = 200.25899

c = 0.92531

d = 0.96297

Bead 25 (Rejected)

Date : Mon Oct 17 13:27:43 PDT 2022

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

Frame size : 10 pixels

Coordinates : 74.4 μm (x), -74.3 μm (y), 2.92 μm (z)

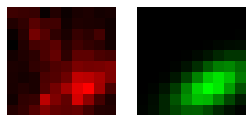
Corresponding bead : Not found

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

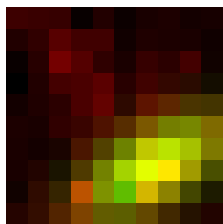
FWHM	Non corrected	Corrected	Theoretical
min	620 nm	641 nm	223 nm
max	1.28 μm	1.32 μm	223 nm
z	1.48 μm	1.49 μm	885 nm
Asymmetry	0.486		
Theta	28.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.758$



Parameters:

A = 115.134 (brightness)

B = 134.511 (background)

a = 0.145 px

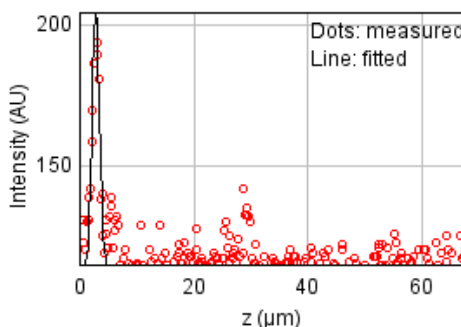
b = 0.113 px

c = 0.287 px

xc = 6.319 px

yc = 6.794 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17347.8437

Standard deviation: 7.51716

R^2 : 0.69874

Parameters:

a = 114.33285

b = 204.92692

c = 2.91592

d = 0.62922

Bead 26 (Rejected)

Date : Mon Oct 17 13:27:43 PDT 2022

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

Frame size : 10 pixels

Coordinates : -149 μm (x), 75.9 μm (y), 2.53 μm (z)

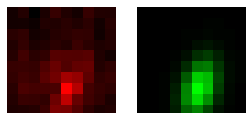
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

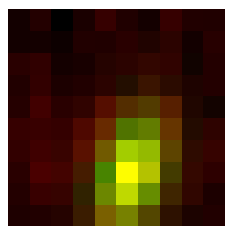
FWHM	Non corrected	Corrected	Theoretical
min	527 nm	545 nm	223 nm
max	923 nm	954 nm	223 nm
z	2.54 μm	2.55 μm	885 nm
Asymmetry	0.571		
Theta	74.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.807$



Parameters:

A = 91.022 (brightness)

B = 115.338 (background)

a = 0.459 px

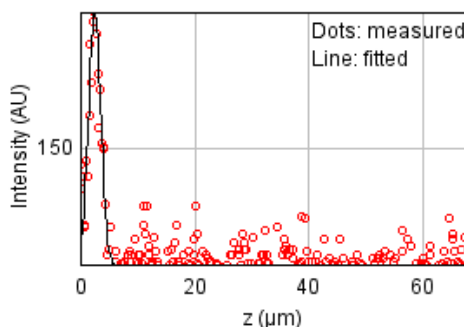
b = 0.086 px

c = 0.182 px

xc = 5.213 px

yc = 6.981 px

Z profile & fitting parameters:



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

Sum of residuals squared: 13675.9845

Standard deviation: 6.67437

R^2 : 0.80898

Parameters:

a = 111.28687

b = 195.27832

c = 2.53376

d = 1.07939

Bead 27 (Rejected)

Date : Mon Oct 17 13:27:43 PDT 2022

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

Frame size : 10 pixels

Coordinates : -11.9 μm (x), 73.3 μm (y), 47.7 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	1.91 μm	1.91 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

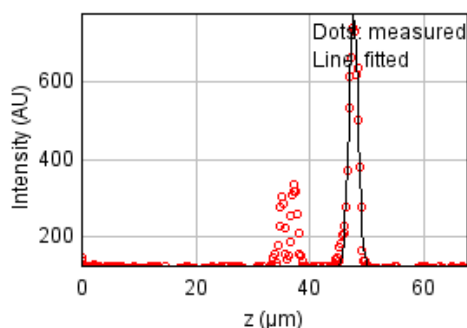
XY profile & fitting parameters :

(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: 383909.252

Standard deviation: 35.36267

R²: 0.87515

Parameters:

a = 122.02903

b = 778.43438

c = 47.71187

d = 0.80948

Bead 28

Date : Mon Oct 17 13:27:43 PDT 2022

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

Frame size : 10 pixels

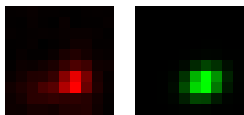
Coordinates : -68.7 μm (x), 37.5 μm (y), 3.06 μm (z)

Corresponding bead : Not found

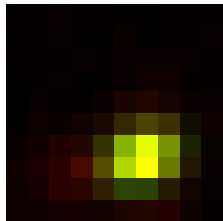
FWHM	Non corrected	Corrected	Theoretical
min	434 nm	449 nm	223 nm
max	567 nm	586 nm	223 nm
z	2.14 μm	2.15 μm	885 nm
Asymmetry	0.765		
Theta	21.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 445.923$ (brightness)

$B = 126.425$ (background)

$a = 0.457$ px

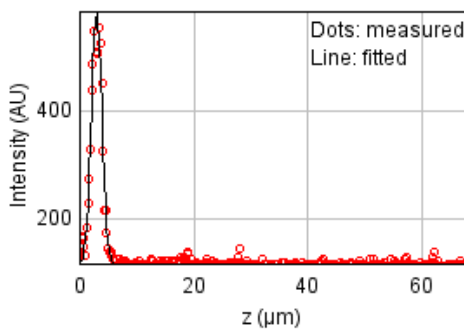
$b = 0.101$ px

$c = 0.672$ px

$x_c = 5.781$ 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: 40543.6708

Standard deviation: 11.49191

$R^2: 0.97435$

Parameters:

$a = 114.45302$

$b = 584.03270$

$c = 3.06279$

$d = 0.91035$

Bead 29

Date : Mon Oct 17 13:27:44 PDT 2022

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

Frame size : 10 pixels

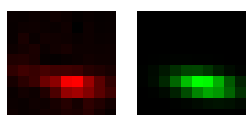
Coordinates : 95.0 μm (x), 36.5 μm (y), 2.15 μm (z)

Corresponding bead : Not found

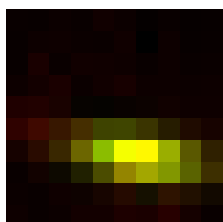
FWHM	Non corrected	Corrected	Theoretical
min	366 nm	379 nm	223 nm
max	965 nm	998 nm	223 nm
z	1.85 μm	1.86 μm	885 nm
Asymmetry	0.38		
Theta	-8.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 356.790$ (brightness)

$B = 119.077$ (background)

$a = 0.164$ px

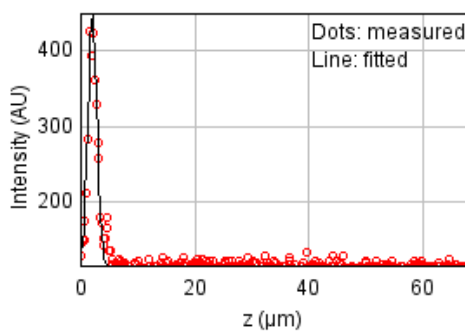
$b = -0.128$ px

$c = 0.980$ px

$x_c = 5.604$ px

$y_c = 6.245$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 35952.2699

Standard deviation: 10.82166

$R^2 = 0.95060$

Parameters:

$a = 112.91007$

$b = 450.56411$

$c = 2.15229$

$d = 0.78539$

Bead 30

Date : Mon Oct 17 13:27:44 PDT 2022

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

Frame size : 10 pixels

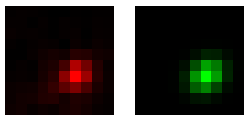
Coordinates : -107 μm (x), -4.38 μm (y), 2.63 μm (z)

Corresponding bead : Not found

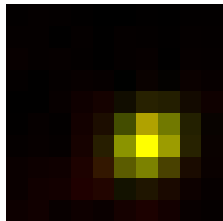
FWHM	Non corrected	Corrected	Theoretical
min	457 nm	472 nm	223 nm
max	551 nm	570 nm	223 nm
z	1.6 μm	1.61 μm	885 nm
Asymmetry	0.829		
Theta	38.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 725.272$ (brightness)

$B = 130.795$ (background)

$a = 0.521$ px

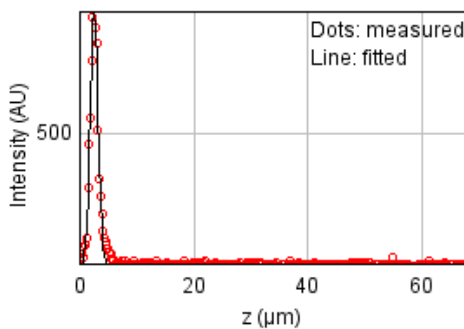
$b = 0.099$ px

$c = 0.565$ px

$x_c = 6.047$ px

$y_c = 5.895$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 47652.9894

Standard deviation: 12.45879

$R^2 = 0.98401$

Parameters:

$a = 113.47064$

$b = 857.83313$

$c = 2.62677$

$d = 0.68142$

Bead 31 (Rejected)

Date : Mon Oct 17 13:27:44 PDT 2022

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

Frame size : 10 pixels

Coordinates : -22.2 μm (x), -10.8 μm (y), 2.28 μm (z)

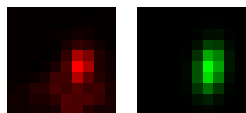
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

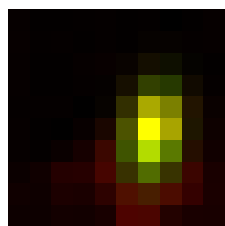
FWHM	Non corrected	Corrected	Theoretical
min	410 nm	424 nm	223 nm
max	708 nm	731 nm	223 nm
z	1.35 μm	1.36 μm	885 nm
Asymmetry	0.58		
Theta	81.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.817$



Parameters:

A = 589.080 (brightness)

B = 141.303 (background)

a = 0.785 px

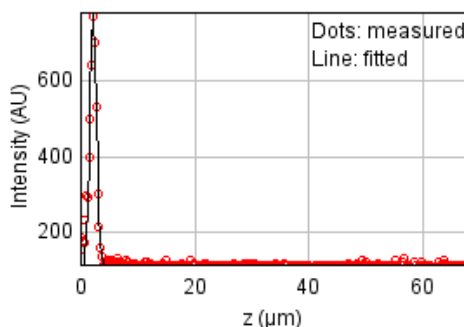
b = 0.080 px

c = 0.280 px

xc = 6.199 px

yc = 5.179 px

Z profile & fitting parameters:



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

Sum of residuals squared: 64408.4684

Standard deviation: 14.48446

R^2 : 0.96935

Parameters:

a = 113.64361

b = 787.81659

c = 2.28377

d = 0.57344

Bead 32

Date : Mon Oct 17 13:27:44 PDT 2022

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

Frame size : 10 pixels

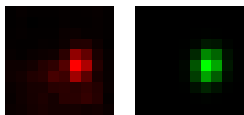
Coordinates : -61.8 μm (x), -27.5 μm (y), 2.5 μm (z)

Corresponding bead : Not found

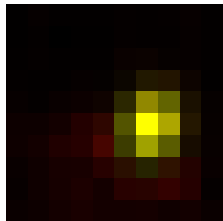
FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	504 nm	521 nm	223 nm
z	1.48 μm	1.49 μm	885 nm
Asymmetry	0.818		
Theta	75.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 922.608$ (brightness)

$B = 148.497$ (background)

$a = 0.773$ px

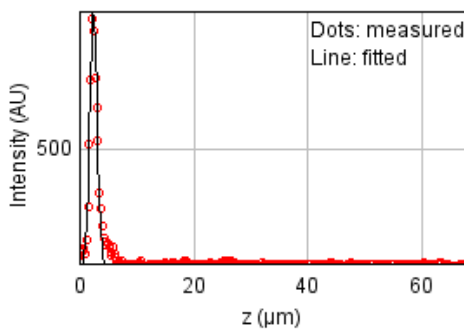
$b = 0.064$ px

$c = 0.545$ px

$x_c = 6.216$ px

$y_c = 5.055$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 109978.173

Standard deviation: 18.92710

$R^2 = 0.97010$

Parameters:

$a = 114.93016$

$b = 967.20937$

$c = 2.50346$

$d = 0.63050$

Bead 33 (Rejected)

Date : Mon Oct 17 13:27:44 PDT 2022

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

Frame size : 10 pixels

Coordinates : 105 μm (x), -75.2 μm (y), 1.64 μm (z)

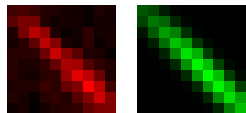
Corresponding bead : Not found

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

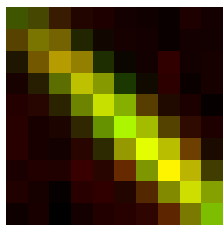
FWHM	Non corrected	Corrected	Theoretical
min	413 nm	427 nm	223 nm
max	2.95 μm	3.05 μm	223 nm
z	1.91 μm	1.92 μm	885 nm
Asymmetry	0.14		
Theta	-44.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 104.443 (brightness)

B = 117.081 (background)

a = 0.396 px

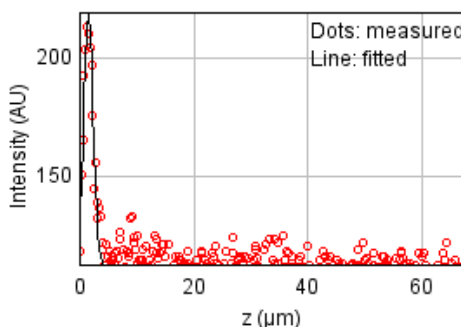
b = -0.386 px

c = 0.408 px

xc = 6.053 px

yc = 5.914 px

Z profile & fitting parameters:



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

Sum of residuals squared: 12018.3222

Standard deviation: 6.25681

R^2 : 0.86031

Parameters:

a = 111.75830

b = 220.40702

c = 1.63823

d = 0.81266

Bead 34 (Rejected)

Date : Mon Oct 17 13:27:45 PDT 2022

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

Frame size : 10 pixels

Coordinates : 126 um (x), 40.1 um (y), 928 nm (z)

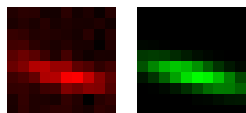
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

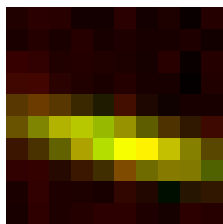
FWHM	Non corrected	Corrected	Theoretical
min	383 nm	395 nm	223 nm
max	1.7 um	1.76 um	223 nm
z	3.01 um	3.03 um	885 nm
Asymmetry	0.225		
Theta	-12.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 114.813 (brightness)

B = 111.762 (background)

a = 0.090 px

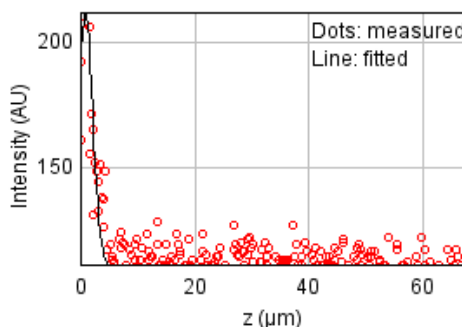
b = -0.190 px

c = 0.874 px

xc = 4.716 px

yc = 5.756 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18969.7295

Standard deviation: 7.86070

R^2 : 0.82108

Parameters:

a = 111.42118

b = 212.09285

c = 0.92760

d = 1.28032

Bead 35 (Rejected)

Date : Mon Oct 17 13:27:45 PDT 2022

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

Frame size : 10 pixels

Coordinates : -86.4 μm (x), 25.1 μm (y), 3.14 μm (z)

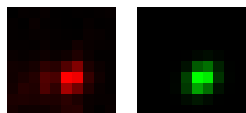
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

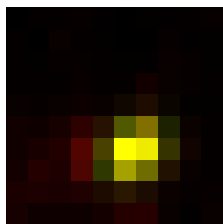
FWHM	Non corrected	Corrected	Theoretical
min	386 nm	399 nm	223 nm
max	480 nm	496 nm	223 nm
z	2.31 μm	2.32 μm	885 nm
Asymmetry	0.805		
Theta	42.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 659.397 (brightness)

B = 134.265 (background)

a = 0.726 px

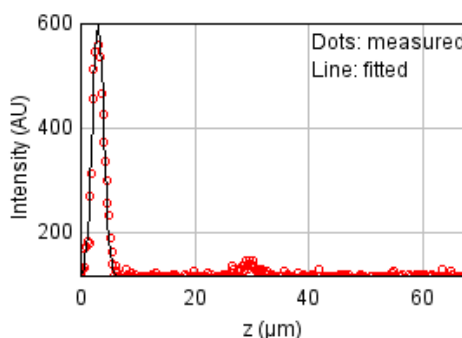
b = 0.158 px

c = 0.757 px

xc = 5.419 px

yc = 6.109 px

Z profile & fitting parameters:



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

Sum of residuals squared: 45156.9119

Standard deviation: 12.12810

R^2 : 0.97527

Parameters:

a = 114.98952

b = 602.35461

c = 3.14162

d = 0.98068

Bead 36 (Rejected)

Date : Mon Oct 17 13:27:45 PDT 2022

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

Frame size : 10 pixels

Coordinates : -142 μm (x), 22.7 μm (y), 3.09 μm (z)

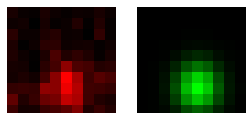
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

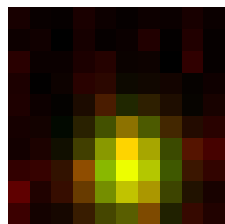
FWHM	Non corrected	Corrected	Theoretical
min	686 nm	709 nm	223 nm
max	771 nm	797 nm	223 nm
z	3.85 μm	3.87 μm	885 nm
Asymmetry	0.889		
Theta	88.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 116.304 (brightness)

B = 121.313 (background)

a = 0.285 px

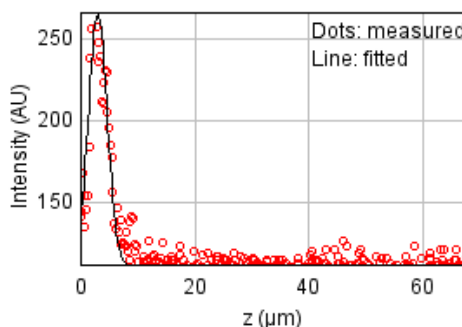
b = 0.002 px

c = 0.226 px

xc = 5.064 px

yc = 6.902 px

Z profile & fitting parameters:



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

Sum of residuals squared: 35374.8576

Standard deviation: 10.73441

R^2 : 0.89049

Parameters:

a = 111.75620

b = 266.13208

c = 3.09279

d = 1.63571

Bead 37 (Rejected)

Date : Mon Oct 17 13:27:45 PDT 2022

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

Frame size : 10 pixels

Coordinates : 164 μm (x), 23.4 μm (y), 864 nm (z)

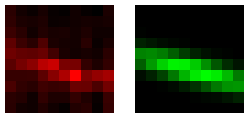
Corresponding bead : Not found

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

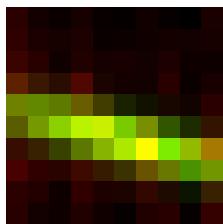
FWHM	Non corrected	Corrected	Theoretical
min	388 nm	401 nm	223 nm
max	2.29 μm	2.37 μm	223 nm
z	1.66 μm	1.67 μm	885 nm
Asymmetry	0.169		
Theta	-14.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.835$



Parameters:

A = 80.764 (brightness)

B = 118.030 (background)

a = 0.082 px

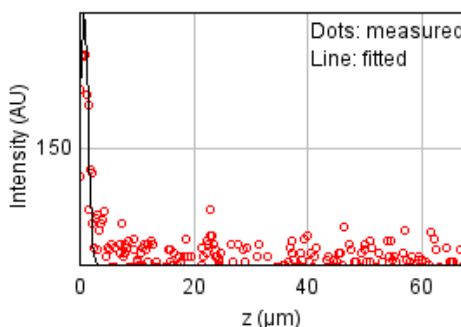
b = -0.214 px

c = 0.836 px

xc = 4.885 px

yc = 5.556 px

Z profile & fitting parameters:



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

Sum of residuals squared: 12654.1608

Standard deviation: 6.42018

R^2 : 0.75268

Parameters:

a = 110.73638

b = 195.48383

c = 0.86432

d = 0.70455

Bead 38 (Rejected)

Date : Mon Oct 17 13:27:46 PDT 2022

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

Frame size : 10 pixels

Coordinates : 55.7 μm (x), -39.5 μm (y), 3.72 μm (z)

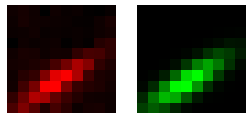
Corresponding bead : Not found

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

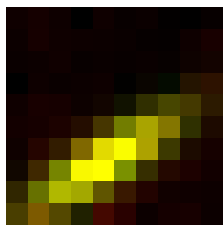
FWHM	Non corrected	Corrected	Theoretical
min	397 nm	410 nm	223 nm
max	1.39 μm	1.44 μm	223 nm
z	1.73 μm	1.74 μm	885 nm
Asymmetry	0.285		
Theta	32.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 241.866 (brightness)

B = 120.283 (background)

a = 0.295 px

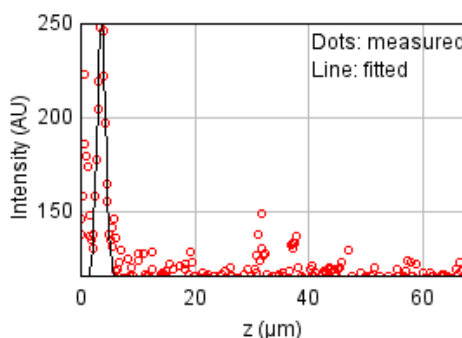
b = 0.355 px

c = 0.627 px

xc = 3.995 px

yc = 6.626 px

Z profile & fitting parameters:



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

Sum of residuals squared: 47724.8309

Standard deviation: 12.46818

R^2 : 0.68387

Parameters:

a = 115.80875

b = 250.43406

c = 3.71969

d = 0.73532

Bead 39

Date : Mon Oct 17 13:27:46 PDT 2022

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

Frame size : 10 pixels

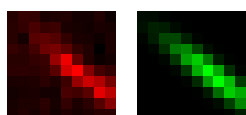
Coordinates : 112 μm (x), -49.6 μm (y), 1.16 μm (z)

Corresponding bead : Not found

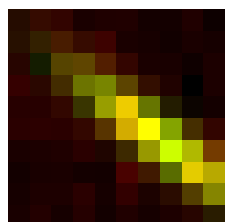
FWHM	Non corrected	Corrected	Theoretical
min	363 nm	375 nm	223 nm
max	1.82 μm	1.88 μm	223 nm
z	1.43 μm	1.44 μm	885 nm
Asymmetry	0.199		
Theta	-38.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.916$



Parameters:

$A = 147.347$ (brightness)

$B = 114.993$ (background)

$a = 0.414$ px

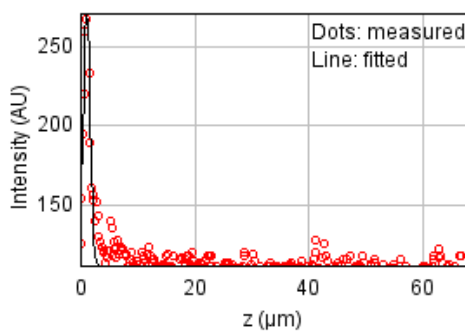
$b = -0.475$ px

$c = 0.644$ px

$xc = 6.567$ px

$yc = 5.522$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 17775.8499

Standard deviation: 7.60932

$R^2 = 0.87250$

Parameters:

$a = 111.35191$

$b = 271.55815$

$c = 1.15972$

$d = 0.60777$

Bead 40 (Rejected)

Date : Mon Oct 17 13:27:46 PDT 2022

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

Frame size : 10 pixels

Coordinates : 38.9 μm (x), -76.8 μm (y), 594 nm (z)

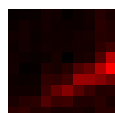
Corresponding bead : Not found

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	1.88 μm	1.89 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

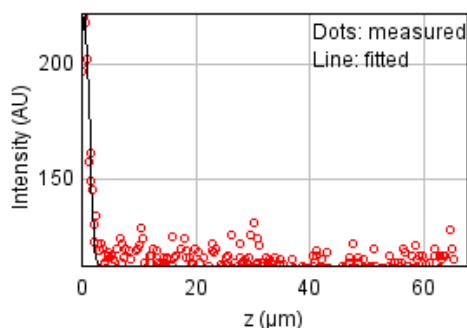
XY profile & fitting parameters :

(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: 12565.4239

Standard deviation: 6.39763

R²: 0.84092

Parameters:

a = 112.81749

b = 221.82157

c = 0.59436

d = 0.79997

Bead 41 (Rejected)

Date : Mon Oct 17 13:27:46 PDT 2022

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

Frame size : 10 pixels

Coordinates : -98.1 μm (x), -87.2 μm (y), 1.66 μm (z)

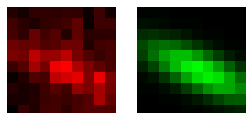
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

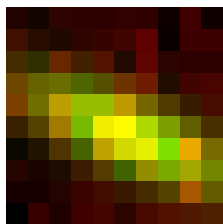
FWHM	Non corrected	Corrected	Theoretical
min	596 nm	616 nm	223 nm
max	1.86 μm	1.93 μm	223 nm
z	3.19 μm	3.2 μm	885 nm
Asymmetry	0.32		
Theta	-24.3°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.795$



Parameters:

A = 64.820 (brightness)

B = 124.383 (background)

a = 0.096 px

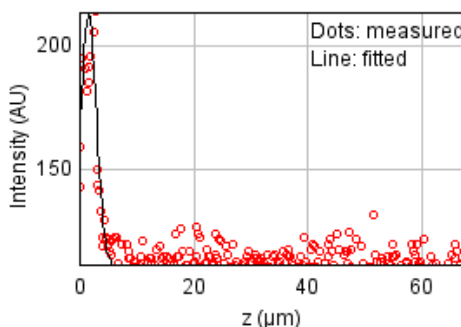
b = -0.127 px

c = 0.320 px

xc = 5.259 px

yc = 5.373 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19706.5252

Standard deviation: 8.01191

R^2 : 0.84038

Parameters:

a = 111.13012

b = 213.38708

c = 1.66427

d = 1.35264

Bead 42

Date : Mon Oct 17 13:27:47 PDT 2022

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

Frame size : 10 pixels

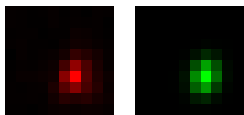
Coordinates : 51.0 μm (x), 74.8 μm (y), 2.73 μm (z)

Corresponding bead : Not found

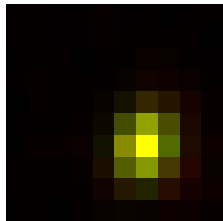
FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	534 nm	552 nm	223 nm
z	1.36 μm	1.36 μm	885 nm
Asymmetry	0.786		
Theta	76.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 924.902$ (brightness)

$B = 126.483$ (background)

$a = 0.747$ px

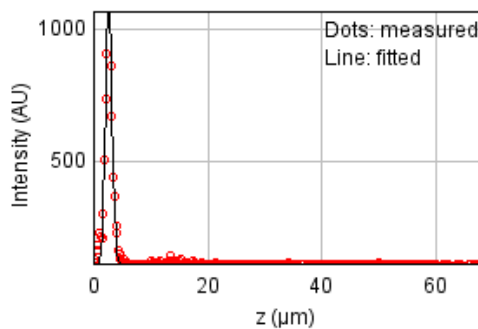
$b = 0.065$ px

$c = 0.486$ px

$xc = 5.917$ px

$yc = 5.980$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 69825.2062

Standard deviation: 15.08124

$R^2: 0.98361$

Parameters:

$a = 115.19085$

$b = 1080.00866$

$c = 2.73310$

$d = 0.57612$

Bead 43

Date : Mon Oct 17 13:27:47 PDT 2022

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

Frame size : 10 pixels

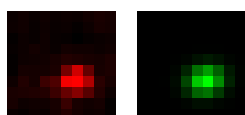
Coordinates : -118 μm (x), 33.7 μm (y), 2.99 μm (z)

Corresponding bead : Not found

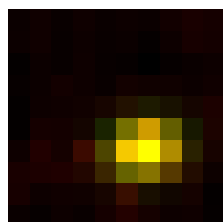
FWHM	Non corrected	Corrected	Theoretical
min	452 nm	467 nm	223 nm
max	572 nm	591 nm	223 nm
z	1.74 μm	1.75 μm	885 nm
Asymmetry	0.79		
Theta	11.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 347.143$ (brightness)

$B = 120.917$ (background)

$a = 0.420$ px

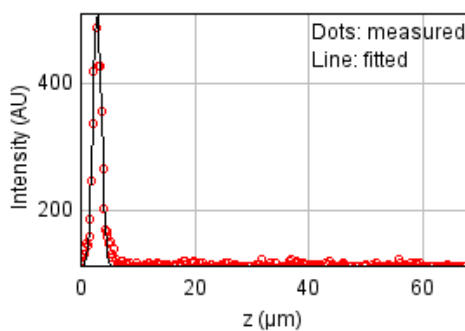
$b = 0.048$ px

$c = 0.648$ px

$x_c = 5.795$ px

$y_c = 5.897$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 29897.1999

Standard deviation: 9.86838

$R^2: 0.96823$

Parameters:

$a = 112.03458$

$b = 510.76924$

$c = 2.99332$

$d = 0.73989$

Bead 44

Date : Mon Oct 17 13:27:47 PDT 2022

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

Frame size : 10 pixels

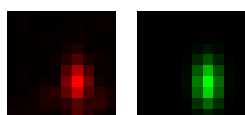
Coordinates : -2.65 μm (x), 26.4 μm (y), 3.4 μm (z)

Corresponding bead : Not found

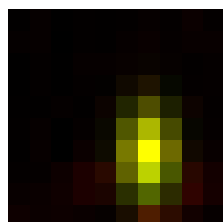
FWHM	Non corrected	Corrected	Theoretical
min	405 nm	418 nm	223 nm
max	711 nm	735 nm	223 nm
z	1.99 μm	1.99 μm	885 nm
Asymmetry	0.569		
Theta	-89.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 611.796 (brightness)

B = 129.057 (background)

a = 0.819 px

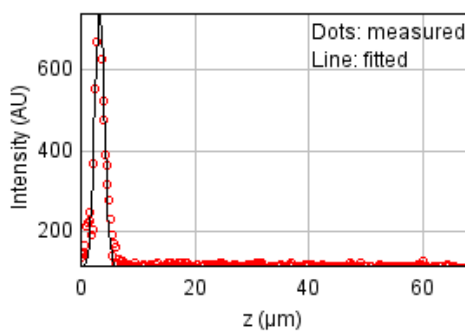
b = -0.006 px

c = 0.265 px

xc = 5.958 px

yc = 6.131 px

Z profile & fitting parameters:



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

Sum of residuals squared: 119413.630

Standard deviation: 19.72231

R^2 : 0.95518

Parameters:

a = 115.70628

b = 741.53934

c = 3.39872

d = 0.84377

Bead 45

Date : Mon Oct 17 13:27:47 PDT 2022

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

Frame size : 10 pixels

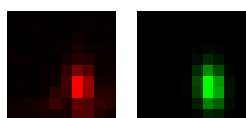
Coordinates : 1.15 μm (x), 10.2 μm (y), 3.03 μm (z)

Corresponding bead : Not found

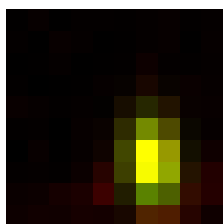
FWHM	Non corrected	Corrected	Theoretical
min	386 nm	399 nm	223 nm
max	652 nm	674 nm	223 nm
z	1.99 μm	2.0 μm	885 nm
Asymmetry	0.592		
Theta	-84.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 601.951 (brightness)

B = 129.173 (background)

a = 0.896 px

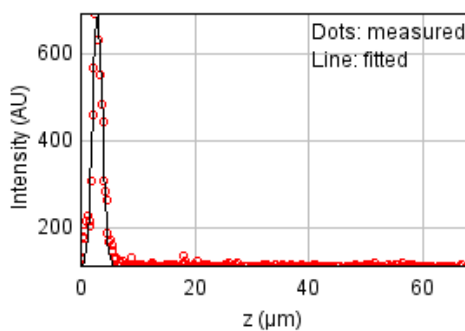
b = -0.052 px

c = 0.320 px

$x_c = 6.244$ px

$y_c = 6.508$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 64408.1718

Standard deviation: 14.48443

R^2 : 0.97112

Parameters:

a = 114.34080

b = 691.39492

c = 3.03073

d = 0.84452

Bead 46

Date : Mon Oct 17 13:27:48 PDT 2022

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

Frame size : 10 pixels

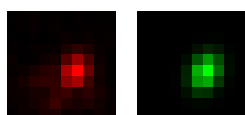
Coordinates : -55.7 μm (x), -7.07 μm (y), 3.15 μm (z)

Corresponding bead : Not found

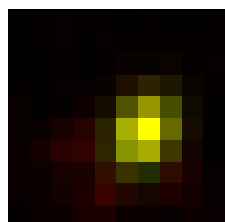
FWHM	Non corrected	Corrected	Theoretical
min	439 nm	453 nm	223 nm
max	573 nm	592 nm	223 nm
z	2.2 μm	2.21 μm	885 nm
Asymmetry	0.766		
Theta	62.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.930$



Parameters:

A = 609.614 (brightness)

B = 133.078 (background)

a = 0.638 px

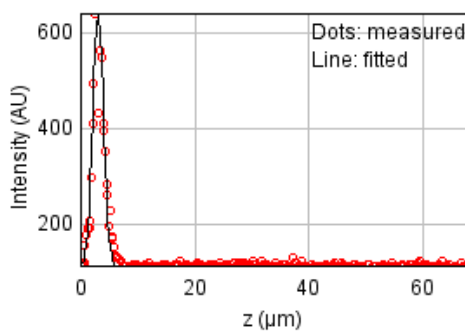
b = 0.117 px

c = 0.469 px

$x_c = 5.772$ px

$y_c = 5.127$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 123819.286

Standard deviation: 20.08283

R^2 : 0.94152

Parameters:

a = 113.33539

b = 640.90655

c = 3.14607

d = 0.93462

Bead 47

Date : Mon Oct 17 13:27:48 PDT 2022

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

Frame size : 10 pixels

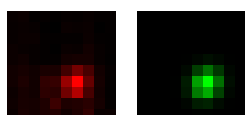
Coordinates : -74.2 μm (x), -18.7 μm (y), 3.29 μm (z)

Corresponding bead : Not found

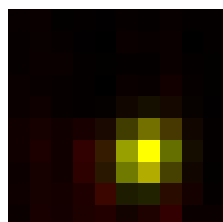
FWHM	Non corrected	Corrected	Theoretical
min	437 nm	451 nm	223 nm
max	487 nm	504 nm	223 nm
z	2.03 μm	2.04 μm	885 nm
Asymmetry	0.896		
Theta	54.4°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
 $R^2 = 0.919$



Parameters:

$A = 545.698$ (brightness)

$B = 131.157$ (background)

$a = 0.657$ px

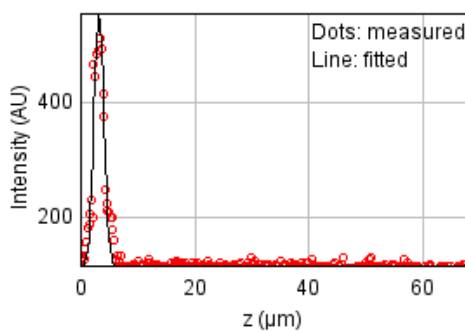
$b = 0.066$ px

$c = 0.612$ px

$x_c = 5.841$ px

$y_c = 6.190$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 77255.6089

Standard deviation: 15.86338

$R^2: 0.94401$

Parameters:

$a = 113.69892$

$b = 557.05787$

$c = 3.28811$

$d = 0.86130$

Bead 48 (Rejected)

Date : Mon Oct 17 13:27:48 PDT 2022

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

Frame size : 10 pixels

Coordinates : -86.2 μm (x), -36.7 μm (y), 19.2 μm (z)

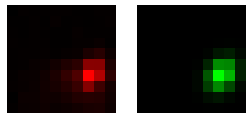
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

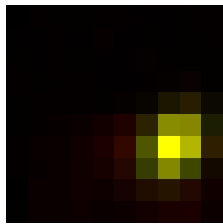
FWHM	Non corrected	Corrected	Theoretical
min	403 nm	417 nm	223 nm
max	511 nm	529 nm	223 nm
z	1.27 μm	1.28 μm	885 nm
Asymmetry	0.789		
Theta	53.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 969.168 (brightness)

B = 134.118 (background)

a = 0.717 px

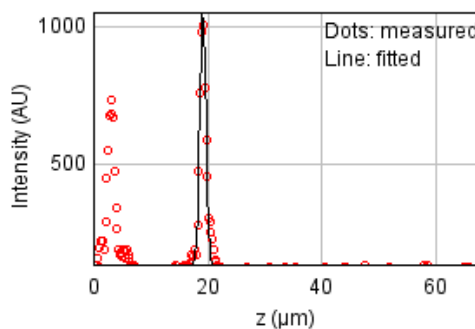
b = 0.148 px

c = 0.621 px

xc = 7.278 px

yc = 5.917 px

Z profile & fitting parameters:



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

Sum of residuals squared: 1987325.42

Standard deviation: 80.45727

R^2 : 0.64493

Parameters:

a = 133.25594

b = 1057.11556

c = 19.19684

d = 0.54019

Bead 49 (Rejected)

Date : Mon Oct 17 13:27:48 PDT 2022

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

Frame size : 10 pixels

Coordinates : -161 μm (x), -64.3 μm (y), 1.62 μm (z)

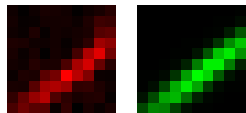
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

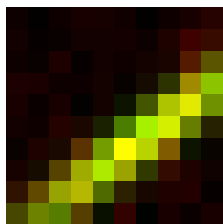
FWHM	Non corrected	Corrected	Theoretical
min	386 nm	399 nm	223 nm
max	2.7 μm	2.79 μm	223 nm
z	2.73 μm	2.74 μm	885 nm
Asymmetry	0.143		
Theta	36.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.916$



Parameters:

A = 117.864 (brightness)

B = 113.487 (background)

a = 0.332 px

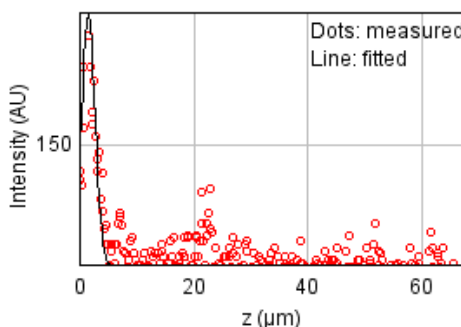
b = 0.422 px

c = 0.585 px

xc = 5.960 px

yc = 5.422 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16990.4577

Standard deviation: 7.43932

R^2 : 0.77611

Parameters:

a = 110.91388

b = 193.24852

c = 1.62370

d = 1.15924

Bead 50

Date : Mon Oct 17 13:27:49 PDT 2022

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

Frame size : 10 pixels

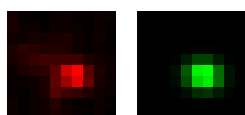
Coordinates : -113 μm (x), 86.8 μm (y), 2.6 μm (z)

Corresponding bead : Not found

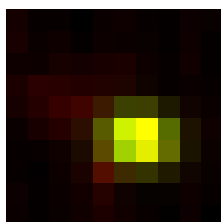
FWHM	Non corrected	Corrected	Theoretical
min	427 nm	441 nm	223 nm
max	544 nm	562 nm	223 nm
z	2.32 μm	2.33 μm	885 nm
Asymmetry	0.785		
Theta	-7.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.905$



Parameters:

A = 398.355 (brightness)

B = 125.816 (background)

a = 0.459 px

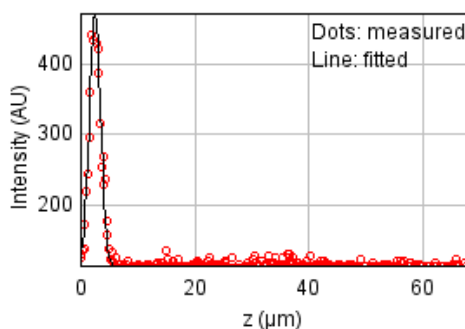
b = -0.037 px

c = 0.731 px

xc = 5.592 px

yc = 5.430 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29617.2409

Standard deviation: 9.82207

R^2 : 0.97033

Parameters:

a = 112.46749

b = 471.32005

c = 2.59779

d = 0.98387

Bead 51

Date : Mon Oct 17 13:27:49 PDT 2022

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

Frame size : 10 pixels

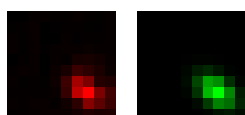
Coordinates : 58.0 μm (x), 43.1 μm (y), 3.38 μm (z)

Corresponding bead : Not found

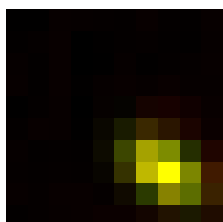
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	420 nm	223 nm
max	653 nm	675 nm	223 nm
z	1.11 μm	1.12 μm	885 nm
Asymmetry	0.623		
Theta	-36.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 673.344$ (brightness)

$B = 121.548$ (background)

$a = 0.489$ px

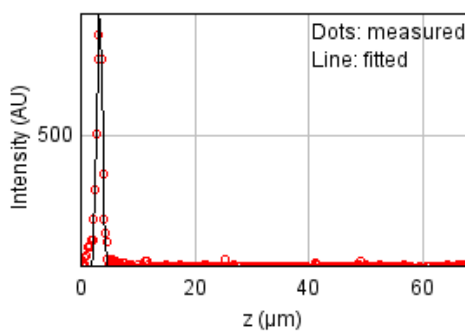
$b = -0.237$ px

$c = 0.638$ px

$x_c = 6.786$ px

$y_c = 6.891$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 56826.5603

Standard deviation: 13.60525

$R^2 = 0.97397$

Parameters:

$a = 114.40176$

$b = 870.76746$

$c = 3.37836$

$d = 0.47300$

Bead 52 (Rejected)

Date : Mon Oct 17 13:27:49 PDT 2022

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

Frame size : 10 pixels

Coordinates : 107 μm (x), 31.6 μm (y), 1.66 μm (z)

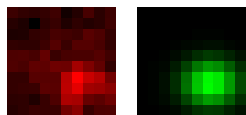
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

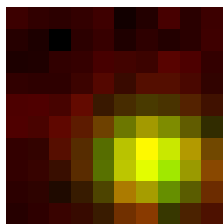
FWHM	Non corrected	Corrected	Theoretical
min	738 nm	763 nm	223 nm
max	899 nm	930 nm	223 nm
z	4.8 μm	4.82 μm	885 nm
Asymmetry	0.82		
Theta	1.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.806$



Parameters:

A = 79.091 (brightness)

B = 115.148 (background)

a = 0.166 px

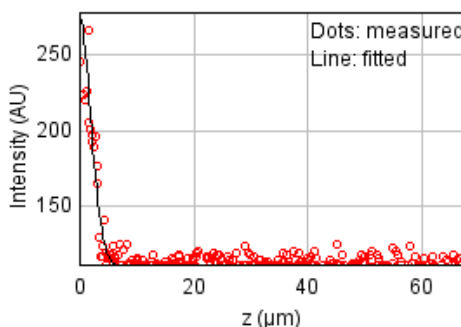
b = 0.002 px

c = 0.246 px

xc = 6.244 px

yc = 6.514 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19505.2404

Standard deviation: 7.97088

R^2 : 0.91901

Parameters:

a = 111.06873

b = 278.10892

c = -0.073302

d = 2.03966

Bead 53

Date : Mon Oct 17 13:27:49 PDT 2022

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

Frame size : 10 pixels

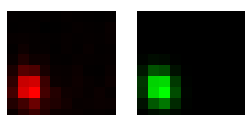
Coordinates : 10.5 μm (x), 25.8 μm (y), 12.4 μm (z)

Corresponding bead : Not found

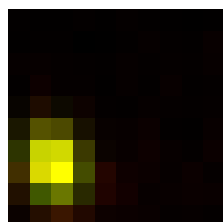
FWHM	Non corrected	Corrected	Theoretical
min	436 nm	451 nm	223 nm
max	550 nm	568 nm	223 nm
z	1.72 μm	1.73 μm	885 nm
Asymmetry	0.793		
Theta	-74.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 607.575$ (brightness)

$B = 120.865$ (background)

$a = 0.687$ px

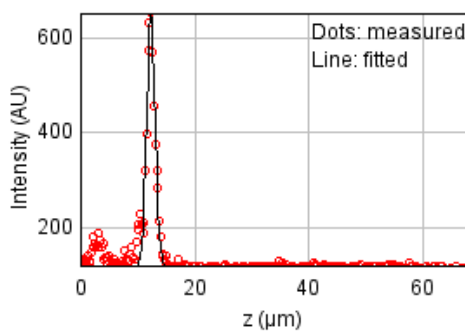
$b = -0.068$ px

$c = 0.463$ px

$x_c = 1.581$ px

$y_c = 6.613$ 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 54 (Rejected)

Date : Mon Oct 17 13:27:50 PDT 2022

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

Frame size : 10 pixels

Coordinates : -41.6 μm (x), 26.1 μm (y), 2.54 μm (z)

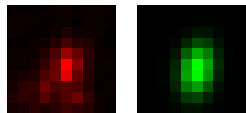
Corresponding bead : Not found

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

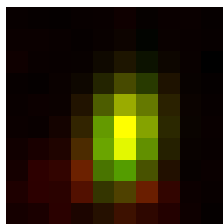
FWHM	Non corrected	Corrected	Theoretical
min	526 nm	544 nm	223 nm
max	809 nm	836 nm	223 nm
z	3.69 μm	3.7 μm	885 nm
Asymmetry	0.65		
Theta	79.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 437.531 (brightness)

B = 134.702 (background)

a = 0.476 px

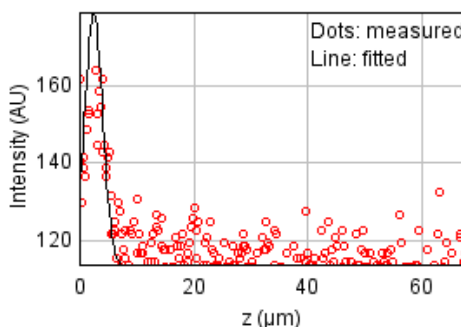
b = 0.050 px

c = 0.214 px

xc = 4.985 px

yc = 5.441 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19934.1228

Standard deviation: 8.05804

R^2 : 0.71111

Parameters:

a = 113.76921

b = 178.89968

c = 2.53544

d = 1.56566

Bead 55

Date : Mon Oct 17 13:27:50 PDT 2022

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

Frame size : 10 pixels

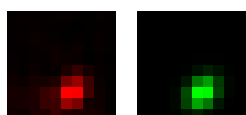
Coordinates : -63.9 μm (x), 11.0 μm (y), 3.86 μm (z)

Corresponding bead : Not found

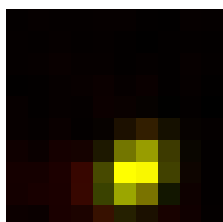
FWHM	Non corrected	Corrected	Theoretical
min	411 nm	425 nm	223 nm
max	540 nm	558 nm	223 nm
z	1.9 μm	1.91 μm	885 nm
Asymmetry	0.762		
Theta	48.7°		

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:

$A = 743.107$ (brightness)

$B = 124.182$ (background)

$a = 0.648$ px

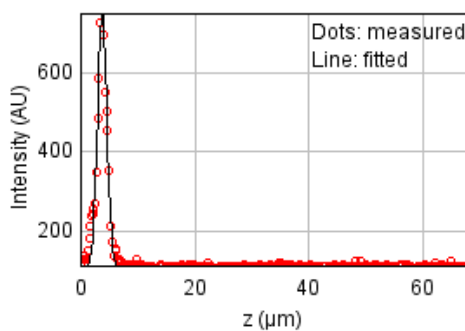
$b = 0.165$ px

$c = 0.605$ px

$x_c = 5.469$ px

$y_c = 7.015$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 61075.9252

Standard deviation: 14.10476

$R^2: 0.97646$

Parameters:

$a = 113.49878$

$b = 750.97695$

$c = 3.86101$

$d = 0.80781$

Bead 56 (Rejected)

Date : Mon Oct 17 13:27:50 PDT 2022

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

Frame size : 10 pixels

Coordinates : -134 μm (x), -22.1 μm (y), 1.81 μm (z)

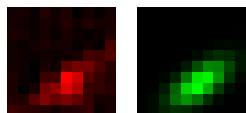
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

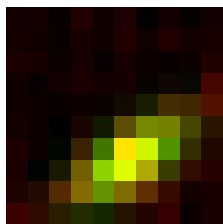
FWHM	Non corrected	Corrected	Theoretical
min	457 nm	472 nm	223 nm
max	1.01 μm	1.04 μm	223 nm
z	2.31 μm	2.32 μm	885 nm
Asymmetry	0.454		
Theta	34.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 133.211 (brightness)

B = 113.133 (background)

a = 0.298 px

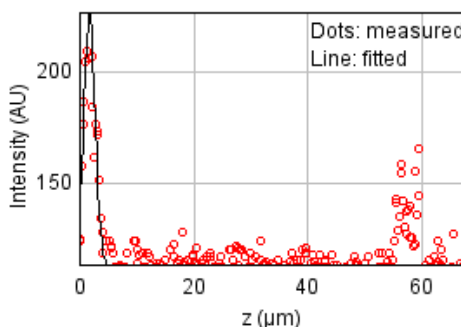
b = 0.239 px

c = 0.478 px

xc = 5.219 px

yc = 6.501 px

Z profile & fitting parameters:



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

Sum of residuals squared: 31983.0434

Standard deviation: 10.20683

R^2 : 0.74654

Parameters:

a = 113.99985

b = 226.06912

c = 1.80964

d = 0.98160

Bead 57 (Rejected)

Date : Mon Oct 17 13:27:50 PDT 2022

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

Frame size : 10 pixels

Coordinates : 101 μm (x), -22.7 μm (y), 2.96 μm (z)

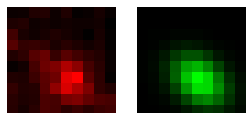
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

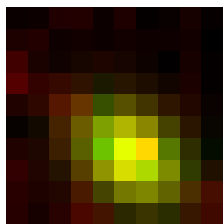
FWHM	Non corrected	Corrected	Theoretical
min	670 nm	693 nm	223 nm
max	926 nm	958 nm	223 nm
z	2.87 μm	2.88 μm	885 nm
Asymmetry	0.723		
Theta	-39.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.844$



Parameters:

A = 110.101 (brightness)

B = 119.186 (background)

a = 0.215 px

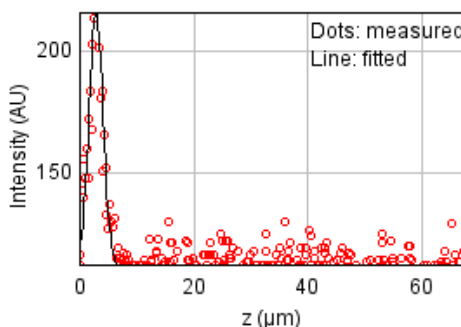
b = -0.070 px

c = 0.240 px

xc = 5.215 px

yc = 6.271 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15622.8391

Standard deviation: 7.13363

R^2 : 0.86563

Parameters:

a = 111.53663

b = 216.15980

c = 2.95653

d = 1.21826

Bead 58 (Rejected)

Date : Mon Oct 17 13:27:50 PDT 2022

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

Frame size : 10 pixels

Coordinates : -44.7 μm (x), -46.8 μm (y), 1.4 μm (z)

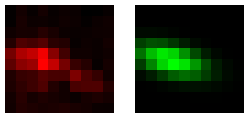
Corresponding bead : Not found

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

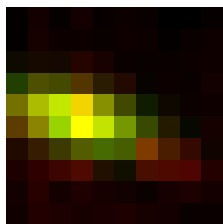
FWHM	Non corrected	Corrected	Theoretical
min	457 nm	472 nm	223 nm
max	1.09 μm	1.13 μm	223 nm
z	2.2 μm	2.21 μm	885 nm
Asymmetry	0.417		
Theta	-15.3°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.866$



Parameters:

A = 220.823 (brightness)

B = 121.905 (background)

a = 0.149 px

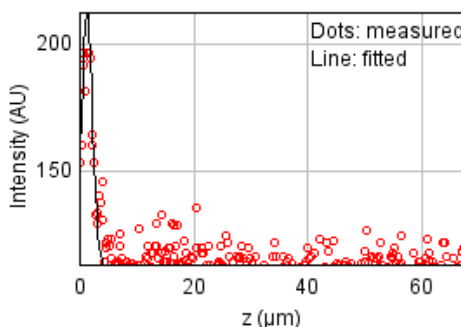
b = -0.136 px

c = 0.606 px

xc = 2.745 px

yc = 4.594 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16463.3228

Standard deviation: 7.32301

R^2 : 0.81172

Parameters:

a = 113.06793

b = 212.87492

c = 1.40334

d = 0.93557

Bead 59

Date : Mon Oct 17 13:27:51 PDT 2022

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

Frame size : 10 pixels

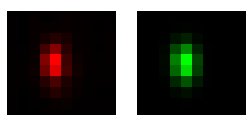
Coordinates : -28.4 μm (x), -52.9 μm (y), 49.5 μm (z)

Corresponding bead : Not found

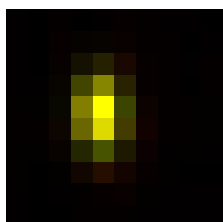
FWHM	Non corrected	Corrected	Theoretical
min	362 nm	375 nm	223 nm
max	578 nm	598 nm	223 nm
z	1.11 μm	1.11 μm	885 nm
Asymmetry	0.627		
Theta	-88.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1910.851 (brightness)

B = 128.682 (background)

a = 1.021 px

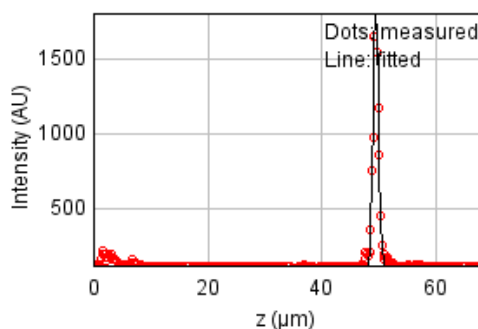
b = -0.019 px

c = 0.402 px

$x_c = 3.854$ px

$y_c = 4.296$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 223933.692

Standard deviation: 27.00788

R^2 : 0.97901

Parameters:

a = 121.86963

b = 1804.23374

c = 49.52446

d = 0.46948

Bead 60 (Rejected)

Date : Mon Oct 17 13:27:51 PDT 2022

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

Frame size : 10 pixels

Coordinates : 62.1 μm (x), -68.2 μm (y), 850 nm (z)

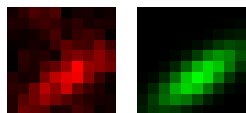
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

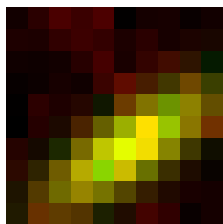
FWHM	Non corrected	Corrected	Theoretical
min	535 nm	553 nm	223 nm
max	1.49 μm	1.55 μm	223 nm
z	2.63 μm	2.64 μm	885 nm
Asymmetry	0.358		
Theta	34.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.853$



Parameters:

A = 88.893 (brightness)

B = 123.945 (background)

a = 0.188 px

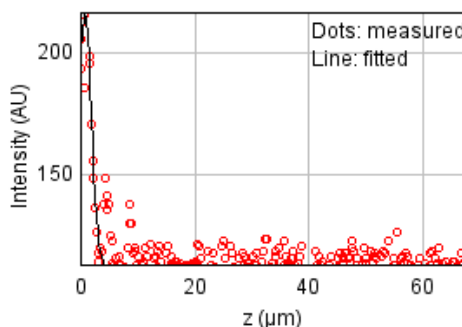
b = 0.190 px

c = 0.341 px

xc = 5.224 px

yc = 5.920 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16206.1904

Standard deviation: 7.26560

R^2 : 0.83444

Parameters:

a = 112.86981

b = 216.21497

c = 0.85010

d = 1.11526

Bead 61

Date : Mon Oct 17 13:27:51 PDT 2022

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

Frame size : 10 pixels

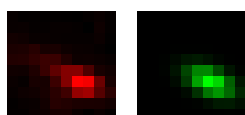
Coordinates : -128 μm (x), 88.7 μm (y), 2.99 μm (z)

Corresponding bead : Not found

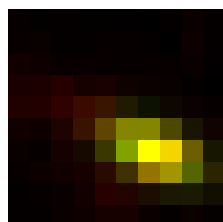
FWHM	Non corrected	Corrected	Theoretical
min	406 nm	420 nm	223 nm
max	778 nm	804 nm	223 nm
z	1.78 μm	1.78 μm	885 nm
Asymmetry	0.522		
Theta	-23.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 455.216 (brightness)

B = 124.700 (background)

a = 0.319 px

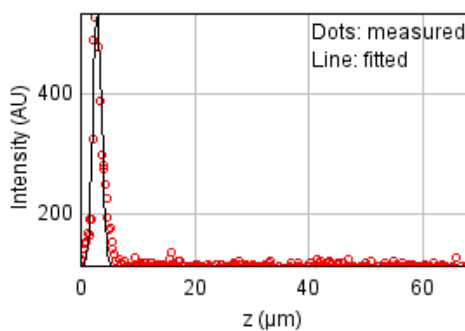
b = -0.219 px

c = 0.717 px

$x_c = 6.223$ px

$y_c = 6.019$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 67460.9654

Standard deviation: 14.82372

R^2 : 0.93910

Parameters:

a = 114.30041

b = 536.39756

c = 2.99052

d = 0.75449

Bead 62

Date : Mon Oct 17 13:27:51 PDT 2022

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

Frame size : 10 pixels

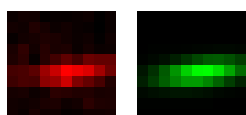
Coordinates : 131 um (x), 82.2 um (y), 2.28 um (z)

Corresponding bead : Not found

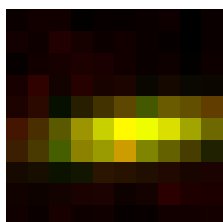
FWHM	Non corrected	Corrected	Theoretical
min	393 nm	406 nm	223 nm
max	1.38 um	1.43 um	223 nm
z	2.78 um	2.79 um	885 nm
Asymmetry	0.284		
Theta	6.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 174.059 (brightness)

B = 115.418 (background)

a = 0.080 px

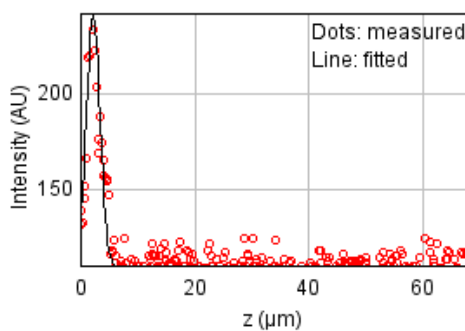
b = 0.088 px

c = 0.861 px

xc = 5.440 px

yc = 5.181 px

Z profile & fitting parameters:



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

Sum of residuals squared: 21021.2902

Standard deviation: 8.27486

R^2 : 0.88109

Parameters:

a = 110.14588

b = 242.29003

c = 2.28180

d = 1.17930

Bead 63

Date : Mon Oct 17 13:27:51 PDT 2022

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

Frame size : 10 pixels

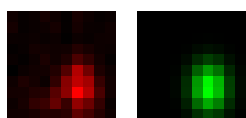
Coordinates : -60.5 μm (x), 60.6 μm (y), 2.88 μm (z)

Corresponding bead : Not found

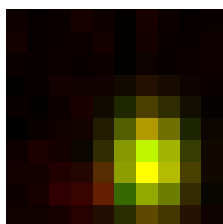
FWHM	Non corrected	Corrected	Theoretical
min	586 nm	606 nm	223 nm
max	785 nm	811 nm	223 nm
z	1.68 μm	1.68 μm	885 nm
Asymmetry	0.747		
Theta	-89.3°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.917$



Parameters:

$A = 232.590$ (brightness)

$B = 117.618$ (background)

$a = 0.390$ px

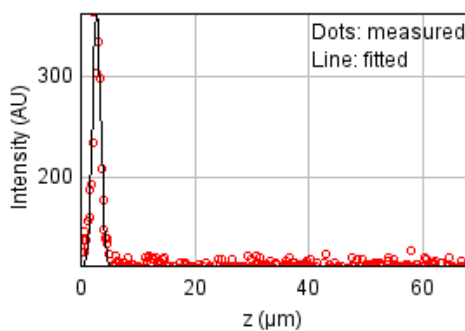
$b = -0.002$ px

$c = 0.218$ px

$x_c = 6.110$ px

$y_c = 6.584$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 22042.4013

Standard deviation: 8.47345

$R^2: 0.93909$

Parameters:

$a = 113.07224$

$b = 361.11215$

$c = 2.88204$

$d = 0.71221$

Bead 64 (Rejected)

Date : Mon Oct 17 13:27:51 PDT 2022

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

Frame size : 10 pixels

Coordinates : -88.2 μm (x), 32.8 μm (y), 61.2 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	1.07 μm	1.08 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

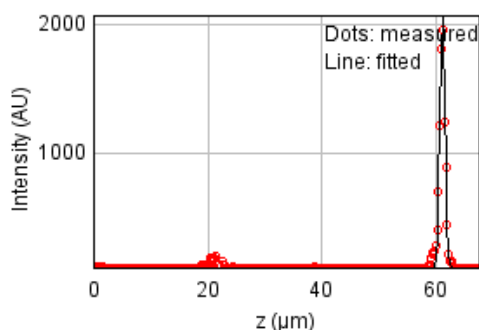
XY profile & fitting parameters :

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



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

Z profile & fitting parameters:



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

Sum of residuals squared: 244303.132

Standard deviation: 28.20950

R²: 0.98238

Parameters:

a = 121.14765

b = 2069.70767

c = 61.19044

d = 0.45608

Bead 65 (Rejected)

Date : Mon Oct 17 13:27:51 PDT 2022

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

Frame size : 10 pixels

Coordinates : 48.0 μm (x), 8.07 μm (y), 1.53 μm (z)

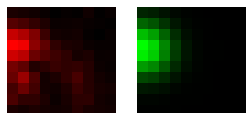
Corresponding bead : Not found

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

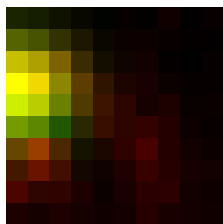
FWHM	Non corrected	Corrected	Theoretical
min	861 nm	890 nm	223 nm
max	928 nm	960 nm	223 nm
z	1.15 μm	1.16 μm	885 nm
Asymmetry	0.927		
Theta	-13.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.833$



Parameters:

A = 363.632 (brightness)

B = 143.362 (background)

a = 0.157 px

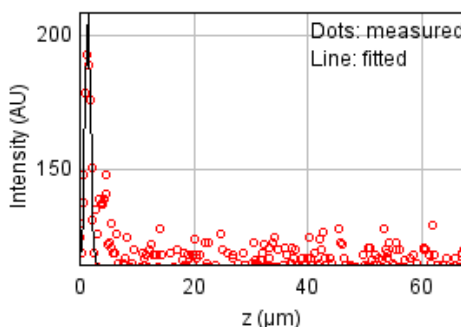
b = -0.006 px

c = 0.180 px

xc = -0.013 px

yc = 3.310 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16769.2282

Standard deviation: 7.39073

R^2 : 0.67143

Parameters:

a = 114.02661

b = 208.40480

c = 1.52983

d = 0.49008

Bead 66 (Rejected)

Date : Mon Oct 17 13:27:52 PDT 2022

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

Frame size : 10 pixels

Coordinates : 47.5 μm (x), -7.4 μm (y), 1.83 μm (z)

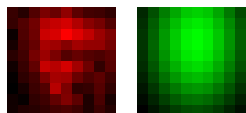
Corresponding bead : Not found

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

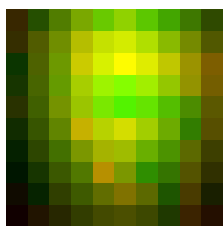
FWHM	Non corrected	Corrected	Theoretical
min	1.65 μm	1.71 μm	223 nm
max	2.4 μm	2.48 μm	223 nm
z	1.55 μm	1.56 μm	885 nm
Asymmetry	0.689		
Theta	89.3°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.709$



Parameters:

A = 132.423 (brightness)

B = 90.189 (background)

a = 0.049 px

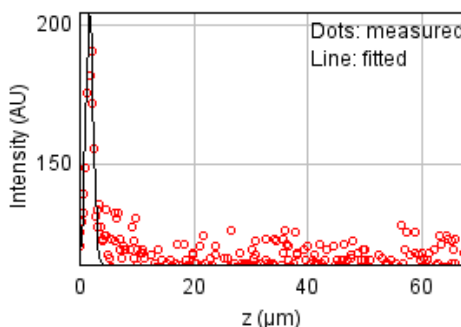
b = 0.000 px

c = 0.023 px

xc = 4.939 px

yc = 2.658 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15735.4398

Standard deviation: 7.15929

R^2 : 0.72754

Parameters:

a = 114.13592

b = 204.61002

c = 1.83048

d = 0.65985

Bead 67 (Rejected)

Date : Mon Oct 17 13:27:52 PDT 2022

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

Frame size : 10 pixels

Coordinates : -49.5 μm (x), -83.8 μm (y), 1.44 μm (z)

Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.47 μm	1.47 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

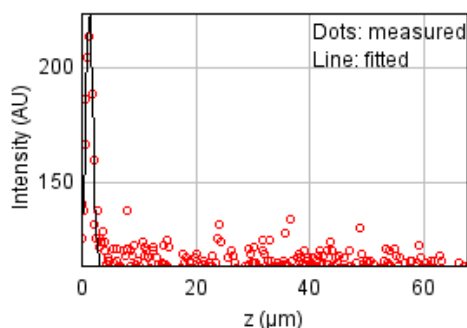
XY profile & fitting parameters :

(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: 12272.3861

Standard deviation: 6.32259

R²: 0.83273

Parameters:

a = 113.08450

b = 225.28894

c = 1.44265

d = 0.62249

Bead 68 (Rejected)

Date : Mon Oct 17 13:27:52 PDT 2022

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

Frame size : 10 pixels

Coordinates : -74.7 μm (x), -95.2 μm (y), 1.31 μm (z)

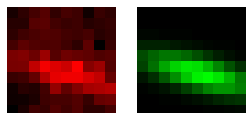
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

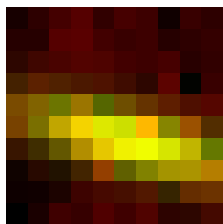
FWHM	Non corrected	Corrected	Theoretical
min	507 nm	524 nm	223 nm
max	1.8 μm	1.86 μm	223 nm
z	2.93 μm	2.94 μm	885 nm
Asymmetry	0.281		
Theta	-14.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.855$



Parameters:

A = 86.964 (brightness)

B = 121.222 (background)

a = 0.073 px

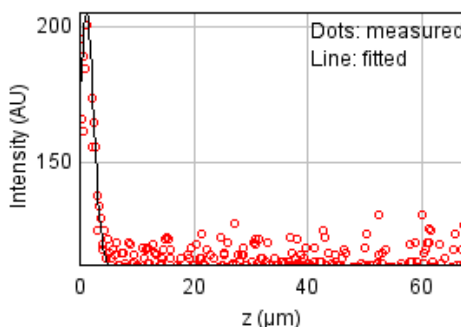
b = -0.119 px

c = 0.491 px

xc = 5.231 px

yc = 5.629 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16288.5348

Standard deviation: 7.28403

R^2 : 0.82646

Parameters:

a = 112.14377

b = 204.97950

c = 1.30800

d = 1.24520

Bead 69 (Rejected)

Date : Mon Oct 17 13:27:52 PDT 2022

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

Frame size : 10 pixels

Coordinates : 91.3 μm (x), 68.1 μm (y), 2.0 μm (z)

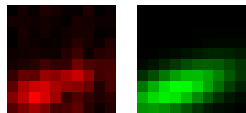
Corresponding bead : Not found

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

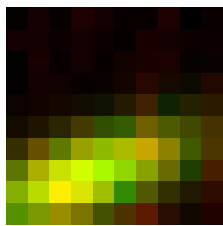
FWHM	Non corrected	Corrected	Theoretical
min	650 nm	672 nm	223 nm
max	1.84 μm	1.9 μm	223 nm
z	1.02 μm	1.02 μm	885 nm
Asymmetry	0.353		
Theta	18.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 119.088 (brightness)

B = 115.353 (background)

a = 0.068 px

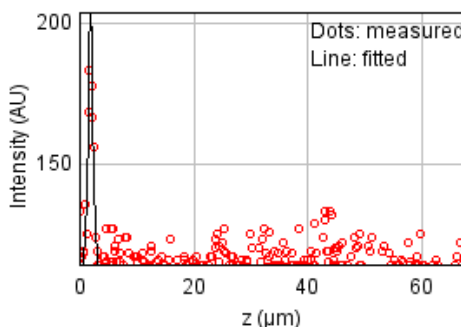
b = 0.084 px

c = 0.290 px

xc = 2.998 px

yc = 7.309 px

Z profile & fitting parameters:



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

Sum of residuals squared: 13094.6316

Standard deviation: 6.53097

R^2 : 0.68080

Parameters:

a = 113.54192

b = 204.13000

c = 2.00113

d = 0.43220

Bead 70 (Rejected)

Date : Mon Oct 17 13:27:52 PDT 2022

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

Frame size : 10 pixels

Coordinates : 91.3 μm (x), 68.1 μm (y), 2.0 μm (z)

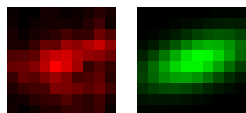
Corresponding bead : Not found

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

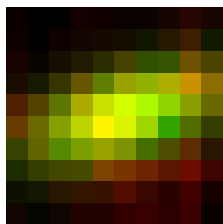
FWHM	Non corrected	Corrected	Theoretical
min	719 nm	743 nm	223 nm
max	1.63 μm	1.68 μm	223 nm
z	1.02 μm	1.02 μm	885 nm
Asymmetry	0.441		
Theta	17.4°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.785$



Parameters:

A = 111.313 (brightness)

B = 120.681 (background)

a = 0.069 px

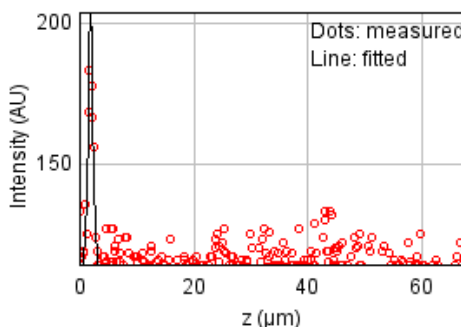
b = 0.060 px

c = 0.241 px

xc = 5.017 px

yc = 4.420 px

Z profile & fitting parameters:



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

Sum of residuals squared: 13094.6316

Standard deviation: 6.53097

R^2 : 0.68080

Parameters:

a = 113.54192

b = 204.13000

c = 2.00113

d = 0.43220

Bead 71 (Rejected)

Date : Mon Oct 17 13:27:52 PDT 2022

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

Frame size : 10 pixels

Coordinates : -20.7 μm (x), 55.9 μm (y), 45.7 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	1.02 μm	1.03 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

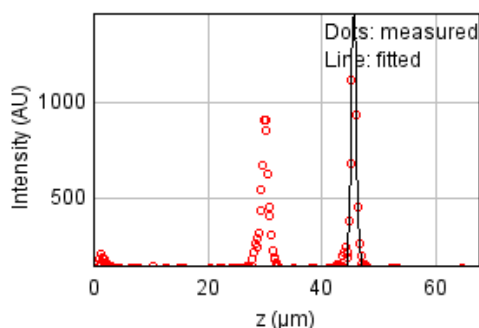
XY profile & fitting parameters :

(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: 3102938.86

Standard deviation: 100.53503

R²: 0.67141

Parameters:

a = 140.16818

b = 1502.54711

c = 45.66063

d = 0.43383

Bead 72

Date : Mon Oct 17 13:27:52 PDT 2022

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

Frame size : 10 pixels

Coordinates : -108 μm (x), 8.19 μm (y), 3.77 μm (z)

Corresponding bead : Not found

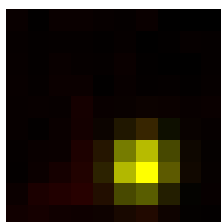
FWHM	Non corrected	Corrected	Theoretical
min	433 nm	448 nm	223 nm
max	462 nm	477 nm	223 nm
z	1.74 μm	1.75 μm	885 nm
Asymmetry	0.938		
Theta	53.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 542.963$ (brightness)

$B = 123.176$ (background)

$a = 0.685$ px

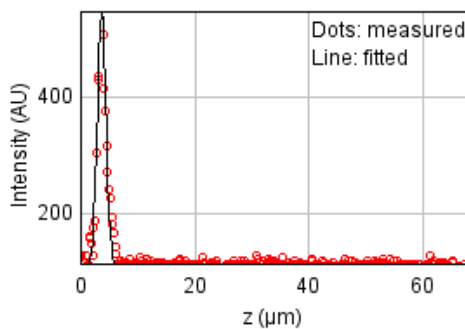
$b = 0.041$ px

$c = 0.659$ px

$x_c = 5.755$ px

$y_c = 6.752$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 54561.0009

Standard deviation: 13.33128

$R^2: 0.95161$

Parameters:

$a = 113.16782$

$b = 545.59072$

$c = 3.76648$

$d = 0.74089$

Bead 73

Date : Mon Oct 17 13:27:52 PDT 2022

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

Frame size : 10 pixels

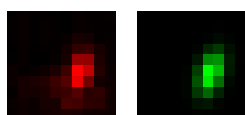
Coordinates : -42.2 μm (x), -6.87 μm (y), 3.75 μm (z)

Corresponding bead : Not found

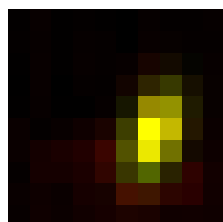
FWHM	Non corrected	Corrected	Theoretical
min	377 nm	390 nm	223 nm
max	675 nm	698 nm	223 nm
z	1.81 μm	1.82 μm	885 nm
Asymmetry	0.559		
Theta	71.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 789.951 (brightness)

B = 138.697 (background)

a = 0.877 px

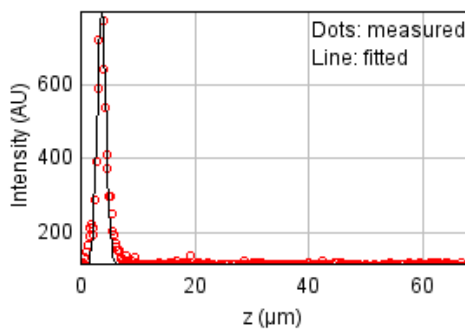
b = 0.196 px

c = 0.360 px

xc = 6.263 px

yc = 5.220 px

Z profile & fitting parameters:



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

Sum of residuals squared: 94824.5516

Standard deviation: 17.57483

R^2 : 0.96690

Parameters:

a = 115.02847

b = 797.58559

c = 3.75315

d = 0.76885

Bead 74 (Rejected)

Date : Mon Oct 17 13:27:53 PDT 2022

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

Frame size : 10 pixels

Coordinates : 47.4 μm (x), -7.51 μm (y), 1.83 μm (z)

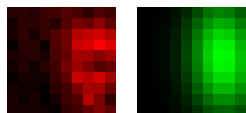
Corresponding bead : Not found

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

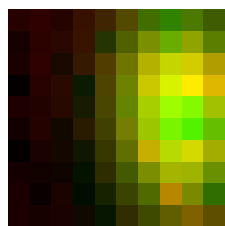
FWHM	Non corrected	Corrected	Theoretical
min	1.08 μm	1.12 μm	223 nm
max	1.83 μm	1.89 μm	223 nm
z	1.55 μm	1.56 μm	885 nm
Asymmetry	0.593		
Theta	-86.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 115.288 (brightness)

B = 115.941 (background)

a = 0.114 px

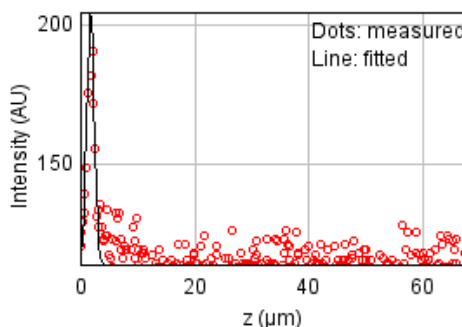
b = -0.004 px

c = 0.041 px

xc = 7.409 px

yc = 4.116 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15735.4398

Standard deviation: 7.15929

R^2 : 0.72754

Parameters:

a = 114.13592

b = 204.61002

c = 1.83048

d = 0.65985

Bead 75

Date : Mon Oct 17 13:27:53 PDT 2022

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

Frame size : 10 pixels

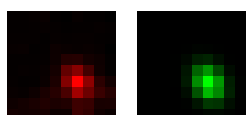
Coordinates : 6.61 μm (x), -15.0 μm (y), 3.87 μm (z)

Corresponding bead : Not found

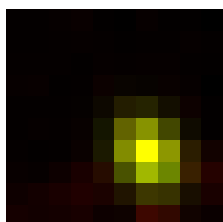
FWHM	Non corrected	Corrected	Theoretical
min	464 nm	480 nm	223 nm
max	595 nm	615 nm	223 nm
z	1.88 μm	1.89 μm	885 nm
Asymmetry	0.78		
Theta	-60.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.939$



Parameters:

$A = 708.331$ (brightness)

$B = 129.666$ (background)

$a = 0.564$ px

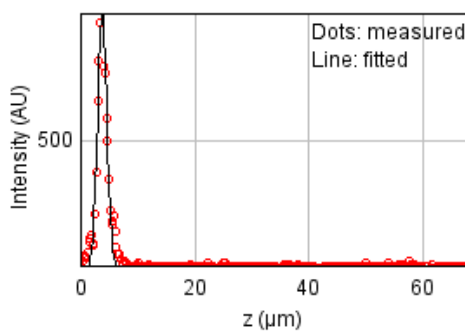
$b = -0.105$ px

$c = 0.438$ px

$x_c = 6.060$ px

$y_c = 6.140$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 112115.103

Standard deviation: 19.11010

$R^2: 0.97057$

Parameters:

$a = 115.89560$

$b = 889.64040$

$c = 3.86794$

$d = 0.79994$

Bead 76 (Rejected)

Date : Mon Oct 17 13:27:53 PDT 2022

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

Frame size : 10 pixels

Coordinates : -134 μm (x), -22.1 μm (y), 1.81 μm (z)

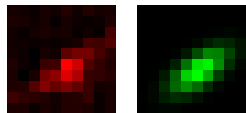
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

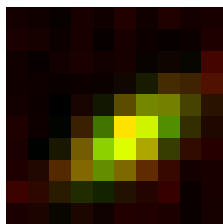
FWHM	Non corrected	Corrected	Theoretical
min	453 nm	469 nm	223 nm
max	992 nm	1.03 μm	223 nm
z	2.31 μm	2.32 μm	885 nm
Asymmetry	0.457		
Theta	34.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.850$



Parameters:

A = 133.616 (brightness)

B = 113.641 (background)

a = 0.303 px

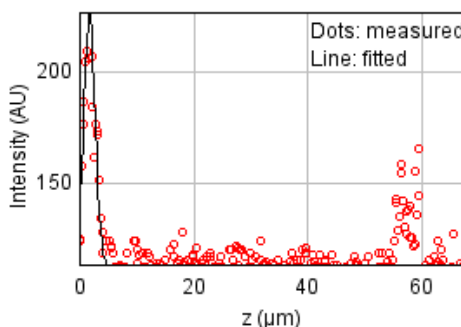
b = 0.241 px

c = 0.486 px

xc = 5.221 px

yc = 5.499 px

Z profile & fitting parameters:



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

Sum of residuals squared: 31983.0434

Standard deviation: 10.20683

R^2 : 0.74654

Parameters:

a = 113.99985

b = 226.06912

c = 1.80964

d = 0.98160

Bead 77 (Rejected)

Date : Mon Oct 17 13:27:53 PDT 2022

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

Frame size : 10 pixels

Coordinates : 121 μm (x), -67.1 μm (y), 1.94 μm (z)

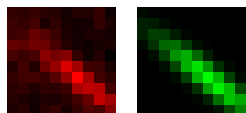
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

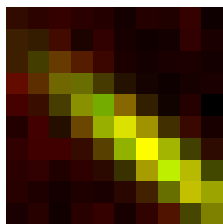
FWHM	Non corrected	Corrected	Theoretical
min	403 nm	417 nm	223 nm
max	2.04 μm	2.11 μm	223 nm
z	1.88 μm	1.89 μm	885 nm
Asymmetry	0.197		
Theta	-38.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.889$



Parameters:

A = 91.552 (brightness)

B = 115.708 (background)

a = 0.341 px

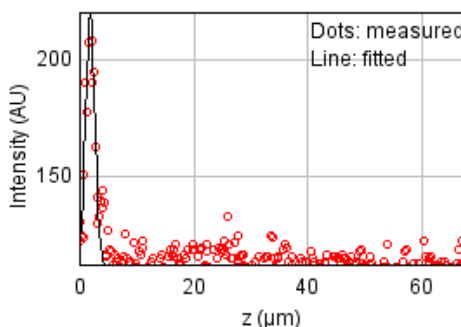
b = -0.386 px

c = 0.516 px

xc = 6.205 px

yc = 6.176 px

Z profile & fitting parameters:



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

Sum of residuals squared: 14069.6902

Standard deviation: 6.76976

R^2 : 0.83815

Parameters:

a = 111.80598

b = 220.42969

c = 1.94351

d = 0.79967

Bead 78 (Rejected)

Date : Mon Oct 17 13:27:53 PDT 2022

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

Frame size : 10 pixels

Coordinates : 105 μm (x), -75.3 μm (y), 1.64 μm (z)

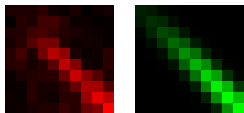
Corresponding bead : Not found

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

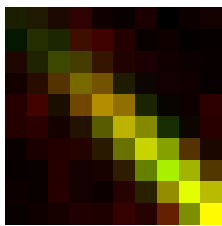
FWHM	Non corrected	Corrected	Theoretical
min	387 nm	400 nm	223 nm
max	2.97 μm	3.07 μm	223 nm
z	1.91 μm	1.92 μm	885 nm
Asymmetry	0.13		
Theta	-44.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 111.456 (brightness)

B = 116.978 (background)

a = 0.450 px

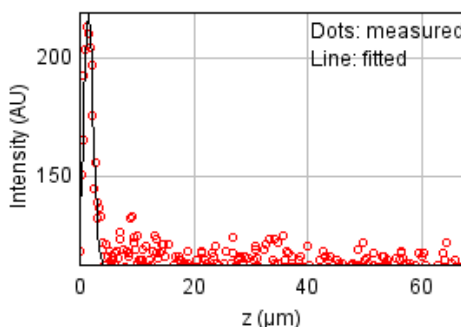
b = -0.440 px

c = 0.460 px

xc = 8.535 px

yc = 8.386 px

Z profile & fitting parameters:



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

Sum of residuals squared: 12018.3222

Standard deviation: 6.25681

R^2 : 0.86031

Parameters:

a = 111.75830

b = 220.40702

c = 1.63823

d = 0.81266

Bead 79 (Rejected)

Date : Mon Oct 17 13:27:54 PDT 2022

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

Frame size : 10 pixels

Coordinates : 7.04 μm (x), -80.3 μm (y), 63.5 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	1.3 μm	1.3 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

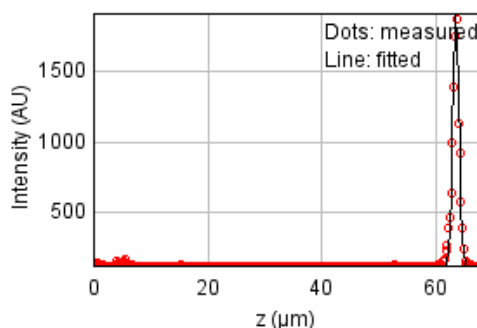
XY profile & fitting parameters :

(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: 205681.655

Standard deviation: 25.88383

R²: 0.98547

Parameters:

a = 118.37515

b = 1916.73373

c = 63.54827

d = 0.55126

Bead 80 (Rejected)

Date : Mon Oct 17 13:27:54 PDT 2022

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

Frame size : 10 pixels

Coordinates : 127 μm (x), -86.3 μm (y), 2.4 μm (z)

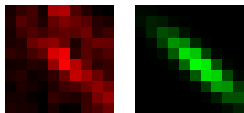
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

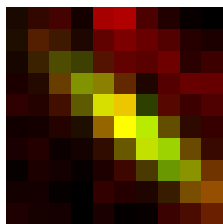
FWHM	Non corrected	Corrected	Theoretical
min	347 nm	359 nm	223 nm
max	1.49 μm	1.54 μm	223 nm
z	2.56 μm	2.57 μm	885 nm
Asymmetry	0.234		
Theta	-40.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.601$



Parameters:

A = 117.074 (brightness)

B = 133.258 (background)

a = 0.506 px

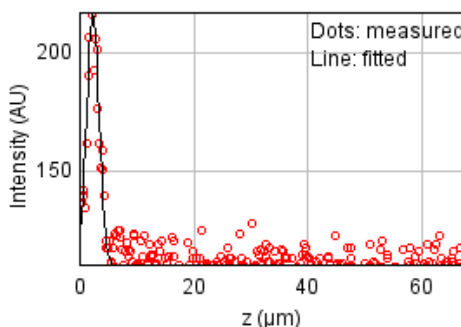
b = -0.520 px

c = 0.668 px

xc = 5.481 px

yc = 5.064 px

Z profile & fitting parameters:



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

Sum of residuals squared: 14301.4244

Standard deviation: 6.82528

R^2 : 0.86859

Parameters:

a = 110.03583

b = 217.04139

c = 2.39828

d = 1.08566

Bead 81 (Rejected)

Date : Mon Oct 17 13:27:54 PDT 2022

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

Frame size : 10 pixels

Coordinates : 84.5 μm (x), -93.3 μm (y), 1.37 μm (z)

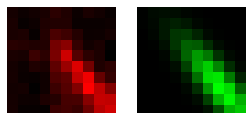
Corresponding bead : Not found

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

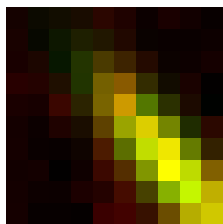
FWHM	Non corrected	Corrected	Theoretical
min	504 nm	521 nm	223 nm
max	1.89 μm	1.96 μm	223 nm
z	1.96 μm	1.97 μm	885 nm
Asymmetry	0.266		
Theta	-51.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.906$



Parameters:

A = 135.572 (brightness)

B = 115.044 (background)

a = 0.335 px

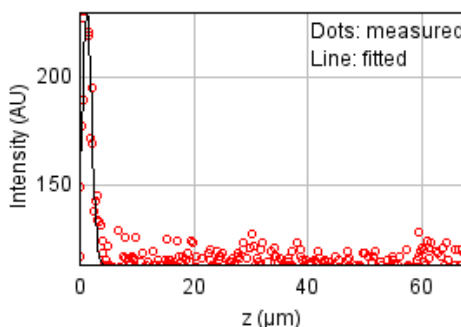
b = -0.240 px

c = 0.231 px

xc = 7.267 px

yc = 6.984 px

Z profile & fitting parameters:



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

Sum of residuals squared: 14869.3015

Standard deviation: 6.95947

R^2 : 0.85763

Parameters:

a = 112.25868

b = 230.51586

c = 1.37457

d = 0.83337

Bead 82

Date : Mon Oct 17 13:27:54 PDT 2022

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

Frame size : 10 pixels

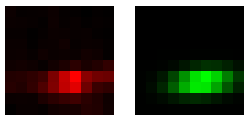
Coordinates : 106 μm (x), 75.1 μm (y), 3.73 μm (z)

Corresponding bead : Not found

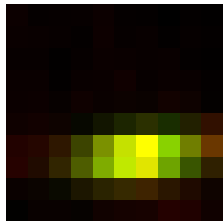
FWHM	Non corrected	Corrected	Theoretical
min	386 nm	399 nm	223 nm
max	938 nm	970 nm	223 nm
z	2.29 μm	2.3 μm	885 nm
Asymmetry	0.411		
Theta	5.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 399.911$ (brightness)

$B = 120.466$ (background)

$a = 0.159$ px

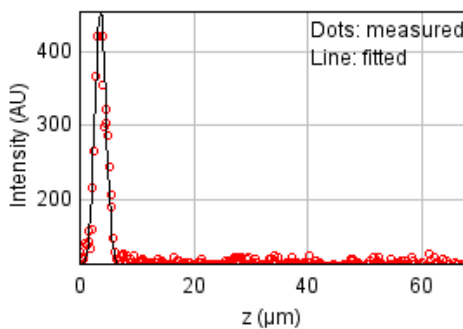
$b = 0.071$ px

$c = 0.895$ px

$x_c = 5.685$ px

$y_c = 6.465$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 44517.2610

Standard deviation: 12.04190

$R^2: 0.95139$

Parameters:

$a = 111.43661$

$b = 453.99884$

$c = 3.73183$

$d = 0.97094$

Bead 83

Date : Mon Oct 17 13:27:54 PDT 2022

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

Frame size : 10 pixels

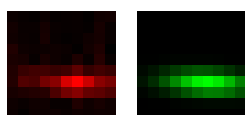
Coordinates : 125 μm (x), 61.1 μm (y), 2.72 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	377 nm	390 nm	223 nm
max	1.36 μm	1.41 μm	223 nm
z	1.58 μm	1.58 μm	885 nm
Asymmetry	0.277		
Theta	-2.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 190.829$ (brightness)

$B = 113.048$ (background)

$a = 0.074$ px

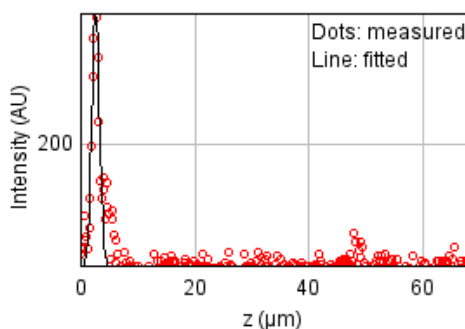
$b = -0.042$ px

$c = 0.940$ px

$x_c = 5.956$ px

$y_c = 6.116$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 30489.7443

Standard deviation: 9.96570

$R^2: 0.85172$

Parameters:

$a = 112.12387$

$b = 295.59730$

$c = 2.72045$

$d = 0.66917$

Bead 84 (Rejected)

Date : Mon Oct 17 13:27:54 PDT 2022

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

Frame size : 10 pixels

Coordinates : 113 μm (x), 58.6 μm (y), 1.55 μm (z)

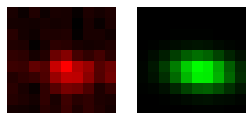
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

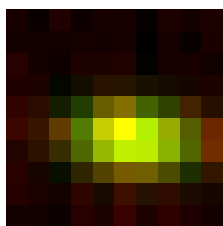
FWHM	Non corrected	Corrected	Theoretical
min	544 nm	562 nm	223 nm
max	994 nm	1.03 μm	223 nm
z	2.8 μm	2.81 μm	885 nm
Asymmetry	0.547		
Theta	-4.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 114.769 (brightness)

B = 117.210 (background)

a = 0.138 px

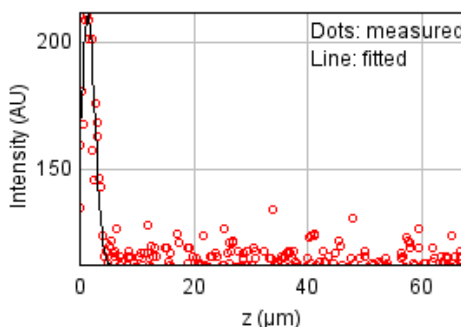
b = -0.026 px

c = 0.452 px

xc = 5.367 px

yc = 5.454 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17089.3092

Standard deviation: 7.46093

R^2 : 0.83754

Parameters:

a = 111.96087

b = 211.71048

c = 1.55368

d = 1.18975

Bead 85 (Rejected)

Date : Mon Oct 17 13:27:55 PDT 2022

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

Frame size : 10 pixels

Coordinates : 107 μm (x), 57.8 μm (y), 3.44 μm (z)

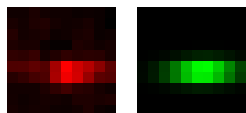
Corresponding bead : Not found

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

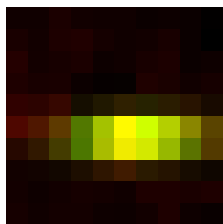
FWHM	Non corrected	Corrected	Theoretical
min	355 nm	367 nm	223 nm
max	1.08 μm	1.12 μm	223 nm
z	4.7 μm	4.72 μm	885 nm
Asymmetry	0.329		
Theta	0.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.930$



Parameters:

A = 368.534 (brightness)

B = 130.005 (background)

a = 0.115 px

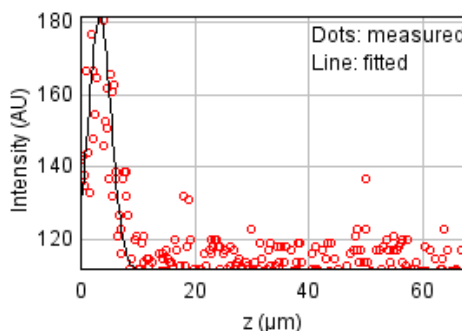
b = 0.014 px

c = 1.062 px

xc = 5.539 px

yc = 5.463 px

Z profile & fitting parameters:



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

Sum of residuals squared: 23089.9879

Standard deviation: 8.67247

R^2 : 0.75338

Parameters:

a = 111.65067

b = 181.54975

c = 3.44183

d = 1.99689

Bead 86

Date : Mon Oct 17 13:27:55 PDT 2022

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

Frame size : 10 pixels

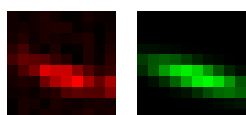
Coordinates : 125 μm (x), 32.0 μm (y), 2.85 μm (z)

Corresponding bead : Not found

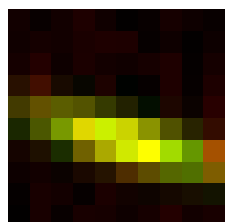
FWHM	Non corrected	Corrected	Theoretical
min	377 nm	389 nm	223 nm
max	1.56 μm	1.61 μm	223 nm
z	2.48 μm	2.49 μm	885 nm
Asymmetry	0.242		
Theta	-15.3°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.914$



Parameters:

$A = 142.856$ (brightness)

$B = 111.079$ (background)

$a = 0.117$ px

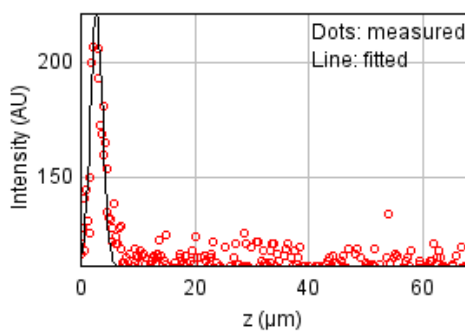
$b = -0.226$ px

$c = 0.885$ px

$x_c = 5.044$ px

$y_c = 5.567$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 18742.1558

Standard deviation: 7.81341

$R^2: 0.83777$

Parameters:

$a = 111.07128$

$b = 220.85744$

$c = 2.85482$

$d = 1.05466$

Bead 87 (Rejected)

Date : Mon Oct 17 13:27:55 PDT 2022

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

Frame size : 10 pixels

Coordinates : -142 μm (x), 18.4 μm (y), 3.31 μm (z)

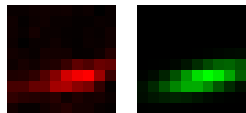
Corresponding bead : Not found

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

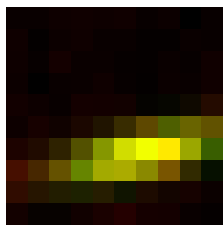
FWHM	Non corrected	Corrected	Theoretical
min	369 nm	382 nm	223 nm
max	1.31 μm	1.35 μm	223 nm
z	1.75 μm	1.76 μm	885 nm
Asymmetry	0.282		
Theta	12.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 259.851 (brightness)

B = 116.075 (background)

a = 0.119 px

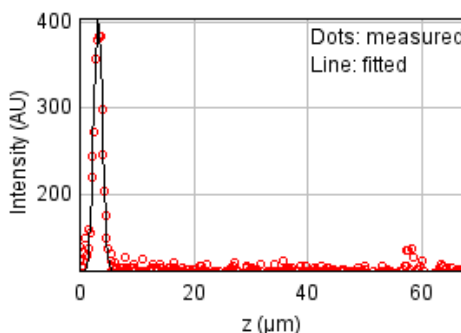
b = 0.187 px

c = 0.944 px

xc = 5.772 px

yc = 6.213 px

Z profile & fitting parameters:



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

Sum of residuals squared: 20525.6566

Standard deviation: 8.17672

R^2 : 0.95979

Parameters:

a = 111.45811

b = 403.31815

c = 3.31049

d = 0.74274

Bead 88 (Rejected)

Date : Mon Oct 17 13:27:55 PDT 2022

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

Frame size : 10 pixels

Coordinates : 121 μm (x), -3.9 μm (y), 3.96 μm (z)

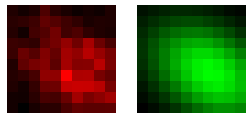
Corresponding bead : Not found

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

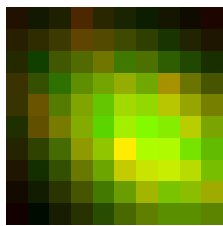
FWHM	Non corrected	Corrected	Theoretical
min	1.38 μm	1.43 μm	223 nm
max	2.1 μm	2.17 μm	223 nm
z	5.01 μm	5.03 μm	885 nm
Asymmetry	0.659		
Theta	-33.4°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.820$



Parameters:

A = 97.784 (brightness)

B = 105.627 (background)

a = 0.043 px

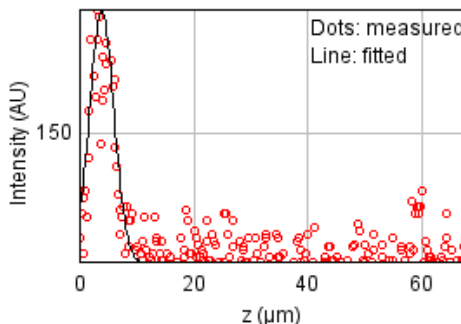
b = -0.018 px

c = 0.058 px

xc = 6.253 px

yc = 5.728 px

Z profile & fitting parameters:



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

Sum of residuals squared: 27158.2026

Standard deviation: 9.40549

R^2 : 0.76221

Parameters:

a = 111.27627

b = 186.73931

c = 3.95506

d = 2.12863

Bead 89

Date : Mon Oct 17 13:27:55 PDT 2022

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

Frame size : 10 pixels

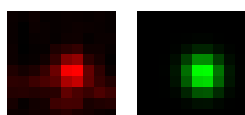
Coordinates : -29.6 μm (x), -39.9 μm (y), 4.31 μm (z)

Corresponding bead : Not found

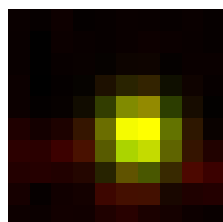
FWHM	Non corrected	Corrected	Theoretical
min	572 nm	591 nm	223 nm
max	594 nm	614 nm	223 nm
z	2.06 μm	2.07 μm	885 nm
Asymmetry	0.963		
Theta	-71.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.905$



Parameters:

$A = 425.554$ (brightness)

$B = 132.935$ (background)

$a = 0.407$ px

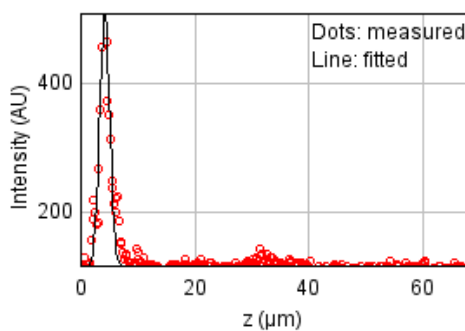
$b = -0.009$ px

$c = 0.383$ px

$x_c = 5.526$ px

$y_c = 5.288$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 77440.2624

Standard deviation: 15.88233

$R^2: 0.93045$

Parameters:

$a = 117.96715$

$b = 510.08277$

$c = 4.30668$

$d = 0.87655$

Bead 90

Date : Mon Oct 17 13:27:55 PDT 2022

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

Frame size : 10 pixels

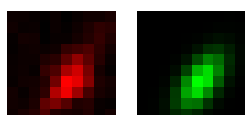
Coordinates : -104 μm (x), -51.9 μm (y), 3.23 μm (z)

Corresponding bead : Not found

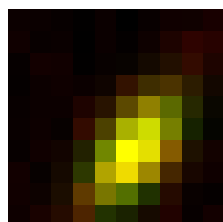
FWHM	Non corrected	Corrected	Theoretical
min	514 nm	531 nm	223 nm
max	988 nm	1.02 μm	223 nm
z	2.0 μm	2.0 μm	885 nm
Asymmetry	0.52		
Theta	54.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 284.346 (brightness)

B = 122.154 (background)

a = 0.386 px

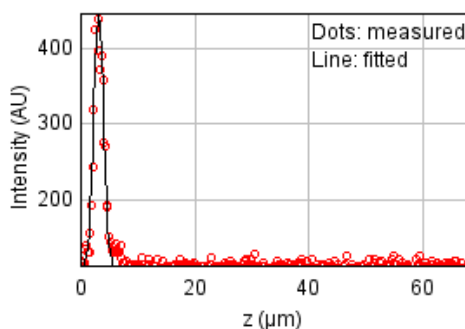
b = 0.175 px

c = 0.261 px

xc = 5.343 px

yc = 5.972 px

Z profile & fitting parameters:



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

Sum of residuals squared: 35523.0404

Standard deviation: 10.75687

R^2 : 0.95349

Parameters:

a = 112.53309

b = 446.59697

c = 3.22848

d = 0.84754

Bead 91 (Rejected)

Date : Mon Oct 17 13:27:55 PDT 2022

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

Frame size : 10 pixels

Coordinates : 83.8 μm (x), -63.4 μm (y), 1.29 μm (z)

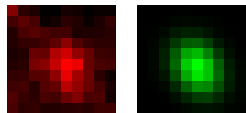
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

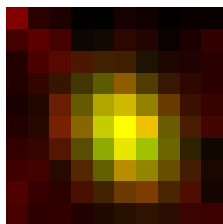
FWHM	Non corrected	Corrected	Theoretical
min	707 nm	731 nm	223 nm
max	898 nm	928 nm	223 nm
z	3.87 μm	3.89 μm	885 nm
Asymmetry	0.788		
Theta	-56.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.823$



Parameters:

A = 110.166 (brightness)

B = 130.991 (background)

a = 0.238 px

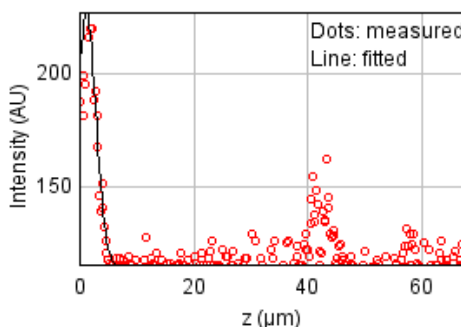
b = -0.047 px

c = 0.197 px

xc = 5.006 px

yc = 5.268 px

Z profile & fitting parameters:



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

Sum of residuals squared: 30208.6237

Standard deviation: 9.91965

R^2 : 0.82001

Parameters:

a = 115.48928

b = 227.27720

c = 1.29342

d = 1.64505

Bead 92 (Rejected)

Date : Mon Oct 17 13:27:55 PDT 2022

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

Frame size : 10 pixels

Coordinates : 127 μm (x), -84.7 μm (y), 2.55 μm (z)

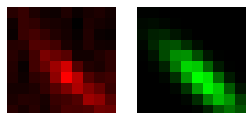
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

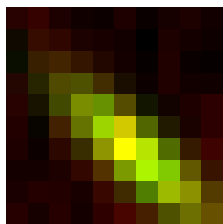
FWHM	Non corrected	Corrected	Theoretical
min	461 nm	477 nm	223 nm
max	1.55 μm	1.6 μm	223 nm
z	1.73 μm	1.74 μm	885 nm
Asymmetry	0.297		
Theta	-42.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 111.925 (brightness)

B = 117.541 (background)

a = 0.320 px

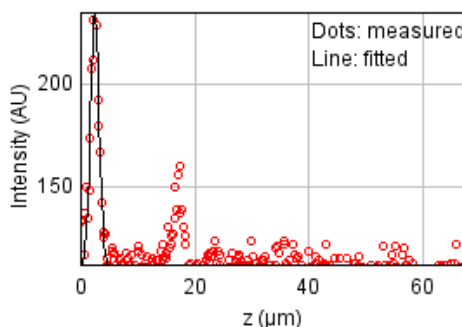
b = -0.287 px

c = 0.366 px

xc = 5.505 px

yc = 6.209 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22298.4697

Standard deviation: 8.52253

R^2 : 0.79447

Parameters:

a = 112.42363

b = 235.53900

c = 2.55016

d = 0.73403

Bead 93 (Rejected)

Date : Mon Oct 17 13:27:56 PDT 2022

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

Frame size : 10 pixels

Coordinates : -113 μm (x), -86.7 μm (y), 4.66 μm (z)

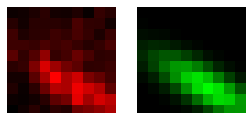
Corresponding bead : Not found

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

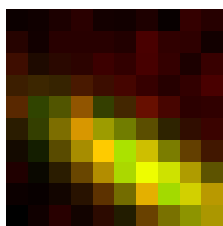
FWHM	Non corrected	Corrected	Theoretical
min	572 nm	591 nm	223 nm
max	1.87 μm	1.93 μm	223 nm
z	2.76 μm	2.78 μm	885 nm
Asymmetry	0.306		
Theta	-30.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 101.084 (brightness)

B = 121.704 (background)

a = 0.132 px

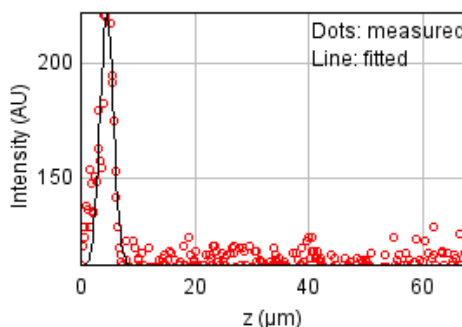
b = -0.162 px

c = 0.317 px

xc = 6.058 px

yc = 6.966 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17424.9842

Standard deviation: 7.53385

R^2 : 0.85857

Parameters:

a = 112.35681

b = 221.51596

c = 4.66294

d = 1.17399

Bead 94

Date : Mon Oct 17 13:27:56 PDT 2022

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

Frame size : 10 pixels

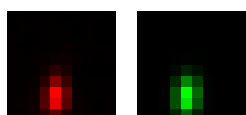
Coordinates : -55.2 μm (x), -92.3 μm (y), 48.2 μm (z)

Corresponding bead : Not found

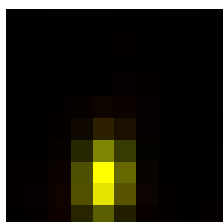
FWHM	Non corrected	Corrected	Theoretical
min	358 nm	371 nm	223 nm
max	593 nm	613 nm	223 nm
z	1.08 μm	1.08 μm	885 nm
Asymmetry	0.604		
Theta	85.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.995$



Parameters:

A = 1752.018 (brightness)

B = 122.312 (background)

a = 1.041 px

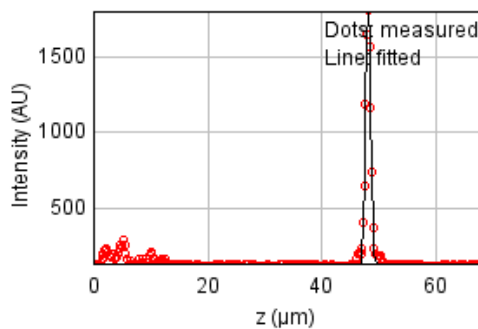
b = 0.049 px

c = 0.385 px

$x_c = 4.044$ px

$y_c = 7.347$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 304474.753

Standard deviation: 31.49245

R^2 : 0.97056

Parameters:

a = 127.40696

b = 1797.27145

c = 48.17877

d = 0.45778

Bead 95 (Rejected)

Date : Mon Oct 17 13:27:56 PDT 2022

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

Frame size : 10 pixels

Coordinates : 57.0 μm (x), -94.2 μm (y), 62.5 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	1.5 μm	1.5 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

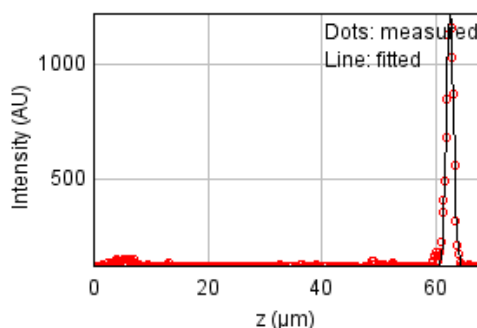
XY profile & fitting parameters :

(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: 92606.9048

Standard deviation: 17.36811

R²: 0.98481

Parameters:

a = 118.09465

b = 1218.63971

c = 62.52072

d = 0.63654

Bead 96

Date : Mon Oct 17 13:27:56 PDT 2022

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

Frame size : 10 pixels

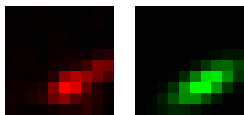
Coordinates : 95.7 um (x), 93.1 um (y), 4.03 um (z)

Corresponding bead : Not found

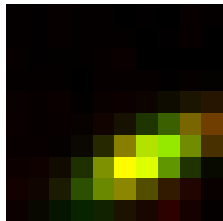
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	420 nm	223 nm
max	1.04 um	1.08 um	223 nm
z	2.22 um	2.22 um	885 nm
Asymmetry	0.39		
Theta	27.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.917$



Parameters:

A = 476.989 (brightness)

B = 119.957 (background)

a = 0.272 px

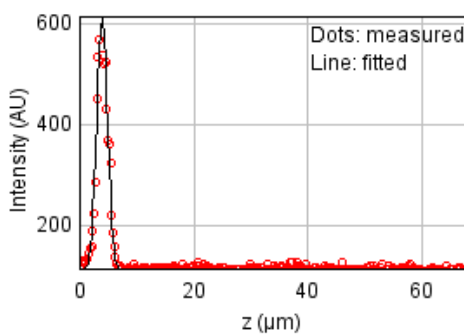
b = 0.283 px

c = 0.663 px

xc = 5.895 px

yc = 6.641 px

Z profile & fitting parameters:



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

Sum of residuals squared: 45035.6778

Standard deviation: 12.11181

R^2 : 0.97580

Parameters:

a = 112.12257

b = 614.05589

c = 4.02884

d = 0.94096

Bead 97

Date : Mon Oct 17 13:27:56 PDT 2022

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

Frame size : 10 pixels

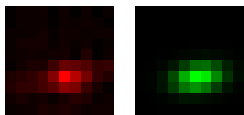
Coordinates : -134 μm (x), 28.4 μm (y), 3.7 μm (z)

Corresponding bead : Not found

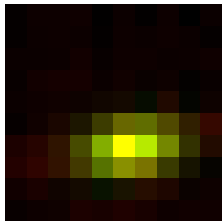
FWHM	Non corrected	Corrected	Theoretical
min	423 nm	437 nm	223 nm
max	776 nm	802 nm	223 nm
z	2.19 μm	2.19 μm	885 nm
Asymmetry	0.545		
Theta	8.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 282.304$ (brightness)

$B = 119.361$ (background)

$a = 0.233$ px

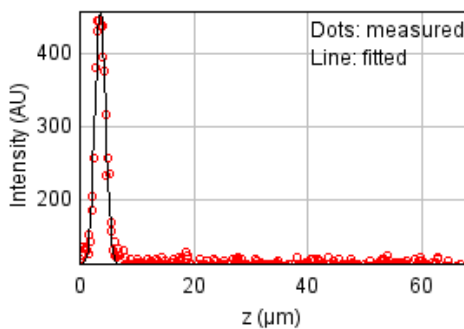
$b = 0.073$ px

$c = 0.741$ px

$x_c = 5.292$ px

$y_c = 6.086$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 27953.6204

Standard deviation: 9.54223

$R^2: 0.96834$

Parameters:

$a = 110.83211$

$b = 457.49119$

$c = 3.70258$

$d = 0.92810$

Bead 98 (Rejected)

Date : Mon Oct 17 13:27:56 PDT 2022

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

Frame size : 10 pixels

Coordinates : -42.5 μm (x), 25.7 μm (y), 2.54 μm (z)

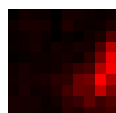
Corresponding bead : Not found

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	3.69 μm	3.7 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

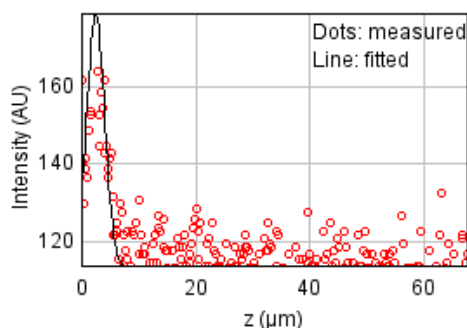
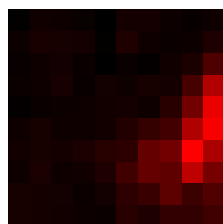
XY profile & fitting parameters :

(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: 19934.1228

Standard deviation: 8.05804

R²: 0.71111

Parameters:

a = 113.76921

b = 178.89968

c = 2.53544

d = 1.56566

Bead 99

Date : Mon Oct 17 13:27:56 PDT 2022

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

Frame size : 10 pixels

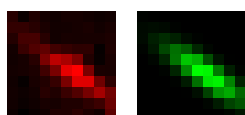
Coordinates : 97.4 μm (x), -26.5 μm (y), 3.08 μm (z)

Corresponding bead : Not found

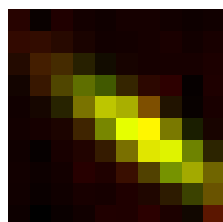
FWHM	Non corrected	Corrected	Theoretical
min	394 nm	407 nm	223 nm
max	1.44 μm	1.49 μm	223 nm
z	2.05 μm	2.05 μm	885 nm
Asymmetry	0.273		
Theta	-35.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 192.637$ (brightness)

$B = 116.880$ (background)

$a = 0.334$ px

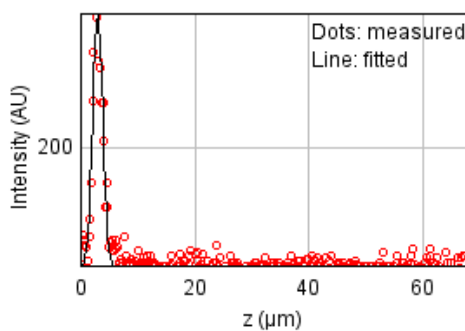
$b = -0.379$ px

$c = 0.596$ px

$x_c = 5.827$ px

$y_c = 5.335$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 17629.1574

Standard deviation: 7.57786

$R^2: 0.92918$

Parameters:

$a = 112.18254$

$b = 298.23428$

$c = 3.07574$

$d = 0.86894$

Bead 100

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

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

Frame size : 10 pixels

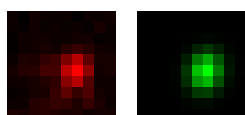
Coordinates : -74.6 μm (x), -45.6 μm (y), 3.41 μm (z)

Corresponding bead : Not found

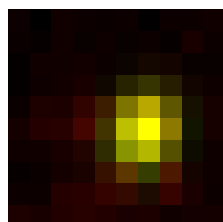
FWHM	Non corrected	Corrected	Theoretical
min	507 nm	524 nm	223 nm
max	606 nm	626 nm	223 nm
z	1.73 μm	1.74 μm	885 nm
Asymmetry	0.837		
Theta	75.4°		

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 = 265.134 (brightness)

B = 125.533 (background)

a = 0.512 px

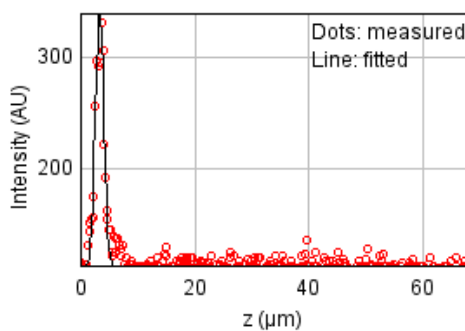
b = 0.038 px

c = 0.375 px

xc = 5.769 px

yc = 5.081 px

Z profile & fitting parameters:



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

Sum of residuals squared: 24684.3460

Standard deviation: 8.96689

R^2 : 0.92370

Parameters:

a = 113.08053

b = 342.22105

c = 3.40625

d = 0.73472