

Bead 2801 (Rejected)

Date : Mon Oct 17 13:30:05 PDT 2022

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

Frame size : 10 pixels

Coordinates : 89.9 μm (x), 37.6 μm (y), 61.8 μm (z)

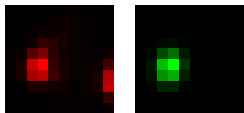
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

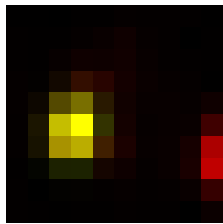
FWHM	Non corrected	Corrected	Theoretical
min	373 nm	386 nm	223 nm
max	472 nm	488 nm	223 nm
z	1.2 μm	1.2 μm	885 nm
Asymmetry	0.79		
Theta	80.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.689$



Parameters:

A = 1481.937 (brightness)

B = 169.761 (background)

a = 0.953 px

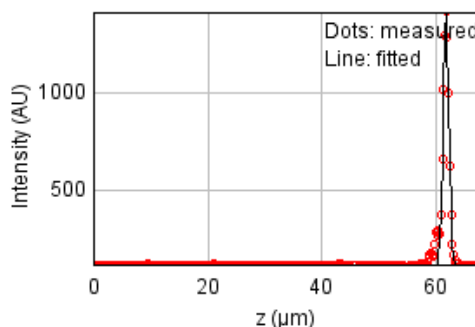
b = 0.062 px

c = 0.612 px

xc = 2.641 px

yc = 5.217 px

Z profile & fitting parameters:



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

Sum of residuals squared: 114199.300

Standard deviation: 19.28690

R^2 : 0.98303

Parameters:

a = 116.41821

b = 1404.78283

c = 61.80873

d = 0.50821

Bead 2802

Date : Mon Oct 17 13:30:05 PDT 2022

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

Frame size : 10 pixels

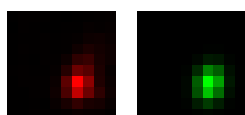
Coordinates : 100 μm (x), 36.5 μm (y), 61.6 μm (z)

Corresponding bead : Not found

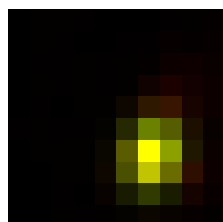
FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	540 nm	559 nm	223 nm
z	1.29 μm	1.29 μm	885 nm
Asymmetry	0.778		
Theta	76.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1458.765 (brightness)

B = 131.993 (background)

a = 0.744 px

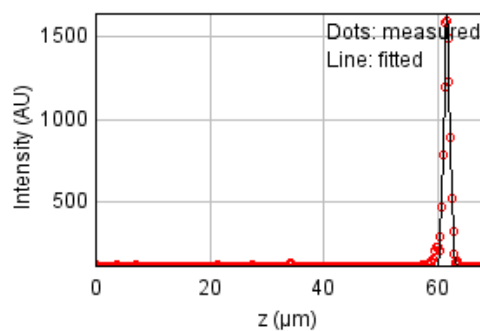
b = 0.067 px

c = 0.475 px

xc = 6.173 px

yc = 6.196 px

Z profile & fitting parameters:



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

Sum of residuals squared: 63556.1324

Standard deviation: 14.38830

R^2 : 0.99364

Parameters:

a = 113.79231

b = 1638.31914

c = 61.60997

d = 0.54571

Bead 2803

Date : Mon Oct 17 13:30:05 PDT 2022

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

Frame size : 10 pixels

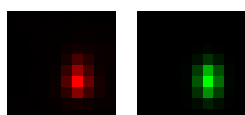
Coordinates : -88.2 μm (x), 32.8 μm (y), 61.2 μm (z)

Corresponding bead : Not found

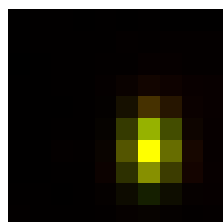
FWHM	Non corrected	Corrected	Theoretical
min	370 nm	382 nm	223 nm
max	535 nm	553 nm	223 nm
z	1.07 μm	1.08 μm	885 nm
Asymmetry	0.692		
Theta	89.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.980$



Parameters:

A = 1748.714 (brightness)

B = 132.352 (background)

a = 0.980 px

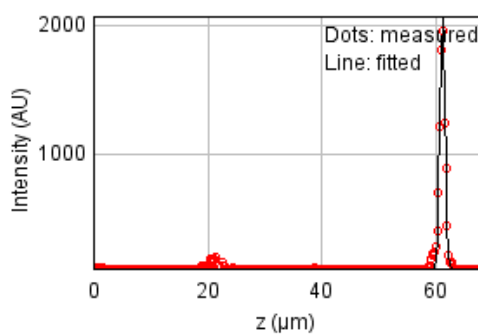
b = 0.008 px

c = 0.469 px

xc = 6.066 px

yc = 5.884 px

Z profile & fitting parameters:



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

Sum of residuals squared: 244303.132

Standard deviation: 28.20950

R^2 : 0.98238

Parameters:

a = 121.14765

b = 2069.70767

c = 61.19044

d = 0.45608

Bead 2804

Date : Mon Oct 17 13:30:06 PDT 2022

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

Frame size : 10 pixels

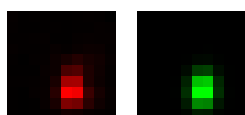
Coordinates : -13.3 μm (x), 33.7 μm (y), 61.4 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	395 nm	408 nm	223 nm
max	544 nm	563 nm	223 nm
z	1.42 μm	1.43 μm	885 nm
Asymmetry	0.726		
Theta	86.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.976$



Parameters:

A = 1851.478 (brightness)

B = 132.304 (background)

a = 0.859 px

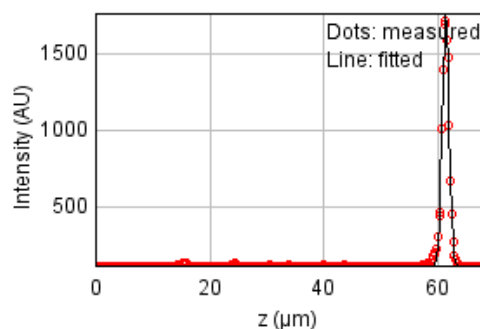
b = 0.023 px

c = 0.454 px

$x_c = 5.504$ px

$y_c = 6.783$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 103390.590

Standard deviation: 18.35149

R^2 : 0.99199

Parameters:

a = 116.18864

b = 1765.08548

c = 61.39793

d = 0.60344

Bead 2805

Date : Mon Oct 17 13:30:06 PDT 2022

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

Frame size : 10 pixels

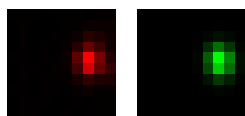
Coordinates : 31.5 μm (x), 20.0 μm (y), 49.2 μm (z)

Corresponding bead : Not found

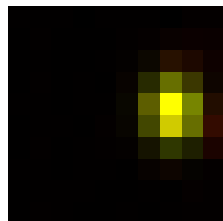
FWHM	Non corrected	Corrected	Theoretical
min	402 nm	416 nm	223 nm
max	502 nm	519 nm	223 nm
z	1.29 μm	1.29 μm	885 nm
Asymmetry	0.801		
Theta	-86.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1997.183 (brightness)

B = 130.384 (background)

a = 0.829 px

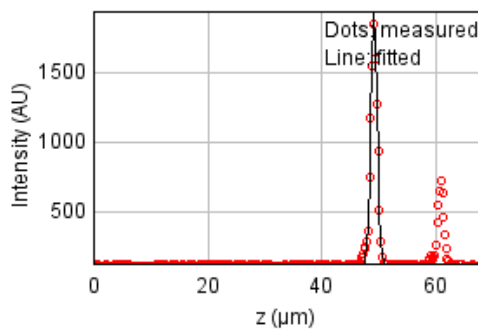
b = -0.020 px

c = 0.534 px

$x_c = 7.112$ px

$y_c = 4.286$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 1549686.26

Standard deviation: 71.04814

R^2 : 0.90203

Parameters:

a = 128.31787

b = 1953.14890

c = 49.20778

d = 0.54748

Bead 2806

Date : Mon Oct 17 13:30:06 PDT 2022

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

Frame size : 10 pixels

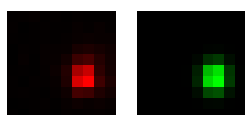
Coordinates : 116 um (x), 12.0 um (y), 61.5 um (z)

Corresponding bead : Not found

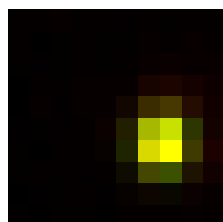
FWHM	Non corrected	Corrected	Theoretical
min	404 nm	418 nm	223 nm
max	460 nm	476 nm	223 nm
z	1.12 um	1.13 um	885 nm
Asymmetry	0.878		
Theta	85.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.977$



Parameters:

A = 1346.792 (brightness)

B = 122.645 (background)

a = 0.821 px

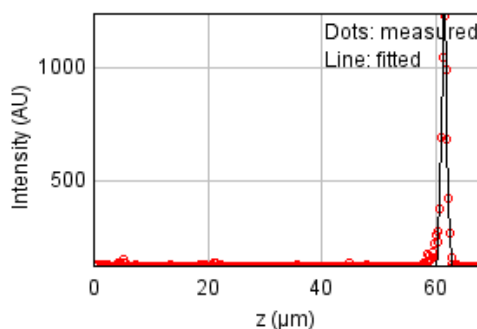
b = 0.015 px

c = 0.635 px

xc = 6.608 px

yc = 5.609 px

Z profile & fitting parameters:



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

Sum of residuals squared: 70482.3953

Standard deviation: 15.15204

R^2 : 0.98612

Parameters:

a = 114.58657

b = 1270.79405

c = 61.48329

d = 0.47666

Bead 2807

Date : Mon Oct 17 13:30:06 PDT 2022

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

Frame size : 10 pixels

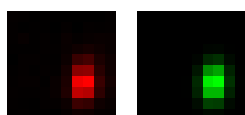
Coordinates : -129 μm (x), 5.25 μm (y), 61.2 μm (z)

Corresponding bead : Not found

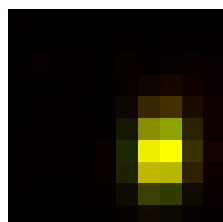
FWHM	Non corrected	Corrected	Theoretical
min	395 nm	408 nm	223 nm
max	586 nm	606 nm	223 nm
z	1.18 μm	1.19 μm	885 nm
Asymmetry	0.673		
Theta	85.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1332.914 (brightness)

B = 123.532 (background)

a = 0.859 px

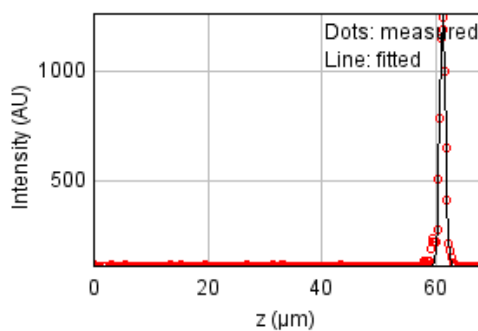
b = 0.036 px

c = 0.393 px

$x_c = 6.538$ px

$y_c = 6.119$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 66131.2744

Standard deviation: 14.67690

R^2 : 0.98750

Parameters:

a = 113.44235

b = 1266.16777

c = 61.21792

d = 0.50128

Bead 2808

Date : Mon Oct 17 13:30:06 PDT 2022

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

Frame size : 10 pixels

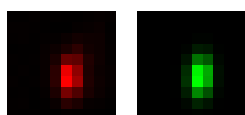
Coordinates : -78.0 μm (x), -9.36 μm (y), 60.7 μm (z)

Corresponding bead : Not found

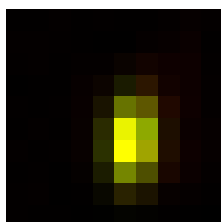
FWHM	Non corrected	Corrected	Theoretical
min	358 nm	370 nm	223 nm
max	621 nm	642 nm	223 nm
z	1.15 μm	1.16 μm	885 nm
Asymmetry	0.576		
Theta	86.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1246.486 (brightness)

B = 127.806 (background)

a = 1.045 px

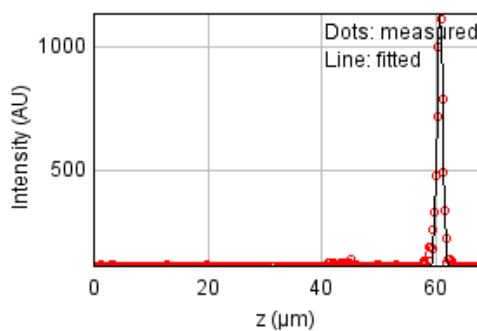
b = 0.042 px

c = 0.350 px

$x_c = 5.306$ px

$y_c = 5.536$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 52088.1774

Standard deviation: 13.02568

R^2 : 0.98722

Parameters:

a = 114.73708

b = 1138.15581

c = 60.74142

d = 0.48925

Bead 2809

Date : Mon Oct 17 13:30:06 PDT 2022

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

Frame size : 10 pixels

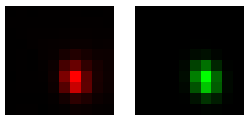
Coordinates : 146 μm (x), -36.6 μm (y), 61.6 μm (z)

Corresponding bead : Not found

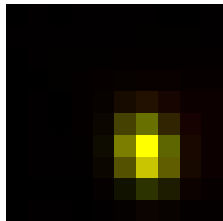
FWHM	Non corrected	Corrected	Theoretical
min	399 nm	413 nm	223 nm
max	508 nm	525 nm	223 nm
z	1.21 μm	1.22 μm	885 nm
Asymmetry	0.786		
Theta	-73.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.985$



Parameters:

A = 2793.658 (brightness)

B = 141.722 (background)

a = 0.817 px

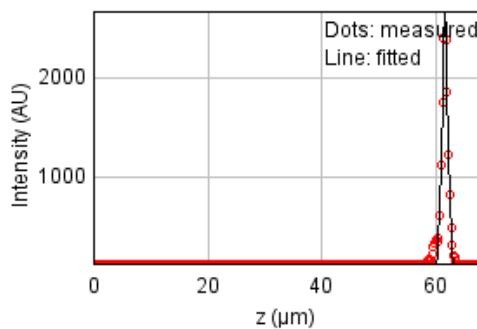
b = -0.086 px

c = 0.545 px

$x_c = 5.961$ px

$y_c = 6.253$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 298716.382

Standard deviation: 31.19323

R^2 : 0.98879

Parameters:

a = 116.43243

b = 2669.26974

c = 61.62233

d = 0.51573

Bead 2810

Date : Mon Oct 17 13:30:06 PDT 2022

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

Frame size : 10 pixels

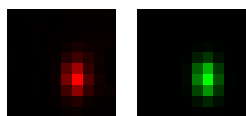
Coordinates : -39.4 μm (x), -44.2 μm (y), 61.2 μm (z)

Corresponding bead : Not found

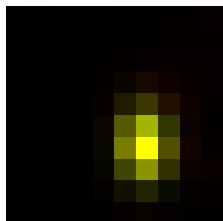
FWHM	Non corrected	Corrected	Theoretical
min	376 nm	388 nm	223 nm
max	550 nm	568 nm	223 nm
z	1.11 μm	1.12 μm	885 nm
Asymmetry	0.683		
Theta	-87.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.988$



Parameters:

A = 1820.633 (brightness)

B = 129.066 (background)

a = 0.950 px

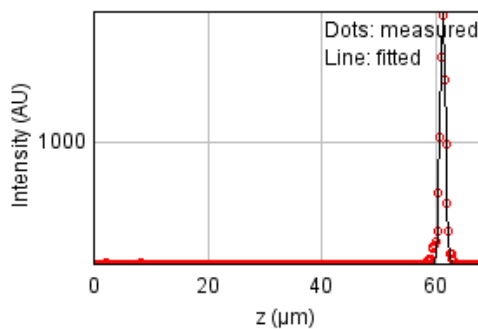
b = -0.018 px

c = 0.445 px

$x_c = 5.888$ px

$y_c = 5.882$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 95506.3847

Standard deviation: 17.63791

R^2 : 0.99254

Parameters:

a = 115.02202

b = 1966.13067

c = 61.24568

d = 0.47192

Bead 2811

Date : Mon Oct 17 13:30:06 PDT 2022

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

Frame size : 10 pixels

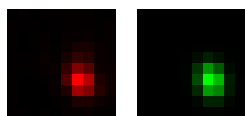
Coordinates : 85.6 μm (x), -50.0 μm (y), 61.4 μm (z)

Corresponding bead : Not found

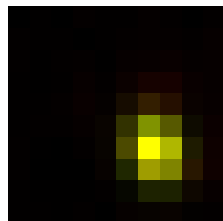
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	421 nm	223 nm
max	518 nm	535 nm	223 nm
z	1.27 μm	1.27 μm	885 nm
Asymmetry	0.786		
Theta	-74.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1425.546 (brightness)

B = 122.269 (background)

a = 0.787 px

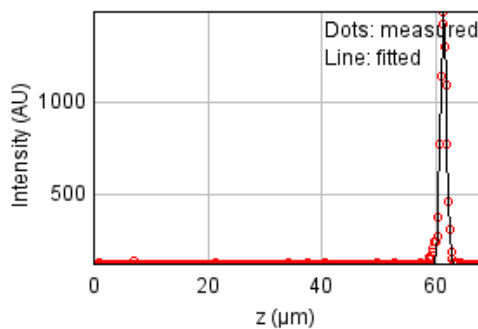
b = -0.080 px

c = 0.523 px

$x_c = 6.295$ px

$y_c = 6.077$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 65170.0393

Standard deviation: 14.56984

R^2 : 0.99199

Parameters:

a = 114.16909

b = 1498.62976

c = 61.37266

d = 0.53777

Bead 2812

Date : Mon Oct 17 13:30:06 PDT 2022

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

Frame size : 10 pixels

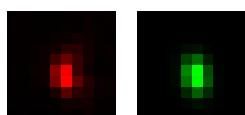
Coordinates : 83.8 μm (x), -62.1 μm (y), 60.9 μm (z)

Corresponding bead : Not found

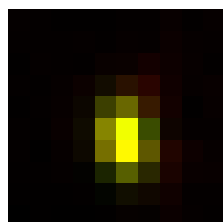
FWHM	Non corrected	Corrected	Theoretical
min	377 nm	390 nm	223 nm
max	543 nm	562 nm	223 nm
z	1.24 μm	1.25 μm	885 nm
Asymmetry	0.694		
Theta	-80.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1440.827$ (brightness)

$B = 132.481$ (background)

$a = 0.931$ px

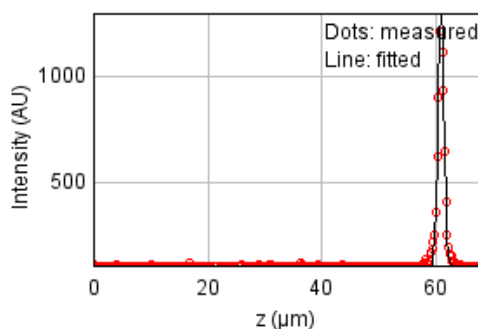
$b = -0.077$ px

$c = 0.467$ px

$x_c = 4.888$ px

$y_c = 5.451$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 50031.3694

Standard deviation: 12.76592

$R^2: 0.99133$

Parameters:

$a = 114.30616$

$b = 1290.80301$

$c = 60.94240$

$d = 0.52785$

Bead 2813

Date : Mon Oct 17 13:30:06 PDT 2022

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

Frame size : 10 pixels

Coordinates : 6.89 μm (x), -82.6 μm (y), 61.2 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	373 nm	386 nm	223 nm
max	539 nm	557 nm	223 nm
z	1.51 μm	1.52 μm	885 nm
Asymmetry	0.692		
Theta	81.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1632.113 (brightness)

B = 137.587 (background)

a = 0.952 px

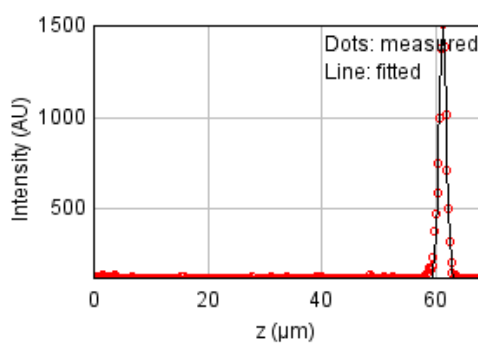
b = 0.076 px

c = 0.473 px

xc = 5.314 px

yc = 1.374 px

Z profile & fitting parameters:



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

Sum of residuals squared: 93152.1695

Standard deviation: 17.41916

R^2 : 0.99054

Parameters:

a = 117.04279

b = 1514.02442

c = 61.24391

d = 0.64226

Bead 2814

Date : Mon Oct 17 13:30:06 PDT 2022

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

Frame size : 10 pixels

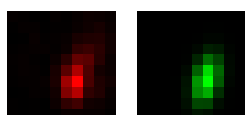
Coordinates : 64.9 μm (x), 82.8 μm (y), 61.3 μm (z)

Corresponding bead : Not found

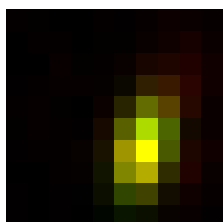
FWHM	Non corrected	Corrected	Theoretical
min	401 nm	415 nm	223 nm
max	749 nm	775 nm	223 nm
z	1.39 μm	1.39 μm	885 nm
Asymmetry	0.535		
Theta	75.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 864.309 (brightness)

B = 129.353 (background)

a = 0.798 px

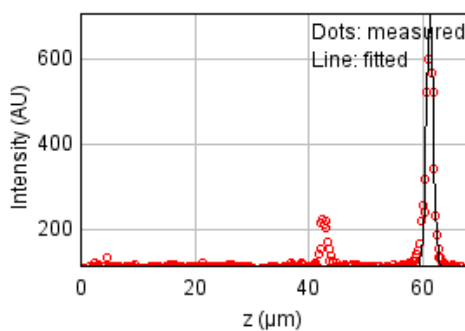
b = 0.142 px

c = 0.275 px

$x_c = 5.863$ px

$y_c = 5.857$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 105851.019

Standard deviation: 18.56856

R^2 : 0.93942

Parameters:

a = 116.50440

b = 713.71522

c = 61.25654

d = 0.58941

Bead 2815

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

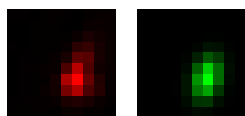
Coordinates : 63.3 μm (x), 75.3 μm (y), 61.6 μm (z)

Corresponding bead : Not found

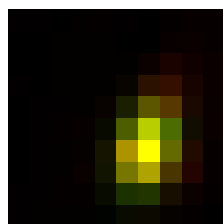
FWHM	Non corrected	Corrected	Theoretical
min	423 nm	437 nm	223 nm
max	668 nm	690 nm	223 nm
z	1.33 μm	1.34 μm	885 nm
Asymmetry	0.633		
Theta	74.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1156.727$ (brightness)

$B = 127.838$ (background)

$a = 0.719$ px

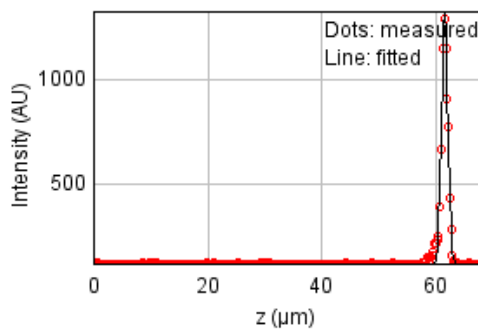
$b = 0.115$ px

$c = 0.333$ px

$x_c = 5.907$ px

$y_c = 5.854$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 234976.357

Standard deviation: 27.66578

$R^2: 0.96532$

Parameters:

$a = 114.42645$

$b = 1331.03099$

$c = 61.57814$

$d = 0.56527$

Bead 2816

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

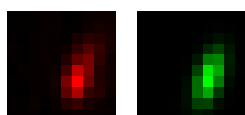
Coordinates : 92.9 μm (x), 72.0 μm (y), 61.0 μm (z)

Corresponding bead : Not found

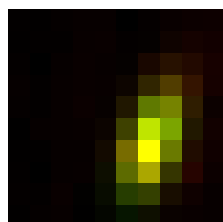
FWHM	Non corrected	Corrected	Theoretical
min	393 nm	407 nm	223 nm
max	824 nm	852 nm	223 nm
z	1.39 μm	1.39 μm	885 nm
Asymmetry	0.477		
Theta	71.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 747.283$ (brightness)

$B = 124.377$ (background)

$a = 0.797$ px

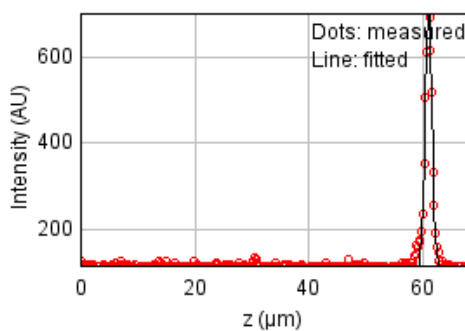
$b = 0.205$ px

$c = 0.268$ px

$x_c = 6.142$ px

$y_c = 5.594$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 25487.2993

Standard deviation: 9.11156

$R^2: 0.98477$

Parameters:

$a = 113.33858$

$b = 711.88873$

$c = 61.04846$

$d = 0.58928$

Bead 2817

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

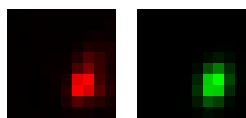
Coordinates : 75.6 μm (x), 66.6 μm (y), 61.6 μm (z)

Corresponding bead : Not found

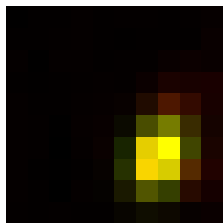
FWHM	Non corrected	Corrected	Theoretical
min	406 nm	420 nm	223 nm
max	561 nm	580 nm	223 nm
z	1.11 μm	1.12 μm	885 nm
Asymmetry	0.724		
Theta	69.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1323.257$ (brightness)

$B = 124.563$ (background)

$a = 0.763$ px

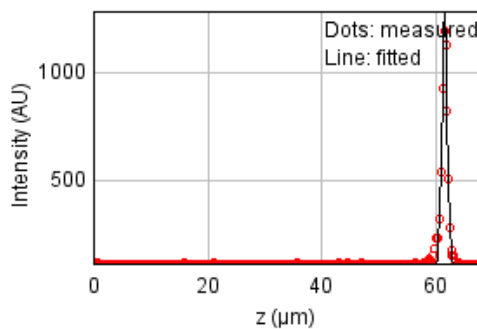
$b = 0.129$ px

$c = 0.475$ px

$x_c = 6.577$ px

$y_c = 6.379$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 65175.6285

Standard deviation: 14.57047

$R^2: 0.98732$

Parameters:

$a = 113.73769$

$b = 1281.64404$

$c = 61.56264$

$d = 0.47335$

Bead 2818

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

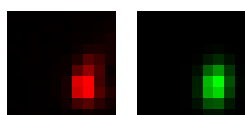
Coordinates : 67.9 μm (x), 65.1 μm (y), 61.7 μm (z)

Corresponding bead : Not found

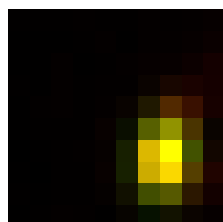
FWHM	Non corrected	Corrected	Theoretical
min	426 nm	440 nm	223 nm
max	614 nm	635 nm	223 nm
z	1.21 μm	1.21 μm	885 nm
Asymmetry	0.693		
Theta	82.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1181.061$ (brightness)

$B = 121.469$ (background)

$a = 0.734$ px

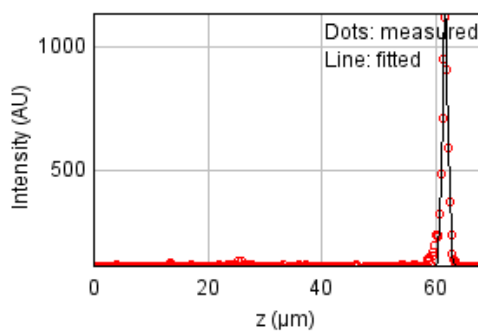
$b = 0.049$ px

$c = 0.362$ px

$x_c = 6.702$ px

$y_c = 6.309$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 68392.9803

Standard deviation: 14.92576

$R^2: 0.98416$

Parameters:

$a = 114.74713$

$b = 1143.12516$

$c = 61.66587$

$d = 0.51240$

Bead 2819

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

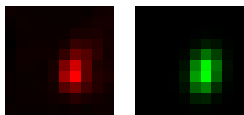
Coordinates : 102 μm (x), 64.1 μm (y), 61.2 μm (z)

Corresponding bead : Not found

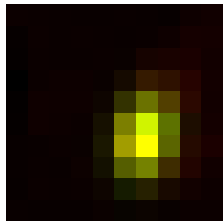
FWHM	Non corrected	Corrected	Theoretical
min	430 nm	445 nm	223 nm
max	626 nm	647 nm	223 nm
z	1.25 μm	1.26 μm	885 nm
Asymmetry	0.687		
Theta	77.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 860.922 (brightness)

B = 121.904 (background)

a = 0.708 px

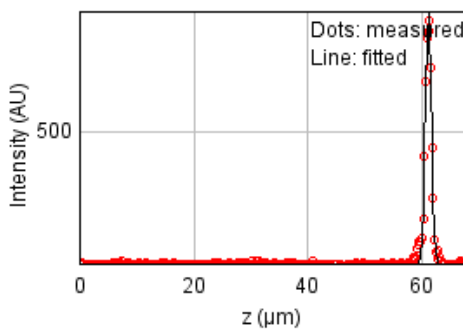
b = 0.081 px

c = 0.361 px

xc = 5.895 px

yc = 5.585 px

Z profile & fitting parameters:



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

Sum of residuals squared: 26698.1438

Standard deviation: 9.32548

R^2 : 0.98822

Parameters:

a = 113.52504

b = 847.35044

c = 61.18212

d = 0.53119

Bead 2820

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

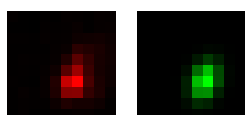
Coordinates : 111 μm (x), 59.9 μm (y), 61.1 μm (z)

Corresponding bead : Not found

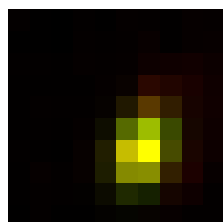
FWHM	Non corrected	Corrected	Theoretical
min	405 nm	419 nm	223 nm
max	583 nm	603 nm	223 nm
z	1.63 μm	1.64 μm	885 nm
Asymmetry	0.695		
Theta	69.7°		

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 = 923.331 (brightness)

B = 122.762 (background)

a = 0.767 px

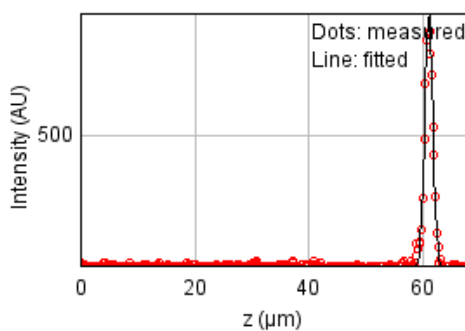
b = 0.138 px

c = 0.446 px

$x_c = 5.711$ px

$y_c = 5.927$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 40677.0467

Standard deviation: 11.51080

R^2 : 0.98704

Parameters:

a = 112.72579

b = 870.84463

c = 61.08239

d = 0.69409

Bead 2821 (Rejected)

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

Coordinates : 90.6 μm (x), 56.8 μm (y), 27.7 μm (z)

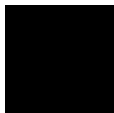
Corresponding bead : Not found

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	1.87 μm	1.88 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

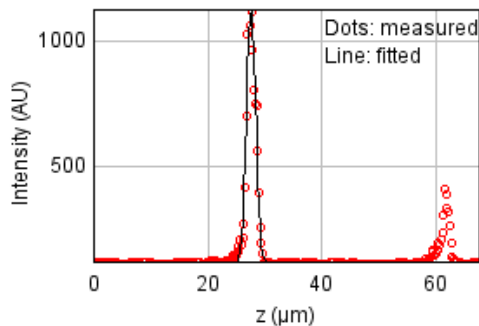
XY profile & fitting parameters :

(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: 547246.992

Standard deviation: 42.22042

R²: 0.91871

Parameters:

a = 122.60116

b = 1125.61907

c = 27.66704

d = 0.79618

Bead 2822

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

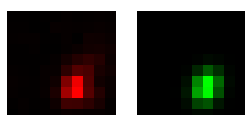
Coordinates : 99.0 μm (x), 47.4 μm (y), 61.5 μm (z)

Corresponding bead : Not found

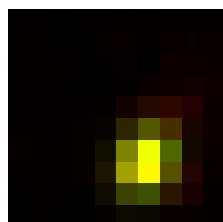
FWHM	Non corrected	Corrected	Theoretical
min	403 nm	417 nm	223 nm
max	518 nm	536 nm	223 nm
z	1.23 μm	1.23 μm	885 nm
Asymmetry	0.778		
Theta	68.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1027.759$ (brightness)

$B = 127.566$ (background)

$a = 0.781$ px

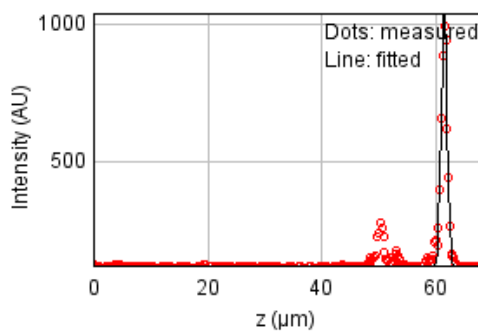
$b = 0.112$ px

$c = 0.544$ px

$x_c = 5.850$ px

$y_c = 6.506$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 178772.723

Standard deviation: 24.13134

$R^2: 0.95264$

Parameters:

$a = 118.18199$

$b = 1057.35545$

$c = 61.49211$

$d = 0.52024$

Bead 2823

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

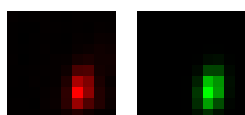
Coordinates : -20.4 μm (x), 44.7 μm (y), 61.7 μm (z)

Corresponding bead : Not found

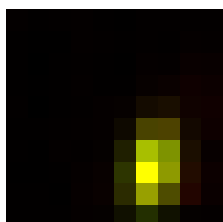
FWHM	Non corrected	Corrected	Theoretical
min	356 nm	368 nm	223 nm
max	612 nm	633 nm	223 nm
z	1.26 μm	1.27 μm	885 nm
Asymmetry	0.581		
Theta	79.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.979$



Parameters:

A = 1669.910 (brightness)

B = 130.840 (background)

a = 1.039 px

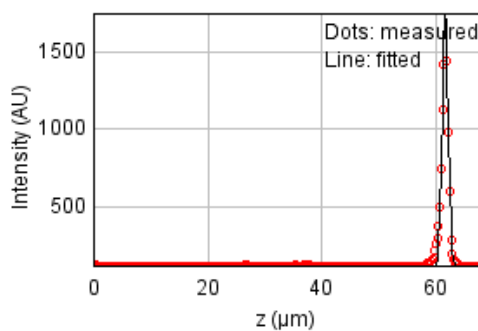
b = 0.122 px

c = 0.380 px

$x_c = 6.281$ px

$y_c = 6.793$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 113205.716

Standard deviation: 19.20282

R^2 : 0.99012

Parameters:

a = 116.08379

b = 1759.64678

c = 61.66851

d = 0.53610

Bead 2824

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

Coordinates : 84.0 μm (x), 42.2 μm (y), 61.9 μm (z)

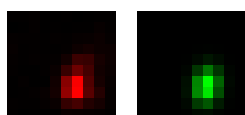
Corresponding bead : Not found



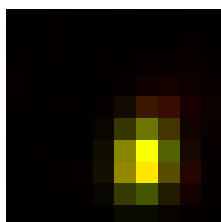
FWHM	Non corrected	Corrected	Theoretical
min	406 nm	420 nm	223 nm
max	557 nm	576 nm	223 nm
z	1.24 μm	1.25 μm	885 nm
Asymmetry	0.728		
Theta	79.9°		

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:

$A = 1458.894$ (brightness)

$B = 133.414$ (background)

$a = 0.803$ px

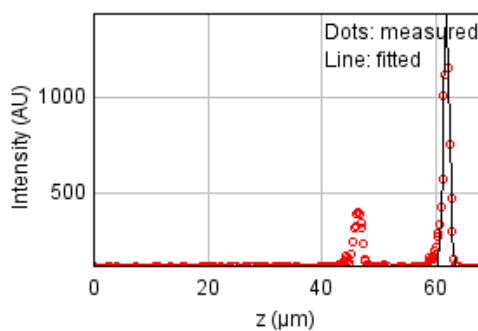
$b = 0.066$ px

$c = 0.444$ px

$x_c = 5.876$ px

$y_c = 6.403$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 630871.748

Standard deviation: 45.33163

$R^2: 0.91857$

Parameters:

$a = 126.34717$

$b = 1437.83797$

$c = 61.87864$

$d = 0.52815$

Bead 2825 (Rejected)

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

Coordinates : -45.1 μm (x), 37.8 μm (y), 48.4 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	66.5 nm	68.7 nm	223 nm
max	196 nm	203 nm	223 nm
z	1.25 μm	1.26 μm	885 nm
Asymmetry	0.339		
Theta	-84.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = -124.404 (brightness)

B = 208.860 (background)

a = 30.073 px

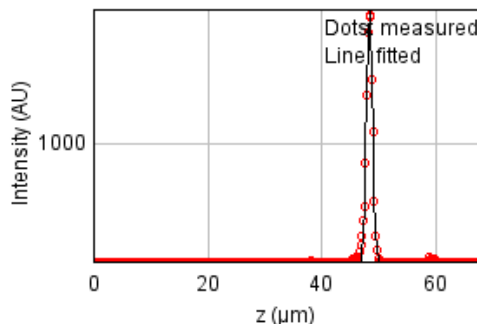
b = -3.082 px

c = -3.204 px

xc = 11.946 px

yc = 3.235 px

Z profile & fitting parameters:



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

Sum of residuals squared: 95240.0709

Standard deviation: 17.61330

R^2 : 0.99355

Parameters:

a = 115.99944

b = 1994.19085

c = 48.42811

d = 0.53100

Bead 2826

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

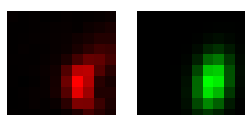
Coordinates : 38.6 μm (x), 21.8 μm (y), 61.2 μm (z)

Corresponding bead : Not found

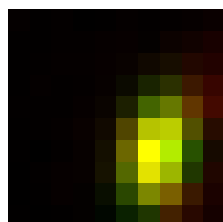
FWHM	Non corrected	Corrected	Theoretical
min	513 nm	531 nm	223 nm
max	856 nm	885 nm	223 nm
z	1.21 μm	1.21 μm	885 nm
Asymmetry	0.6		
Theta	78.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.923$



Parameters:

A = 900.720 (brightness)

B = 131.322 (background)

a = 0.495 px

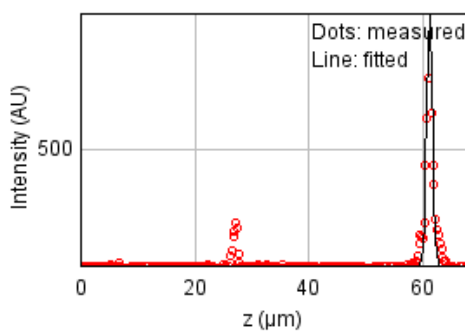
b = 0.066 px

c = 0.197 px

xc = 6.411 px

yc = 6.048 px

Z profile & fitting parameters:



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

Sum of residuals squared: 205717.594

Standard deviation: 25.88609

R^2 : 0.93006

Parameters:

a = 119.66361

b = 944.44417

c = 61.21272

d = 0.51287

Bead 2827

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

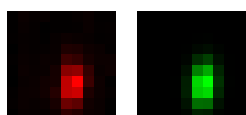
Coordinates : -160 μm (x), 2.35 μm (y), 61.1 μm (z)

Corresponding bead : Not found

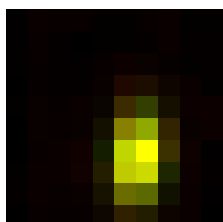
FWHM	Non corrected	Corrected	Theoretical
min	383 nm	396 nm	223 nm
max	690 nm	713 nm	223 nm
z	1.74 μm	1.75 μm	885 nm
Asymmetry	0.555		
Theta	85.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.984$



Parameters:

A = 658.984 (brightness)

B = 118.435 (background)

a = 0.913 px

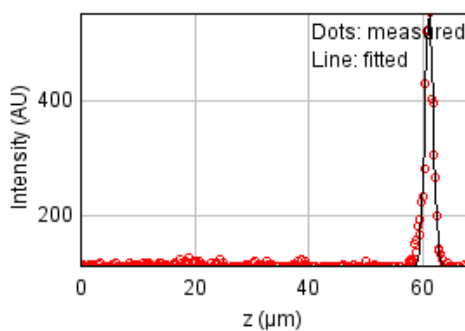
b = 0.050 px

c = 0.286 px

xc = 5.581 px

yc = 6.298 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33923.4951

Standard deviation: 10.51190

R^2 : 0.97053

Parameters:

a = 112.47432

b = 553.90583

c = 61.12456

d = 0.74040

Bead 2828

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

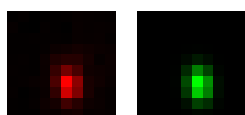
Coordinates : -141 μm (x), -9.52 μm (y), 61.0 μm (z)

Corresponding bead : Not found

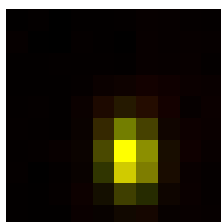
FWHM	Non corrected	Corrected	Theoretical
min	382 nm	395 nm	223 nm
max	538 nm	556 nm	223 nm
z	1.21 μm	1.22 μm	885 nm
Asymmetry	0.709		
Theta	-84.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.984$



Parameters:

A = 963.113 (brightness)

B = 124.342 (background)

a = 0.916 px

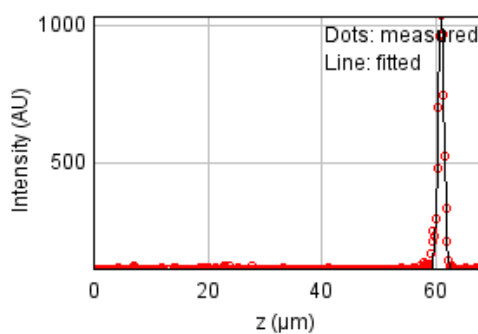
b = -0.046 px

c = 0.468 px

$x_c = 5.198$ px

$y_c = 6.272$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 42448.8336

Standard deviation: 11.75882

R^2 : 0.98772

Parameters:

a = 112.20309

b = 1031.14478

c = 60.95399

d = 0.51570

Bead 2829

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

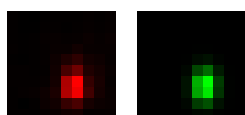
Coordinates : -123 μm (x), -22.5 μm (y), 61.2 μm (z)

Corresponding bead : Not found

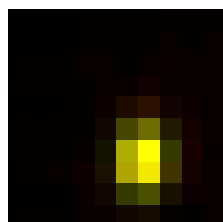
FWHM	Non corrected	Corrected	Theoretical
min	380 nm	392 nm	223 nm
max	527 nm	544 nm	223 nm
z	1.14 μm	1.14 μm	885 nm
Asymmetry	0.721		
Theta	87.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.985$



Parameters:

A = 1256.545 (brightness)

B = 125.475 (background)

a = 0.931 px

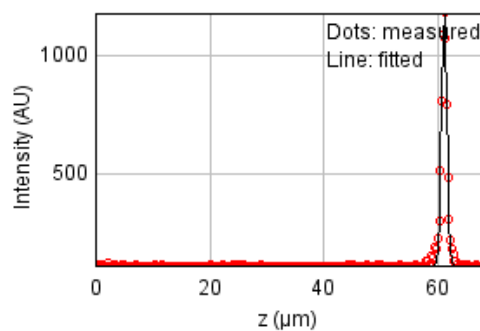
b = 0.020 px

c = 0.485 px

$x_c = 5.699$ px

$y_c = 6.411$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 43574.0900

Standard deviation: 11.91365

R^2 : 0.98995

Parameters:

a = 113.56144

b = 1176.12190

c = 61.15382

d = 0.48412

Bead 2830

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

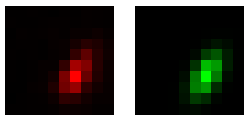
Coordinates : 43.4 μm (x), -72.3 μm (y), 61.4 μm (z)

Corresponding bead : Not found

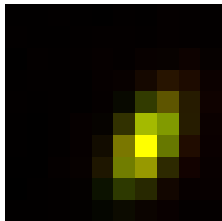
FWHM	Non corrected	Corrected	Theoretical
min	383 nm	395 nm	223 nm
max	719 nm	743 nm	223 nm
z	1.2 μm	1.2 μm	885 nm
Asymmetry	0.532		
Theta	60.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1511.263 (brightness)

B = 129.126 (background)

a = 0.759 px

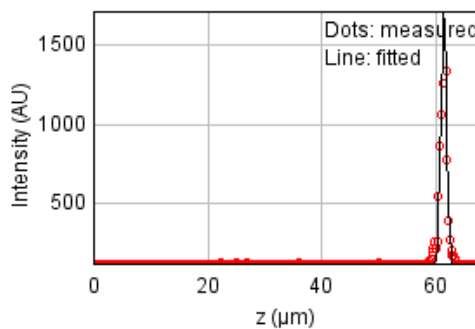
b = 0.281 px

c = 0.418 px

$x_c = 6.063$ px

$y_c = 5.840$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 240860.867

Standard deviation: 28.01005

R^2 : 0.97686

Parameters:

a = 116.81859

b = 1714.45666

c = 61.42441

d = 0.50798

Bead 2831

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

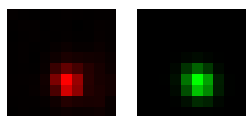
Coordinates : 158 μm (x), -91.1 μm (y), 61.7 μm (z)

Corresponding bead : Not found

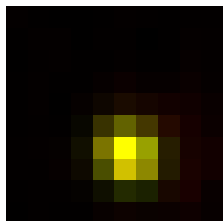
FWHM	Non corrected	Corrected	Theoretical
min	444 nm	459 nm	223 nm
max	486 nm	502 nm	223 nm
z	1.63 μm	1.64 μm	885 nm
Asymmetry	0.915		
Theta	-46.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1422.931$ (brightness)

$B = 125.776$ (background)

$a = 0.627$ px

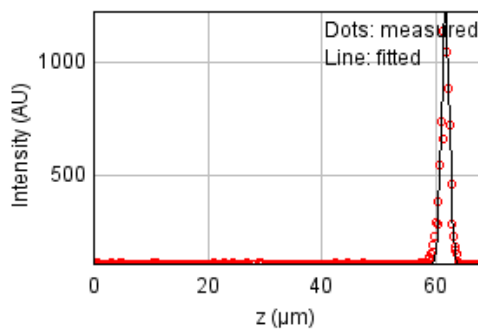
$b = -0.056$ px

$c = 0.622$ px

$x_c = 5.156$ px

$y_c = 6.286$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 236214.428

Standard deviation: 27.73857

$R^2: 0.96640$

Parameters:

$a = 110.11392$

$b = 1234.42160$

$c = 61.70697$

$d = 0.69210$

Bead 2832

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

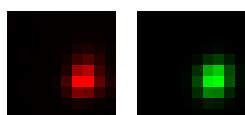
Coordinates : -89.2 μm (x), 95.7 μm (y), 62.5 μm (z)

Corresponding bead : Not found

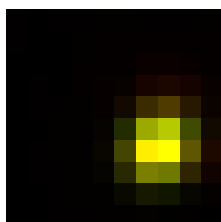
FWHM	Non corrected	Corrected	Theoretical
min	470 nm	486 nm	223 nm
max	536 nm	555 nm	223 nm
z	1.2 μm	1.21 μm	885 nm
Asymmetry	0.876		
Theta	64.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2893.336 (brightness)

B = 138.053 (background)

a = 0.581 px

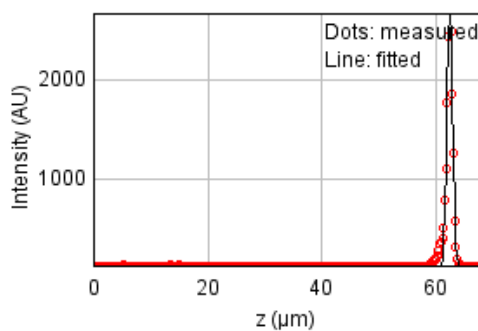
b = 0.055 px

c = 0.493 px

$x_c = 6.578$ px

$y_c = 5.790$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 300093.010

Standard deviation: 31.26502

R^2 : 0.98861

Parameters:

a = 119.36863

b = 2668.95686

c = 62.48153

d = 0.51101

Bead 2833

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

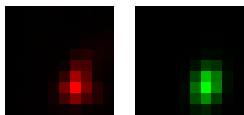
Coordinates : -20.0 μm (x), 94.4 μm (y), 62.0 μm (z)

Corresponding bead : Not found

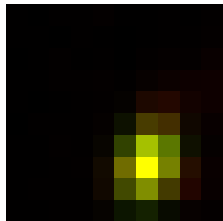
FWHM	Non corrected	Corrected	Theoretical
min	409 nm	423 nm	223 nm
max	572 nm	592 nm	223 nm
z	1.27 μm	1.27 μm	885 nm
Asymmetry	0.714		
Theta	74.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1853.811$ (brightness)

$B = 138.479$ (background)

$a = 0.775$ px

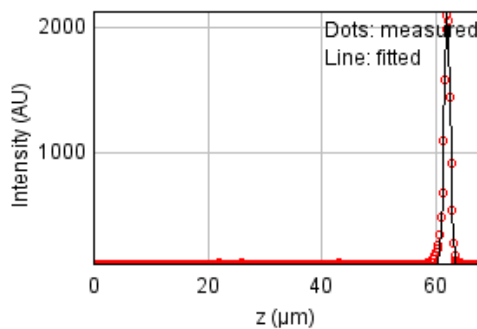
$b = 0.101$ px

$c = 0.438$ px

$x_c = 6.085$ px

$y_c = 6.804$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 124924.907

Standard deviation: 20.17230

$R^2: 0.99274$

Parameters:

$a = 116.69101$

$b = 2131.53403$

$c = 62.00338$

$d = 0.53737$

Bead 2834 (Rejected)

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

Coordinates : -53.1 μm (x), 89.4 μm (y), 62.3 μm (z)

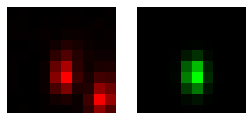
Corresponding bead : Not found

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

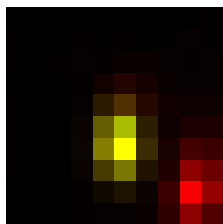
FWHM	Non corrected	Corrected	Theoretical
min	325 nm	336 nm	223 nm
max	501 nm	518 nm	223 nm
z	2.55 μm	2.56 μm	885 nm
Asymmetry	0.65		
Theta	-89.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.523$



Parameters:

A = 1873.399 (brightness)

B = 242.462 (background)

a = 1.267 px

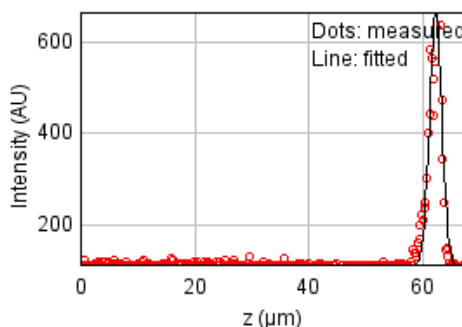
b = -0.003 px

c = 0.535 px

xc = 4.780 px

yc = 5.786 px

Z profile & fitting parameters:



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

Sum of residuals squared: 176008.458

Standard deviation: 23.94405

R^2 : 0.93394

Parameters:

a = 113.36086

b = 663.56937

c = 62.29759

d = 1.08150

Bead 2835 (Rejected)

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

Coordinates : -52.6 μm (x), 89.1 μm (y), 62.3 μm (z)

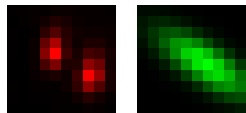
Corresponding bead : Not found

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

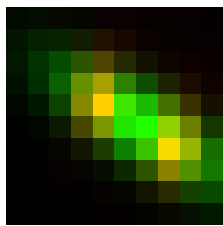
FWHM	Non corrected	Corrected	Theoretical
min	585 nm	604 nm	223 nm
max	1.62 μm	1.67 μm	223 nm
z	2.55 μm	2.56 μm	885 nm
Asymmetry	0.362		
Theta	-33.4°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.591$



Parameters:

A = 1018.109 (brightness)

B = 123.829 (background)

a = 0.155 px

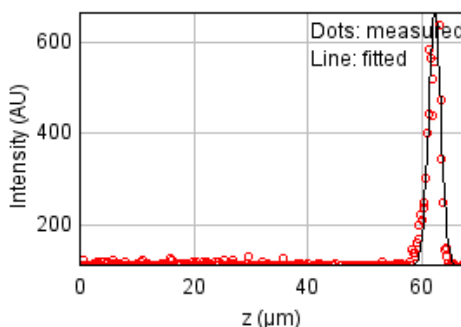
b = -0.157 px

c = 0.289 px

xc = 5.765 px

yc = 4.908 px

Z profile & fitting parameters:



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

Sum of residuals squared: 176008.458

Standard deviation: 23.94405

R^2 : 0.93394

Parameters:

a = 113.36086

b = 663.56937

c = 62.29759

d = 1.08150

Bead 2836

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

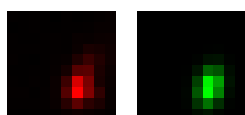
Coordinates : 20.5 μm (x), 88.3 μm (y), 61.8 μm (z)

Corresponding bead : Not found

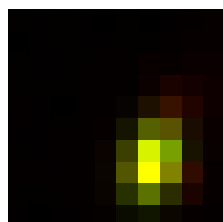
FWHM	Non corrected	Corrected	Theoretical
min	383 nm	396 nm	223 nm
max	579 nm	599 nm	223 nm
z	1.38 μm	1.39 μm	885 nm
Asymmetry	0.662		
Theta	75.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1812.068$ (brightness)

$B = 135.601$ (background)

$a = 0.881$ px

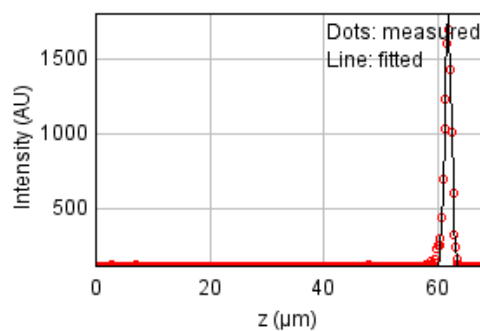
$b = 0.126$ px

$c = 0.434$ px

$x_c = 6.190$ px

$y_c = 6.504$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 114264.430

Standard deviation: 19.29240

$R^2: 0.99129$

Parameters:

$a = 114.84336$

$b = 1800.08289$

$c = 61.82350$

$d = 0.58612$

Bead 2837

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

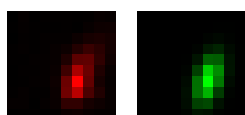
Coordinates : 25.8 μm (x), 88.5 μm (y), 61.7 μm (z)

Corresponding bead : Not found

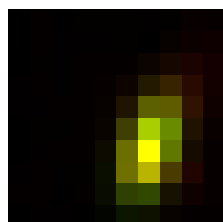
FWHM	Non corrected	Corrected	Theoretical
min	397 nm	410 nm	223 nm
max	772 nm	798 nm	223 nm
z	1.34 μm	1.34 μm	885 nm
Asymmetry	0.514		
Theta	72.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1133.180 (brightness)

B = 130.219 (background)

a = 0.797 px

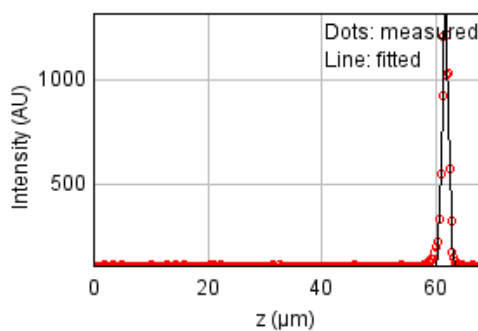
b = 0.179 px

c = 0.281 px

$x_c = 6.062$ px

$y_c = 5.835$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 93337.7114

Standard deviation: 17.43650

R^2 : 0.98612

Parameters:

a = 112.55295

b = 1333.89203

c = 61.69638

d = 0.56869

Bead 2838

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

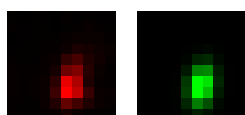
Coordinates : -15.3 μm (x), 88.4 μm (y), 62.1 μm (z)

Corresponding bead : Not found

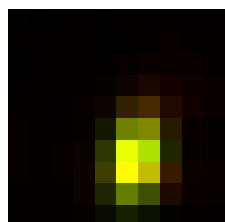
FWHM	Non corrected	Corrected	Theoretical
min	396 nm	410 nm	223 nm
max	638 nm	659 nm	223 nm
z	1.56 μm	1.56 μm	885 nm
Asymmetry	0.621		
Theta	80.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.967$



Parameters:

A = 1618.148 (brightness)

B = 134.860 (background)

a = 0.841 px

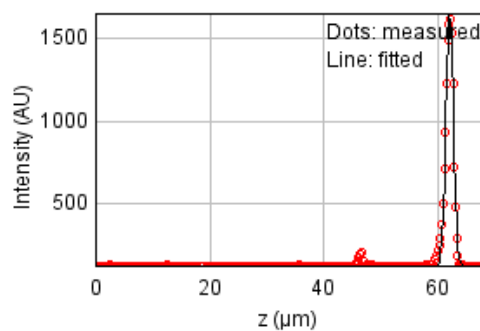
b = 0.084 px

c = 0.344 px

xc = 5.387 px

yc = 6.387 px

Z profile & fitting parameters:



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

Sum of residuals squared: 138638.813

Standard deviation: 21.25070

R^2 : 0.98879

Parameters:

a = 116.20597

b = 1657.70631

c = 62.09288

d = 0.66157

Bead 2839

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

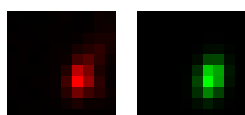
Coordinates : 37.0 μm (x), 87.2 μm (y), 61.7 μm (z)

Corresponding bead : Not found

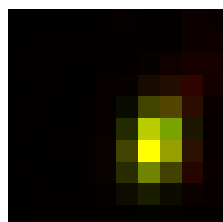
FWHM	Non corrected	Corrected	Theoretical
min	380 nm	393 nm	223 nm
max	572 nm	591 nm	223 nm
z	1.43 μm	1.44 μm	885 nm
Asymmetry	0.664		
Theta	76.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1174.868 (brightness)

B = 130.378 (background)

a = 0.899 px

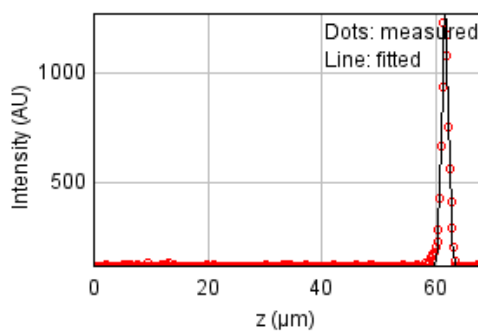
b = 0.121 px

c = 0.440 px

$x_c = 6.280$ px

$y_c = 5.673$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 47956.0506

Standard deviation: 12.49835

R^2 : 0.99256

Parameters:

a = 114.96930

b = 1277.12831

c = 61.65122

d = 0.60730

Bead 2840

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

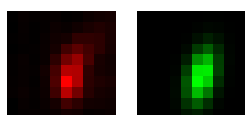
Coordinates : 63.5 μm (x), 85.3 μm (y), 61.0 μm (z)

Corresponding bead : Not found

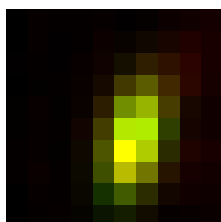
FWHM	Non corrected	Corrected	Theoretical
min	440 nm	455 nm	223 nm
max	874 nm	904 nm	223 nm
z	1.57 μm	1.57 μm	885 nm
Asymmetry	0.503		
Theta	76.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 647.529 (brightness)

B = 129.436 (background)

a = 0.664 px

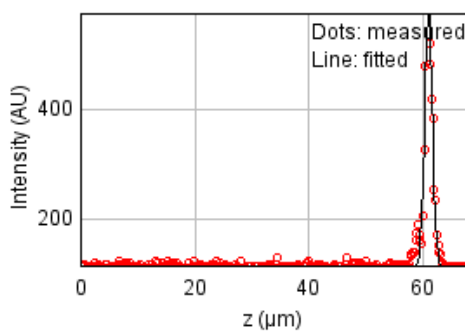
b = 0.119 px

c = 0.204 px

$x_c = 5.422$ px

$y_c = 5.486$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 46729.2200

Standard deviation: 12.33744

R^2 : 0.96082

Parameters:

a = 112.32674

b = 582.74998

c = 61.03984

d = 0.66594

Bead 2841 (Rejected)

Date : Mon Oct 17 13:30:07 PDT 2022

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

Frame size : 10 pixels

Coordinates : 11.2 μm (x), 74.1 μm (y), 60.0 μm (z)

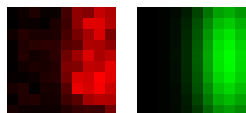
Corresponding bead : Not found

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

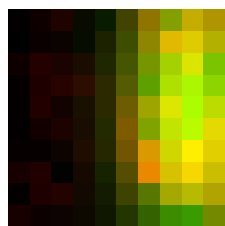
FWHM	Non corrected	Corrected	Theoretical
min	1.06 μm	1.09 μm	223 nm
max	2.51 μm	2.6 μm	223 nm
z	1.31 μm	1.32 μm	885 nm
Asymmetry	0.421		
Theta	-89.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 98.517 (brightness)

B = 115.936 (background)

a = 0.120 px

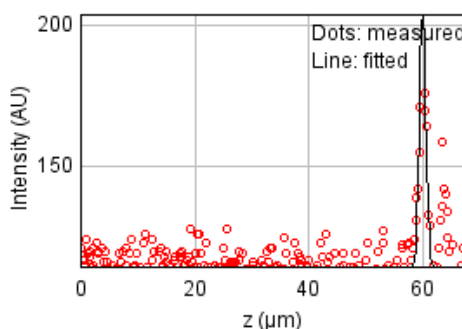
b = -0.001 px

c = 0.021 px

xc = 7.896 px

yc = 4.205 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16785.4155

Standard deviation: 7.39430

R^2 : 0.67857

Parameters:

a = 113.94175

b = 204.03918

c = 59.99933

d = 0.55812

Bead 2842

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

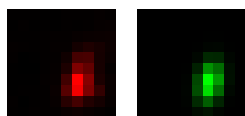
Coordinates : 261 nm (x), 73.0 um (y), 61.8 um (z)

Corresponding bead : Not found

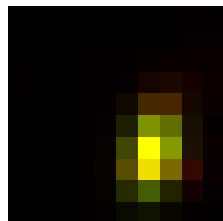
FWHM	Non corrected	Corrected	Theoretical
min	381 nm	394 nm	223 nm
max	632 nm	654 nm	223 nm
z	1.17 um	1.18 um	885 nm
Asymmetry	0.603		
Theta	78.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1589.700 (brightness)

B = 129.455 (background)

a = 0.899 px

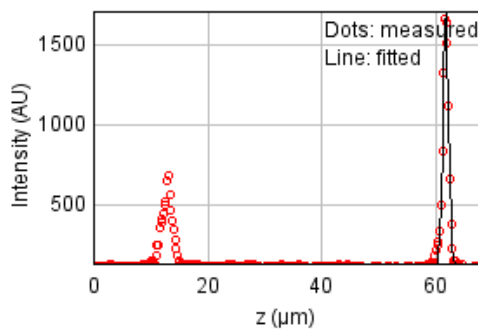
b = 0.114 px

c = 0.359 px

xc = 6.186 px

yc = 6.236 px

Z profile & fitting parameters:



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

Sum of residuals squared: 1870981.14

Standard deviation: 78.06665

R^2 : 0.83931

Parameters:

a = 134.57327

b = 1716.53298

c = 61.76326

d = 0.49763

Bead 2843

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

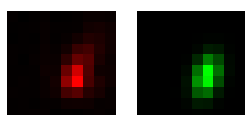
Coordinates : 78.3 μm (x), 68.3 μm (y), 61.4 μm (z)

Corresponding bead : Not found

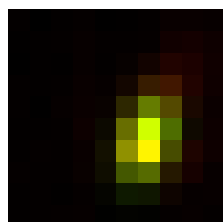
FWHM	Non corrected	Corrected	Theoretical
min	387 nm	400 nm	223 nm
max	632 nm	653 nm	223 nm
z	1.32 μm	1.33 μm	885 nm
Asymmetry	0.613		
Theta	72.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 998.309 (brightness)

B = 131.262 (background)

a = 0.844 px

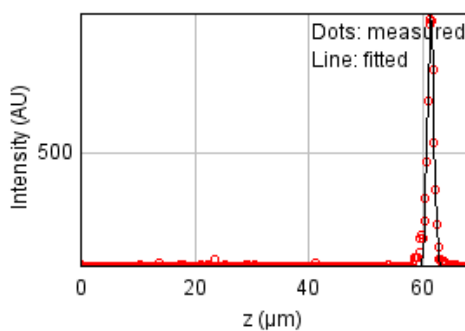
b = 0.159 px

c = 0.386 px

$x_c = 5.907$ px

$y_c = 5.475$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 47500.5075

Standard deviation: 12.43884

R^2 : 0.98578

Parameters:

a = 112.75762

b = 978.79890

c = 61.40993

d = 0.56130

Bead 2844

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

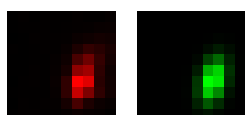
Coordinates : 4.94 μm (x), 67.1 μm (y), 62.1 μm (z)

Corresponding bead : Not found

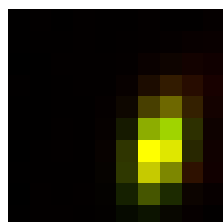
FWHM	Non corrected	Corrected	Theoretical
min	390 nm	403 nm	223 nm
max	703 nm	727 nm	223 nm
z	1.37 μm	1.38 μm	885 nm
Asymmetry	0.555		
Theta	75.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1986.836 (brightness)

B = 140.108 (background)

a = 0.841 px

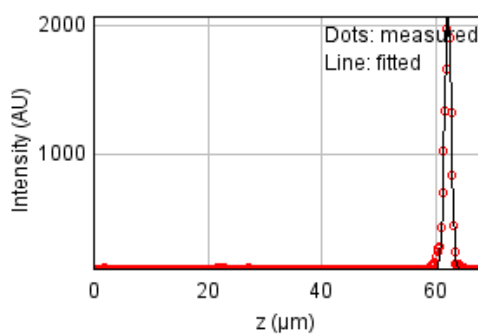
b = 0.152 px

c = 0.312 px

xc = 6.457 px

yc = 5.902 px

Z profile & fitting parameters:



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

Sum of residuals squared: 201608.208

Standard deviation: 25.62624

R^2 : 0.98877

Parameters:

a = 116.34092

b = 2089.26161

c = 62.13469

d = 0.58374

Bead 2845

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

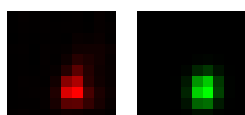
Coordinates : 47.9 μm (x), 62.3 μm (y), 62.1 μm (z)

Corresponding bead : Not found

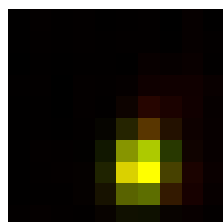
FWHM	Non corrected	Corrected	Theoretical
min	410 nm	424 nm	223 nm
max	502 nm	519 nm	223 nm
z	1.14 μm	1.15 μm	885 nm
Asymmetry	0.816		
Theta	79.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1560.017 (brightness)

B = 130.869 (background)

a = 0.789 px

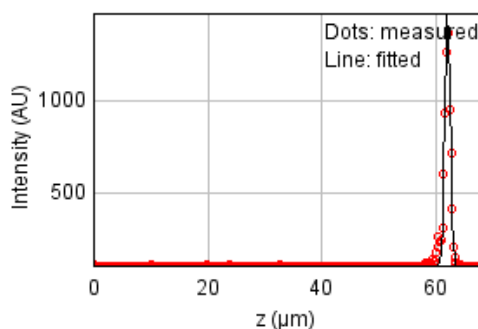
b = 0.049 px

c = 0.541 px

xc = 5.644 px

yc = 6.752 px

Z profile & fitting parameters:



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

Sum of residuals squared: 95167.9203

Standard deviation: 17.60662

R^2 : 0.98643

Parameters:

a = 114.29034

b = 1462.56157

c = 62.06512

d = 0.48474

Bead 2846

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

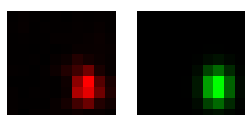
Coordinates : -77.9 μm (x), 59.3 μm (y), 61.7 μm (z)

Corresponding bead : Not found

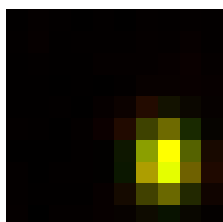
FWHM	Non corrected	Corrected	Theoretical
min	431 nm	446 nm	223 nm
max	551 nm	569 nm	223 nm
z	1.58 μm	1.58 μm	885 nm
Asymmetry	0.784		
Theta	89.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.979$



Parameters:

$A = 1210.932$ (brightness)

$B = 119.214$ (background)

$a = 0.721$ px

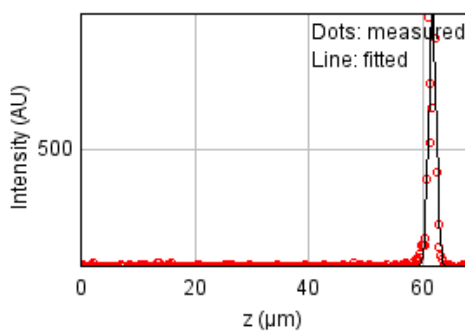
$b = 0.001$ px

$c = 0.443$ px

$x_c = 6.830$ px

$y_c = 6.494$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 568523.613

Standard deviation: 43.03334

$R^2: 0.86734$

Parameters:

$a = 112.31335$

$b = 957.22827$

$c = 61.71071$

$d = 0.66975$

Bead 2847

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

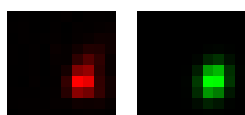
Coordinates : 48.9 μm (x), 59.0 μm (y), 61.9 μm (z)

Corresponding bead : Not found

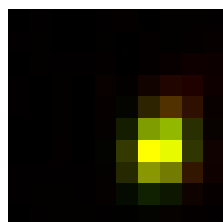
FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	531 nm	549 nm	223 nm
z	1.5 μm	1.51 μm	885 nm
Asymmetry	0.776		
Theta	72.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1416.805 (brightness)

B = 126.854 (background)

a = 0.760 px

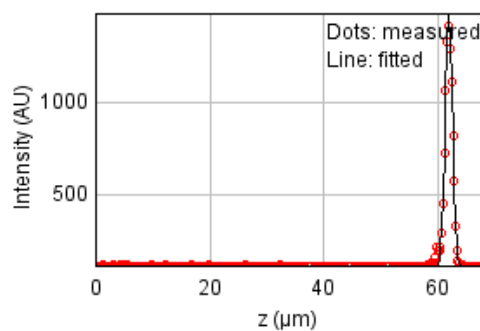
b = 0.092 px

c = 0.506 px

$x_c = 6.498$ px

$y_c = 5.894$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 50512.7321

Standard deviation: 12.82718

R^2 : 0.99465

Parameters:

a = 114.18231

b = 1490.34000

c = 61.94948

d = 0.63706

Bead 2848 (Rejected)

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

Coordinates : 29.5 μm (x), 49.1 μm (y), 62.3 μm (z)

Corresponding bead : Not found

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

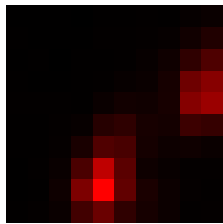
FWHM	Non corrected	Corrected	Theoretical
min	474 nm	490 nm	223 nm
max	3.44 μm	3.56 μm	223 nm
z	1.2 μm	1.2 μm	885 nm
Asymmetry	0.138		
Theta	0.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.548$



Parameters:

A = 645.227 (brightness)

B = 130.685 (background)

a = 0.294 px

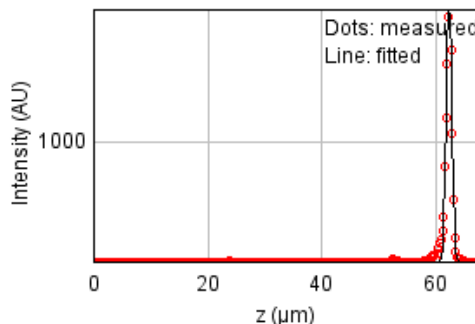
b = 0.304 px

c = 0.291 px

xc = 6.035 px

yc = 5.981 px

Z profile & fitting parameters:



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

Sum of residuals squared: 153661.773

Standard deviation: 22.37246

R^2 : 0.98939

Parameters:

a = 117.45895

b = 2012.69224

c = 62.34691

d = 0.50851

Bead 2849

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

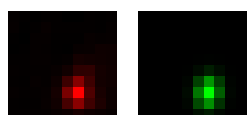
Coordinates : 118 um (x), 44.0 um (y), 61.3 um (z)

Corresponding bead : Not found

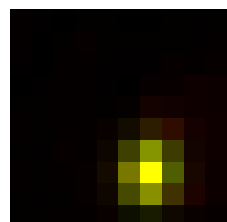
FWHM	Non corrected	Corrected	Theoretical
min	389 nm	402 nm	223 nm
max	493 nm	509 nm	223 nm
z	1.24 um	1.25 um	885 nm
Asymmetry	0.789		
Theta	82.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1031.975 (brightness)

B = 125.276 (background)

a = 0.882 px

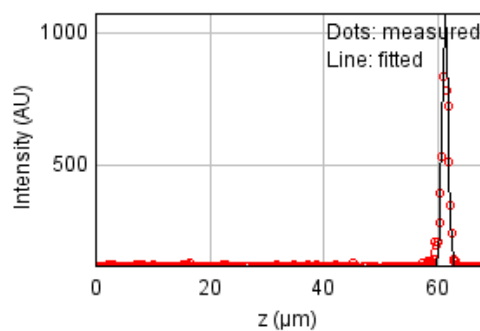
b = 0.041 px

c = 0.558 px

xc = 5.933 px

yc = 6.989 px

Z profile & fitting parameters:



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

Sum of residuals squared: 90337.9034

Standard deviation: 17.15402

R^2 : 0.97728

Parameters:

a = 112.68789

b = 1082.84433

c = 61.31874

d = 0.52689

Bead 2850

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

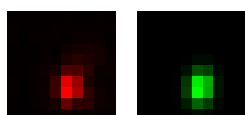
Coordinates : 94.0 μm (x), 43.2 μm (y), 61.5 μm (z)

Corresponding bead : Not found

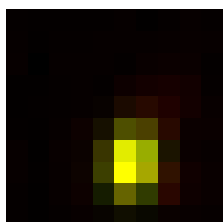
FWHM	Non corrected	Corrected	Theoretical
min	383 nm	396 nm	223 nm
max	518 nm	536 nm	223 nm
z	1.35 μm	1.36 μm	885 nm
Asymmetry	0.739		
Theta	82.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1207.786$ (brightness)

$B = 127.688$ (background)

$a = 0.909$ px

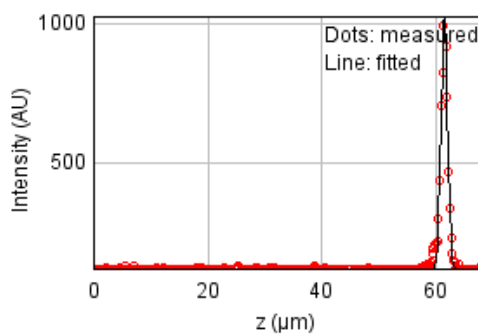
$b = 0.055$ px

$c = 0.507$ px

$x_c = 5.294$ px

$y_c = 6.546$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 41226.9878

Standard deviation: 11.58835

$R^2: 0.98930$

Parameters:

$a = 113.93673$

$b = 1034.53409$

$c = 61.51720$

$d = 0.57531$

Bead 2851

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

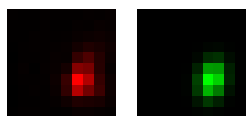
Coordinates : 67.0 μm (x), 42.9 μm (y), 62.0 μm (z)

Corresponding bead : Not found

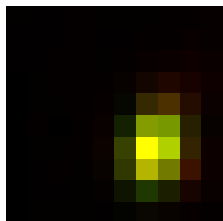
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	421 nm	223 nm
max	580 nm	600 nm	223 nm
z	1.34 μm	1.35 μm	885 nm
Asymmetry	0.702		
Theta	76.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1571.772$ (brightness)

$B = 130.695$ (background)

$a = 0.786$ px

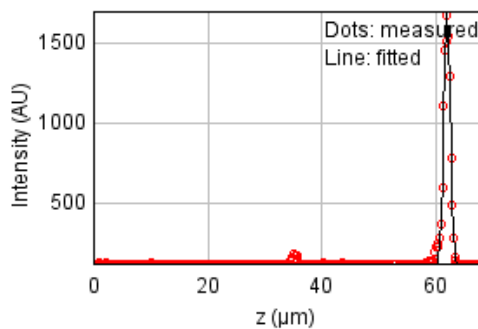
$b = 0.093$ px

$c = 0.421$ px

$x_c = 6.366$ px

$y_c = 6.009$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 127625.508

Standard deviation: 20.38917

$R^2: 0.98876$

Parameters:

$a = 115.60338$

$b = 1703.73876$

$c = 61.98024$

$d = 0.56962$

Bead 2852

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

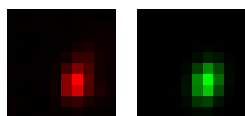
Coordinates : 79.4 μm (x), 42.4 μm (y), 61.8 μm (z)

Corresponding bead : Not found

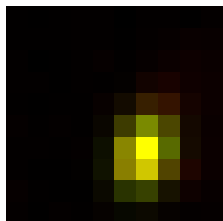
FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	574 nm	594 nm	223 nm
z	1.09 μm	1.1 μm	885 nm
Asymmetry	0.718		
Theta	74.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1248.412 (brightness)

B = 125.302 (background)

a = 0.763 px

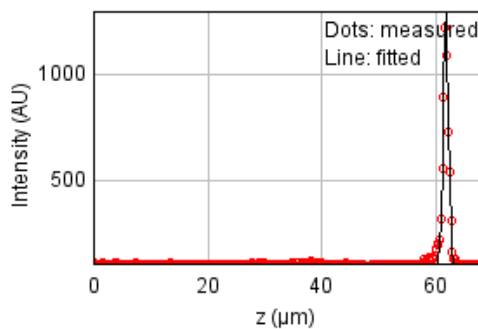
b = 0.099 px

c = 0.434 px

$x_c = 5.893$ px

$y_c = 6.235$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 58747.1550

Standard deviation: 13.83325

R^2 : 0.98843

Parameters:

a = 116.63288

b = 1290.29175

c = 61.78269

d = 0.46350

Bead 2853

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

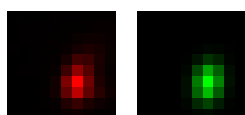
Coordinates : -2.85 μm (x), 42.0 μm (y), 62.5 μm (z)

Corresponding bead : Not found

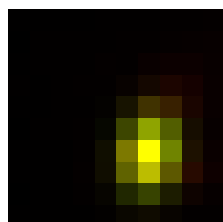
FWHM	Non corrected	Corrected	Theoretical
min	434 nm	448 nm	223 nm
max	607 nm	627 nm	223 nm
z	1.22 μm	1.23 μm	885 nm
Asymmetry	0.715		
Theta	81.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 3249.701 (brightness)

B = 157.513 (background)

a = 0.706 px

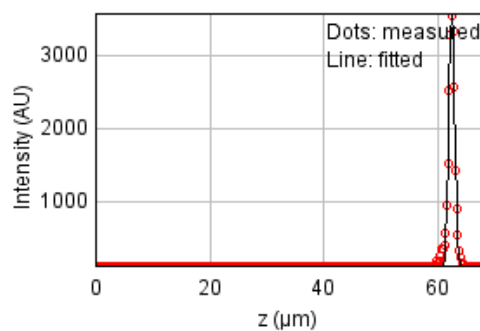
b = 0.052 px

c = 0.372 px

$x_c = 6.023$ px

$y_c = 6.092$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 293266.858

Standard deviation: 30.90739

R^2 : 0.99401

Parameters:

a = 117.88772

b = 3574.32534

c = 62.47671

d = 0.51975

Bead 2854

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

Coordinates : 87.8 μm (x), 39.5 μm (y), 61.6 μm (z)

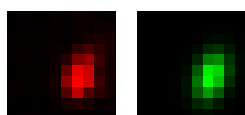
Corresponding bead : Not found



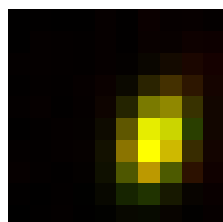
FWHM	Non corrected	Corrected	Theoretical
min	475 nm	491 nm	223 nm
max	726 nm	750 nm	223 nm
z	1.43 μm	1.44 μm	885 nm
Asymmetry	0.655		
Theta	70.3°		

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:

$A = 946.716$ (brightness)

$B = 121.385$ (background)

$a = 0.555$ px

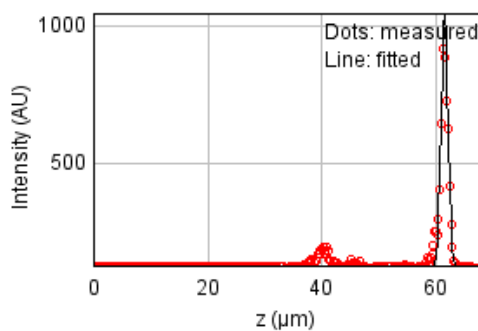
$b = 0.107$ px

$c = 0.293$ px

$x_c = 6.303$ px

$y_c = 5.519$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 151774.399

Standard deviation: 22.23464

$R^2: 0.96424$

Parameters:

$a = 119.57747$

$b = 1049.21548$

$c = 61.56175$

$d = 0.60698$

Bead 2855

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

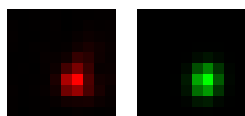
Coordinates : 62.7 μm (x), 35.2 μm (y), 62.2 μm (z)

Corresponding bead : Not found

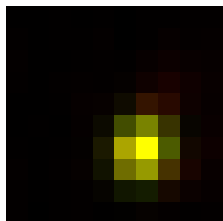
FWHM	Non corrected	Corrected	Theoretical
min	423 nm	437 nm	223 nm
max	482 nm	498 nm	223 nm
z	1.15 μm	1.16 μm	885 nm
Asymmetry	0.878		
Theta	73.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1888.377$ (brightness)

$B = 135.295$ (background)

$a = 0.736$ px

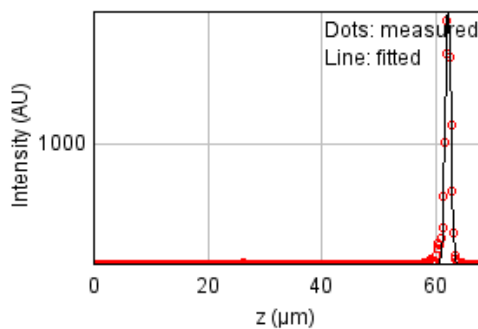
$b = 0.047$ px

$c = 0.592$ px

$x_c = 5.792$ px

$y_c = 6.085$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 109945.280

Standard deviation: 18.92427

$R^2: 0.99207$

Parameters:

$a = 115.27587$

$b = 2009.07072$

$c = 62.15928$

$d = 0.48880$

Bead 2856

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

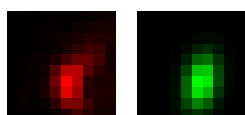
Coordinates : 38.6 μm (x), 21.8 μm (y), 61.2 μm (z)

Corresponding bead : Not found

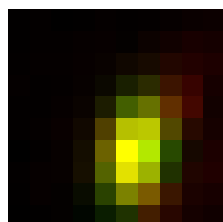
FWHM	Non corrected	Corrected	Theoretical
min	497 nm	514 nm	223 nm
max	831 nm	859 nm	223 nm
z	1.21 μm	1.21 μm	885 nm
Asymmetry	0.599		
Theta	78.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 904.381 (brightness)

B = 143.499 (background)

a = 0.529 px

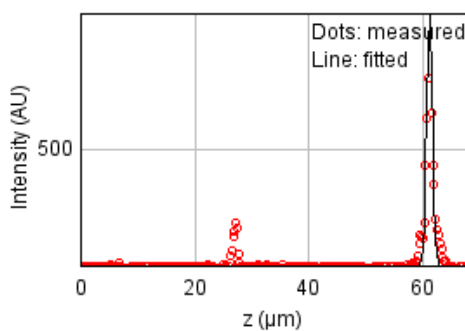
b = 0.069 px

c = 0.209 px

$x_c = 5.401$ px

$y_c = 6.057$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 205717.594

Standard deviation: 25.88609

R^2 : 0.93006

Parameters:

a = 119.66361

b = 944.44417

c = 61.21272

d = 0.51287

Bead 2857

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

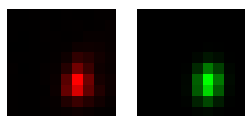
Coordinates : 20.5 μm (x), 8.07 μm (y), 61.7 μm (z)

Corresponding bead : Not found

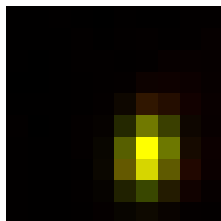
FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	541 nm	560 nm	223 nm
z	1.15 μm	1.15 μm	885 nm
Asymmetry	0.722		
Theta	82.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1928.878 (brightness)

B = 131.783 (background)

a = 0.871 px

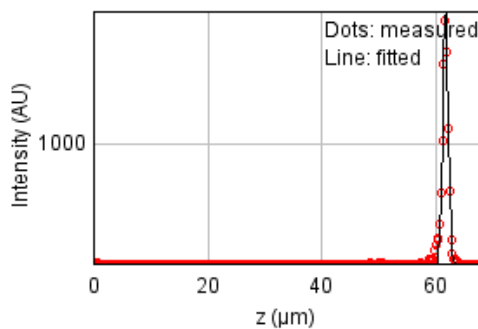
b = 0.055 px

c = 0.465 px

xc = 6.047 px

yc = 6.303 px

Z profile & fitting parameters:



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

Sum of residuals squared: 114991.007

Standard deviation: 19.35364

R^2 : 0.99167

Parameters:

a = 116.81908

b = 2007.88000

c = 61.72106

d = 0.48750

Bead 2858

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

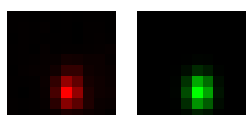
Coordinates : 129 μm (x), -8.56 μm (y), 61.7 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	400 nm	413 nm	223 nm
max	522 nm	540 nm	223 nm
z	1.3 μm	1.31 μm	885 nm
Asymmetry	0.765		
Theta	89.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1383.982$ (brightness)

$B = 127.173$ (background)

$a = 0.841$ px

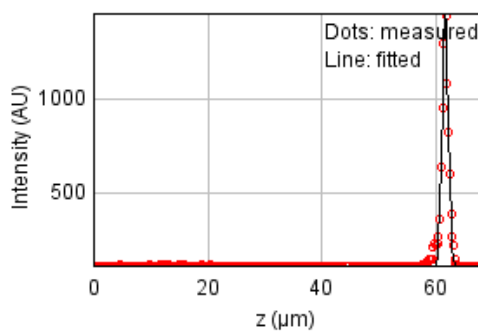
$b = 0.000$ px

$c = 0.492$ px

$x_c = 5.229$ px

$y_c = 6.927$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 100104.052

Standard deviation: 18.05746

$R^2: 0.98743$

Parameters:

$a = 113.66086$

$b = 1462.81390$

$c = 61.66900$

$d = 0.55201$

Bead 2859 (Rejected)

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

Coordinates : -38.9 μm (x), -42.9 μm (y), 60.0 μm (z)

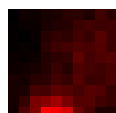
Corresponding bead : Not found

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	1.68 μm	1.69 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

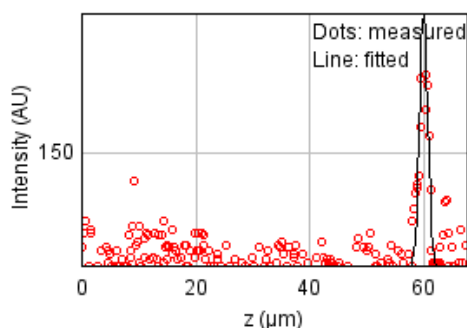
XY profile & fitting parameters :

(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: 15582.1277

Standard deviation: 7.12433

R^2 : 0.71448

Parameters:

$a = 112.54885$

$b = 196.42864$

$c = 60.00081$

$d = 0.71461$

Bead 2860

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

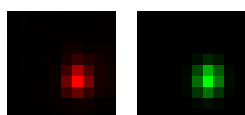
Coordinates : 136 μm (x), -44.2 μm (y), 61.9 μm (z)

Corresponding bead : Not found

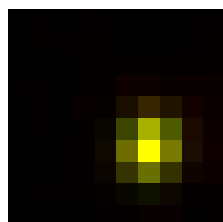
FWHM	Non corrected	Corrected	Theoretical
min	408 nm	422 nm	223 nm
max	477 nm	493 nm	223 nm
z	1.26 μm	1.26 μm	885 nm
Asymmetry	0.855		
Theta	80.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.984$



Parameters:

$A = 1706.011$ (brightness)

$B = 129.085$ (background)

$a = 0.801$ px

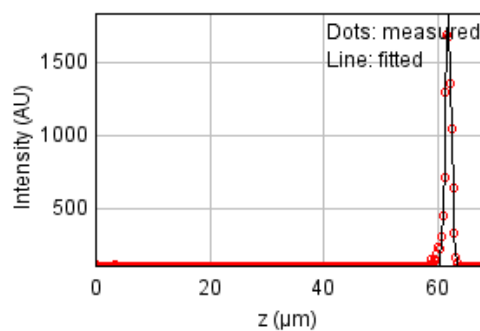
$b = 0.037$ px

$c = 0.597$ px

$x_c = 6.043$ px

$y_c = 5.807$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 93030.8648

Standard deviation: 17.40782

$R^2: 0.99256$

Parameters:

$a = 112.22365$

$b = 1834.24235$

$c = 61.86208$

$d = 0.53450$

Bead 2861

Date : Mon Oct 17 13:30:08 PDT 2022

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

Frame size : 10 pixels

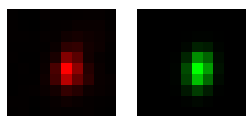
Coordinates : -24.8 μm (x), -91.3 μm (y), 61.5 μm (z)

Corresponding bead : Not found

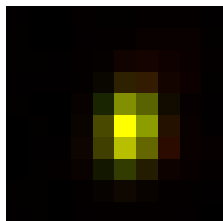
FWHM	Non corrected	Corrected	Theoretical
min	392 nm	405 nm	223 nm
max	561 nm	580 nm	223 nm
z	1.26 μm	1.27 μm	885 nm
Asymmetry	0.698		
Theta	81.3°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
 $R^2 = 0.977$



Parameters:

A = 1595.640 (brightness)

B = 129.726 (background)

a = 0.864 px

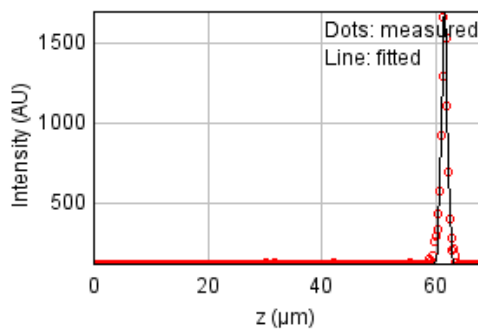
b = 0.067 px

c = 0.436 px

$x_c = 5.207$ px

$y_c = 5.134$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 107921.962

Standard deviation: 18.74933

R^2 : 0.98995

Parameters:

a = 115.03050

b = 1706.77527

c = 61.53422

d = 0.53565

Bead 2862

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

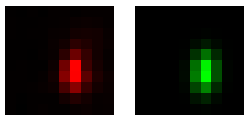
Coordinates : -11.7 μm (x), -91.4 μm (y), 61.5 μm (z)

Corresponding bead : Not found

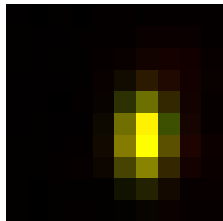
FWHM	Non corrected	Corrected	Theoretical
min	375 nm	388 nm	223 nm
max	614 nm	635 nm	223 nm
z	1.14 μm	1.15 μm	885 nm
Asymmetry	0.611		
Theta	87.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.980$



Parameters:

A = 1487.122 (brightness)

B = 130.832 (background)

a = 0.951 px

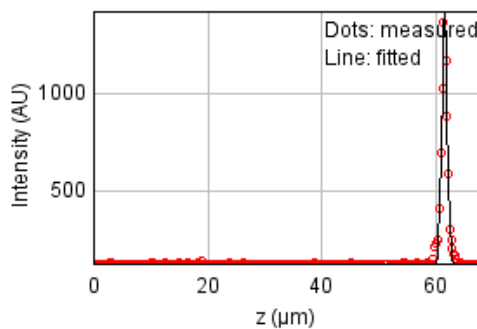
b = 0.025 px

c = 0.357 px

$x_c = 5.896$ px

$y_c = 5.585$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 65550.2325

Standard deviation: 14.61228

R^2 : 0.99024

Parameters:

a = 115.49597

b = 1435.92328

c = 61.54940

d = 0.48604

Bead 2863

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

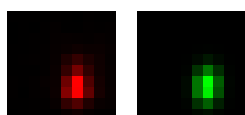
Coordinates : -62.7 μm (x), 93.2 μm (y), 62.3 μm (z)

Corresponding bead : Not found

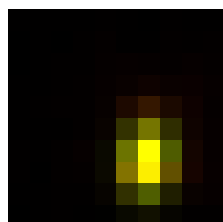
FWHM	Non corrected	Corrected	Theoretical
min	385 nm	398 nm	223 nm
max	561 nm	580 nm	223 nm
z	1.1 μm	1.11 μm	885 nm
Asymmetry	0.686		
Theta	86.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2298.665 (brightness)

B = 138.801 (background)

a = 0.905 px

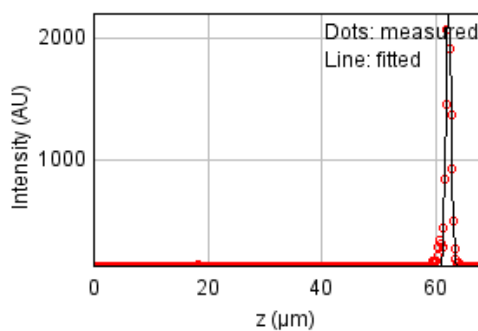
b = 0.031 px

c = 0.429 px

xc = 5.920 px

yc = 6.420 px

Z profile & fitting parameters:



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

Sum of residuals squared: 156766.011

Standard deviation: 22.59731

R^2 : 0.99034

Parameters:

a = 117.11191

b = 2205.64840

c = 62.25214

d = 0.46875

Bead 2864

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

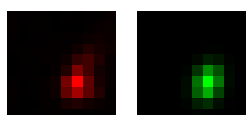
Coordinates : 31.9 μm (x), 81.2 μm (y), 61.8 μm (z)

Corresponding bead : Not found

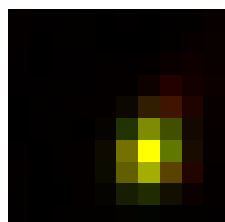
FWHM	Non corrected	Corrected	Theoretical
min	404 nm	418 nm	223 nm
max	540 nm	558 nm	223 nm
z	1.19 μm	1.19 μm	885 nm
Asymmetry	0.749		
Theta	72.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1261.131 (brightness)

B = 129.618 (background)

a = 0.789 px

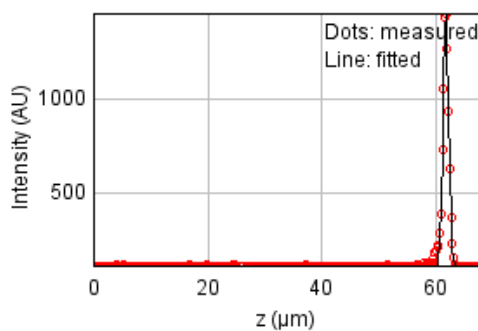
b = 0.101 px

c = 0.492 px

$x_c = 6.001$ px

$y_c = 6.111$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 51695.7989

Standard deviation: 12.97653

R^2 : 0.99275

Parameters:

a = 114.00745

b = 1452.28870

c = 61.77853

d = 0.50359

Bead 2865 (Rejected)

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

Coordinates : -80.7 μm (x), 78.0 μm (y), 61.6 μm (z)

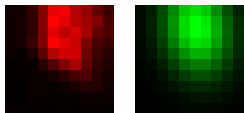
Corresponding bead : Not found

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

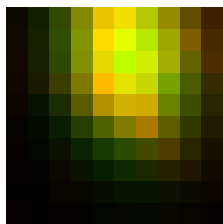
FWHM	Non corrected	Corrected	Theoretical
min	1.04 μm	1.08 μm	223 nm
max	1.49 μm	1.54 μm	223 nm
z	3.5 μm	3.51 μm	885 nm
Asymmetry	0.701		
Theta	-80.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 653.064 (brightness)

B = 102.100 (background)

a = 0.122 px

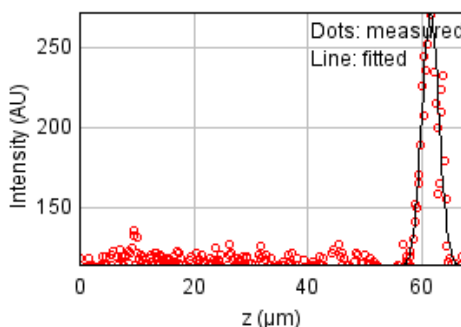
b = -0.010 px

c = 0.062 px

xc = 5.162 px

yc = 1.557 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29002.9143

Standard deviation: 9.71967

R^2 : 0.90583

Parameters:

a = 113.32340

b = 272.32022

c = 61.55017

d = 1.48514

Bead 2866 (Rejected)

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

Coordinates : 11.3 μm (x), 73.2 μm (y), 60.0 μm (z)

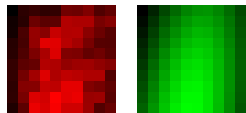
Corresponding bead : Not found

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

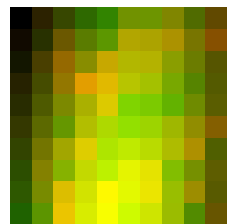
FWHM	Non corrected	Corrected	Theoretical
min	2.04 μm	2.11 μm	223 nm
max	6.32 μm	6.54 μm	223 nm
z	1.31 μm	1.32 μm	885 nm
Asymmetry	0.323		
Theta	82.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.792$



Parameters:

$A = 143.936$ (brightness)

$B = 70.107$ (background)

$a = 0.032$ px

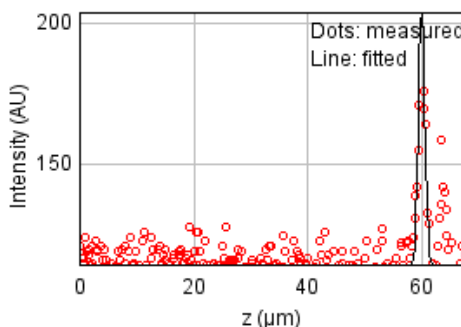
$b = 0.004$ px

$c = 0.004$ px

$xc = 4.214$ px

$yc = 10.445$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 16785.4155

Standard deviation: 7.39430

$R^2: 0.67857$

Parameters:

$a = 113.94175$

$b = 204.03918$

$c = 59.99933$

$d = 0.55812$

Bead 2867

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

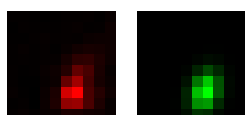
Coordinates : 71.0 μm (x), 69.5 μm (y), 61.6 μm (z)

Corresponding bead : Not found

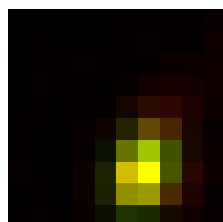
FWHM	Non corrected	Corrected	Theoretical
min	425 nm	439 nm	223 nm
max	624 nm	645 nm	223 nm
z	1.13 μm	1.14 μm	885 nm
Asymmetry	0.681		
Theta	72.7°		

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:

$A = 765.239$ (brightness)

$B = 124.817$ (background)

$a = 0.707$ px

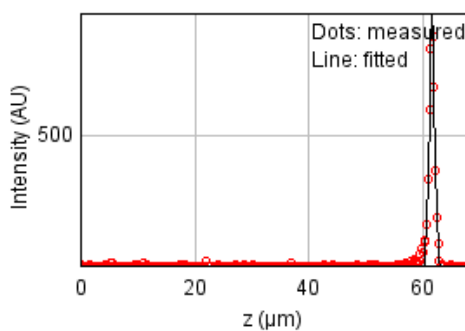
$b = 0.113$ px

$c = 0.380$ px

$xc = 5.727$ px

$yc = 6.912$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 24571.3024

Standard deviation: 8.94633

$R^2 = 0.98851$

Parameters:

$a = 113.84779$

$b = 862.59440$

$c = 61.62298$

$d = 0.48023$

Bead 2868

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

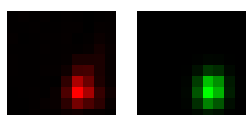
Coordinates : 41.9 μm (x), 65.2 μm (y), 62.0 μm (z)

Corresponding bead : Not found

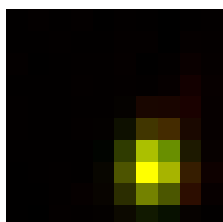
FWHM	Non corrected	Corrected	Theoretical
min	427 nm	442 nm	223 nm
max	528 nm	546 nm	223 nm
z	1.39 μm	1.39 μm	885 nm
Asymmetry	0.81		
Theta	83.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1270.694 (brightness)

B = 124.842 (background)

a = 0.731 px

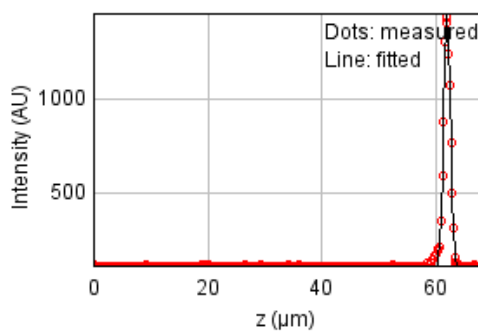
b = 0.029 px

c = 0.485 px

xc = 6.270 px

yc = 6.782 px

Z profile & fitting parameters:



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

Sum of residuals squared: 52677.9228

Standard deviation: 13.09921

R^2 : 0.99370

Parameters:

a = 113.50934

b = 1457.49887

c = 61.97777

d = 0.58950

Bead 2869

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

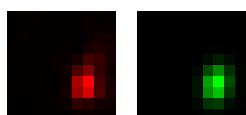
Coordinates : 36.5 μm (x), 64.4 μm (y), 62.1 μm (z)

Corresponding bead : Not found

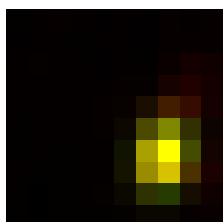
FWHM	Non corrected	Corrected	Theoretical
min	397 nm	411 nm	223 nm
max	552 nm	570 nm	223 nm
z	1.13 μm	1.13 μm	885 nm
Asymmetry	0.72		
Theta	80.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1612.148$ (brightness)

$B = 127.540$ (background)

$a = 0.839$ px

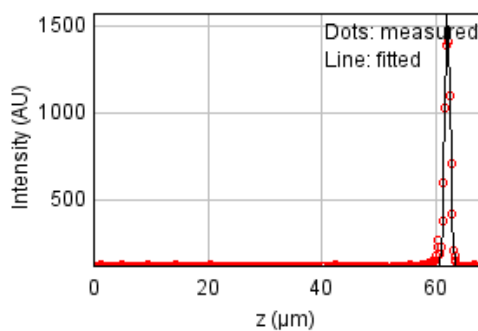
$b = 0.070$ px

$c = 0.453$ px

$x_c = 6.759$ px

$y_c = 6.232$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 67094.0459

Standard deviation: 14.78335

$R^2: 0.99165$

Parameters:

$a = 115.19599$

$b = 1570.14272$

$c = 62.05903$

$d = 0.47931$

Bead 2870

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

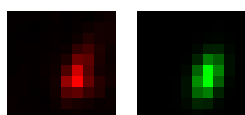
Coordinates : 54.6 μm (x), 60.4 μm (y), 61.7 μm (z)

Corresponding bead : Not found

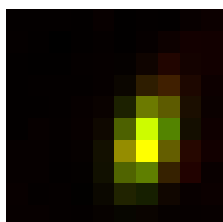
FWHM	Non corrected	Corrected	Theoretical
min	395 nm	408 nm	223 nm
max	677 nm	700 nm	223 nm
z	1.2 μm	1.2 μm	885 nm
Asymmetry	0.583		
Theta	70.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 933.823 (brightness)

B = 130.343 (background)

a = 0.799 px

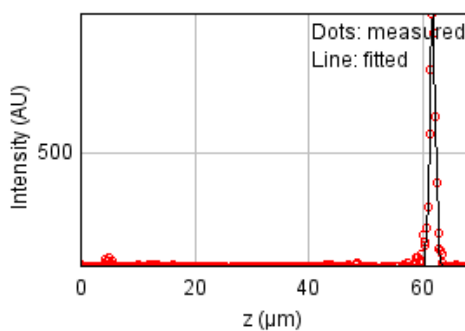
b = 0.178 px

c = 0.356 px

xc = 5.976 px

yc = 5.533 px

Z profile & fitting parameters:



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

Sum of residuals squared: 51180.2207

Standard deviation: 12.91165

R^2 : 0.98336

Parameters:

a = 115.12302

b = 986.75117

c = 61.74289

d = 0.50761

Bead 2871

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

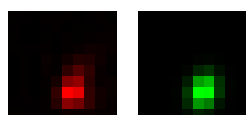
Coordinates : 48.9 μm (x), 59.0 μm (y), 61.9 μm (z)

Corresponding bead : Not found

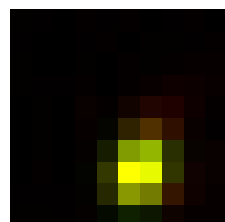
FWHM	Non corrected	Corrected	Theoretical
min	410 nm	424 nm	223 nm
max	529 nm	547 nm	223 nm
z	1.5 μm	1.51 μm	885 nm
Asymmetry	0.775		
Theta	72.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1417.613 (brightness)

B = 129.930 (background)

a = 0.768 px

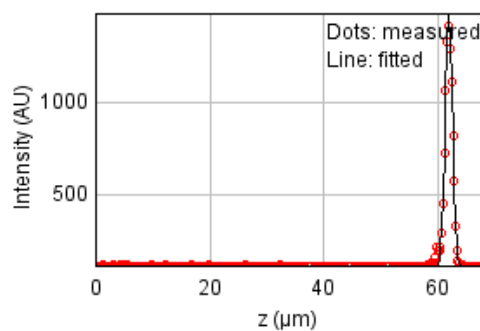
b = 0.093 px

c = 0.510 px

$x_c = 5.498$ px

$y_c = 6.895$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 50512.7321

Standard deviation: 12.82718

R^2 : 0.99465

Parameters:

a = 114.18231

b = 1490.34000

c = 61.94948

d = 0.63706

Bead 2872

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

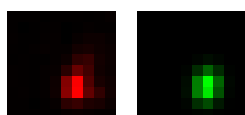
Coordinates : 52.3 μm (x), 58.6 μm (y), 62.1 μm (z)

Corresponding bead : Not found

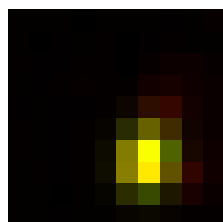
FWHM	Non corrected	Corrected	Theoretical
min	400 nm	413 nm	223 nm
max	509 nm	526 nm	223 nm
z	1.26 μm	1.27 μm	885 nm
Asymmetry	0.786		
Theta	80.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1255.981 (brightness)

B = 128.740 (background)

a = 0.830 px

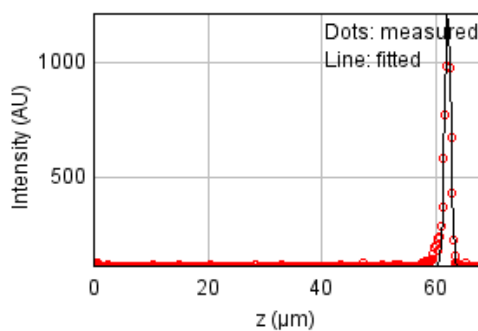
b = 0.053 px

c = 0.528 px

xc = 5.906 px

yc = 6.422 px

Z profile & fitting parameters:



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

Sum of residuals squared: 91072.1617

Standard deviation: 17.22359

R^2 : 0.98235

Parameters:

a = 115.45600

b = 1214.76848

c = 62.09931

d = 0.53576

Bead 2873

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

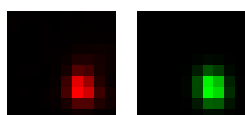
Coordinates : -32.9 μm (x), 59.1 μm (y), 62.6 μm (z)

Corresponding bead : Not found

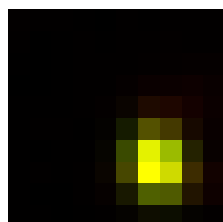
FWHM	Non corrected	Corrected	Theoretical
min	429 nm	443 nm	223 nm
max	514 nm	531 nm	223 nm
z	1.42 μm	1.43 μm	885 nm
Asymmetry	0.835		
Theta	-77.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 3582.078 (brightness)

B = 149.710 (background)

a = 0.719 px

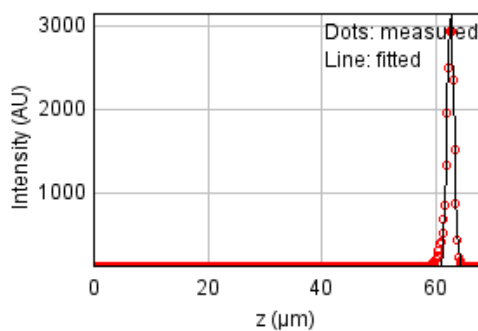
b = -0.048 px

c = 0.519 px

xc = 6.361 px

yc = 6.587 px

Z profile & fitting parameters:



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

Sum of residuals squared: 447374.464

Standard deviation: 38.17389

R^2 : 0.98986

Parameters:

a = 117.22582

b = 3160.56622

c = 62.62997

d = 0.60431

Bead 2874

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

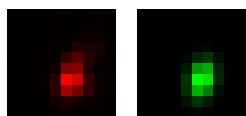
Coordinates : 25.4 um (x), 54.8 um (y), 62.2 um (z)

Corresponding bead : Not found

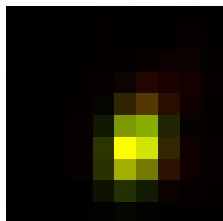
FWHM	Non corrected	Corrected	Theoretical
min	390 nm	403 nm	223 nm
max	571 nm	590 nm	223 nm
z	1.45 um	1.46 um	885 nm
Asymmetry	0.683		
Theta	73.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2126.248 (brightness)

B = 139.870 (background)

a = 0.845 px

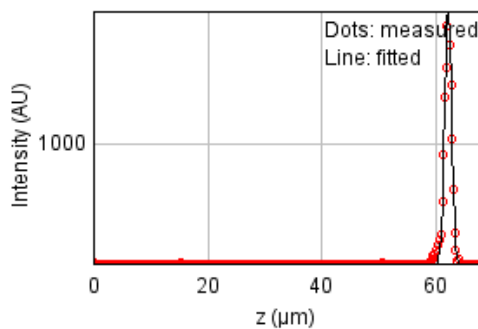
b = 0.126 px

c = 0.448 px

xc = 5.442 px

yc = 5.956 px

Z profile & fitting parameters:



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

Sum of residuals squared: 123367.298

Standard deviation: 20.04614

R^2 : 0.99272

Parameters:

a = 115.86664

b = 1988.09360

c = 62.18436

d = 0.61571

Bead 2875

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

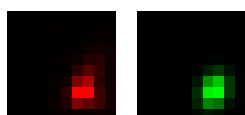
Coordinates : 41.7 μm (x), 53.9 μm (y), 62.2 μm (z)

Corresponding bead : Not found

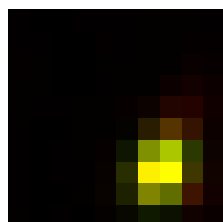
FWHM	Non corrected	Corrected	Theoretical
min	399 nm	412 nm	223 nm
max	522 nm	539 nm	223 nm
z	1.17 μm	1.18 μm	885 nm
Asymmetry	0.764		
Theta	66.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1587.659$ (brightness)

$B = 129.006$ (background)

$a = 0.790$ px

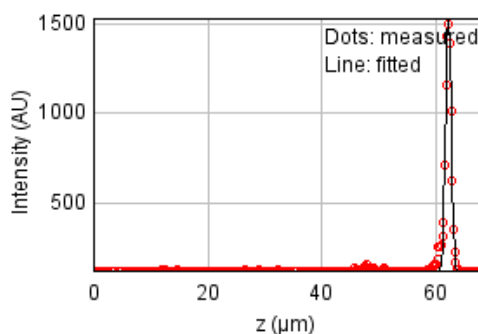
$b = 0.128$ px

$c = 0.548$ px

$x_c = 6.570$ px

$y_c = 6.831$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 91047.9090

Standard deviation: 17.22129

$R^2: 0.98846$

Parameters:

$a = 116.73488$

$b = 1529.82651$

$c = 62.22557$

$d = 0.49779$

Bead 2876

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

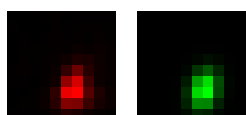
Coordinates : -10.9 μm (x), 47.1 μm (y), 62.3 μm (z)

Corresponding bead : Not found

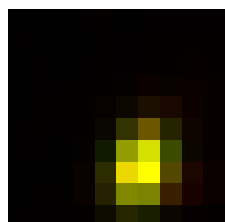
FWHM	Non corrected	Corrected	Theoretical
min	426 nm	440 nm	223 nm
max	598 nm	618 nm	223 nm
z	1.2 μm	1.2 μm	885 nm
Asymmetry	0.712		
Theta	74.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1660.257 (brightness)

B = 126.209 (background)

a = 0.714 px

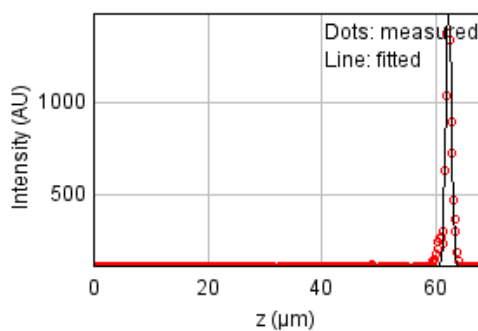
b = 0.093 px

c = 0.401 px

$x_c = 5.647$ px

$y_c = 6.754$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 180367.783

Standard deviation: 24.23875

R^2 : 0.97633

Parameters:

a = 116.67687

b = 1482.02130

c = 62.26865

d = 0.50902

Bead 2877

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

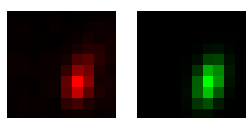
Coordinates : 81.7 um (x), 42.7 um (y), 61.7 um (z)

Corresponding bead : Not found

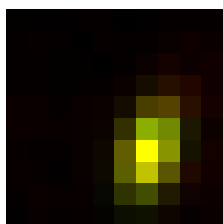
FWHM	Non corrected	Corrected	Theoretical
min	405 nm	419 nm	223 nm
max	690 nm	713 nm	223 nm
z	1.29 um	1.3 um	885 nm
Asymmetry	0.587		
Theta	73.3°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.967$



Parameters:

A = 736.740 (brightness)

B = 124.228 (background)

a = 0.774 px

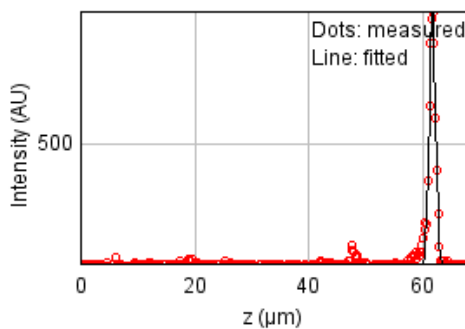
b = 0.148 px

c = 0.327 px

xc = 6.150 px

yc = 6.017 px

Z profile & fitting parameters:



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

Sum of residuals squared: 60024.4894

Standard deviation: 13.98283

R^2 : 0.97952

Parameters:

a = 117.62367

b = 934.60869

c = 61.70499

d = 0.54959

Bead 2878

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

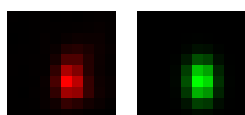
Coordinates : 6.24 μm (x), 42.7 μm (y), 62.5 μm (z)

Corresponding bead : Not found

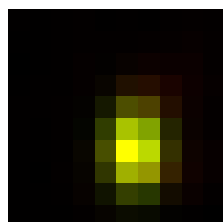
FWHM	Non corrected	Corrected	Theoretical
min	447 nm	462 nm	223 nm
max	645 nm	666 nm	223 nm
z	1.34 μm	1.35 μm	885 nm
Asymmetry	0.694		
Theta	-89.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.976$



Parameters:

A = 2769.263 (brightness)

B = 148.624 (background)

a = 0.671 px

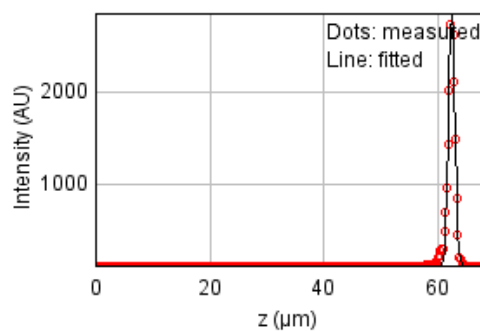
b = -0.005 px

c = 0.323 px

$x_c = 5.375$ px

$y_c = 5.927$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 237862.230

Standard deviation: 27.83515

R^2 : 0.99294

Parameters:

a = 116.91982

b = 2857.59788

c = 62.46694

d = 0.57021

Bead 2879 (Rejected)

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

Coordinates : -36.7 μm (x), 42.3 μm (y), 62.1 μm (z)

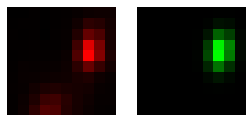
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

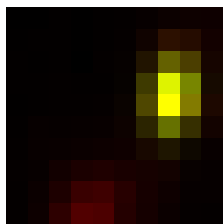
FWHM	Non corrected	Corrected	Theoretical
min	363 nm	375 nm	223 nm
max	562 nm	581 nm	223 nm
z	1.33 μm	1.33 μm	885 nm
Asymmetry	0.646		
Theta	83.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.869$



Parameters:

A = 1870.187 (brightness)

B = 195.487 (background)

a = 1.009 px

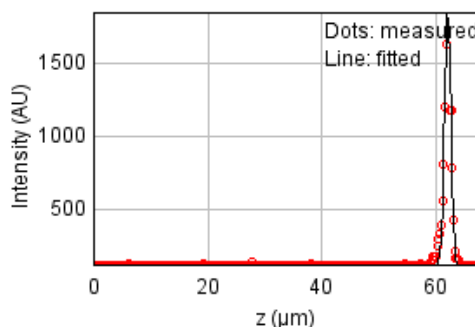
b = 0.070 px

c = 0.433 px

xc = 7.169 px

yc = 3.532 px

Z profile & fitting parameters:



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

Sum of residuals squared: 254267.744

Standard deviation: 28.77905

R^2 : 0.98136

Parameters:

a = 117.03991

b = 1859.56203

c = 62.09753

d = 0.56401

Bead 2880

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

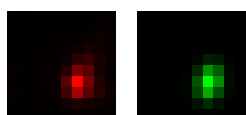
Coordinates : 51.7 μm (x), 35.2 μm (y), 62.2 μm (z)

Corresponding bead : Not found

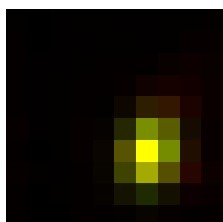
FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	531 nm	549 nm	223 nm
z	1.3 μm	1.3 μm	885 nm
Asymmetry	0.736		
Theta	77.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1890.323 (brightness)

B = 140.682 (background)

a = 0.859 px

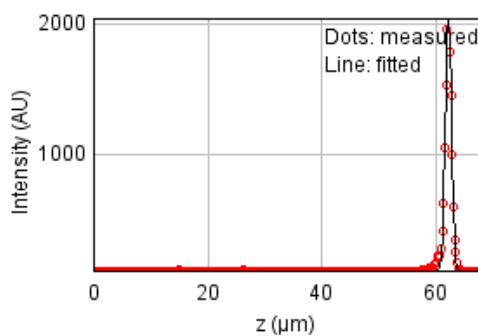
b = 0.088 px

c = 0.496 px

$x_c = 6.141$ px

$y_c = 6.062$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 80880.2934

Standard deviation: 16.23126

R^2 : 0.99496

Parameters:

a = 115.53535

b = 2040.96283

c = 62.23551

d = 0.55056

Bead 2881

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

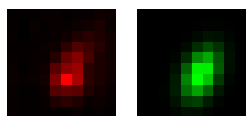
Coordinates : 84.1 μm (x), 35.3 μm (y), 61.5 μm (z)

Corresponding bead : Not found

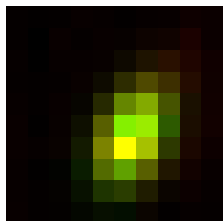
FWHM	Non corrected	Corrected	Theoretical
min	502 nm	519 nm	223 nm
max	822 nm	849 nm	223 nm
z	1.55 μm	1.56 μm	885 nm
Asymmetry	0.611		
Theta	64.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 629.991 (brightness)

B = 121.861 (background)

a = 0.472 px

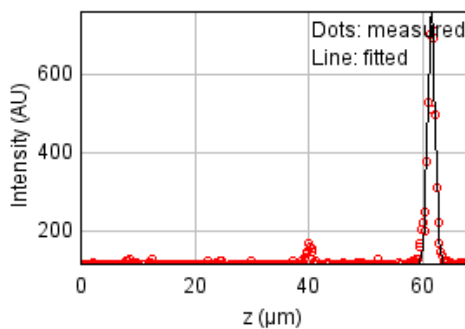
b = 0.129 px

c = 0.260 px

$x_c = 5.359$ px

$y_c = 5.442$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 145638.161

Standard deviation: 21.78053

R^2 : 0.93675

Parameters:

a = 114.81502

b = 763.58028

c = 61.53647

d = 0.65883

Bead 2882 (Rejected)

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

Coordinates : -23.5 μm (x), 17.2 μm (y), 62.7 μm (z)

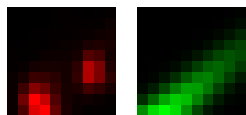
Corresponding bead : Not found

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

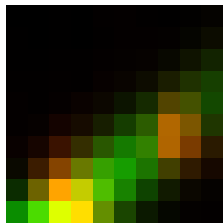
FWHM	Non corrected	Corrected	Theoretical
min	604 nm	624 nm	223 nm
max	10.7 μm	11.1 μm	223 nm
z	1.46 μm	1.47 μm	885 nm
Asymmetry	0.056		
Theta	39.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.571$



Parameters:

A = 74243.942 (brightness)

B = 150.224 (background)

a = 0.147 px

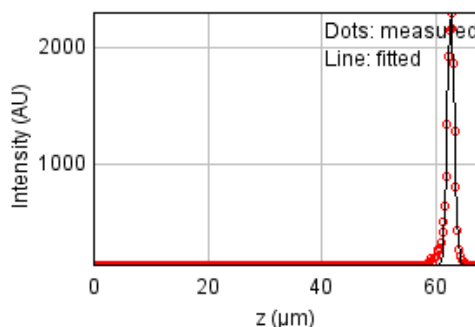
b = 0.180 px

c = 0.222 px

xc = -42.948 px

yc = 45.875 px

Z profile & fitting parameters:



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

Sum of residuals squared: 275956.683

Standard deviation: 29.98136

R^2 : 0.98833

Parameters:

a = 116.40896

b = 2312.14906

c = 62.67291

d = 0.62212

Bead 2883

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

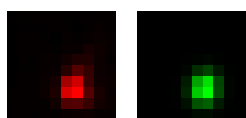
Coordinates : 74.9 μm (x), 26.0 μm (y), 62.2 μm (z)

Corresponding bead : Not found

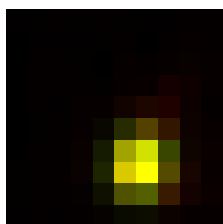
FWHM	Non corrected	Corrected	Theoretical
min	423 nm	438 nm	223 nm
max	495 nm	512 nm	223 nm
z	1.21 μm	1.21 μm	885 nm
Asymmetry	0.856		
Theta	78.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1548.682 (brightness)

B = 127.874 (background)

a = 0.740 px

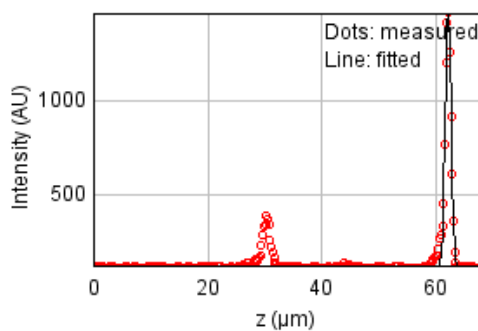
b = 0.040 px

c = 0.557 px

xc = 5.680 px

yc = 6.640 px

Z profile & fitting parameters:



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

Sum of residuals squared: 489911.901

Standard deviation: 39.94752

R^2 : 0.93700

Parameters:

a = 124.47547

b = 1471.92118

c = 62.18472

d = 0.51188

Bead 2884

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

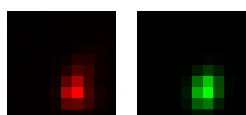
Coordinates : 54.5 μm (x), 17.4 μm (y), 62.5 μm (z)

Corresponding bead : Not found

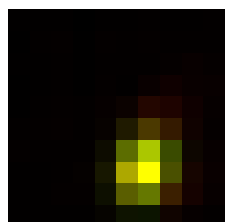
FWHM	Non corrected	Corrected	Theoretical
min	405 nm	419 nm	223 nm
max	530 nm	548 nm	223 nm
z	1.16 μm	1.16 μm	885 nm
Asymmetry	0.765		
Theta	73.4°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.964$



Parameters:

$A = 1657.620$ (brightness)

$B = 128.977$ (background)

$a = 0.789$ px

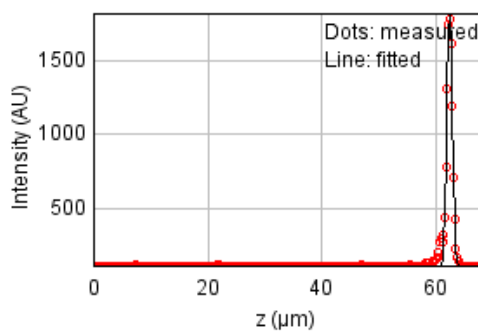
$b = 0.093$ px

$c = 0.505$ px

$x_c = 5.792$ px

$y_c = 6.785$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 123871.919

Standard deviation: 20.08710

$R^2: 0.98898$

Parameters:

$a = 116.06502$

$b = 1815.15193$

$c = 62.45014$

$d = 0.49073$

Bead 2885

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

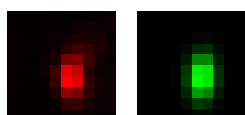
Coordinates : 8.24 μm (x), -2.76 μm (y), 61.6 μm (z)

Corresponding bead : Not found

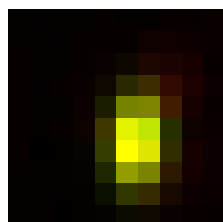
FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	701 nm	724 nm	223 nm
z	1.31 μm	1.31 μm	885 nm
Asymmetry	0.597		
Theta	86.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1208.559 (brightness)

B = 131.445 (background)

a = 0.765 px

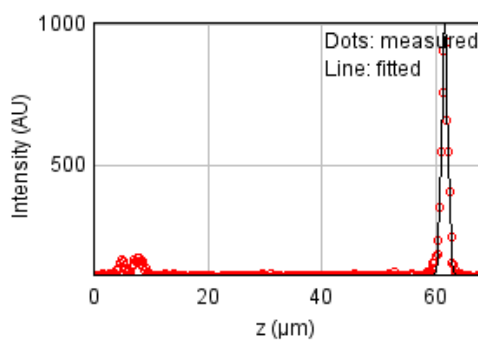
b = 0.030 px

c = 0.275 px

$x_c = 5.446$ px

$y_c = 5.561$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 83758.5033

Standard deviation: 16.51754

R^2 : 0.97598

Parameters:

a = 117.86953

b = 1003.19710

c = 61.59317

d = 0.55508

Bead 2886 (Rejected)

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

Coordinates : 48.4 μm (x), -5.06 μm (y), 47.8 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	1.36 μm	1.36 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

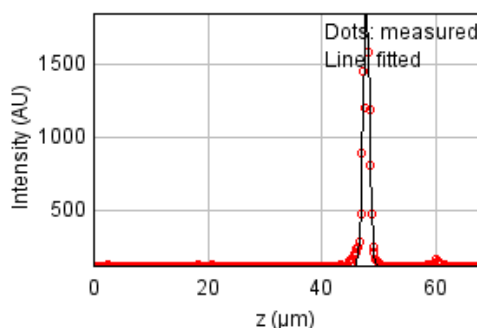
XY profile & fitting parameters :

(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: 318508.316

Standard deviation: 32.21004

R^2 : 0.97770

Parameters:

$a = 118.80753$

$b = 1879.29455$

$c = 47.84226$

$d = 0.57663$

Bead 2887

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

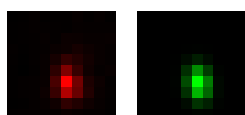
Coordinates : -115 μm (x), -11.7 μm (y), 61.8 μm (z)

Corresponding bead : Not found

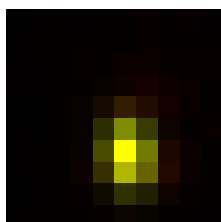
FWHM	Non corrected	Corrected	Theoretical
min	369 nm	381 nm	223 nm
max	536 nm	554 nm	223 nm
z	1.17 μm	1.18 μm	885 nm
Asymmetry	0.688		
Theta	-82.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.979$



Parameters:

A = 1371.221 (brightness)

B = 128.524 (background)

a = 0.979 px

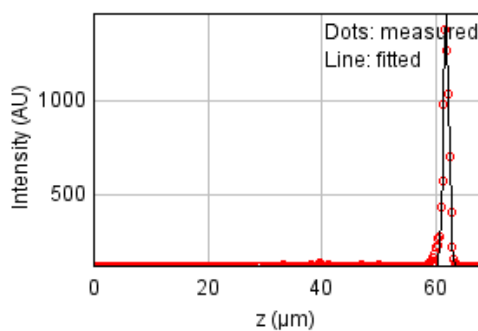
b = -0.064 px

c = 0.475 px

$x_c = 5.137$ px

$y_c = 6.163$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 84202.4942

Standard deviation: 16.56126

R^2 : 0.98824

Parameters:

a = 115.35416

b = 1459.96639

c = 61.82575

d = 0.49881

Bead 2888

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

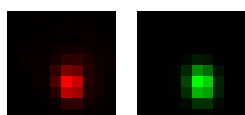
Coordinates : 126 μm (x), -27.3 μm (y), 61.8 μm (z)

Corresponding bead : Not found

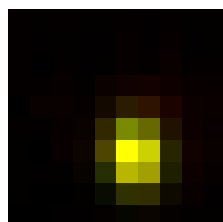
FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	532 nm	550 nm	223 nm
z	1.26 μm	1.27 μm	885 nm
Asymmetry	0.789		
Theta	-82.4°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.984$



Parameters:

$A = 1142.088$ (brightness)

$B = 124.579$ (background)

$a = 0.755$ px

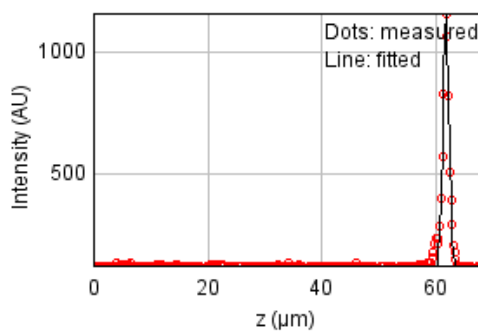
$b = -0.038$ px

$c = 0.479$ px

$x_c = 5.374$ px

$y_c = 6.176$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 80706.7749

Standard deviation: 16.21384

$R^2: 0.98294$

Parameters:

$a = 112.43701$

$b = 1163.71866$

$c = 61.79884$

$d = 0.53718$

Bead 2889

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

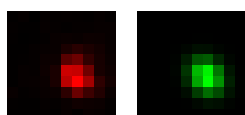
Coordinates : 122 μm (x), -27.4 μm (y), 61.9 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	488 nm	504 nm	223 nm
max	584 nm	604 nm	223 nm
z	1.38 μm	1.39 μm	885 nm
Asymmetry	0.835		
Theta	-51.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 867.540$ (brightness)

$B = 116.740$ (background)

$a = 0.498$ px

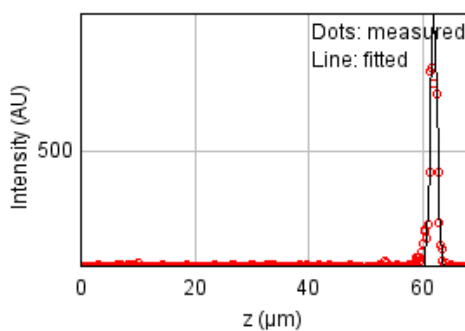
$b = -0.083$ px

$c = 0.460$ px

$x_c = 5.863$ px

$y_c = 5.535$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 183723.536

Standard deviation: 24.46320

$R^2: 0.94951$

Parameters:

$a = 112.73993$

$b = 981.46424$

$c = 61.94075$

$d = 0.58629$

Bead 2890 (Rejected)

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

Coordinates : 53.4 μm (x), -44.8 μm (y), 62.5 μm (z)

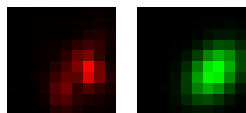
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

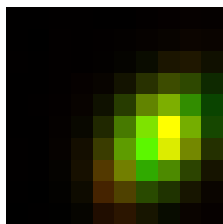
FWHM	Non corrected	Corrected	Theoretical
min	644 nm	666 nm	223 nm
max	924 nm	955 nm	223 nm
z	1.23 μm	1.23 μm	885 nm
Asymmetry	0.697		
Theta	49.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.821$



Parameters:

A = 1344.705 (brightness)

B = 138.466 (background)

a = 0.252 px

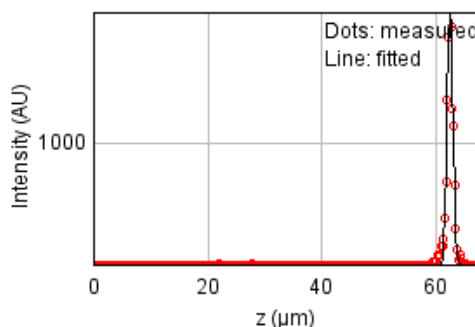
b = 0.082 px

c = 0.228 px

xc = 6.580 px

yc = 5.476 px

Z profile & fitting parameters:



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

Sum of residuals squared: 169465.456

Standard deviation: 23.49478

R^2 : 0.98783

Parameters:

a = 114.64618

b = 1948.70797

c = 62.52509

d = 0.52180

Bead 2891 (Rejected)

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

Coordinates : 149 μm (x), -69.5 μm (y), 61.8 μm (z)

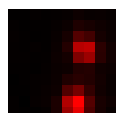
Corresponding bead : Not found

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	1.25 μm	1.26 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

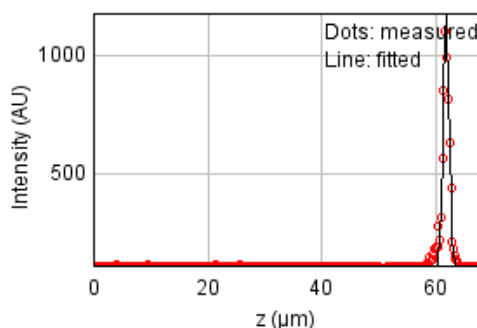
XY profile & fitting parameters :

(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: 87579.2415

Standard deviation: 16.89007

R²: 0.98182

Parameters:

a = 111.93598

b = 1177.73496

c = 61.82515

d = 0.53170

Bead 2892

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

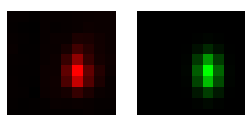
Coordinates : -150 μm (x), -85.6 μm (y), 61.9 μm (z)

Corresponding bead : Not found

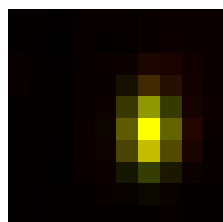
FWHM	Non corrected	Corrected	Theoretical
min	370 nm	382 nm	223 nm
max	571 nm	590 nm	223 nm
z	1.28 μm	1.29 μm	885 nm
Asymmetry	0.648		
Theta	-89.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1574.059 (brightness)

B = 140.614 (background)

a = 0.982 px

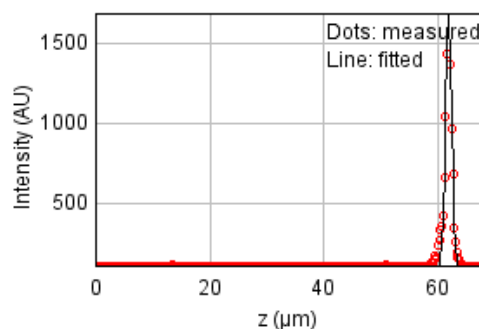
b = -0.003 px

c = 0.412 px

xc = 6.020 px

yc = 5.129 px

Z profile & fitting parameters:



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

Sum of residuals squared: 137806.387

Standard deviation: 21.18681

R^2 : 0.98744

Parameters:

a = 113.48422

b = 1708.75474

c = 61.90988

d = 0.54384

Bead 2893

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

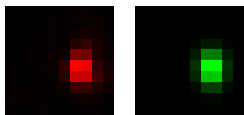
Coordinates : 73.6 μm (x), -90.0 μm (y), 62.0 μm (z)

Corresponding bead : Not found

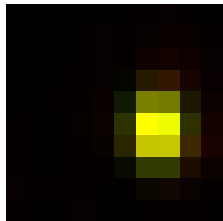
FWHM	Non corrected	Corrected	Theoretical
min	404 nm	417 nm	223 nm
max	529 nm	547 nm	223 nm
z	1.34 μm	1.35 μm	885 nm
Asymmetry	0.763		
Theta	-87.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.984$



Parameters:

A = 1680.208 (brightness)

B = 128.143 (background)

a = 0.823 px

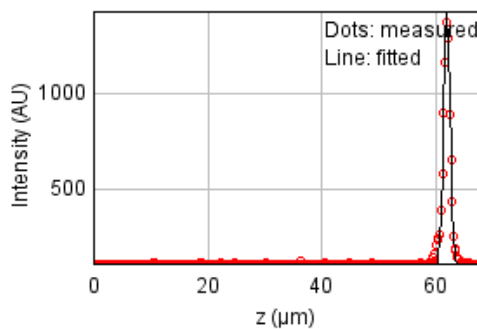
b = -0.015 px

c = 0.480 px

xc = 6.495 px

yc = 5.240 px

Z profile & fitting parameters:



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

Sum of residuals squared: 74136.1289

Standard deviation: 15.53981

R^2 : 0.99056

Parameters:

a = 114.32610

b = 1435.93447

c = 61.95445

d = 0.56970

Bead 2894

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

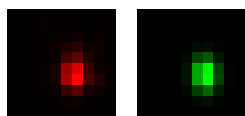
Coordinates : -103 μm (x), 95.8 μm (y), 62.4 μm (z)

Corresponding bead : Not found

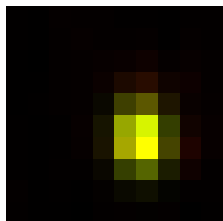
FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	525 nm	543 nm	223 nm
z	1.15 μm	1.15 μm	885 nm
Asymmetry	0.744		
Theta	-86.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1790.517 (brightness)

B = 129.606 (background)

a = 0.877 px

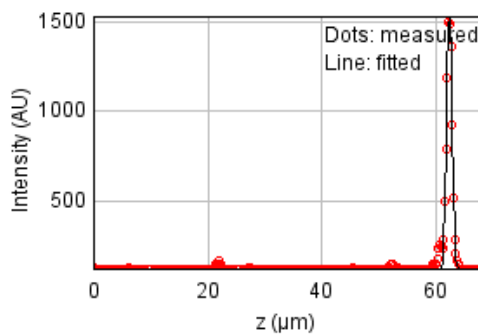
b = -0.023 px

c = 0.488 px

$x_c = 5.731$ px

$y_c = 5.537$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 100781.579

Standard deviation: 18.11846

R^2 : 0.98731

Parameters:

a = 117.12899

b = 1548.97516

c = 62.39943

d = 0.48726

Bead 2895

Date : Mon Oct 17 13:30:09 PDT 2022

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

Frame size : 10 pixels

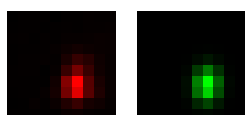
Coordinates : -38.5 μm (x), 92.8 μm (y), 62.2 μm (z)

Corresponding bead : Not found

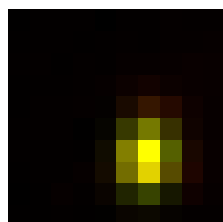
FWHM	Non corrected	Corrected	Theoretical
min	399 nm	413 nm	223 nm
max	534 nm	552 nm	223 nm
z	1.15 μm	1.16 μm	885 nm
Asymmetry	0.748		
Theta	86.4°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.977$



Parameters:

A = 1852.507 (brightness)

B = 134.083 (background)

a = 0.841 px

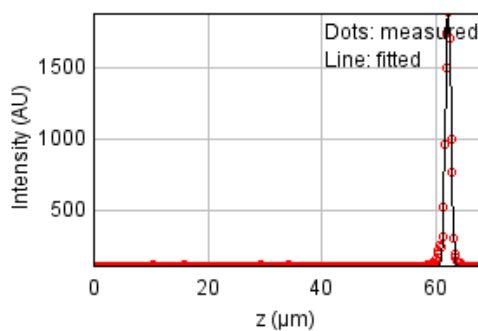
b = 0.023 px

c = 0.473 px

$x_c = 5.910$ px

$y_c = 6.294$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 111917.113

Standard deviation: 19.09321

R^2 : 0.99087

Parameters:

a = 115.55512

b = 1894.90793

c = 62.18551

d = 0.48857

Bead 2896

Date : Mon Oct 17 13:30:10 PDT 2022

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

Frame size : 10 pixels

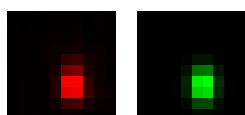
Coordinates : -79.7 μm (x), 89.7 μm (y), 62.5 μm (z)

Corresponding bead : Not found

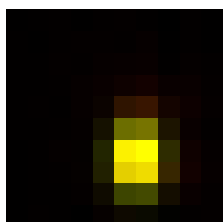
FWHM	Non corrected	Corrected	Theoretical
min	385 nm	398 nm	223 nm
max	534 nm	553 nm	223 nm
z	1.11 μm	1.12 μm	885 nm
Asymmetry	0.721		
Theta	-89.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.985$



Parameters:

A = 2682.684 (brightness)

B = 136.830 (background)

a = 0.904 px

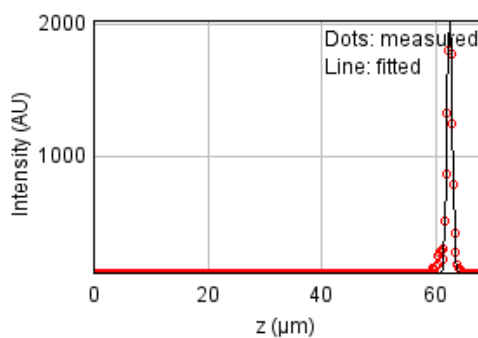
b = -0.002 px

c = 0.470 px

xc = 5.533 px

yc = 6.338 px

Z profile & fitting parameters:



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

Sum of residuals squared: 135897.017

Standard deviation: 21.03952

R^2 : 0.99004

Parameters:

a = 116.29492

b = 2022.88171

c = 62.46202

d = 0.47277

Bead 2897

Date : Mon Oct 17 13:30:10 PDT 2022

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

Frame size : 10 pixels

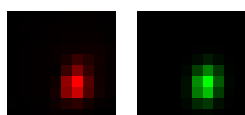
Coordinates : -63.4 μm (x), 88.8 μm (y), 62.4 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	402 nm	416 nm	223 nm
max	534 nm	552 nm	223 nm
z	1.13 μm	1.14 μm	885 nm
Asymmetry	0.752		
Theta	79.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1995.161 (brightness)

B = 129.954 (background)

a = 0.818 px

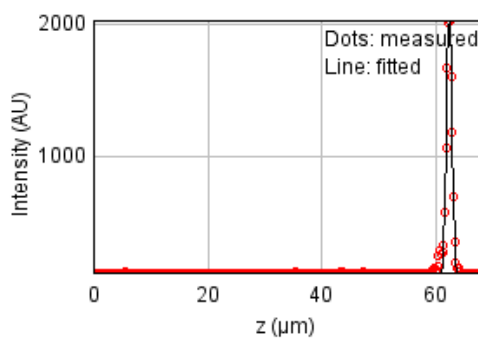
b = 0.067 px

c = 0.483 px

$x_c = 5.844$ px

$y_c = 6.234$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 112875.338

Standard deviation: 19.17478

R^2 : 0.99219

Parameters:

a = 116.50927

b = 2063.88456

c = 62.38113

d = 0.48162

Bead 2898

Date : Mon Oct 17 13:30:10 PDT 2022

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

Frame size : 10 pixels

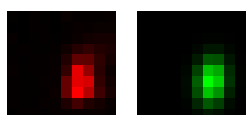
Coordinates : -17.3 μm (x), 87.3 μm (y), 62.0 μm (z)

Corresponding bead : Not found

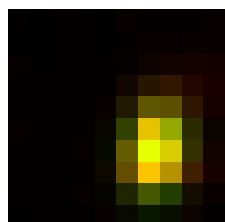
FWHM	Non corrected	Corrected	Theoretical
min	466 nm	482 nm	223 nm
max	709 nm	733 nm	223 nm
z	1.59 μm	1.6 μm	885 nm
Asymmetry	0.657		
Theta	83.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 916.755 (brightness)

B = 122.526 (background)

a = 0.614 px

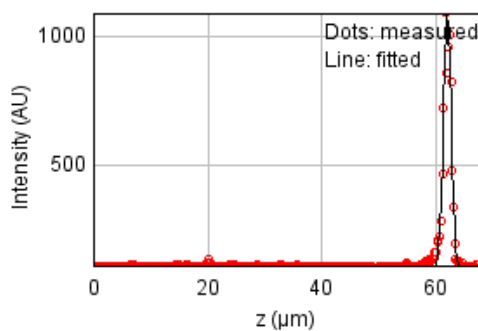
b = 0.038 px

c = 0.271 px

xc = 6.325 px

yc = 5.968 px

Z profile & fitting parameters:



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

Sum of residuals squared: 165469.286

Standard deviation: 23.21611

R^2 : 0.96765

Parameters:

a = 114.77081

b = 1084.63186

c = 62.03392

d = 0.67704

Bead 2899

Date : Mon Oct 17 13:30:10 PDT 2022

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

Frame size : 10 pixels

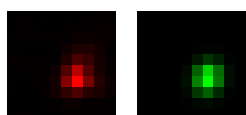
Coordinates : -21.1 μm (x), 87.0 μm (y), 62.2 μm (z)

Corresponding bead : Not found

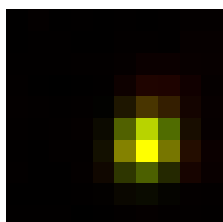
FWHM	Non corrected	Corrected	Theoretical
min	426 nm	441 nm	223 nm
max	485 nm	501 nm	223 nm
z	1.33 μm	1.33 μm	885 nm
Asymmetry	0.88		
Theta	71.4°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.964$



Parameters:

A = 1303.678 (brightness)

B = 127.643 (background)

a = 0.721 px

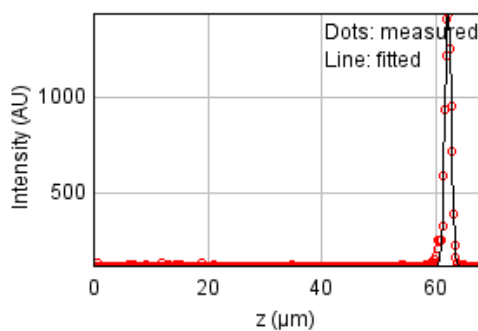
b = 0.050 px

c = 0.588 px

$x_c = 5.990$ px

$y_c = 5.665$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 61330.1076

Standard deviation: 14.13408

R^2 : 0.99226

Parameters:

a = 115.59783

b = 1450.12645

c = 62.16937

d = 0.56466

Bead 2900

Date : Mon Oct 17 13:30:10 PDT 2022

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

Frame size : 10 pixels

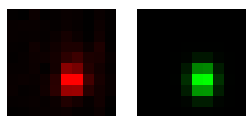
Coordinates : -164 μm (x), 84.7 μm (y), 61.5 μm (z)

Corresponding bead : Not found

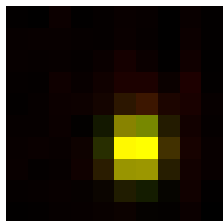
FWHM	Non corrected	Corrected	Theoretical
min	401 nm	415 nm	223 nm
max	480 nm	497 nm	223 nm
z	1.31 μm	1.31 μm	885 nm
Asymmetry	0.835		
Theta	88.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 516.388 (brightness)

B = 113.303 (background)

a = 0.834 px

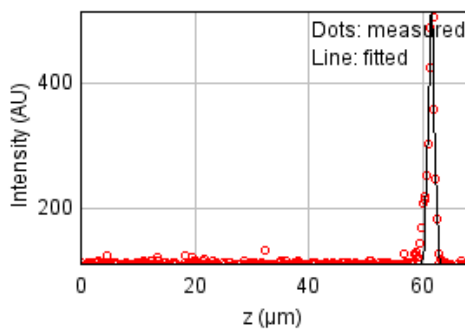
b = 0.007 px

c = 0.582 px

xc = 5.514 px

yc = 6.051 px

Z profile & fitting parameters:



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

Sum of residuals squared: 37644.3249

Standard deviation: 11.07339

R^2 : 0.94996

Parameters:

a = 111.70716

b = 517.61253

c = 61.51476

d = 0.55445