

Bead 2201

Date : Mon Oct 17 13:29:34 PDT 2022

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

Frame size : 10 pixels

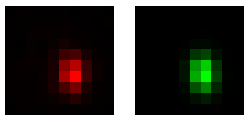
Coordinates : -137 μm (x), 16.3 μm (y), 48.5 μm (z)

Corresponding bead : Not found

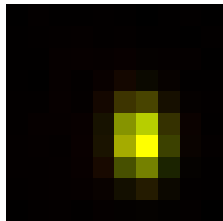
FWHM	Non corrected	Corrected	Theoretical
min	388 nm	401 nm	223 nm
max	548 nm	567 nm	223 nm
z	1.22 μm	1.23 μm	885 nm
Asymmetry	0.708		
Theta	-85.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1397.466 (brightness)

B = 125.290 (background)

a = 0.887 px

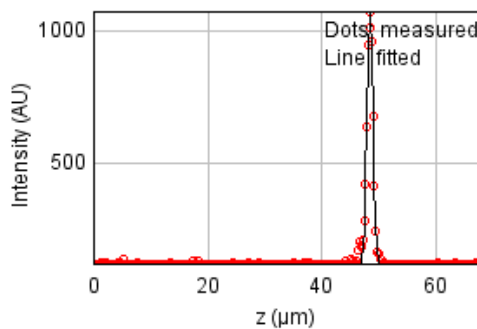
b = -0.036 px

c = 0.449 px

xc = 5.714 px

yc = 5.717 px

Z profile & fitting parameters:



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

Sum of residuals squared: 42987.8394

Standard deviation: 11.83324

R^2 : 0.98915

Parameters:

a = 112.55018

b = 1094.74878

c = 48.51427

d = 0.51841

Bead 2202 (Rejected)

Date : Mon Oct 17 13:29:34 PDT 2022

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

Frame size : 10 pixels

Coordinates : 3.74 μm (x), 4.4 μm (y), 41.4 μm (z)

Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.39 μm	1.4 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

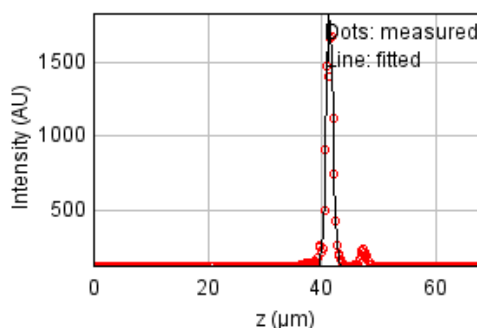
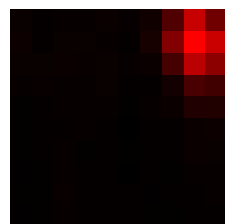
XY profile & fitting parameters :

(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: 517278.817

Standard deviation: 41.04811

R^2 : 0.96351

Parameters:

a = 117.80324

b = 1837.88595

c = 41.40483

d = 0.59126

Bead 2203

Date : Mon Oct 17 13:29:34 PDT 2022

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

Frame size : 10 pixels

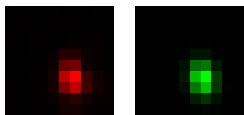
Coordinates : -10.2 μm (x), -13.9 μm (y), 48.6 μm (z)

Corresponding bead : Not found

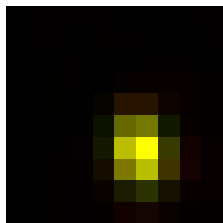
FWHM	Non corrected	Corrected	Theoretical
min	387 nm	400 nm	223 nm
max	515 nm	532 nm	223 nm
z	1.13 μm	1.13 μm	885 nm
Asymmetry	0.752		
Theta	-77.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2077.081 (brightness)

B = 126.402 (background)

a = 0.877 px

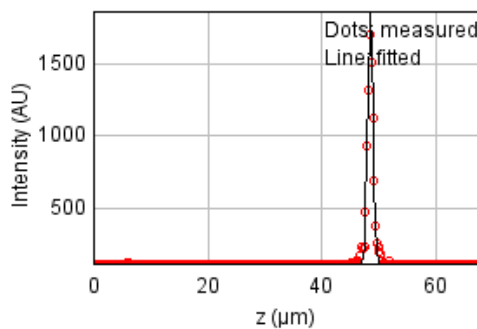
b = -0.080 px

c = 0.523 px

$x_c = 5.687$ px

$y_c = 6.172$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 123985.125

Standard deviation: 20.09628

R^2 : 0.98938

Parameters:

a = 115.67635

b = 1869.40969

c = 48.57108

d = 0.47797

Bead 2204

Date : Mon Oct 17 13:29:34 PDT 2022

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

Frame size : 10 pixels

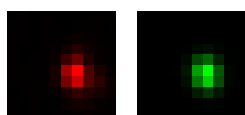
Coordinates : 16.9 μm (x), -60.1 μm (y), 48.5 μm (z)

Corresponding bead : Not found

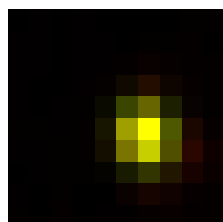
FWHM	Non corrected	Corrected	Theoretical
min	415 nm	429 nm	223 nm
max	489 nm	505 nm	223 nm
z	1.18 μm	1.18 μm	885 nm
Asymmetry	0.849		
Theta	-76.9°		

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:

$A = 2220.679$ (brightness)

$B = 134.755$ (background)

$a = 0.767$ px

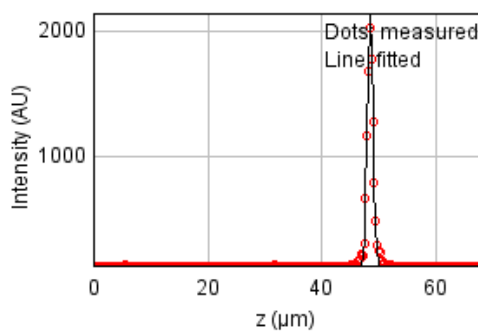
$b = -0.048$ px

$c = 0.573$ px

$x_c = 5.827$ px

$y_c = 5.300$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 96794.1419

Standard deviation: 17.75642

$R^2: 0.99412$

Parameters:

$a = 116.64272$

$b = 2157.55498$

$c = 48.54478$

$d = 0.50083$

Bead 2205

Date : Mon Oct 17 13:29:34 PDT 2022

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

Frame size : 10 pixels

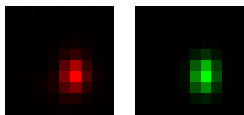
Coordinates : -61.0 μm (x), -79.8 μm (y), 48.7 μm (z)

Corresponding bead : Not found

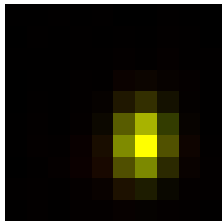
FWHM	Non corrected	Corrected	Theoretical
min	390 nm	404 nm	223 nm
max	524 nm	542 nm	223 nm
z	1.14 μm	1.15 μm	885 nm
Asymmetry	0.745		
Theta	85.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.991$



Parameters:

A = 2200.268 (brightness)

B = 130.741 (background)

a = 0.879 px

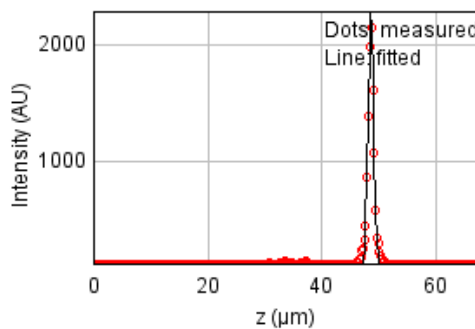
b = 0.028 px

c = 0.491 px

$x_c = 5.850$ px

$y_c = 5.875$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 106263.743

Standard deviation: 18.60473

R^2 : 0.99414

Parameters:

a = 117.14115

b = 2291.12732

c = 48.66218

d = 0.48585

Bead 2206

Date : Mon Oct 17 13:29:34 PDT 2022

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

Frame size : 10 pixels

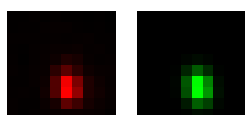
Coordinates : 130 μm (x), -80.4 μm (y), 48.6 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	391 nm	405 nm	223 nm
max	519 nm	537 nm	223 nm
z	1.63 μm	1.64 μm	885 nm
Asymmetry	0.754		
Theta	-80.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1255.304 (brightness)

B = 124.142 (background)

a = 0.865 px

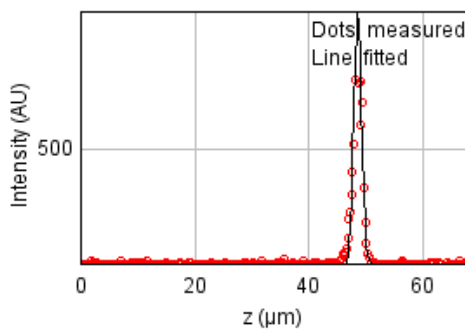
b = -0.063 px

c = 0.508 px

$x_c = 5.156$ px

$y_c = 6.537$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 222945.181

Standard deviation: 26.94821

R^2 : 0.94579

Parameters:

a = 112.13265

b = 962.31736

c = 48.63728

d = 0.69312

Bead 2207

Date : Mon Oct 17 13:29:34 PDT 2022

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

Frame size : 10 pixels

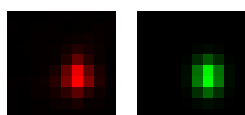
Coordinates : -117 μm (x), -81.7 μm (y), 48.7 μm (z)

Corresponding bead : Not found

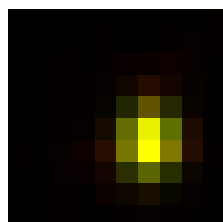
FWHM	Non corrected	Corrected	Theoretical
min	417 nm	431 nm	223 nm
max	518 nm	536 nm	223 nm
z	1.4 μm	1.4 μm	885 nm
Asymmetry	0.805		
Theta	90.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1439.751 (brightness)

B = 127.911 (background)

a = 0.771 px

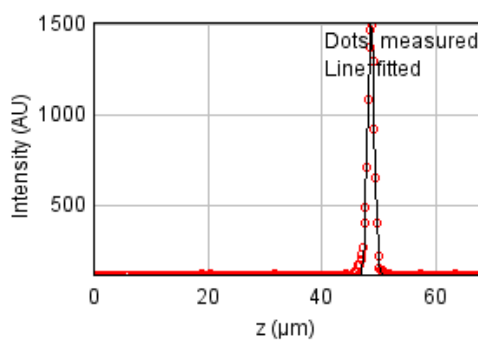
b = 0.000 px

c = 0.500 px

$x_c = 6.002$ px

$y_c = 5.559$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 58306.7485

Standard deviation: 13.78130

R^2 : 0.99368

Parameters:

a = 112.97572

b = 1518.28566

c = 48.68294

d = 0.59428

Bead 2208

Date : Mon Oct 17 13:29:35 PDT 2022

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

Frame size : 10 pixels

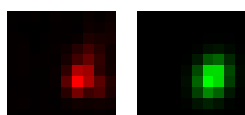
Coordinates : 87.9 μm (x), 72.7 μm (y), 49.1 μm (z)

Corresponding bead : Not found

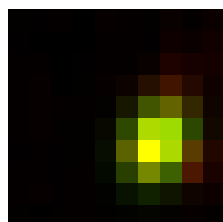
FWHM	Non corrected	Corrected	Theoretical
min	477 nm	493 nm	223 nm
max	611 nm	632 nm	223 nm
z	1.7 μm	1.71 μm	885 nm
Asymmetry	0.78		
Theta	66.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 736.846 (brightness)

B = 120.637 (background)

a = 0.554 px

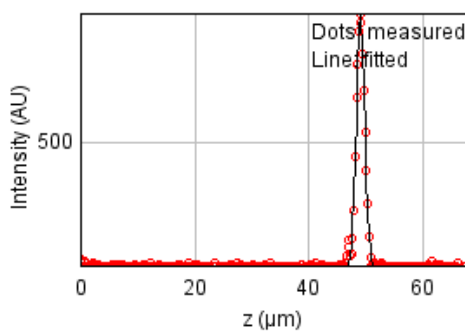
b = 0.084 px

c = 0.396 px

xc = 6.410 px

yc = 5.613 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29385.9688

Standard deviation: 9.78365

R^2 : 0.99177

Parameters:

a = 113.20979

b = 907.80755

c = 49.11895

d = 0.72308

Bead 2209

Date : Mon Oct 17 13:29:35 PDT 2022

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

Frame size : 10 pixels

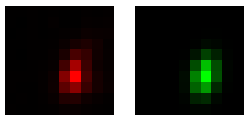
Coordinates : 7.68 μm (x), 47.1 μm (y), 49.1 μm (z)

Corresponding bead : Not found

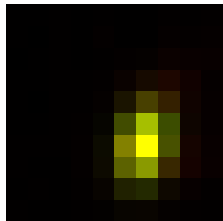
FWHM	Non corrected	Corrected	Theoretical
min	378 nm	391 nm	223 nm
max	597 nm	618 nm	223 nm
z	1.07 μm	1.07 μm	885 nm
Asymmetry	0.633		
Theta	77.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1982.134 (brightness)

B = 133.763 (background)

a = 0.913 px

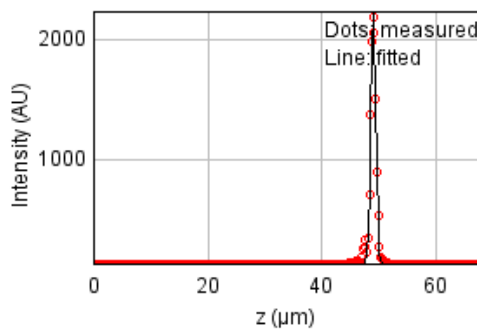
b = 0.117 px

c = 0.401 px

$x_c = 5.887$ px

$y_c = 5.897$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 126453.025

Standard deviation: 20.29530

R^2 : 0.99223

Parameters:

a = 115.20954

b = 2244.54797

c = 49.09062

d = 0.45259

Bead 2210

Date : Mon Oct 17 13:29:35 PDT 2022

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

Frame size : 10 pixels

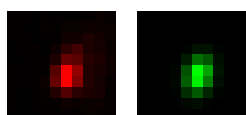
Coordinates : 122 μm (x), 39.5 μm (y), 48.6 μm (z)

Corresponding bead : Not found

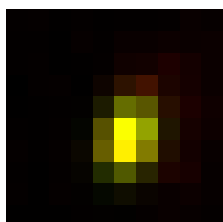
FWHM	Non corrected	Corrected	Theoretical
min	402 nm	415 nm	223 nm
max	560 nm	579 nm	223 nm
z	1.38 μm	1.38 μm	885 nm
Asymmetry	0.717		
Theta	73.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1014.047 (brightness)

B = 128.581 (background)

a = 0.799 px

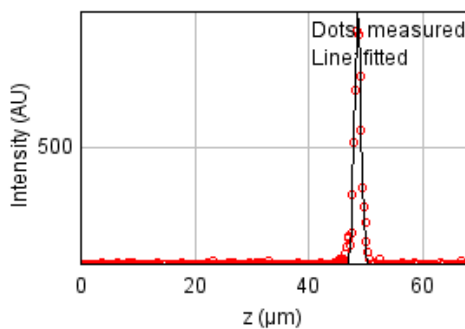
b = 0.111 px

c = 0.461 px

$x_c = 5.166$ px

$y_c = 5.388$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 49965.1401

Standard deviation: 12.75746

R^2 : 0.98472

Parameters:

a = 113.26347

b = 953.11202

c = 48.64739

d = 0.58458

Bead 2211

Date : Mon Oct 17 13:29:35 PDT 2022

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

Frame size : 10 pixels

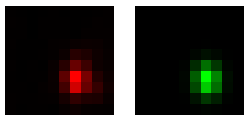
Coordinates : 31.5 μm (x), 20.0 μm (y), 49.2 μm (z)

Corresponding bead : Not found

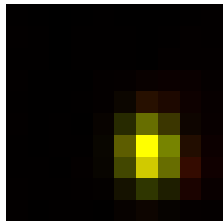
FWHM	Non corrected	Corrected	Theoretical
min	400 nm	414 nm	223 nm
max	499 nm	516 nm	223 nm
z	1.29 μm	1.29 μm	885 nm
Asymmetry	0.802		
Theta	-86.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1997.263$ (brightness)

$B = 134.751$ (background)

$a = 0.835$ px

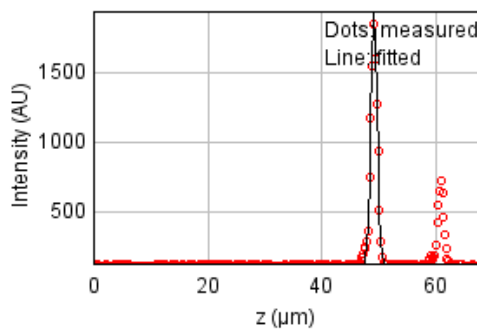
$b = -0.021$ px

$c = 0.540$ px

$x_c = 6.112$ 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: 1549686.26

Standard deviation: 71.04814

$R^2: 0.90203$

Parameters:

$a = 128.31787$

$b = 1953.14890$

$c = 49.20778$

$d = 0.54748$

Bead 2212

Date : Mon Oct 17 13:29:35 PDT 2022

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

Frame size : 10 pixels

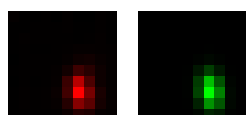
Coordinates : -26.6 μm (x), 17.6 μm (y), 48.9 μm (z)

Corresponding bead : Not found

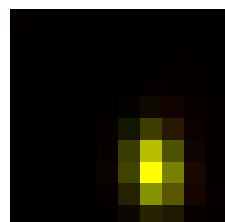
FWHM	Non corrected	Corrected	Theoretical
min	361 nm	373 nm	223 nm
max	569 nm	588 nm	223 nm
z	1.12 μm	1.13 μm	885 nm
Asymmetry	0.635		
Theta	-82.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2030.716 (brightness)

B = 127.889 (background)

a = 1.019 px

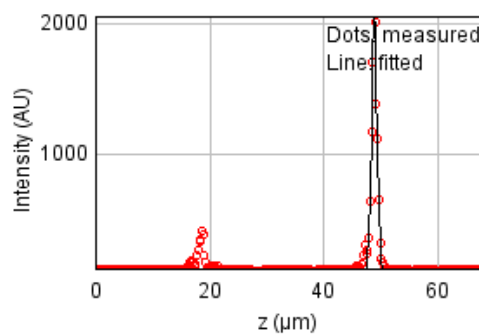
b = -0.079 px

c = 0.425 px

xc = 6.156 px

yc = 6.869 px

Z profile & fitting parameters:



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

Sum of residuals squared: 514405.456

Standard deviation: 40.93394

R^2 : 0.96521

Parameters:

a = 124.29388

b = 2075.78840

c = 48.91872

d = 0.47711

Bead 2213

Date : Mon Oct 17 13:29:35 PDT 2022

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

Frame size : 10 pixels

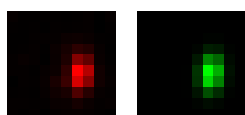
Coordinates : -106 μm (x), -15.0 μm (y), 48.6 μm (z)

Corresponding bead : Not found

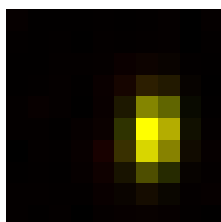
FWHM	Non corrected	Corrected	Theoretical
min	366 nm	379 nm	223 nm
max	572 nm	591 nm	223 nm
z	1.11 μm	1.11 μm	885 nm
Asymmetry	0.64		
Theta	84.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.991$



Parameters:

$A = 1314.330$ (brightness)

$B = 126.696$ (background)

$a = 0.996$ px

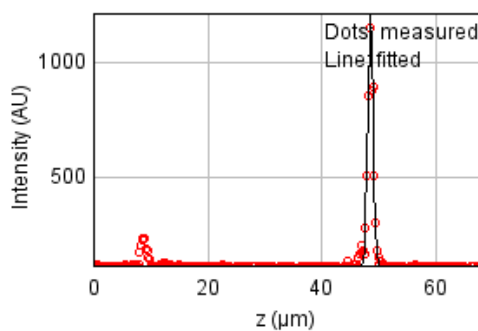
$b = 0.054$ px

$c = 0.415$ px

$x_c = 6.291$ px

$y_c = 5.249$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 175631.407

Standard deviation: 23.91839

$R^2: 0.96156$

Parameters:

$a = 117.97907$

$b = 1208.51071$

$c = 48.59990$

$d = 0.47013$

Bead 2214 (Rejected)

Date : Mon Oct 17 13:29:35 PDT 2022

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

Frame size : 10 pixels

Coordinates : 80.6 μm (x), -25.9 μm (y), 62.7 μm (z)

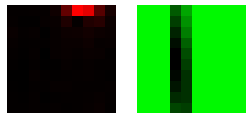
Corresponding bead : Not found

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

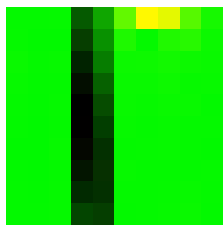
FWHM	Non corrected	Corrected	Theoretical
min	131 nm	135 nm	223 nm
max	2.69 μm	2.78 μm	223 nm
z	1.58 μm	1.59 μm	885 nm
Asymmetry	0.049		
Theta	-89.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.026$



Parameters:

A = -230.266 (brightness)

B = 137.268 (background)

a = 7.865 px

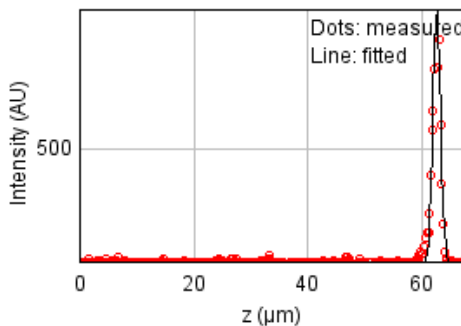
b = -0.037 px

c = 0.019 px

xc = 3.486 px

yc = 5.904 px

Z profile & fitting parameters:



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

Sum of residuals squared: 152977.922

Standard deviation: 22.32262

R^2 : 0.96241

Parameters:

a = 113.39053

b = 979.32959

c = 62.65030

d = 0.67196

Bead 2215

Date : Mon Oct 17 13:29:35 PDT 2022

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

Frame size : 10 pixels

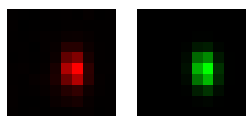
Coordinates : -58.1 μm (x), -41.8 μm (y), 48.7 μm (z)

Corresponding bead : Not found

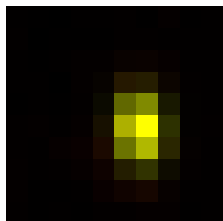
FWHM	Non corrected	Corrected	Theoretical
min	362 nm	374 nm	223 nm
max	534 nm	552 nm	223 nm
z	1.18 μm	1.18 μm	885 nm
Asymmetry	0.678		
Theta	-85.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.991$



Parameters:

A = 1753.683 (brightness)

B = 126.359 (background)

a = 1.019 px

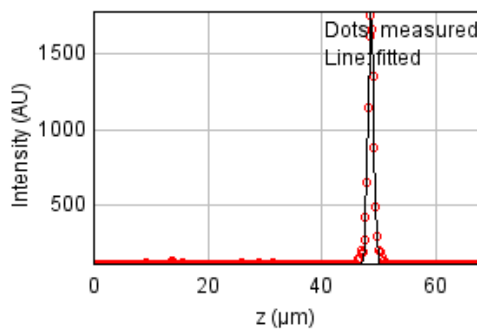
b = -0.047 px

c = 0.474 px

$x_c = 5.690$ px

$y_c = 5.120$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 62374.6531

Standard deviation: 14.25394

R^2 : 0.99428

Parameters:

a = 115.54936

b = 1778.37557

c = 48.66450

d = 0.49983

Bead 2216

Date : Mon Oct 17 13:29:36 PDT 2022

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

Frame size : 10 pixels

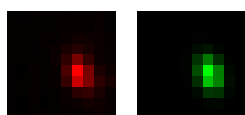
Coordinates : 66.5 μm (x), -84.8 μm (y), 48.4 μm (z)

Corresponding bead : Not found

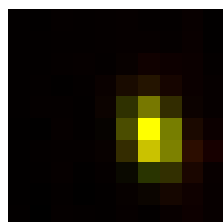
FWHM	Non corrected	Corrected	Theoretical
min	367 nm	380 nm	223 nm
max	534 nm	552 nm	223 nm
z	1.21 μm	1.22 μm	885 nm
Asymmetry	0.688		
Theta	-72.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1011.164$ (brightness)

$B = 121.578$ (background)

$a = 0.948$ px

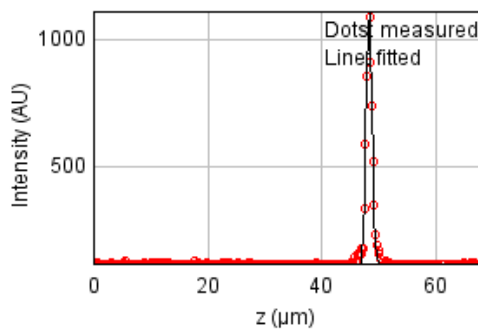
$b = -0.149$ px

$c = 0.517$ px

$x_c = 6.173$ px

$y_c = 5.282$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 50585.7268

Standard deviation: 12.83645

$R^2: 0.98767$

Parameters:

$a = 113.28357$

$b = 1115.00436$

$c = 48.35454$

$d = 0.51516$

Bead 2217

Date : Mon Oct 17 13:29:36 PDT 2022

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

Frame size : 10 pixels

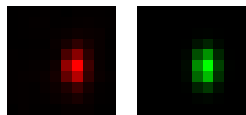
Coordinates : -92.4 μm (x), -84.5 μm (y), 48.7 μm (z)

Corresponding bead : Not found

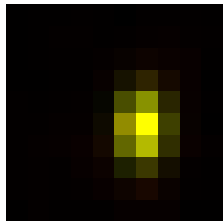
FWHM	Non corrected	Corrected	Theoretical
min	368 nm	380 nm	223 nm
max	552 nm	571 nm	223 nm
z	1.2 μm	1.21 μm	885 nm
Asymmetry	0.666		
Theta	89.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1792.307 (brightness)

B = 131.922 (background)

a = 0.993 px

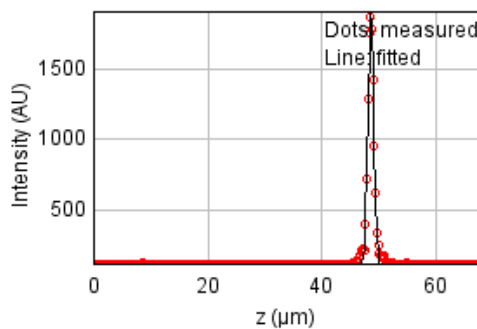
b = 0.008 px

c = 0.440 px

xc = 5.803 px

yc = 5.142 px

Z profile & fitting parameters:



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

Sum of residuals squared: 87396.1392

Standard deviation: 16.87240

R^2 : 0.99331

Parameters:

a = 114.23191

b = 1915.81273

c = 48.66576

d = 0.51014

Bead 2218

Date : Mon Oct 17 13:29:36 PDT 2022

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

Frame size : 10 pixels

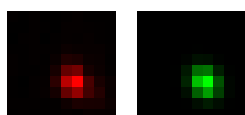
Coordinates : 139 μm (x), -95.1 μm (y), 48.8 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	413 nm	426 nm	223 nm
max	486 nm	503 nm	223 nm
z	1.33 μm	1.33 μm	885 nm
Asymmetry	0.849		
Theta	-54.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 989.647 (brightness)

B = 119.683 (background)

a = 0.715 px

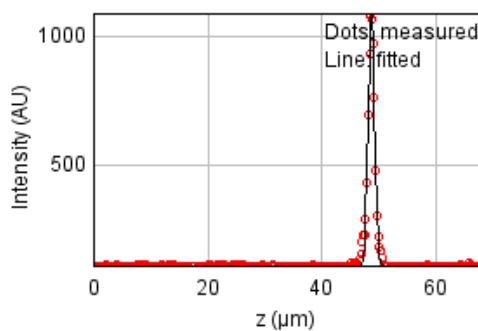
b = -0.104 px

c = 0.641 px

$x_c = 5.711$ px

$y_c = 6.076$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 38861.5560

Standard deviation: 11.25099

R^2 : 0.99108

Parameters:

a = 112.17599

b = 1101.95806

c = 48.75052

d = 0.56386

Bead 2219

Date : Mon Oct 17 13:29:36 PDT 2022

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

Frame size : 10 pixels

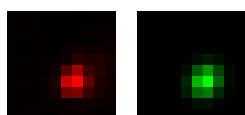
Coordinates : 144 um (x), 29.5 um (y), 49.6 um (z)

Corresponding bead : Not found

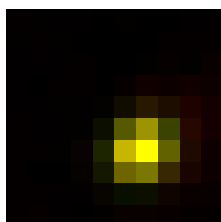
FWHM	Non corrected	Corrected	Theoretical
min	428 nm	442 nm	223 nm
max	487 nm	504 nm	223 nm
z	1.38 um	1.38 um	885 nm
Asymmetry	0.878		
Theta	44.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1106.313 (brightness)

B = 122.438 (background)

a = 0.649 px

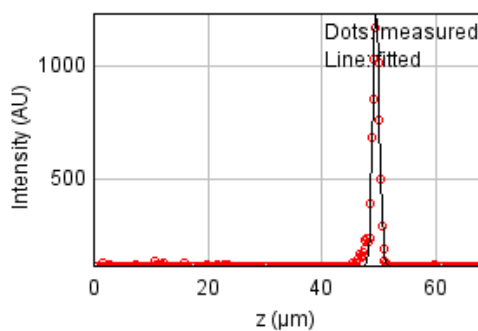
b = 0.084 px

c = 0.651 px

xc = 5.767 px

yc = 5.949 px

Z profile & fitting parameters:



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

Sum of residuals squared: 202571.551

Standard deviation: 25.68739

R^2 : 0.96604

Parameters:

a = 113.34105

b = 1236.33988

c = 49.56289

d = 0.58498

Bead 2220

Date : Mon Oct 17 13:29:36 PDT 2022

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

Frame size : 10 pixels

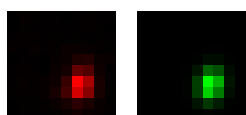
Coordinates : -69.9 μm (x), 19.1 μm (y), 49.0 μm (z)

Corresponding bead : Not found

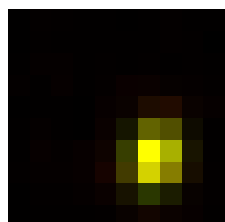
FWHM	Non corrected	Corrected	Theoretical
min	384 nm	396 nm	223 nm
max	491 nm	507 nm	223 nm
z	1.08 μm	1.08 μm	885 nm
Asymmetry	0.782		
Theta	78.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1296.671 (brightness)

B = 121.435 (background)

a = 0.897 px

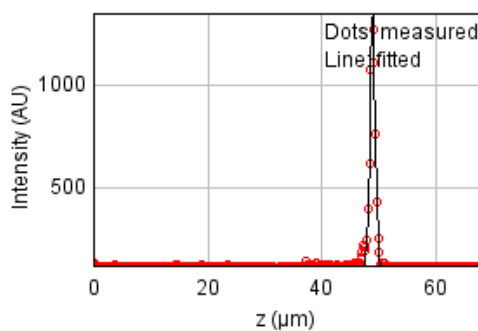
b = 0.072 px

c = 0.573 px

xc = 6.268 px

yc = 6.294 px

Z profile & fitting parameters:



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

Sum of residuals squared: 66813.5601

Standard deviation: 14.75241

R^2 : 0.98849

Parameters:

a = 115.56294

b = 1378.24057

c = 48.96617

d = 0.45769

Bead 2221

Date : Mon Oct 17 13:29:36 PDT 2022

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

Frame size : 10 pixels

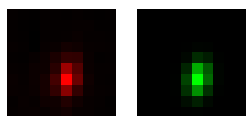
Coordinates : -95.5 μm (x), -12.1 μm (y), 48.7 μm (z)

Corresponding bead : Not found

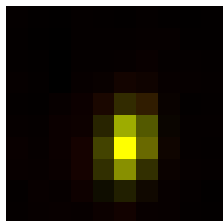
FWHM	Non corrected	Corrected	Theoretical
min	344 nm	356 nm	223 nm
max	536 nm	554 nm	223 nm
z	1.07 μm	1.07 μm	885 nm
Asymmetry	0.643		
Theta	80.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1237.332 (brightness)

B = 122.936 (background)

a = 1.112 px

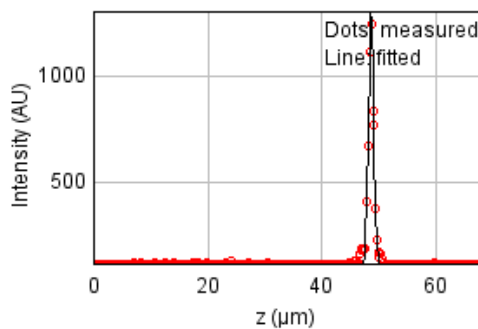
b = 0.113 px

c = 0.488 px

$x_c = 5.114$ px

$y_c = 5.883$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 93511.4941

Standard deviation: 17.45273

R^2 : 0.98235

Parameters:

a = 114.67681

b = 1324.17241

c = 48.70190

d = 0.45234

Bead 2222

Date : Mon Oct 17 13:29:36 PDT 2022

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

Frame size : 10 pixels

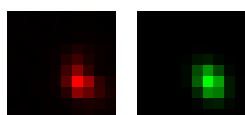
Coordinates : 65.8 μm (x), -25.5 μm (y), 49.3 μm (z)

Corresponding bead : Not found

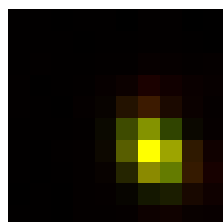
FWHM	Non corrected	Corrected	Theoretical
min	402 nm	416 nm	223 nm
max	531 nm	549 nm	223 nm
z	1.3 μm	1.3 μm	885 nm
Asymmetry	0.758		
Theta	-56.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1606.197 (brightness)

B = 131.272 (background)

a = 0.720 px

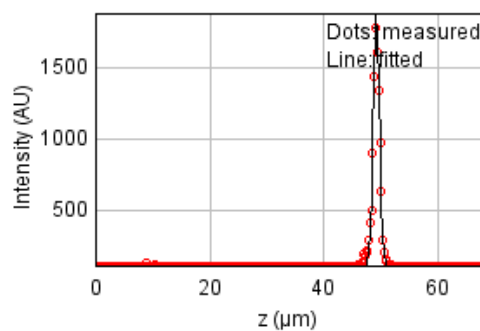
b = -0.163 px

c = 0.585 px

xc = 6.199 px

yc = 6.030 px

Z profile & fitting parameters:



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

Sum of residuals squared: 166608.803

Standard deviation: 23.29592

R^2 : 0.98774

Parameters:

a = 114.49375

b = 1880.17667

c = 49.25913

d = 0.55016

Bead 2223

Date : Mon Oct 17 13:29:37 PDT 2022

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

Frame size : 10 pixels

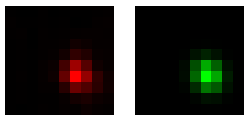
Coordinates : 11.5 μm (x), -31.7 μm (y), 49.3 μm (z)

Corresponding bead : Not found

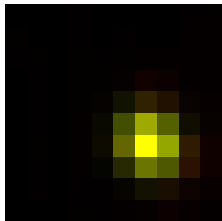
FWHM	Non corrected	Corrected	Theoretical
min	433 nm	448 nm	223 nm
max	493 nm	510 nm	223 nm
z	1.34 μm	1.34 μm	885 nm
Asymmetry	0.879		
Theta	-60.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1798.522 (brightness)

B = 127.314 (background)

a = 0.674 px

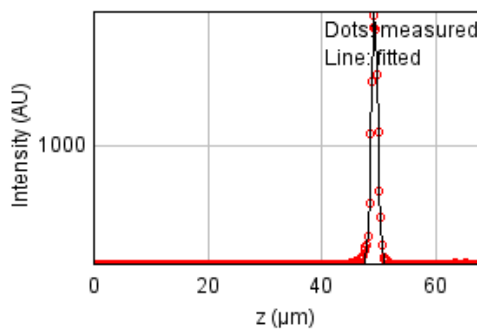
b = -0.070 px

c = 0.592 px

$x_c = 6.167$ px

$y_c = 5.867$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 65502.8399

Standard deviation: 14.60699

R^2 : 0.99584

Parameters:

a = 114.81506

b = 1996.01960

c = 49.29458

d = 0.56699

Bead 2224

Date : Mon Oct 17 13:29:37 PDT 2022

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

Frame size : 10 pixels

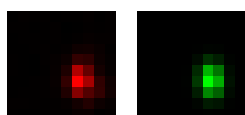
Coordinates : 21.4 μm (x), -32.8 μm (y), 49.0 μm (z)

Corresponding bead : Not found

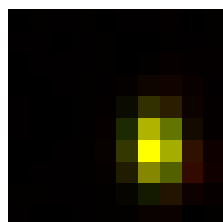
FWHM	Non corrected	Corrected	Theoretical
min	375 nm	387 nm	223 nm
max	520 nm	538 nm	223 nm
z	1.28 μm	1.28 μm	885 nm
Asymmetry	0.72		
Theta	-86.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1530.655 (brightness)

B = 127.680 (background)

a = 0.955 px

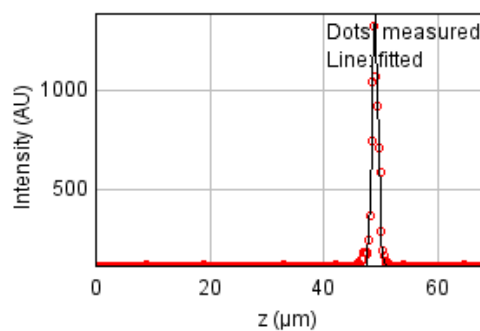
b = -0.025 px

c = 0.497 px

$x_c = 6.294$ px

$y_c = 5.870$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 144732.390

Standard deviation: 21.71269

R^2 : 0.97943

Parameters:

a = 115.31810

b = 1389.29580

c = 49.04617

d = 0.54239

Bead 2225

Date : Mon Oct 17 13:29:37 PDT 2022

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

Frame size : 10 pixels

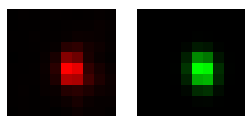
Coordinates : 48.1 μm (x), -62.3 μm (y), 48.8 μm (z)

Corresponding bead : Not found

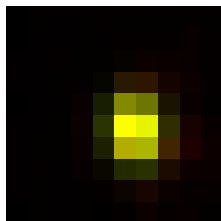
FWHM	Non corrected	Corrected	Theoretical
min	403 nm	416 nm	223 nm
max	517 nm	534 nm	223 nm
z	1.42 μm	1.43 μm	885 nm
Asymmetry	0.779		
Theta	-81.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1942.049 (brightness)

B = 133.510 (background)

a = 0.820 px

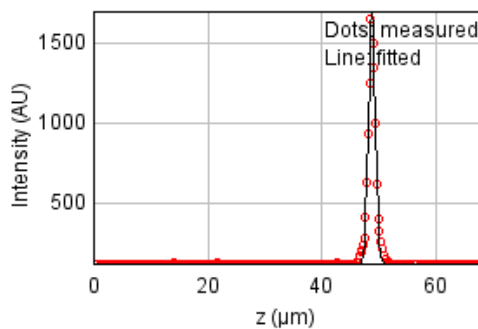
b = -0.049 px

c = 0.510 px

$x_c = 5.481$ px

$y_c = 5.160$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 89935.0073

Standard deviation: 17.11572

R^2 : 0.99243

Parameters:

a = 114.42595

b = 1694.88735

c = 48.84836

d = 0.60502

Bead 2226

Date : Mon Oct 17 13:29:37 PDT 2022

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

Frame size : 10 pixels

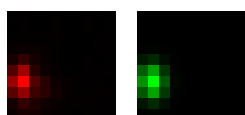
Coordinates : 32.7 μm (x), -79.9 μm (y), 38.5 μm (z)

Corresponding bead : Not found

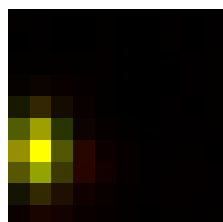
FWHM	Non corrected	Corrected	Theoretical
min	401 nm	414 nm	223 nm
max	539 nm	557 nm	223 nm
z	1.2 μm	1.21 μm	885 nm
Asymmetry	0.744		
Theta	-86.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1844.419 (brightness)

B = 134.025 (background)

a = 0.834 px

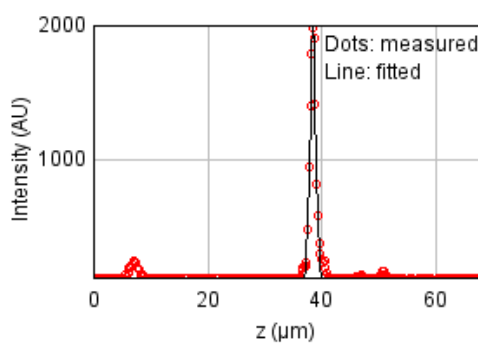
b = -0.021 px

c = 0.463 px

$x_c = 0.847$ px

$y_c = 6.004$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 266098.220

Standard deviation: 29.44095

R^2 : 0.98150

Parameters:

a = 124.51825

b = 2001.31300

c = 38.50789

d = 0.51101

Bead 2227 (Rejected)

Date : Mon Oct 17 13:29:37 PDT 2022

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

Frame size : 10 pixels

Coordinates : 111 um (x), 89.6 um (y), 49.6 um (z)

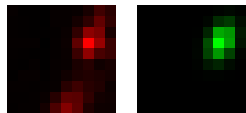
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

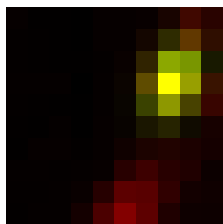
FWHM	Non corrected	Corrected	Theoretical
min	383 nm	396 nm	223 nm
max	583 nm	602 nm	223 nm
z	1.75 um	1.76 um	885 nm
Asymmetry	0.657		
Theta	67.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 855.329 (brightness)

B = 162.991 (background)

a = 0.841 px

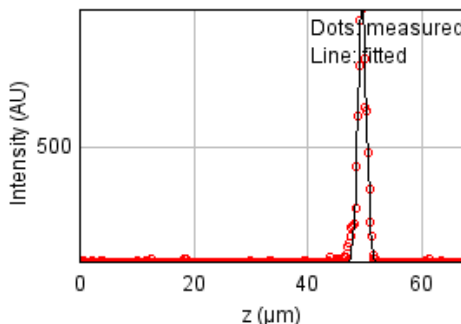
b = 0.183 px

c = 0.470 px

xc = 7.251 px

yc = 2.850 px

Z profile & fitting parameters:



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

Sum of residuals squared: 69544.9517

Standard deviation: 15.05094

R^2 : 0.98366

Parameters:

a = 112.99181

b = 966.13083

c = 49.58062

d = 0.74271

Bead 2228

Date : Mon Oct 17 13:29:37 PDT 2022

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

Frame size : 10 pixels

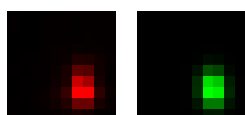
Coordinates : -43.9 μm (x), 81.7 μm (y), 49.5 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	389 nm	402 nm	223 nm
max	551 nm	569 nm	223 nm
z	1.26 μm	1.27 μm	885 nm
Asymmetry	0.705		
Theta	-85.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1817.244 (brightness)

B = 129.656 (background)

a = 0.886 px

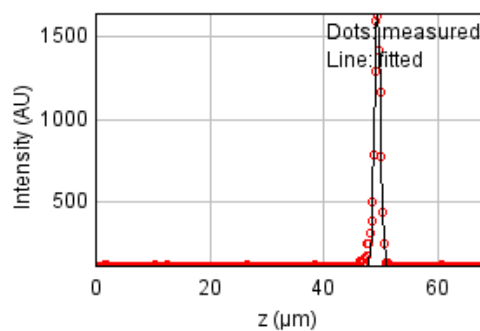
b = -0.034 px

c = 0.445 px

xc = 6.454 px

yc = 6.688 px

Z profile & fitting parameters:



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

Sum of residuals squared: 98777.7604

Standard deviation: 17.93744

R^2 : 0.99003

Parameters:

a = 115.84741

b = 1645.55968

c = 49.46243

d = 0.53531

Bead 2229

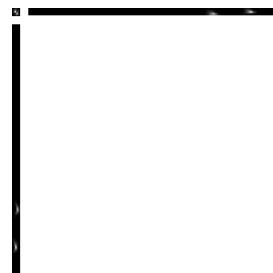
Date : Mon Oct 17 13:29:37 PDT 2022

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

Frame size : 10 pixels

Coordinates : 40.9 μm (x), 81.8 μm (y), 60.0 μm (z)

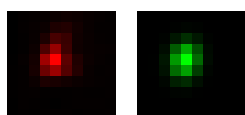
Corresponding bead : Not found



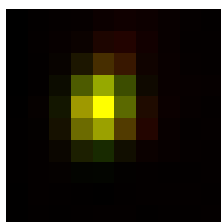
FWHM	Non corrected	Corrected	Theoretical
min	434 nm	448 nm	223 nm
max	558 nm	577 nm	223 nm
z	1.13 μm	1.13 μm	885 nm
Asymmetry	0.777		
Theta	79.2°		

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:

$A = 1570.787$ (brightness)

$B = 131.457$ (background)

$a = 0.704$ px

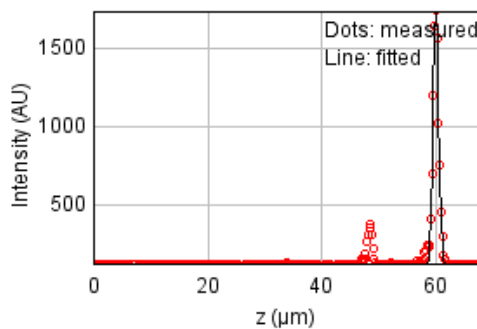
$b = 0.052$ px

$c = 0.441$ px

$x_c = 3.867$ px

$y_c = 3.989$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 345480.809

Standard deviation: 33.54616

$R^2: 0.96584$

Parameters:

$a = 121.58761$

$b = 1733.57869$

$c = 60.04650$

$d = 0.47859$

Bead 2230

Date : Mon Oct 17 13:29:38 PDT 2022

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

Frame size : 10 pixels

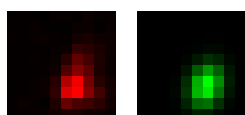
Coordinates : 40.7 μm (x), 54.5 μm (y), 50.0 μm (z)

Corresponding bead : Not found

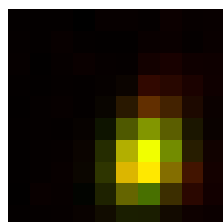
FWHM	Non corrected	Corrected	Theoretical
min	509 nm	526 nm	223 nm
max	678 nm	701 nm	223 nm
z	1.21 μm	1.21 μm	885 nm
Asymmetry	0.751		
Theta	70.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 810.715 (brightness)

B = 127.259 (background)

a = 0.493 px

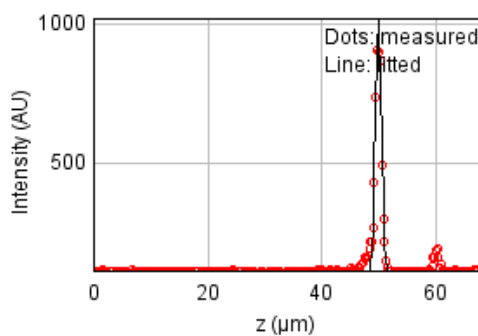
b = 0.070 px

c = 0.316 px

xc = 5.833 px

yc = 6.383 px

Z profile & fitting parameters:



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

Sum of residuals squared: 98248.0392

Standard deviation: 17.88928

R^2 : 0.97108

Parameters:

a = 115.62304

b = 1021.99945

c = 49.98655

d = 0.51216

Bead 2231

Date : Mon Oct 17 13:29:38 PDT 2022

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

Frame size : 10 pixels

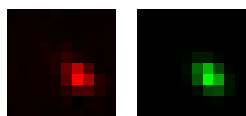
Coordinates : -129 μm (x), 26.2 μm (y), 49.2 μm (z)

Corresponding bead : Not found

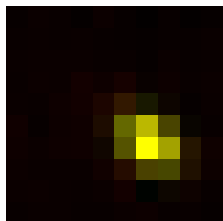
FWHM	Non corrected	Corrected	Theoretical
min	350 nm	362 nm	223 nm
max	496 nm	513 nm	223 nm
z	1.47 μm	1.48 μm	885 nm
Asymmetry	0.705		
Theta	-41.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 864.119 (brightness)

B = 118.428 (background)

a = 0.790 px

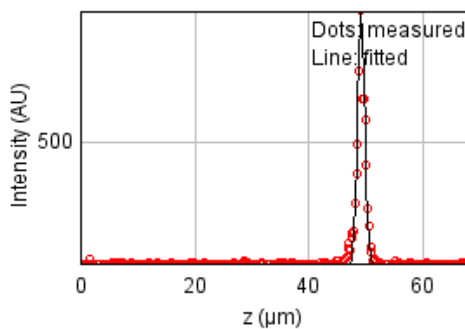
b = -0.274 px

c = 0.851 px

xc = 6.117 px

yc = 5.730 px

Z profile & fitting parameters:



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

Sum of residuals squared: 196898.451

Standard deviation: 25.32515

R^2 : 0.94068

Parameters:

a = 113.25551

b = 914.27331

c = 49.22314

d = 0.62436

Bead 2232

Date : Mon Oct 17 13:29:38 PDT 2022

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

Frame size : 10 pixels

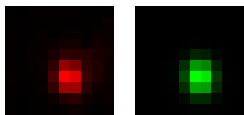
Coordinates : 145 um (x), 5.49 um (y), 49.1 um (z)

Corresponding bead : Not found

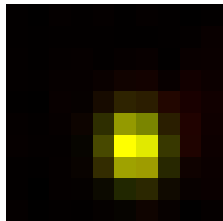
FWHM	Non corrected	Corrected	Theoretical
min	446 nm	461 nm	223 nm
max	529 nm	547 nm	223 nm
z	1.33 um	1.34 um	885 nm
Asymmetry	0.844		
Theta	-82.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1068.308 (brightness)

B = 125.531 (background)

a = 0.671 px

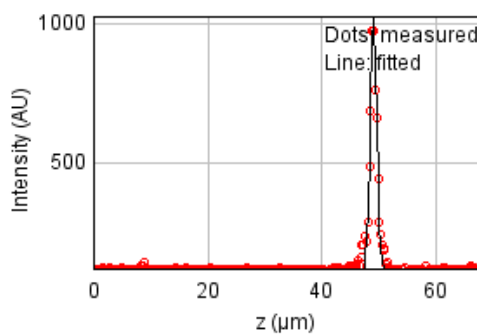
b = -0.026 px

c = 0.483 px

xc = 5.435 px

yc = 6.050 px

Z profile & fitting parameters:



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

Sum of residuals squared: 90418.3631

Standard deviation: 17.16165

R^2 : 0.97643

Parameters:

a = 112.82391

b = 1032.13989

c = 49.12536

d = 0.56683

Bead 2233

Date : Mon Oct 17 13:29:38 PDT 2022

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

Frame size : 10 pixels

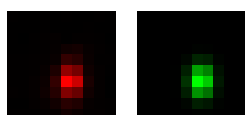
Coordinates : -49.0 μm (x), -34.5 μm (y), 49.4 μm (z)

Corresponding bead : Not found

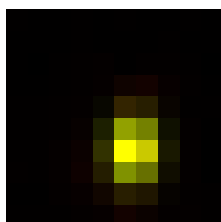
FWHM	Non corrected	Corrected	Theoretical
min	379 nm	392 nm	223 nm
max	512 nm	529 nm	223 nm
z	1.18 μm	1.19 μm	885 nm
Asymmetry	0.74		
Theta	88.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1857.446 (brightness)

B = 126.571 (background)

a = 0.935 px

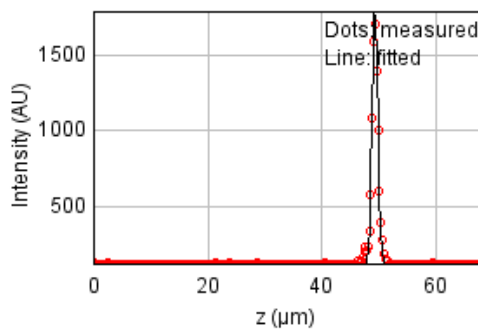
b = 0.011 px

c = 0.513 px

$x_c = 5.372$ px

$y_c = 5.944$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 83371.5045

Standard deviation: 16.47933

R^2 : 0.99276

Parameters:

a = 115.07561

b = 1817.14446

c = 49.36815

d = 0.50300

Bead 2234

Date : Mon Oct 17 13:29:38 PDT 2022

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

Frame size : 10 pixels

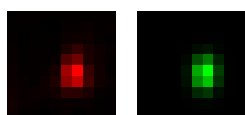
Coordinates : -150 μm (x), -72.4 μm (y), 49.0 μm (z)

Corresponding bead : Not found

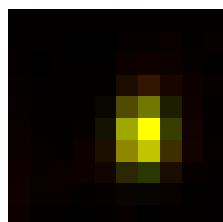
FWHM	Non corrected	Corrected	Theoretical
min	383 nm	396 nm	223 nm
max	514 nm	531 nm	223 nm
z	1.28 μm	1.29 μm	885 nm
Asymmetry	0.745		
Theta	86.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1041.399 (brightness)

B = 125.253 (background)

a = 0.914 px

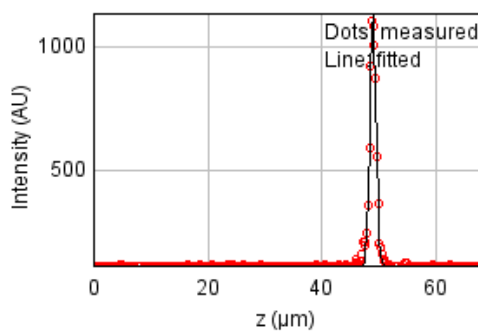
b = 0.023 px

c = 0.509 px

$x_c = 5.722$ px

$y_c = 5.254$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 52829.1931

Standard deviation: 13.11801

R^2 : 0.98830

Parameters:

a = 111.96054

b = 1135.12438

c = 49.03578

d = 0.54472

Bead 2235

Date : Mon Oct 17 13:29:38 PDT 2022

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

Frame size : 10 pixels

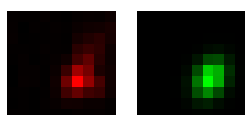
Coordinates : 89.8 μm (x), 88.3 μm (y), 49.5 μm (z)

Corresponding bead : Not found

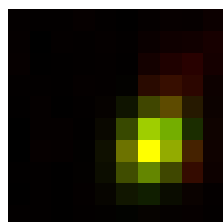
FWHM	Non corrected	Corrected	Theoretical
min	450 nm	465 nm	223 nm
max	603 nm	623 nm	223 nm
z	1.66 μm	1.66 μm	885 nm
Asymmetry	0.746		
Theta	62.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 703.581 (brightness)

B = 128.316 (background)

a = 0.602 px

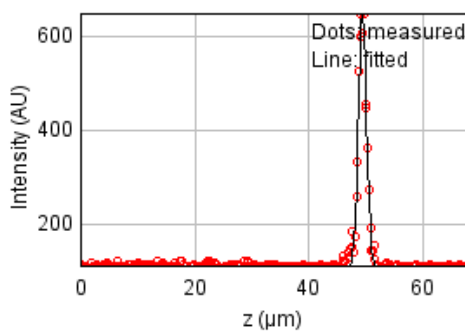
b = 0.119 px

c = 0.431 px

$x_c = 6.226$ px

$y_c = 5.690$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 38266.6036

Standard deviation: 11.16454

R^2 : 0.97610

Parameters:

a = 112.63816

b = 647.81738

c = 49.45630

d = 0.70329

Bead 2236

Date : Mon Oct 17 13:29:39 PDT 2022

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

Frame size : 10 pixels

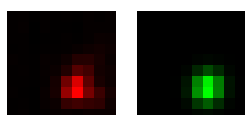
Coordinates : 46.4 μm (x), 34.0 μm (y), 50.0 μm (z)

Corresponding bead : Not found

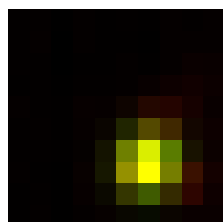
FWHM	Non corrected	Corrected	Theoretical
min	455 nm	471 nm	223 nm
max	495 nm	512 nm	223 nm
z	1.36 μm	1.36 μm	885 nm
Asymmetry	0.919		
Theta	74.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1189.910$ (brightness)

$B = 131.932$ (background)

$a = 0.640$ px

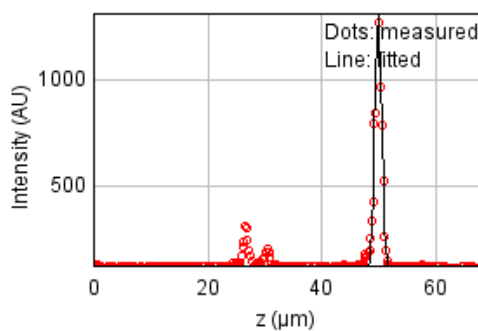
$b = 0.026$ px

$c = 0.554$ px

$x_c = 5.964$ px

$y_c = 6.566$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 250379.238

Standard deviation: 28.55814

$R^2: 0.96268$

Parameters:

$a = 120.61857$

$b = 1317.47643$

$c = 49.95160$

$d = 0.57708$

Bead 2237

Date : Mon Oct 17 13:29:39 PDT 2022

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

Frame size : 10 pixels

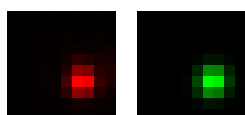
Coordinates : 158 μm (x), 13.6 μm (y), 49.9 μm (z)

Corresponding bead : Not found

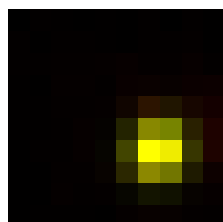
FWHM	Non corrected	Corrected	Theoretical
min	436 nm	451 nm	223 nm
max	464 nm	480 nm	223 nm
z	1.42 μm	1.43 μm	885 nm
Asymmetry	0.939		
Theta	68.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1437.841 (brightness)

B = 123.107 (background)

a = 0.695 px

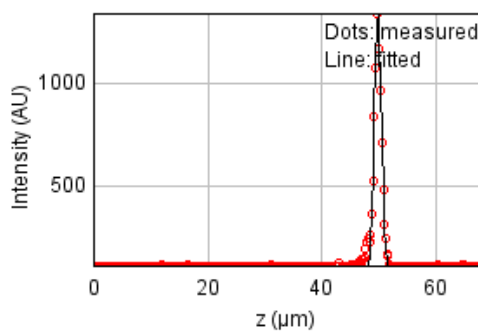
b = 0.028 px

c = 0.633 px

xc = 6.442 px

yc = 5.980 px

Z profile & fitting parameters:



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

Sum of residuals squared: 74486.9943

Standard deviation: 15.57654

R^2 : 0.98957

Parameters:

a = 111.58574

b = 1337.55843

c = 49.88937

d = 0.60283

Bead 2238

Date : Mon Oct 17 13:29:39 PDT 2022

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

Frame size : 10 pixels

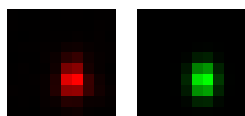
Coordinates : -21.0 μm (x), 5.05 μm (y), 49.9 μm (z)

Corresponding bead : Not found

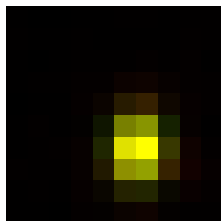
FWHM	Non corrected	Corrected	Theoretical
min	402 nm	416 nm	223 nm
max	517 nm	535 nm	223 nm
z	1.09 μm	1.09 μm	885 nm
Asymmetry	0.778		
Theta	88.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2205.932 (brightness)

B = 129.469 (background)

a = 0.828 px

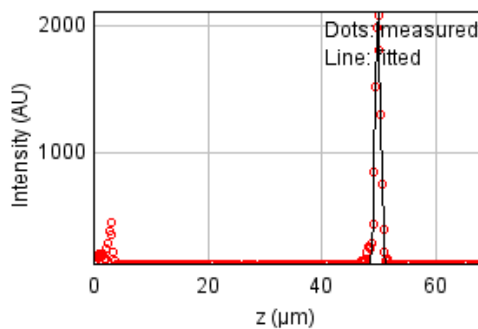
b = 0.011 px

c = 0.502 px

xc = 5.578 px

yc = 6.046 px

Z profile & fitting parameters:



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

Sum of residuals squared: 467443.209

Standard deviation: 39.02072

R^2 : 0.96870

Parameters:

a = 123.59721

b = 2121.67945

c = 49.90449

d = 0.46083

Bead 2239

Date : Mon Oct 17 13:29:39 PDT 2022

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

Frame size : 10 pixels

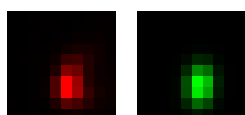
Coordinates : 66.3 μm (x), -3.6 μm (y), 50.2 μm (z)

Corresponding bead : Not found

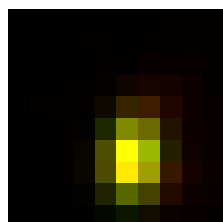
FWHM	Non corrected	Corrected	Theoretical
min	421 nm	435 nm	223 nm
max	611 nm	632 nm	223 nm
z	1.6 μm	1.6 μm	885 nm
Asymmetry	0.688		
Theta	85.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2760.199 (brightness)

B = 151.555 (background)

a = 0.755 px

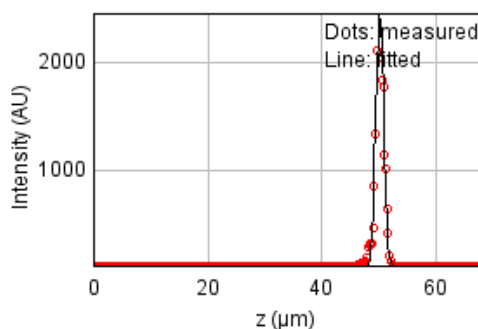
b = 0.030 px

c = 0.361 px

$x_c = 5.272$ px

$y_c = 6.346$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 571609.210

Standard deviation: 43.14996

R^2 : 0.98071

Parameters:

a = 115.09578

b = 2462.94472

c = 50.20995

d = 0.67846

Bead 2240

Date : Mon Oct 17 13:29:39 PDT 2022

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

Frame size : 10 pixels

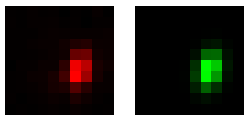
Coordinates : -131 μm (x), -17.9 μm (y), 49.0 μm (z)

Corresponding bead : Not found

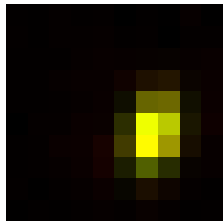
FWHM	Non corrected	Corrected	Theoretical
min	364 nm	377 nm	223 nm
max	553 nm	572 nm	223 nm
z	1.09 μm	1.1 μm	885 nm
Asymmetry	0.659		
Theta	76.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1029.597 (brightness)

B = 121.547 (background)

a = 0.979 px

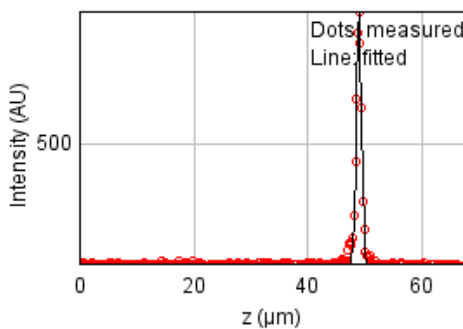
b = 0.132 px

c = 0.471 px

xc = 6.324 px

yc = 5.389 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33295.1987

Standard deviation: 10.41410

R^2 : 0.98644

Parameters:

a = 112.68394

b = 928.14045

c = 49.02317

d = 0.46328

Bead 2241

Date : Mon Oct 17 13:29:39 PDT 2022

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

Frame size : 10 pixels

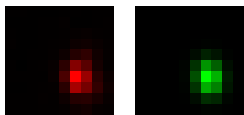
Coordinates : 19.2 μm (x), -22.5 μm (y), 49.7 μm (z)

Corresponding bead : Not found

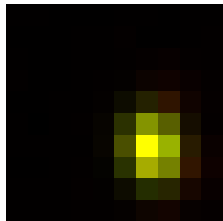
FWHM	Non corrected	Corrected	Theoretical
min	417 nm	431 nm	223 nm
max	536 nm	554 nm	223 nm
z	1.28 μm	1.29 μm	885 nm
Asymmetry	0.778		
Theta	-82.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1812.672 (brightness)

B = 127.284 (background)

a = 0.768 px

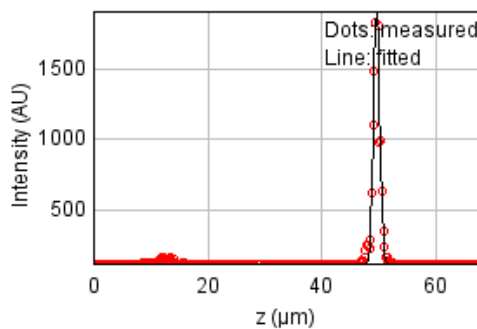
b = -0.039 px

c = 0.473 px

xc = 6.268 px

yc = 6.104 px

Z profile & fitting parameters:



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

Sum of residuals squared: 253152.659

Standard deviation: 28.71588

R^2 : 0.98181

Parameters:

a = 119.47427

b = 1910.71273

c = 49.67120

d = 0.54402

Bead 2242

Date : Mon Oct 17 13:29:39 PDT 2022

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

Frame size : 10 pixels

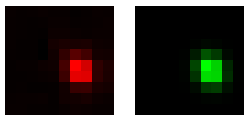
Coordinates : 145 um (x), -45.4 um (y), 49.2 um (z)

Corresponding bead : Not found

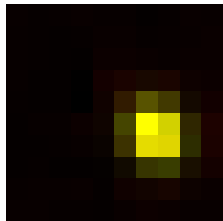
FWHM	Non corrected	Corrected	Theoretical
min	409 nm	423 nm	223 nm
max	475 nm	491 nm	223 nm
z	1.16 um	1.17 um	885 nm
Asymmetry	0.861		
Theta	-62.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.986$



Parameters:

A = 1058.344 (brightness)

B = 119.409 (background)

a = 0.756 px

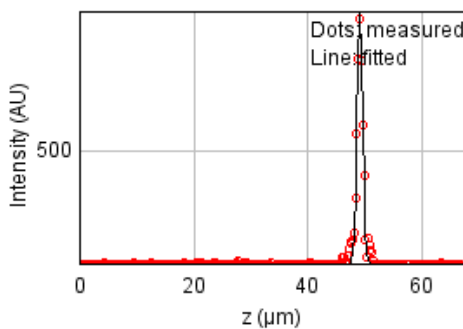
b = -0.085 px

c = 0.638 px

xc = 6.414 px

yc = 5.437 px

Z profile & fitting parameters:



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

Sum of residuals squared: 48364.2758

Standard deviation: 12.55143

R^2 : 0.98432

Parameters:

a = 111.77979

b = 996.11186

c = 49.17850

d = 0.49453

Bead 2243

Date : Mon Oct 17 13:29:40 PDT 2022

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

Frame size : 10 pixels

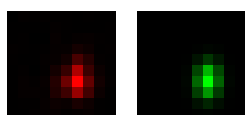
Coordinates : -116 μm (x), -54.1 μm (y), 49.3 μm (z)

Corresponding bead : Not found

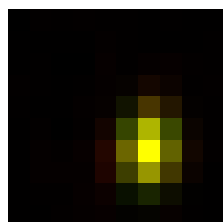
FWHM	Non corrected	Corrected	Theoretical
min	378 nm	391 nm	223 nm
max	551 nm	570 nm	223 nm
z	1.25 μm	1.26 μm	885 nm
Asymmetry	0.686		
Theta	87.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1370.017$ (brightness)

$B = 122.769$ (background)

$a = 0.938$ px

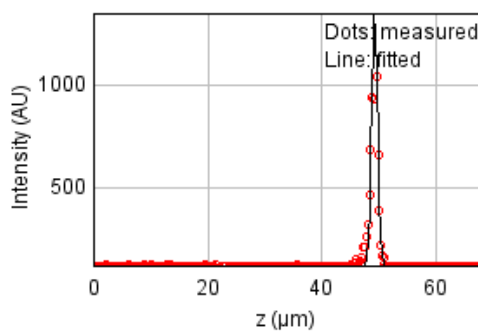
$b = 0.020$ px

$c = 0.442$ px

$x_c = 5.991$ 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: 194776.465

Standard deviation: 25.18831

$R^2: 0.97032$

Parameters:

$a = 114.09883$

$b = 1351.20771$

$c = 49.30760$

$d = 0.53128$

Bead 2244

Date : Mon Oct 17 13:29:40 PDT 2022

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

Frame size : 10 pixels

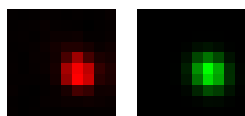
Coordinates : 147 μm (x), -58.4 μm (y), 49.4 μm (z)

Corresponding bead : Not found

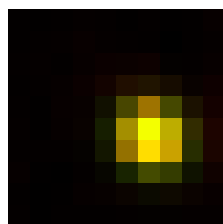
FWHM	Non corrected	Corrected	Theoretical
min	507 nm	524 nm	223 nm
max	555 nm	574 nm	223 nm
z	1.37 μm	1.37 μm	885 nm
Asymmetry	0.913		
Theta	-50.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 986.872 (brightness)

B = 115.831 (background)

a = 0.488 px

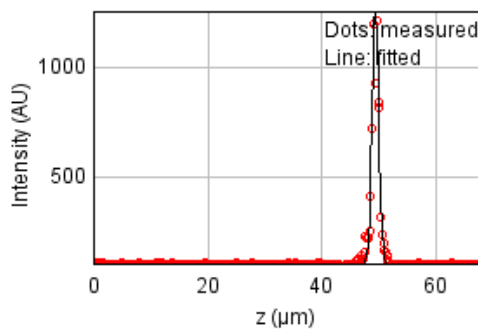
b = -0.043 px

c = 0.470 px

xc = 6.129 px

yc = 5.356 px

Z profile & fitting parameters:



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

Sum of residuals squared: 277542.089

Standard deviation: 30.06736

R^2 : 0.95514

Parameters:

a = 112.02962

b = 1252.95471

c = 49.44085

d = 0.58117

Bead 2245

Date : Mon Oct 17 13:29:40 PDT 2022

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

Frame size : 10 pixels

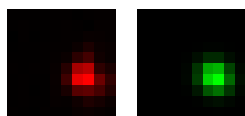
Coordinates : 37.8 μm (x), -82.7 μm (y), 49.7 μm (z)

Corresponding bead : Not found

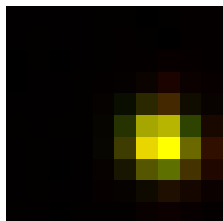
FWHM	Non corrected	Corrected	Theoretical
min	466 nm	482 nm	223 nm
max	512 nm	529 nm	223 nm
z	1.2 μm	1.21 μm	885 nm
Asymmetry	0.911		
Theta	-33.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1799.440 (brightness)

B = 128.375 (background)

a = 0.544 px

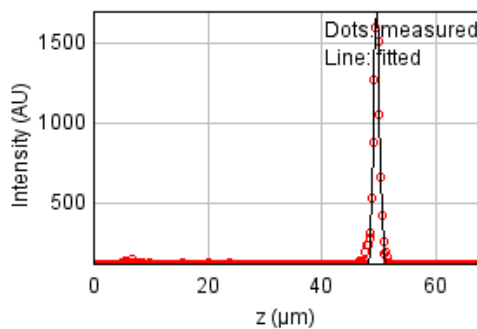
b = -0.048 px

c = 0.586 px

xc = 6.647 px

yc = 5.765 px

Z profile & fitting parameters:



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

Sum of residuals squared: 82179.8725

Standard deviation: 16.36114

R^2 : 0.99190

Parameters:

a = 116.02382

b = 1702.04111

c = 49.66495

d = 0.51031

Bead 2246

Date : Mon Oct 17 13:29:40 PDT 2022

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

Frame size : 10 pixels

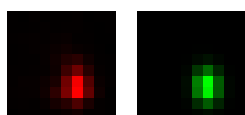
Coordinates : -102 μm (x), 66.1 μm (y), 49.8 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	392 nm	405 nm	223 nm
max	534 nm	552 nm	223 nm
z	1.3 μm	1.31 μm	885 nm
Asymmetry	0.733		
Theta	-88.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1519.483 (brightness)

B = 128.016 (background)

a = 0.875 px

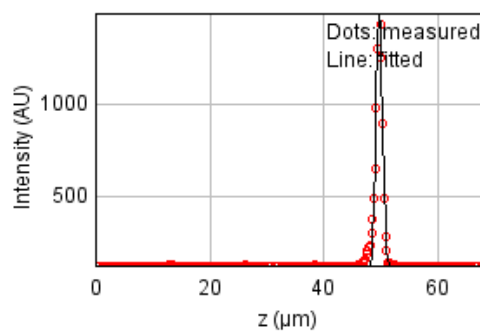
b = -0.012 px

c = 0.470 px

$x_c = 5.911$ px

$y_c = 6.444$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 100170.752

Standard deviation: 18.06347

R^2 : 0.98806

Parameters:

a = 115.27374

b = 1500.76942

c = 49.77669

d = 0.55211

Bead 2247

Date : Mon Oct 17 13:29:40 PDT 2022

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

Frame size : 10 pixels

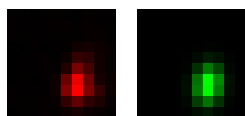
Coordinates : 13.4 μm (x), 51.6 μm (y), 50.0 μm (z)

Corresponding bead : Not found

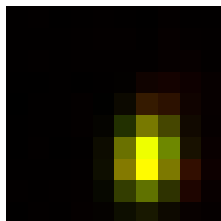
FWHM	Non corrected	Corrected	Theoretical
min	428 nm	443 nm	223 nm
max	594 nm	615 nm	223 nm
z	1.33 μm	1.34 μm	885 nm
Asymmetry	0.72		
Theta	82.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1559.524 (brightness)

B = 130.687 (background)

a = 0.726 px

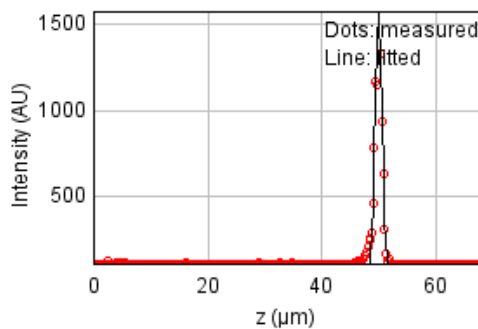
b = 0.048 px

c = 0.386 px

xc = 6.032 px

yc = 6.470 px

Z profile & fitting parameters:



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

Sum of residuals squared: 147432.291

Standard deviation: 21.91428

R^2 : 0.98465

Parameters:

a = 114.47094

b = 1577.02017

c = 50.01075

d = 0.56559

Bead 2248

Date : Mon Oct 17 13:29:40 PDT 2022

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

Frame size : 10 pixels

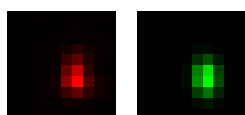
Coordinates : -12.1 μm (x), 45.0 μm (y), 49.7 μm (z)

Corresponding bead : Not found

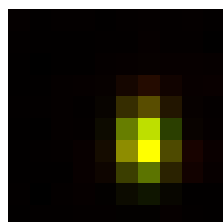
FWHM	Non corrected	Corrected	Theoretical
min	382 nm	395 nm	223 nm
max	539 nm	557 nm	223 nm
z	1.19 μm	1.2 μm	885 nm
Asymmetry	0.709		
Theta	-88.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1319.968 (brightness)

B = 122.944 (background)

a = 0.919 px

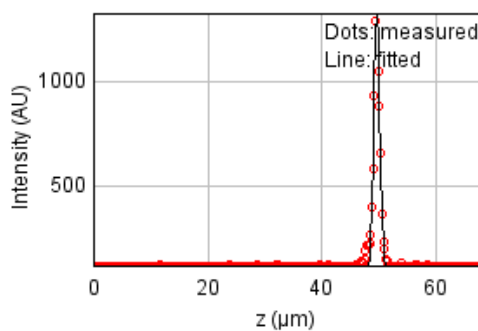
b = -0.013 px

c = 0.463 px

$x_c = 5.820$ px

$y_c = 5.643$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 94324.4672

Standard deviation: 17.52843

R^2 : 0.98392

Parameters:

a = 115.83152

b = 1321.40238

c = 49.69603

d = 0.50647

Bead 2249

Date : Mon Oct 17 13:29:40 PDT 2022

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

Frame size : 10 pixels

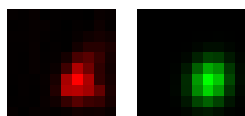
Coordinates : 82.3 μm (x), 41.5 μm (y), 50.1 μm (z)

Corresponding bead : Not found

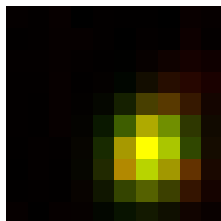
FWHM	Non corrected	Corrected	Theoretical
min	578 nm	598 nm	223 nm
max	690 nm	714 nm	223 nm
z	1.45 μm	1.45 μm	885 nm
Asymmetry	0.837		
Theta	68.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 769.997$ (brightness)

$B = 121.136$ (background)

$a = 0.386$ px

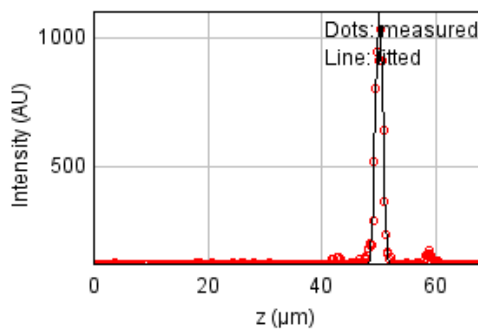
$b = 0.040$ px

$c = 0.297$ px

$x_c = 6.152$ px

$y_c = 6.166$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 107158.480

Standard deviation: 18.68289

$R^2: 0.97770$

Parameters:

$a = 116.39124$

$b = 1106.88152$

$c = 50.09471$

$d = 0.61402$

Bead 2250

Date : Mon Oct 17 13:29:40 PDT 2022

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

Frame size : 10 pixels

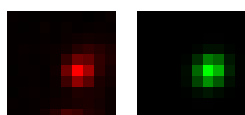
Coordinates : 153 um (x), 40.3 um (y), 50.6 um (z)

Corresponding bead : Not found

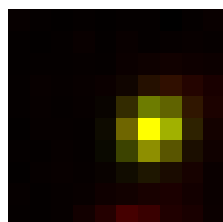
FWHM	Non corrected	Corrected	Theoretical
min	431 nm	446 nm	223 nm
max	484 nm	500 nm	223 nm
z	1.41 um	1.41 um	885 nm
Asymmetry	0.892		
Theta	42.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 699.250 (brightness)

B = 130.227 (background)

a = 0.642 px

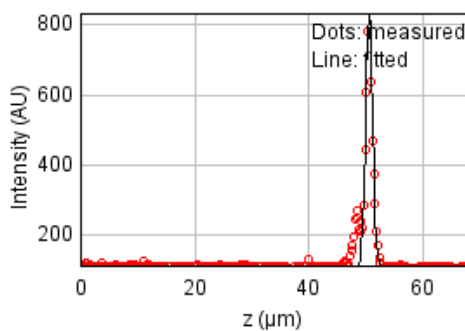
b = 0.073 px

c = 0.653 px

xc = 6.208 px

yc = 5.033 px

Z profile & fitting parameters:



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

Sum of residuals squared: 133064.537

Standard deviation: 20.81910

R^2 : 0.94784

Parameters:

a = 113.09745

b = 833.59290

c = 50.63907

d = 0.59677

Bead 2251

Date : Mon Oct 17 13:29:40 PDT 2022

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

Frame size : 10 pixels

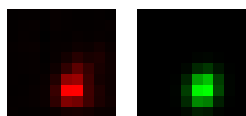
Coordinates : 114 μm (x), 39.0 μm (y), 49.9 μm (z)

Corresponding bead : Not found

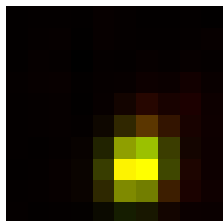
FWHM	Non corrected	Corrected	Theoretical
min	441 nm	456 nm	223 nm
max	534 nm	552 nm	223 nm
z	1.59 μm	1.6 μm	885 nm
Asymmetry	0.825		
Theta	70.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1345.072 (brightness)

B = 127.812 (background)

a = 0.666 px

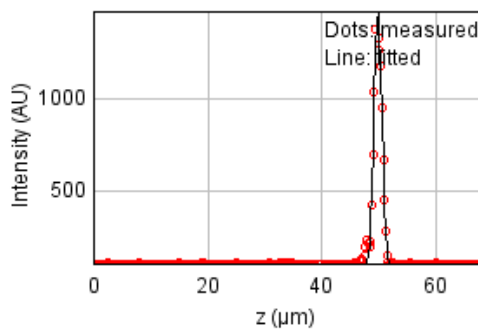
b = 0.070 px

c = 0.495 px

$x_c = 5.554$ px

$y_c = 6.849$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 122399.366

Standard deviation: 19.96735

R^2 : 0.98752

Parameters:

a = 112.19064

b = 1469.51526

c = 49.89535

d = 0.67645

Bead 2252

Date : Mon Oct 17 13:29:41 PDT 2022

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

Frame size : 10 pixels

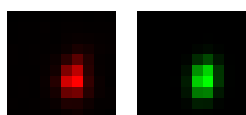
Coordinates : -29.3 μm (x), 19.4 μm (y), 49.8 μm (z)

Corresponding bead : Not found

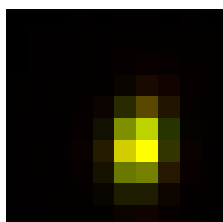
FWHM	Non corrected	Corrected	Theoretical
min	384 nm	397 nm	223 nm
max	560 nm	579 nm	223 nm
z	1.12 μm	1.12 μm	885 nm
Asymmetry	0.685		
Theta	80.3°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.986$



Parameters:

A = 2051.379 (brightness)

B = 129.950 (background)

a = 0.896 px

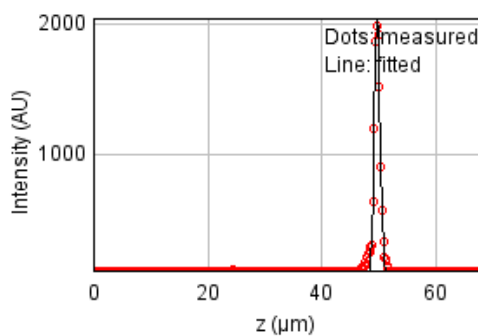
b = 0.080 px

c = 0.441 px

$x_c = 5.644$ px

$y_c = 5.783$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 132746.292

Standard deviation: 20.79419

R^2 : 0.99054

Parameters:

a = 116.28102

b = 2047.54422

c = 49.77691

d = 0.47434

Bead 2253

Date : Mon Oct 17 13:29:41 PDT 2022

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

Frame size : 10 pixels

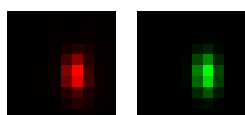
Coordinates : -28.4 μm (x), -52.9 μm (y), 49.5 μm (z)

Corresponding bead : Not found

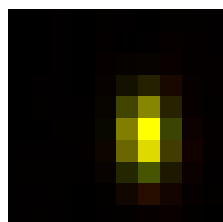
FWHM	Non corrected	Corrected	Theoretical
min	363 nm	375 nm	223 nm
max	579 nm	598 nm	223 nm
z	1.11 μm	1.11 μm	885 nm
Asymmetry	0.627		
Theta	-88.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.989$



Parameters:

A = 1910.836 (brightness)

B = 127.860 (background)

a = 1.019 px

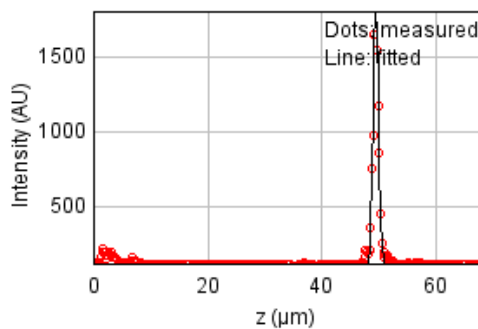
b = -0.019 px

c = 0.401 px

$x_c = 5.854$ px

$y_c = 5.296$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 223933.692

Standard deviation: 27.00788

R^2 : 0.97901

Parameters:

a = 121.86963

b = 1804.23374

c = 49.52446

d = 0.46948

Bead 2254

Date : Mon Oct 17 13:29:41 PDT 2022

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

Frame size : 10 pixels

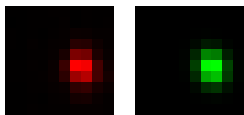
Coordinates : -24.3 μm (x), -53.3 μm (y), 49.6 μm (z)

Corresponding bead : Not found

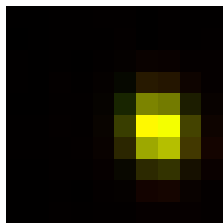
FWHM	Non corrected	Corrected	Theoretical
min	440 nm	455 nm	223 nm
max	519 nm	536 nm	223 nm
z	1.35 μm	1.36 μm	885 nm
Asymmetry	0.848		
Theta	-74.3°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.991$



Parameters:

A = 2173.475 (brightness)

B = 128.655 (background)

a = 0.680 px

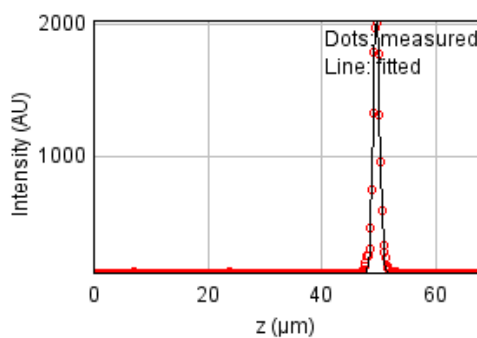
b = -0.051 px

c = 0.513 px

xc = 6.532 px

yc = 5.170 px

Z profile & fitting parameters:



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

Sum of residuals squared: 84183.2485

Standard deviation: 16.55936

R^2 : 0.99502

Parameters:

a = 116.13672

b = 2054.08479

c = 49.63202

d = 0.57322

Bead 2255

Date : Mon Oct 17 13:29:41 PDT 2022

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

Frame size : 10 pixels

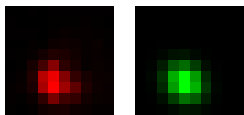
Coordinates : 35.4 μm (x), -59.1 μm (y), 52.4 μm (z)

Corresponding bead : Not found

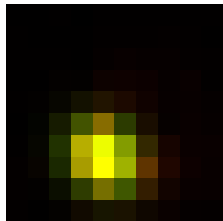
FWHM	Non corrected	Corrected	Theoretical
min	524 nm	542 nm	223 nm
max	605 nm	625 nm	223 nm
z	1.48 μm	1.49 μm	885 nm
Asymmetry	0.867		
Theta	-46.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1651.510 (brightness)

B = 129.656 (background)

a = 0.431 px

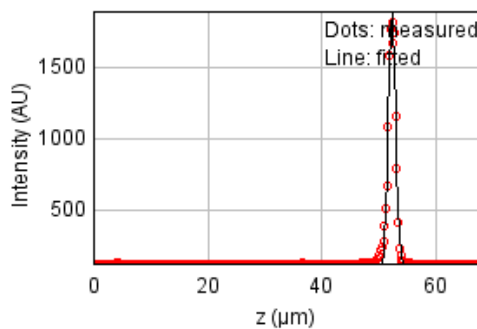
b = -0.060 px

c = 0.423 px

$x_c = 4.008$ px

$y_c = 6.513$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 192371.414

Standard deviation: 25.03232

R^2 : 0.98775

Parameters:

a = 114.67770

b = 1893.09955

c = 52.37672

d = 0.62964

Bead 2256

Date : Mon Oct 17 13:29:41 PDT 2022

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

Frame size : 10 pixels

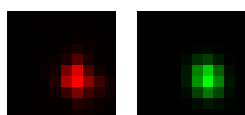
Coordinates : 3.07 μm (x), -81.3 μm (y), 49.7 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	464 nm	480 nm	223 nm
max	534 nm	552 nm	223 nm
z	1.4 μm	1.41 μm	885 nm
Asymmetry	0.87		
Theta	-70.7°		

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 = 1466.462 (brightness)

B = 124.346 (background)

a = 0.606 px

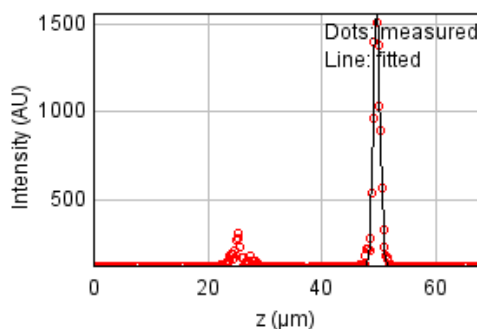
b = -0.047 px

c = 0.488 px

xc = 5.934 px

yc = 5.727 px

Z profile & fitting parameters:



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

Sum of residuals squared: 474436.356

Standard deviation: 39.31152

R^2 : 0.95301

Parameters:

a = 119.87528

b = 1559.87769

c = 49.67741

d = 0.59446

Bead 2257

Date : Mon Oct 17 13:29:41 PDT 2022

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

Frame size : 10 pixels

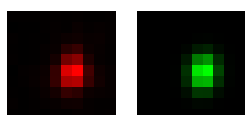
Coordinates : -72.5 μm (x), -83.0 μm (y), 49.5 μm (z)

Corresponding bead : Not found

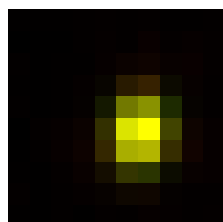
FWHM	Non corrected	Corrected	Theoretical
min	430 nm	445 nm	223 nm
max	546 nm	565 nm	223 nm
z	1.24 μm	1.24 μm	885 nm
Asymmetry	0.787		
Theta	82.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1645.678 (brightness)

B = 127.267 (background)

a = 0.720 px

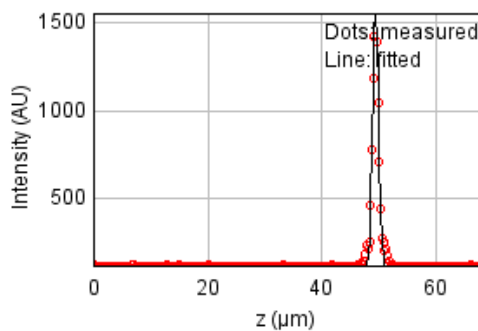
b = 0.037 px

c = 0.455 px

$x_c = 5.572$ px

$y_c = 5.155$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 70085.2124

Standard deviation: 15.10929

R^2 : 0.99179

Parameters:

a = 115.89787

b = 1550.70619

c = 49.47726

d = 0.52468

Bead 2258

Date : Mon Oct 17 13:29:41 PDT 2022

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

Frame size : 10 pixels

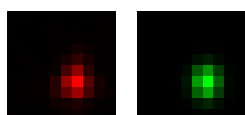
Coordinates : -55.0 μm (x), -86.0 μm (y), 49.7 μm (z)

Corresponding bead : Not found

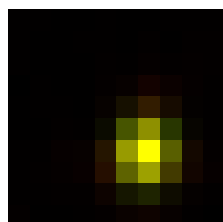
FWHM	Non corrected	Corrected	Theoretical
min	423 nm	437 nm	223 nm
max	507 nm	524 nm	223 nm
z	1.25 μm	1.25 μm	885 nm
Asymmetry	0.834		
Theta	87.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1965.648 (brightness)

B = 129.730 (background)

a = 0.749 px

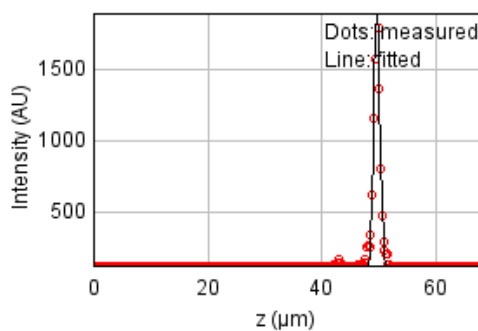
b = 0.012 px

c = 0.522 px

$x_c = 5.834$ 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: 271487.778

Standard deviation: 29.73760

R^2 : 0.97974

Parameters:

a = 115.99652

b = 1894.53033

c = 49.70834

d = 0.52976

Bead 2259

Date : Mon Oct 17 13:29:41 PDT 2022

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

Frame size : 10 pixels

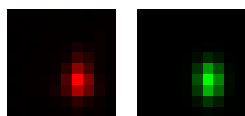
Coordinates : -40.4 μm (x), 63.6 μm (y), 50.1 μm (z)

Corresponding bead : Not found

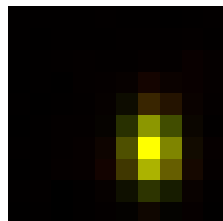
FWHM	Non corrected	Corrected	Theoretical
min	385 nm	398 nm	223 nm
max	551 nm	569 nm	223 nm
z	1.08 μm	1.08 μm	885 nm
Asymmetry	0.699		
Theta	-89.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1624.110 (brightness)

B = 127.391 (background)

a = 0.907 px

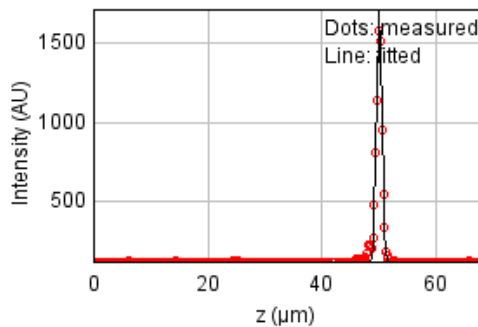
b = -0.008 px

c = 0.443 px

$x_c = 6.139$ px

$y_c = 6.099$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 88175.0994

Standard deviation: 16.94743

R^2 : 0.99058

Parameters:

a = 115.62762

b = 1720.21709

c = 50.10808

d = 0.45797

Bead 2260

Date : Mon Oct 17 13:29:41 PDT 2022

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

Frame size : 10 pixels

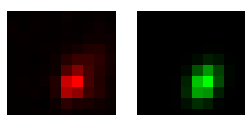
Coordinates : 130 μm (x), 57.0 μm (y), 49.7 μm (z)

Corresponding bead : Not found

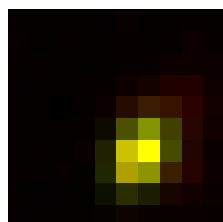
FWHM	Non corrected	Corrected	Theoretical
min	399 nm	412 nm	223 nm
max	554 nm	573 nm	223 nm
z	1.87 μm	1.87 μm	885 nm
Asymmetry	0.719		
Theta	59.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 778.745$ (brightness)

$B = 121.715$ (background)

$a = 0.741$ px

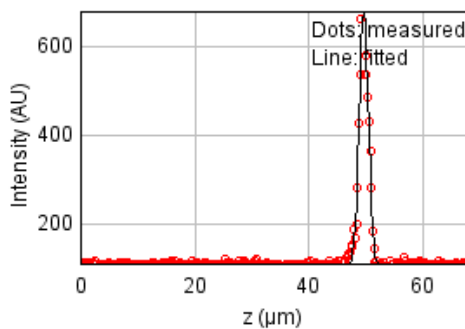
$b = 0.178$ px

$c = 0.541$ px

$x_c = 5.661$ px

$y_c = 6.107$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 37199.9159

Standard deviation: 11.00783

$R^2: 0.98153$

Parameters:

$a = 111.59563$

$b = 680.10664$

$c = 49.69695$

$d = 0.79206$

Bead 2261

Date : Mon Oct 17 13:29:42 PDT 2022

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

Frame size : 10 pixels

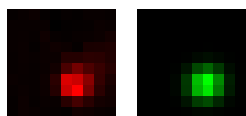
Coordinates : 159 μm (x), 42.4 μm (y), 49.8 μm (z)

Corresponding bead : Not found

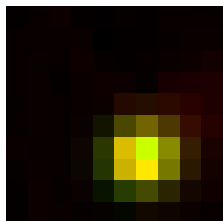
FWHM	Non corrected	Corrected	Theoretical
min	506 nm	523 nm	223 nm
max	542 nm	561 nm	223 nm
z	1.51 μm	1.52 μm	885 nm
Asymmetry	0.932		
Theta	15.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 520.014 (brightness)

B = 116.529 (background)

a = 0.461 px

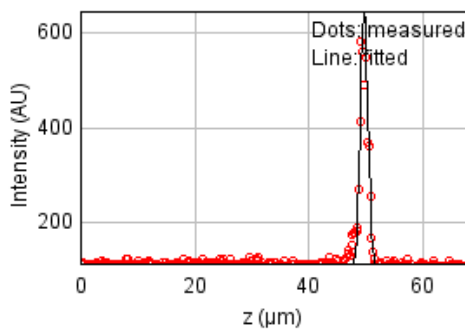
b = 0.018 px

c = 0.520 px

xc = 5.813 px

yc = 6.411 px

Z profile & fitting parameters:



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

Sum of residuals squared: 101268.617

Standard deviation: 18.16219

R^2 : 0.93397

Parameters:

a = 111.14272

b = 646.64836

c = 49.76675

d = 0.64150

Bead 2262 (Rejected)

Date : Mon Oct 17 13:29:42 PDT 2022

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

Frame size : 10 pixels

Coordinates : 47.5 μm (x), 41.6 μm (y), 51.1 μm (z)

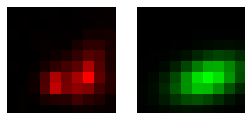
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

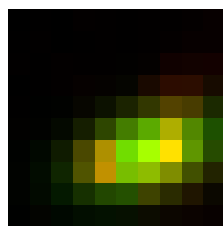
FWHM	Non corrected	Corrected	Theoretical
min	591 nm	611 nm	223 nm
max	1.09 μm	1.12 μm	223 nm
z	1.37 μm	1.37 μm	885 nm
Asymmetry	0.544		
Theta	17.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.845$



Parameters:

A = 998.663 (brightness)

B = 118.338 (background)

a = 0.139 px

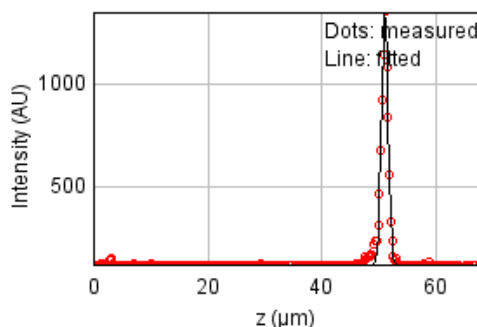
b = 0.078 px

c = 0.360 px

xc = 5.989 px

yc = 6.075 px

Z profile & fitting parameters:



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

Sum of residuals squared: 75179.4109

Standard deviation: 15.64877

R^2 : 0.98932

Parameters:

a = 117.54663

b = 1357.11029

c = 51.10158

d = 0.58036

Bead 2263

Date : Mon Oct 17 13:29:42 PDT 2022

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

Frame size : 10 pixels

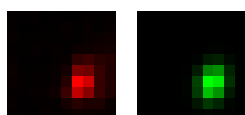
Coordinates : 127 um (x), 20.0 um (y), 49.7 um (z)

Corresponding bead : Not found

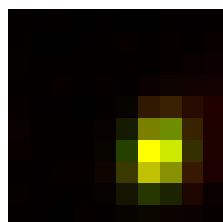
FWHM	Non corrected	Corrected	Theoretical
min	417 nm	431 nm	223 nm
max	542 nm	560 nm	223 nm
z	1.51 um	1.52 um	885 nm
Asymmetry	0.769		
Theta	72.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 872.475 (brightness)

B = 125.489 (background)

a = 0.744 px

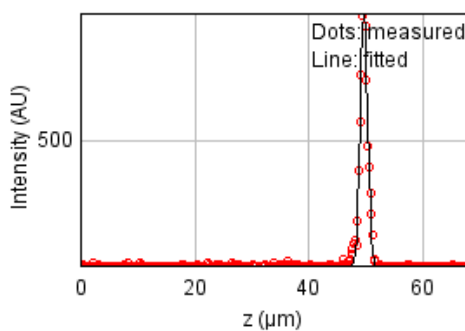
b = 0.092 px

c = 0.486 px

xc = 6.421 px

yc = 6.130 px

Z profile & fitting parameters:



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

Sum of residuals squared: 46375.5294

Standard deviation: 12.29066

R^2 : 0.98507

Parameters:

a = 112.22382

b = 894.77202

c = 49.71794

d = 0.64176

Bead 2264

Date : Mon Oct 17 13:29:42 PDT 2022

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

Frame size : 10 pixels

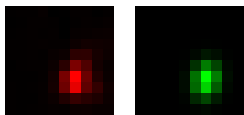
Coordinates : 75.9 μm (x), 16.2 μm (y), 50.4 μm (z)

Corresponding bead : Not found

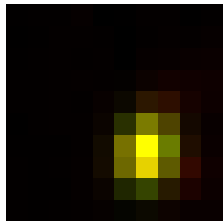
FWHM	Non corrected	Corrected	Theoretical
min	414 nm	428 nm	223 nm
max	543 nm	562 nm	223 nm
z	1.37 μm	1.38 μm	885 nm
Asymmetry	0.761		
Theta	79.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1310.426 (brightness)

B = 128.954 (background)

a = 0.773 px

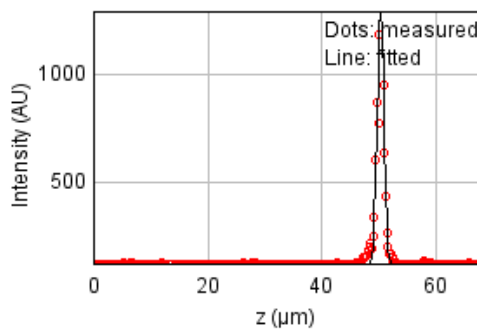
b = 0.059 px

c = 0.465 px

$x_c = 6.008$ 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: 160683.633

Standard deviation: 22.87793

R^2 : 0.97542

Parameters:

a = 114.25362

b = 1297.10597

c = 50.35632

d = 0.58357

Bead 2265

Date : Mon Oct 17 13:29:42 PDT 2022

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

Frame size : 10 pixels

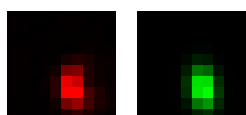
Coordinates : 12.0 μm (x), -3.22 μm (y), 50.5 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	409 nm	422 nm	223 nm
max	643 nm	665 nm	223 nm
z	1.05 μm	1.06 μm	885 nm
Asymmetry	0.636		
Theta	-82.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2142.134 (brightness)

B = 127.708 (background)

a = 0.795 px

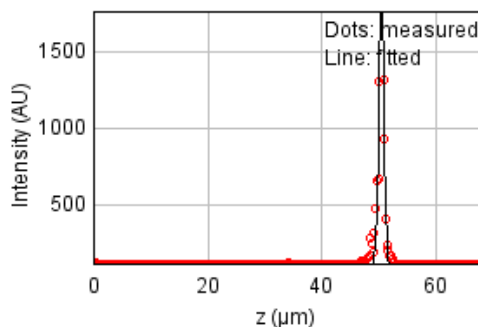
b = -0.063 px

c = 0.333 px

xc = 5.538 px

yc = 6.631 px

Z profile & fitting parameters:



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

Sum of residuals squared: 289162.923

Standard deviation: 30.69037

R^2 : 0.97198

Parameters:

a = 118.22483

b = 1808.25884

c = 50.48909

d = 0.44624

Bead 2266

Date : Mon Oct 17 13:29:42 PDT 2022

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

Frame size : 10 pixels

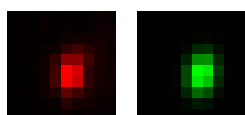
Coordinates : 95.8 μm (x), -13.0 μm (y), 49.8 μm (z)

Corresponding bead : Not found

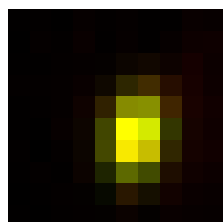
FWHM	Non corrected	Corrected	Theoretical
min	437 nm	451 nm	223 nm
max	627 nm	649 nm	223 nm
z	1.27 μm	1.28 μm	885 nm
Asymmetry	0.696		
Theta	80.2°		

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 = 1016.430 (brightness)

B = 128.740 (background)

a = 0.694 px

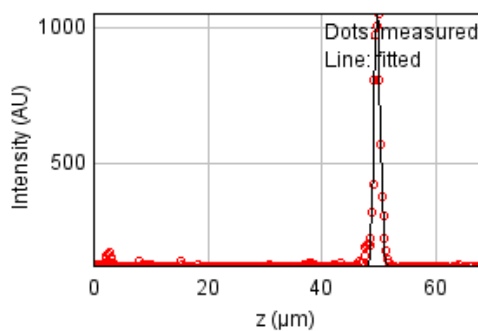
b = 0.061 px

c = 0.351 px

$x_c = 5.410$ px

$y_c = 5.295$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 77029.9224

Standard deviation: 15.84020

R^2 : 0.97976

Parameters:

a = 116.90081

b = 1056.01179

c = 49.76154

d = 0.54005

Bead 2267 (Rejected)

Date : Mon Oct 17 13:29:42 PDT 2022

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

Frame size : 10 pixels

Coordinates : 21.8 μm (x), -29.5 μm (y), 61.1 μm (z)

Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.11 μm	1.12 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

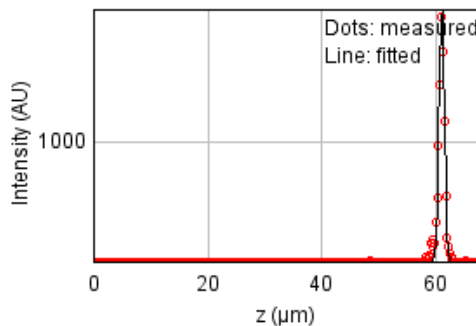
XY profile & fitting parameters :

(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: 129762.908

Standard deviation: 20.55919

R²: 0.99033

Parameters:

a = 115.86281

b = 2007.17456

c = 61.08107

d = 0.47284

Bead 2268

Date : Mon Oct 17 13:29:43 PDT 2022

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

Frame size : 10 pixels

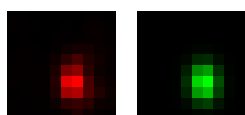
Coordinates : 30.3 μm (x), -37.0 μm (y), 50.0 μm (z)

Corresponding bead : Not found

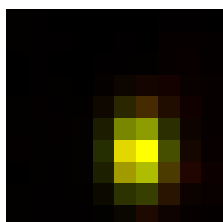
FWHM	Non corrected	Corrected	Theoretical
min	442 nm	457 nm	223 nm
max	581 nm	600 nm	223 nm
z	1.19 μm	1.2 μm	885 nm
Asymmetry	0.762		
Theta	-87.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1477.172 (brightness)

B = 128.479 (background)

a = 0.686 px

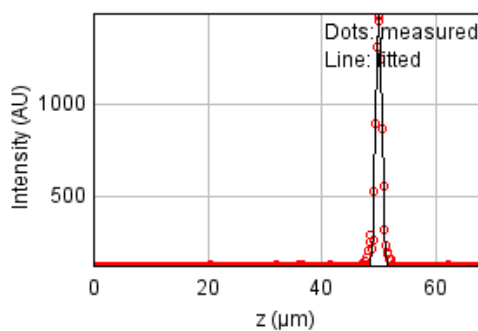
b = -0.011 px

c = 0.399 px

xc = 5.631 px

yc = 6.107 px

Z profile & fitting parameters:



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

Sum of residuals squared: 86082.6584

Standard deviation: 16.74513

R^2 : 0.98923

Parameters:

a = 115.49099

b = 1527.19110

c = 50.04493

d = 0.50600

Bead 2269

Date : Mon Oct 17 13:29:43 PDT 2022

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

Frame size : 10 pixels

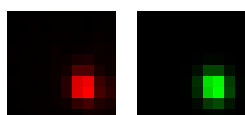
Coordinates : 99.8 μm (x), -75.6 μm (y), 50.0 μm (z)

Corresponding bead : Not found

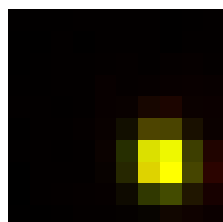
FWHM	Non corrected	Corrected	Theoretical
min	419 nm	434 nm	223 nm
max	467 nm	483 nm	223 nm
z	1.2 μm	1.21 μm	885 nm
Asymmetry	0.898		
Theta	-71.2°		

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 = 1606.272 (brightness)

B = 124.362 (background)

a = 0.747 px

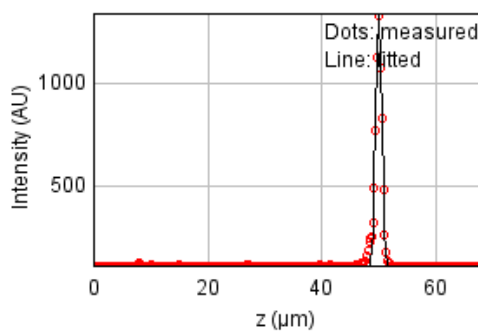
b = -0.045 px

c = 0.630 px

xc = 6.597 px

yc = 6.495 px

Z profile & fitting parameters:



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

Sum of residuals squared: 60624.7705

Standard deviation: 14.05257

R^2 : 0.99029

Parameters:

a = 113.28982

b = 1356.57242

c = 50.04119

d = 0.51002

Bead 2270

Date : Mon Oct 17 13:29:43 PDT 2022

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

Frame size : 10 pixels

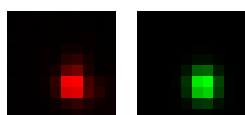
Coordinates : 57.3 μm (x), -82.8 μm (y), 49.9 μm (z)

Corresponding bead : Not found

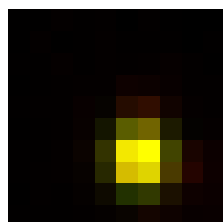
FWHM	Non corrected	Corrected	Theoretical
min	434 nm	448 nm	223 nm
max	488 nm	504 nm	223 nm
z	1.15 μm	1.15 μm	885 nm
Asymmetry	0.889		
Theta	-85.4°		

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 = 1577.924 (brightness)

B = 127.389 (background)

a = 0.713 px

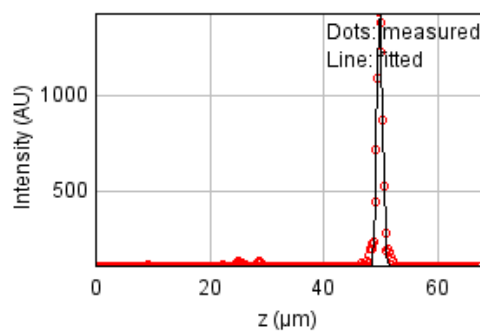
b = -0.012 px

c = 0.565 px

xc = 5.573 px

yc = 6.326 px

Z profile & fitting parameters:



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

Sum of residuals squared: 73640.0477

Standard deviation: 15.48773

R^2 : 0.98916

Parameters:

a = 115.62743

b = 1440.54955

c = 49.86733

d = 0.48773

Bead 2271

Date : Mon Oct 17 13:29:43 PDT 2022

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

Frame size : 10 pixels

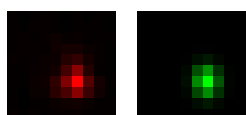
Coordinates : -112 μm (x), 74.6 μm (y), 50.1 μm (z)

Corresponding bead : Not found

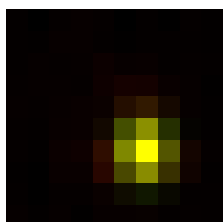
FWHM	Non corrected	Corrected	Theoretical
min	394 nm	407 nm	223 nm
max	478 nm	494 nm	223 nm
z	1.22 μm	1.22 μm	885 nm
Asymmetry	0.825		
Theta	-86.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1131.628 (brightness)

B = 126.968 (background)

a = 0.864 px

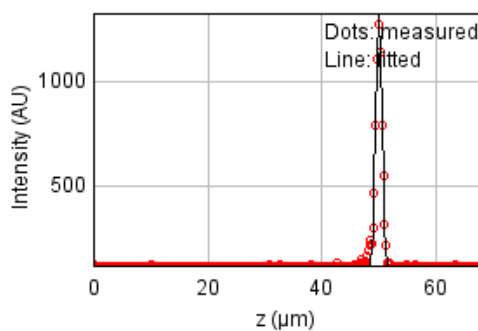
b = -0.017 px

c = 0.589 px

$x_c = 5.865$ px

$y_c = 5.982$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 53619.7710

Standard deviation: 13.21579

R^2 : 0.99143

Parameters:

a = 113.40044

b = 1350.49573

c = 50.05655

d = 0.51739

Bead 2272 (Rejected)

Date : Mon Oct 17 13:29:43 PDT 2022

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

Frame size : 10 pixels

Coordinates : 77.9 μm (x), 73.3 μm (y), 48.5 μm (z)

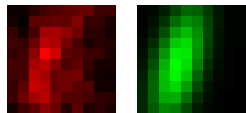
Corresponding bead : Not found

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

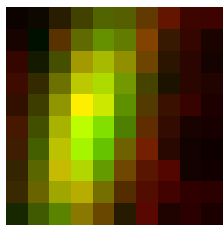
FWHM	Non corrected	Corrected	Theoretical
min	736 nm	761 nm	223 nm
max	1.94 μm	2.01 μm	223 nm
z	1.15 μm	1.16 μm	885 nm
Asymmetry	0.379		
Theta	74.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.772$



Parameters:

A = 96.791 (brightness)

B = 129.391 (background)

a = 0.233 px

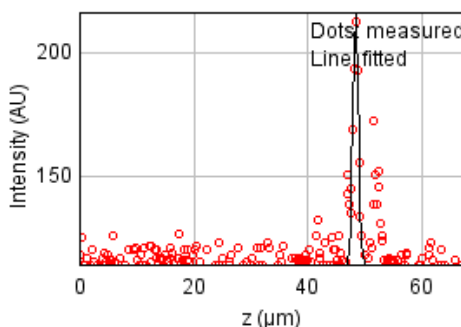
b = 0.053 px

c = 0.050 px

xc = 3.271 px

yc = 4.891 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22748.8342

Standard deviation: 8.60816

R^2 : 0.64297

Parameters:

a = 113.58252

b = 216.88282

c = 48.45236

d = 0.48903

Bead 2273 (Rejected)

Date : Mon Oct 17 13:29:43 PDT 2022

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

Frame size : 10 pixels

Coordinates : 77.9 μm (x), 73.3 μm (y), 48.5 μm (z)

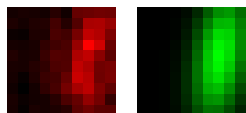
Corresponding bead : Not found

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

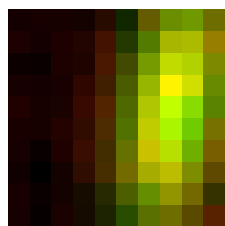
FWHM	Non corrected	Corrected	Theoretical
min	828 nm	856 nm	223 nm
max	2.1 μm	2.17 μm	223 nm
z	1.15 μm	1.16 μm	885 nm
Asymmetry	0.394		
Theta	81.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.887$



Parameters:

A = 116.161 (brightness)

B = 110.811 (background)

a = 0.192 px

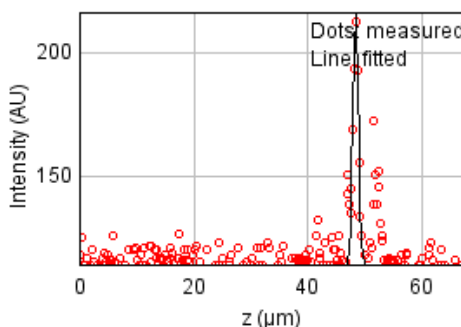
b = 0.025 px

c = 0.034 px

xc = 7.139 px

yc = 3.975 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22748.8342

Standard deviation: 8.60816

R^2 : 0.64297

Parameters:

a = 113.58252

b = 216.88282

c = 48.45236

d = 0.48903

Bead 2274

Date : Mon Oct 17 13:29:44 PDT 2022

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

Frame size : 10 pixels

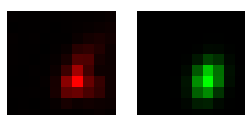
Coordinates : 59.2 um (x), 71.8 um (y), 50.6 um (z)

Corresponding bead : Not found

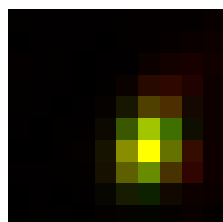
FWHM	Non corrected	Corrected	Theoretical
min	425 nm	439 nm	223 nm
max	586 nm	606 nm	223 nm
z	1.41 um	1.42 um	885 nm
Asymmetry	0.725		
Theta	69.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1173.388 (brightness)

B = 134.397 (background)

a = 0.702 px

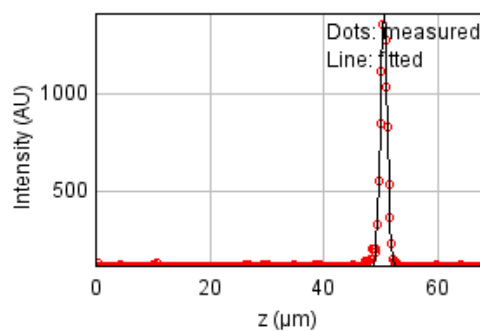
b = 0.115 px

c = 0.433 px

xc = 5.958 px

yc = 5.807 px

Z profile & fitting parameters:



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

Sum of residuals squared: 42314.5453

Standard deviation: 11.74020

R^2 : 0.99463

Parameters:

a = 114.41705

b = 1408.34587

c = 50.58399

d = 0.59938

Bead 2275

Date : Mon Oct 17 13:29:44 PDT 2022

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

Frame size : 10 pixels

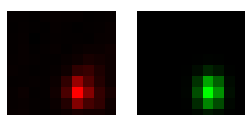
Coordinates : 77.7 μm (x), 9.7 μm (y), 50.1 μm (z)

Corresponding bead : Not found

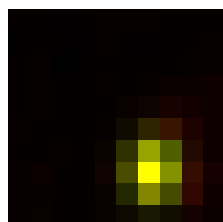
FWHM	Non corrected	Corrected	Theoretical
min	390 nm	403 nm	223 nm
max	496 nm	513 nm	223 nm
z	1.48 μm	1.49 μm	885 nm
Asymmetry	0.785		
Theta	88.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 881.241 (brightness)

B = 123.493 (background)

a = 0.884 px

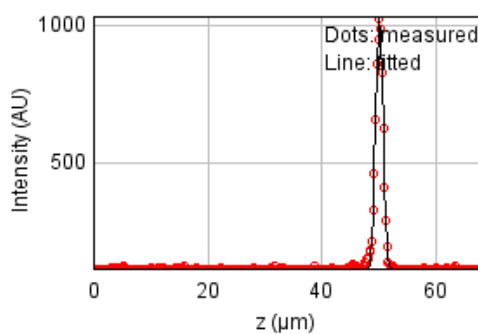
b = 0.009 px

c = 0.545 px

xc = 6.183 px

yc = 6.902 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22203.4311

Standard deviation: 8.50434

R^2 : 0.99466

Parameters:

a = 113.89785

b = 1033.22074

c = 50.13839

d = 0.62842

Bead 2276

Date : Mon Oct 17 13:29:44 PDT 2022

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

Frame size : 10 pixels

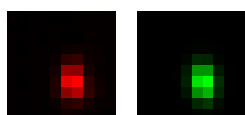
Coordinates : -21.4 μm (x), 2.41 μm (y), 50.2 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	381 nm	394 nm	223 nm
max	553 nm	572 nm	223 nm
z	1.17 μm	1.18 μm	885 nm
Asymmetry	0.69		
Theta	-83.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1817.613 (brightness)

B = 126.940 (background)

a = 0.916 px

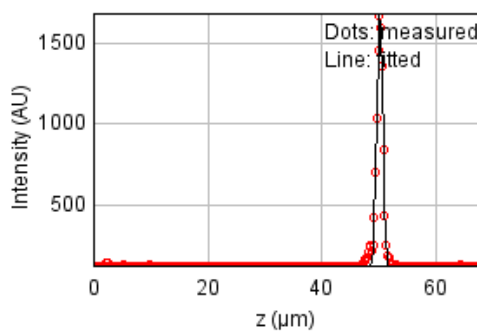
b = -0.052 px

c = 0.444 px

xc = 5.572 px

yc = 6.059 px

Z profile & fitting parameters:



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

Sum of residuals squared: 93040.9133

Standard deviation: 17.40876

R^2 : 0.99058

Parameters:

a = 115.46601

b = 1696.87115

c = 50.21155

d = 0.49886

Bead 2277

Date : Mon Oct 17 13:29:44 PDT 2022

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

Frame size : 10 pixels

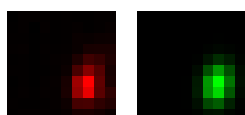
Coordinates : 57.4 μm (x), 1.48 μm (y), 50.4 μm (z)

Corresponding bead : Not found

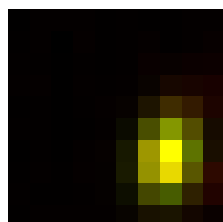
FWHM	Non corrected	Corrected	Theoretical
min	446 nm	461 nm	223 nm
max	634 nm	655 nm	223 nm
z	1.77 μm	1.78 μm	885 nm
Asymmetry	0.703		
Theta	78.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1380.217 (brightness)

B = 127.401 (background)

a = 0.662 px

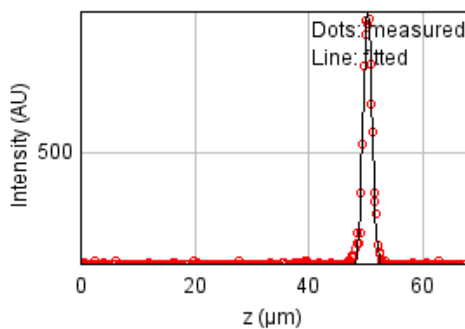
b = 0.065 px

c = 0.347 px

xc = 6.870 px

yc = 6.288 px

Z profile & fitting parameters:



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

Sum of residuals squared: 69549.9343

Standard deviation: 15.05148

R^2 : 0.98478

Parameters:

a = 113.86818

b = 992.49356

c = 50.36519

d = 0.75344

Bead 2278

Date : Mon Oct 17 13:29:45 PDT 2022

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

Frame size : 10 pixels

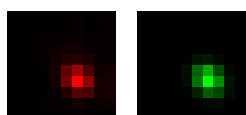
Coordinates : 164 μm (x), -62.2 μm (y), 49.8 μm (z)

Corresponding bead : Not found

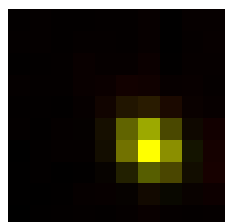
FWHM	Non corrected	Corrected	Theoretical
min	400 nm	413 nm	223 nm
max	490 nm	506 nm	223 nm
z	1.32 μm	1.33 μm	885 nm
Asymmetry	0.817		
Theta	-43.5°		

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 = 831.165 (brightness)

B = 117.166 (background)

a = 0.692 px

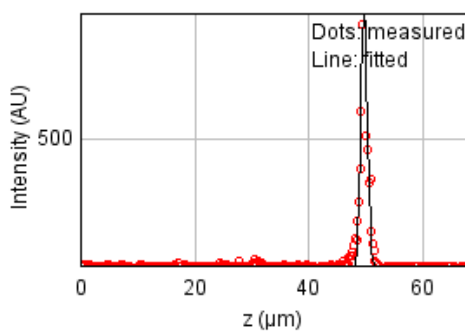
b = -0.140 px

c = 0.707 px

xc = 6.041 px

yc = 5.801 px

Z profile & fitting parameters:



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

Sum of residuals squared: 126877.032

Standard deviation: 20.32929

R^2 : 0.95395

Parameters:

a = 112.50763

b = 885.90815

c = 49.75084

d = 0.56192

Bead 2279

Date : Mon Oct 17 13:29:45 PDT 2022

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

Frame size : 10 pixels

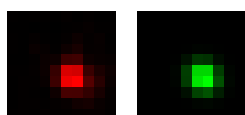
Coordinates : 77.1 μm (x), -80.0 μm (y), 50.2 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	438 nm	453 nm	223 nm
max	478 nm	494 nm	223 nm
z	1.25 μm	1.26 μm	885 nm
Asymmetry	0.917		
Theta	-37.5°		

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 = 1523.372 (brightness)

B = 124.527 (background)

a = 0.629 px

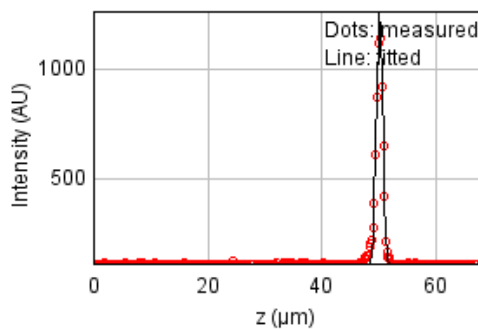
b = -0.054 px

c = 0.657 px

xc = 5.552 px

yc = 5.600 px

Z profile & fitting parameters:



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

Sum of residuals squared: 50203.1647

Standard deviation: 12.78782

R^2 : 0.99097

Parameters:

a = 114.80991

b = 1265.87597

c = 50.16971

d = 0.53096

Bead 2280

Date : Mon Oct 17 13:29:45 PDT 2022

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

Frame size : 10 pixels

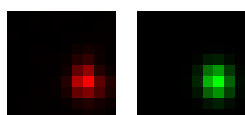
Coordinates : -49.5 nm (x), -83.6 um (y), 50.2 um (z)

Corresponding bead : Not found

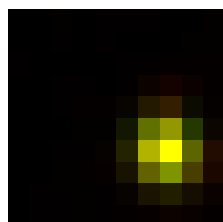
FWHM	Non corrected	Corrected	Theoretical
min	454 nm	469 nm	223 nm
max	506 nm	523 nm	223 nm
z	1.19 um	1.19 um	885 nm
Asymmetry	0.896		
Theta	-75.5°		

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 = 1924.011 (brightness)

B = 128.197 (background)

a = 0.644 px

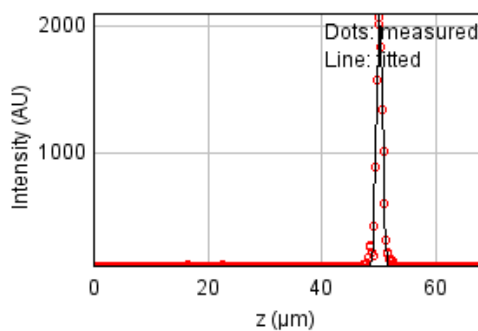
b = -0.031 px

c = 0.531 px

xc = 6.775 px

yc = 5.977 px

Z profile & fitting parameters:



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

Sum of residuals squared: 170605.975

Standard deviation: 23.57371

R^2 : 0.98912

Parameters:

a = 115.52975

b = 2095.62348

c = 50.15306

d = 0.50414

Bead 2281

Date : Mon Oct 17 13:29:45 PDT 2022

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

Frame size : 10 pixels

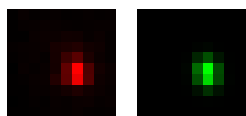
Coordinates : -162 μm (x), 89.7 μm (y), 50.1 μm (z)

Corresponding bead : Not found

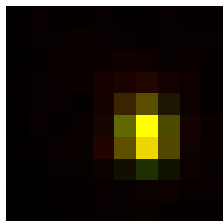
FWHM	Non corrected	Corrected	Theoretical
min	355 nm	367 nm	223 nm
max	448 nm	464 nm	223 nm
z	1.39 μm	1.4 μm	885 nm
Asymmetry	0.791		
Theta	-81.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 932.671 (brightness)

B = 119.615 (background)

a = 1.058 px

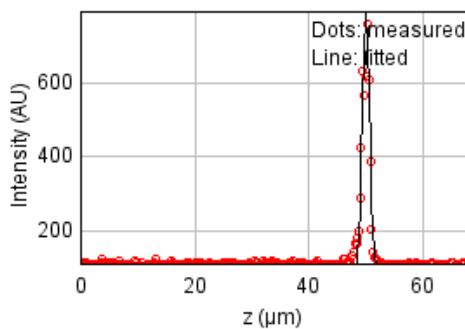
b = -0.057 px

c = 0.676 px

xc = 5.943 px

yc = 5.369 px

Z profile & fitting parameters:



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

Sum of residuals squared: 108036.355

Standard deviation: 18.75926

R^2 : 0.95286

Parameters:

a = 111.18167

b = 799.25155

c = 50.07085

d = 0.59084

Bead 2282

Date : Mon Oct 17 13:29:45 PDT 2022

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

Frame size : 10 pixels

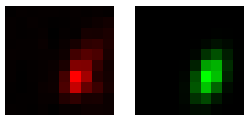
Coordinates : 108 μm (x), 79.2 μm (y), 50.4 μm (z)

Corresponding bead : Not found

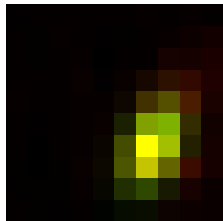
FWHM	Non corrected	Corrected	Theoretical
min	402 nm	415 nm	223 nm
max	688 nm	711 nm	223 nm
z	1.47 μm	1.47 μm	885 nm
Asymmetry	0.584		
Theta	67.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 989.749 (brightness)

B = 128.594 (background)

a = 0.751 px

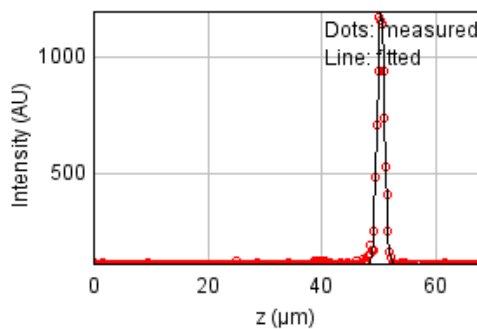
b = 0.195 px

c = 0.365 px

$x_c = 6.319$ px

$y_c = 5.966$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 39096.4781

Standard deviation: 11.28495

R^2 : 0.99322

Parameters:

a = 111.97364

b = 1197.07467

c = 50.40502

d = 0.62371

Bead 2283

Date : Mon Oct 17 13:29:45 PDT 2022

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

Frame size : 10 pixels

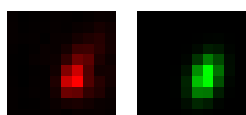
Coordinates : 91.0 μm (x), 54.2 μm (y), 50.6 μm (z)

Corresponding bead : Not found

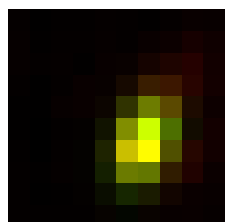
FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	660 nm	682 nm	223 nm
z	1.32 μm	1.33 μm	885 nm
Asymmetry	0.634		
Theta	69.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1029.433 (brightness)

B = 131.008 (background)

a = 0.709 px

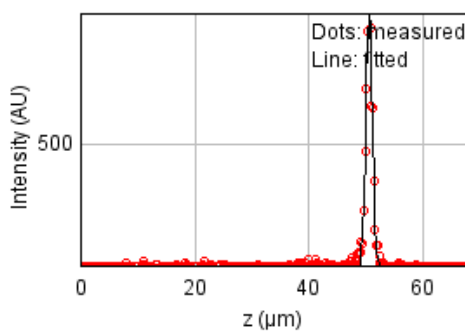
b = 0.154 px

c = 0.368 px

$x_c = 5.789$ px

$y_c = 5.569$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 47321.0335

Standard deviation: 12.41532

R^2 : 0.98338

Parameters:

a = 115.13993

b = 913.19508

c = 50.63343

d = 0.56230

Bead 2284

Date : Mon Oct 17 13:29:45 PDT 2022

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

Frame size : 10 pixels

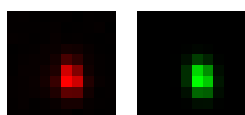
Coordinates : -76.5 μm (x), 21.6 μm (y), 50.5 μm (z)

Corresponding bead : Not found

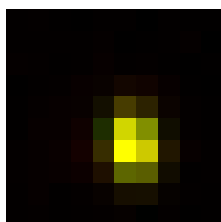
FWHM	Non corrected	Corrected	Theoretical
min	367 nm	379 nm	223 nm
max	502 nm	519 nm	223 nm
z	1.18 μm	1.18 μm	885 nm
Asymmetry	0.73		
Theta	-79.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.989$



Parameters:

A = 1752.371 (brightness)

B = 131.897 (background)

a = 0.984 px

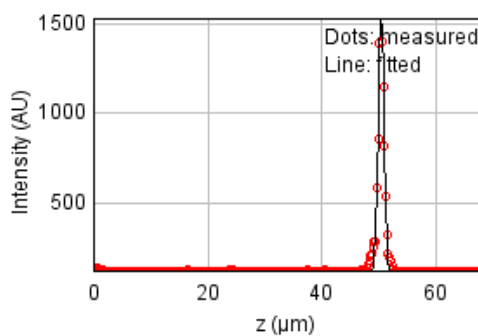
b = -0.082 px

c = 0.548 px

$x_c = 5.354$ px

$y_c = 5.715$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 108718.873

Standard deviation: 18.81843

R^2 : 0.98658

Parameters:

a = 116.08010

b = 1544.65545

c = 50.45130

d = 0.49901

Bead 2285

Date : Mon Oct 17 13:29:46 PDT 2022

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

Frame size : 10 pixels

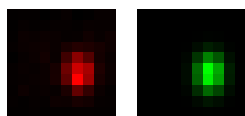
Coordinates : -157 μm (x), 8.71 μm (y), 50.4 μm (z)

Corresponding bead : Not found

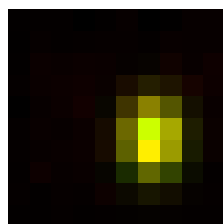
FWHM	Non corrected	Corrected	Theoretical
min	451 nm	467 nm	223 nm
max	594 nm	615 nm	223 nm
z	1.3 μm	1.3 μm	885 nm
Asymmetry	0.759		
Theta	89.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 649.858 (brightness)

B = 117.803 (background)

a = 0.659 px

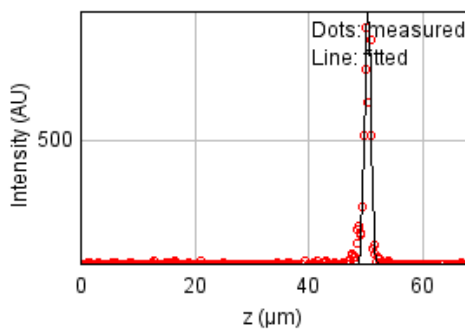
b = 0.003 px

c = 0.380 px

$x_c = 6.179$ px

$y_c = 5.402$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 210745.961

Standard deviation: 26.20055

R^2 : 0.92711

Parameters:

a = 111.37528

b = 900.48827

c = 50.39026

d = 0.55015

Bead 2286

Date : Mon Oct 17 13:29:46 PDT 2022

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

Frame size : 10 pixels

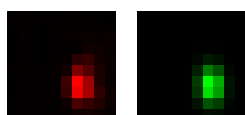
Coordinates : 11.9 μm (x), 3.66 μm (y), 50.3 μm (z)

Corresponding bead : Not found

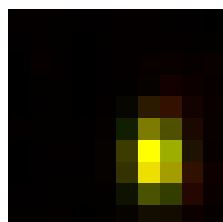
FWHM	Non corrected	Corrected	Theoretical
min	381 nm	394 nm	223 nm
max	560 nm	579 nm	223 nm
z	1.32 μm	1.32 μm	885 nm
Asymmetry	0.68		
Theta	-88.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1406.381 (brightness)

B = 125.218 (background)

a = 0.924 px

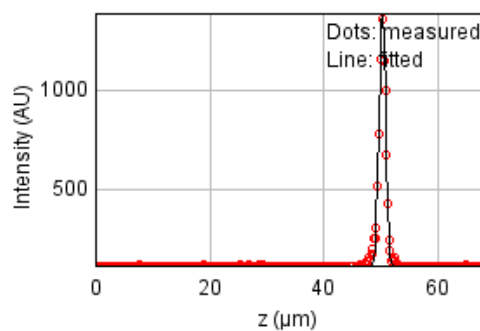
b = -0.017 px

c = 0.429 px

$x_c = 6.297$ px

$y_c = 6.357$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 68229.7805

Standard deviation: 14.90795

R^2 : 0.99055

Parameters:

a = 114.61347

b = 1392.84402

c = 50.31549

d = 0.55975

Bead 2287

Date : Mon Oct 17 13:29:46 PDT 2022

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

Frame size : 10 pixels

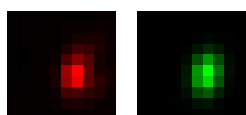
Coordinates : 57.4 μm (x), 1.48 μm (y), 50.4 μm (z)

Corresponding bead : Not found

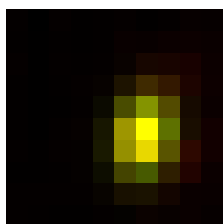
FWHM	Non corrected	Corrected	Theoretical
min	441 nm	456 nm	223 nm
max	625 nm	646 nm	223 nm
z	1.77 μm	1.78 μm	885 nm
Asymmetry	0.705		
Theta	78.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1382.081 (brightness)

B = 135.066 (background)

a = 0.677 px

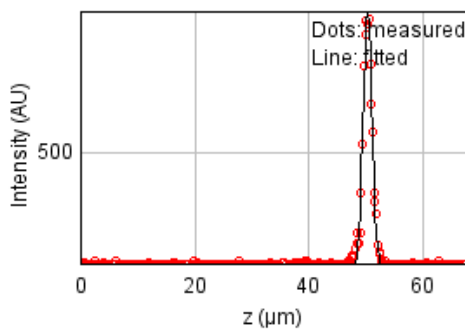
b = 0.066 px

c = 0.357 px

xc = 5.868 px

yc = 5.290 px

Z profile & fitting parameters:



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

Sum of residuals squared: 69549.9343

Standard deviation: 15.05148

R^2 : 0.98478

Parameters:

a = 113.86818

b = 992.49356

c = 50.36519

d = 0.75344

Bead 2288

Date : Mon Oct 17 13:29:46 PDT 2022

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

Frame size : 10 pixels

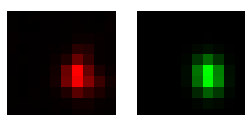
Coordinates : 29.9 μm (x), -92.3 μm (y), 50.1 μm (z)

Corresponding bead : Not found

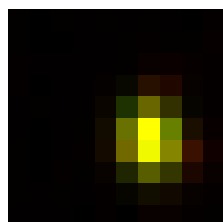
FWHM	Non corrected	Corrected	Theoretical
min	423 nm	437 nm	223 nm
max	535 nm	553 nm	223 nm
z	1.31 μm	1.31 μm	885 nm
Asymmetry	0.79		
Theta	-83.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1754.144 (brightness)

B = 129.048 (background)

a = 0.748 px

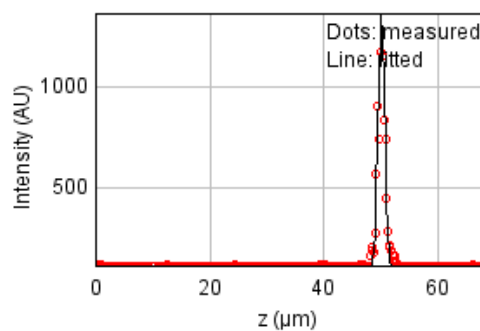
b = -0.032 px

c = 0.472 px

xc = 6.059 px

yc = 5.477 px

Z profile & fitting parameters:



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

Sum of residuals squared: 376999.897

Standard deviation: 35.04301

R^2 : 0.94730

Parameters:

a = 115.02999

b = 1363.50559

c = 50.14116

d = 0.55577

Bead 2289

Date : Mon Oct 17 13:29:46 PDT 2022

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

Frame size : 10 pixels

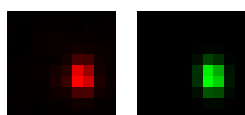
Coordinates : -155 μm (x), 34.8 μm (y), 50.5 μm (z)

Corresponding bead : Not found

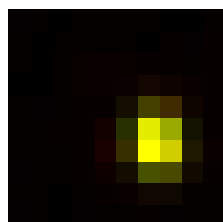
FWHM	Non corrected	Corrected	Theoretical
min	372 nm	385 nm	223 nm
max	473 nm	489 nm	223 nm
z	1.06 μm	1.06 μm	885 nm
Asymmetry	0.787		
Theta	-81.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1350.644 (brightness)

B = 122.733 (background)

a = 0.961 px

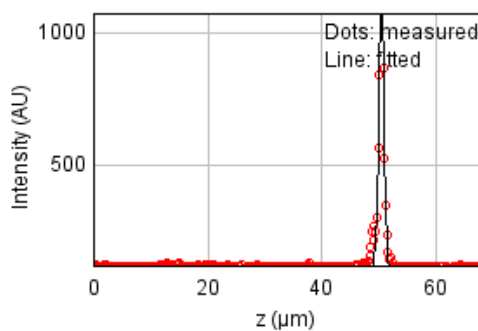
b = -0.053 px

c = 0.608 px

xc = 6.364 px

yc = 5.599 px

Z profile & fitting parameters:



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

Sum of residuals squared: 80934.0312

Standard deviation: 16.23665

R^2 : 0.97697

Parameters:

a = 113.90834

b = 1100.22656

c = 50.49009

d = 0.44859

Bead 2290

Date : Mon Oct 17 13:29:46 PDT 2022

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

Frame size : 10 pixels

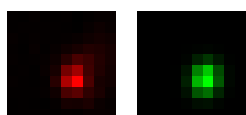
Coordinates : 138 μm (x), 31.1 μm (y), 50.4 μm (z)

Corresponding bead : Not found

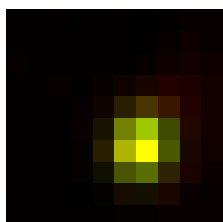
FWHM	Non corrected	Corrected	Theoretical
min	431 nm	446 nm	223 nm
max	502 nm	519 nm	223 nm
z	1.29 μm	1.3 μm	885 nm
Asymmetry	0.86		
Theta	75.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 864.202 (brightness)

B = 126.487 (background)

a = 0.710 px

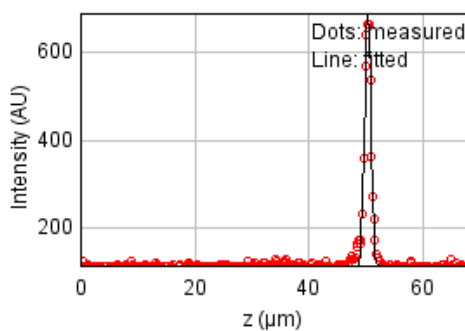
b = 0.045 px

c = 0.545 px

xc = 5.762 px

yc = 5.744 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29868.9285

Standard deviation: 9.86372

R^2 : 0.97949

Parameters:

a = 111.91436

b = 688.24767

c = 50.38957

d = 0.54874

Bead 2291

Date : Mon Oct 17 13:29:46 PDT 2022

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

Frame size : 10 pixels

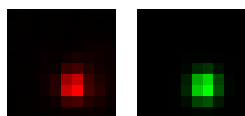
Coordinates : 119 μm (x), -9.82 μm (y), 50.8 μm (z)

Corresponding bead : Not found

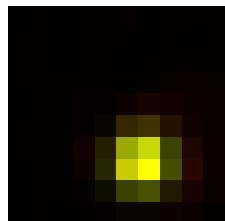
FWHM	Non corrected	Corrected	Theoretical
min	433 nm	447 nm	223 nm
max	454 nm	469 nm	223 nm
z	1.13 μm	1.13 μm	885 nm
Asymmetry	0.953		
Theta	82.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1648.484 (brightness)

B = 131.420 (background)

a = 0.716 px

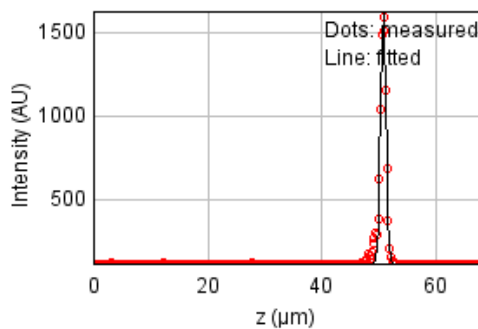
b = 0.008 px

c = 0.653 px

xc = 5.668 px

yc = 6.630 px

Z profile & fitting parameters:



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

Sum of residuals squared: 110731.685

Standard deviation: 18.99183

R^2 : 0.98729

Parameters:

a = 114.32563

b = 1625.71417

c = 50.83302

d = 0.47936

Bead 2292

Date : Mon Oct 17 13:29:47 PDT 2022

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

Frame size : 10 pixels

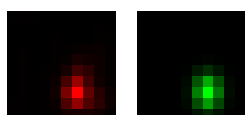
Coordinates : 24.0 μm (x), -10.5 μm (y), 51.0 μm (z)

Corresponding bead : Not found

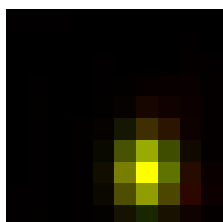
FWHM	Non corrected	Corrected	Theoretical
min	422 nm	437 nm	223 nm
max	546 nm	565 nm	223 nm
z	1.18 μm	1.18 μm	885 nm
Asymmetry	0.773		
Theta	89.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2026.086 (brightness)

B = 131.736 (background)

a = 0.752 px

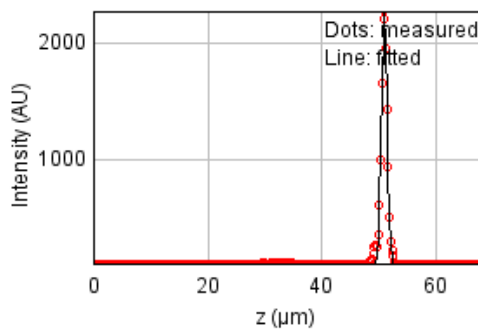
b = 0.003 px

c = 0.449 px

$x_c = 5.971$ px

$y_c = 6.953$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 118253.620

Standard deviation: 19.62628

R^2 : 0.99351

Parameters:

a = 118.30843

b = 2264.17826

c = 51.00408

d = 0.50087

Bead 2293

Date : Mon Oct 17 13:29:47 PDT 2022

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

Frame size : 10 pixels

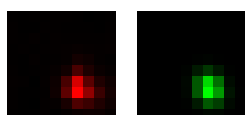
Coordinates : 93.3 μm (x), -73.8 μm (y), 50.6 μm (z)

Corresponding bead : Not found

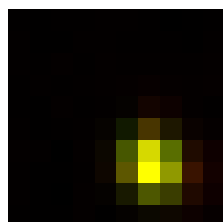
FWHM	Non corrected	Corrected	Theoretical
min	402 nm	416 nm	223 nm
max	476 nm	493 nm	223 nm
z	1.41 μm	1.41 μm	885 nm
Asymmetry	0.844		
Theta	-68.1°		

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 = 1434.796 (brightness)

B = 123.437 (background)

a = 0.797 px

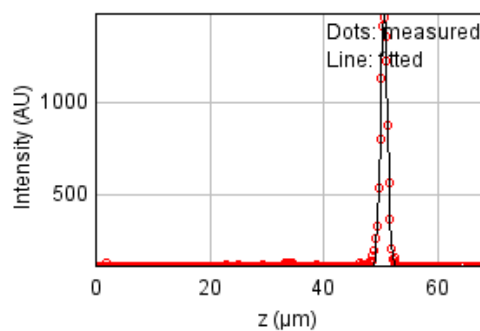
b = -0.083 px

c = 0.624 px

xc = 6.142 px

yc = 6.650 px

Z profile & fitting parameters:



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

Sum of residuals squared: 50054.5453

Standard deviation: 12.76887

R^2 : 0.99430

Parameters:

a = 114.92758

b = 1482.15969

c = 50.61460

d = 0.59843

Bead 2294

Date : Mon Oct 17 13:29:47 PDT 2022

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

Frame size : 10 pixels

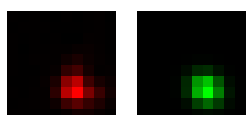
Coordinates : 55.6 μm (x), -94.8 μm (y), 51.0 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	458 nm	473 nm	223 nm
max	514 nm	531 nm	223 nm
z	1.34 μm	1.35 μm	885 nm
Asymmetry	0.891		
Theta	-34.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2066.881 (brightness)

B = 129.917 (background)

a = 0.550 px

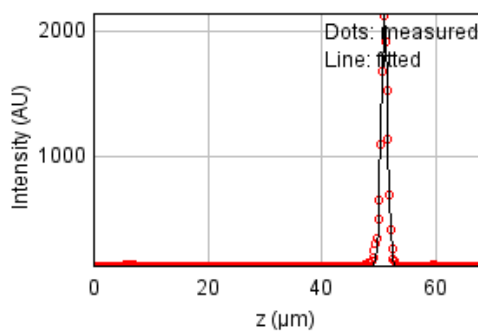
b = -0.061 px

c = 0.599 px

$x_c = 5.817$ px

$y_c = 6.714$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 106682.468

Standard deviation: 18.64135

R^2 : 0.99418

Parameters:

a = 115.87202

b = 2139.64536

c = 51.01989

d = 0.56923

Bead 2295

Date : Mon Oct 17 13:29:47 PDT 2022

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

Frame size : 10 pixels

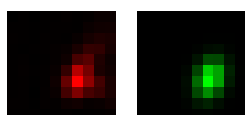
Coordinates : 64.3 μm (x), 93.1 μm (y), 51.2 μm (z)

Corresponding bead : Not found

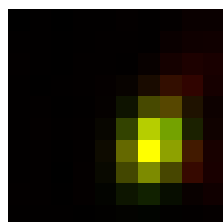
FWHM	Non corrected	Corrected	Theoretical
min	432 nm	447 nm	223 nm
max	600 nm	620 nm	223 nm
z	1.5 μm	1.51 μm	885 nm
Asymmetry	0.72		
Theta	70.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1282.802 (brightness)

B = 134.411 (background)

a = 0.679 px

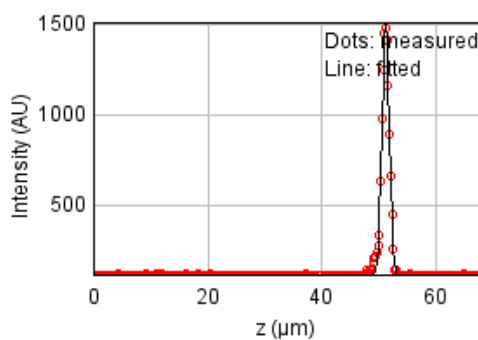
b = 0.111 px

c = 0.413 px

$x_c = 6.207$ px

$y_c = 5.709$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 54049.9210

Standard deviation: 13.26870

R^2 : 0.99444

Parameters:

a = 114.11971

b = 1509.51158

c = 51.24729

d = 0.63716

Bead 2296

Date : Mon Oct 17 13:29:47 PDT 2022

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

Frame size : 10 pixels

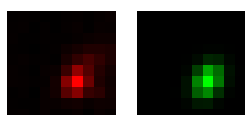
Coordinates : 136 μm (x), 83.4 μm (y), 50.9 μm (z)

Corresponding bead : Not found

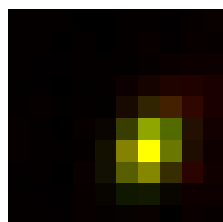
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	421 nm	223 nm
max	549 nm	568 nm	223 nm
z	1.49 μm	1.5 μm	885 nm
Asymmetry	0.742		
Theta	60.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 878.475 (brightness)

B = 125.829 (background)

a = 0.721 px

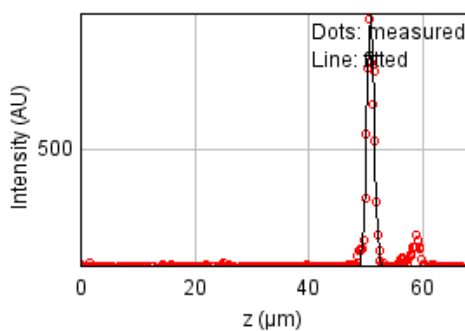
b = 0.156 px

c = 0.533 px

$x_c = 5.990$ px

$y_c = 5.907$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 153636.175

Standard deviation: 22.37060

R^2 : 0.95739

Parameters:

a = 115.48877

b = 951.80383

c = 50.87132

d = 0.63360

Bead 2297

Date : Mon Oct 17 13:29:47 PDT 2022

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

Frame size : 10 pixels

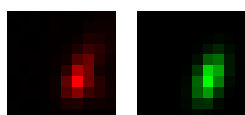
Coordinates : 46.7 μm (x), 69.8 μm (y), 51.3 μm (z)

Corresponding bead : Not found

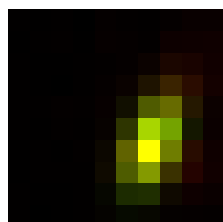
FWHM	Non corrected	Corrected	Theoretical
min	383 nm	396 nm	223 nm
max	720 nm	744 nm	223 nm
z	1.37 μm	1.38 μm	885 nm
Asymmetry	0.532		
Theta	69.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1081.965 (brightness)

B = 130.503 (background)

a = 0.832 px

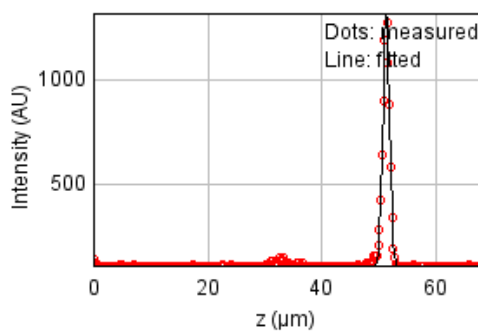
b = 0.219 px

c = 0.342 px

xc = 6.164 px

yc = 5.652 px

Z profile & fitting parameters:



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

Sum of residuals squared: 46602.6766

Standard deviation: 12.32072

R^2 : 0.99298

Parameters:

a = 117.09832

b = 1320.65160

c = 51.33485

d = 0.58271

Bead 2298

Date : Mon Oct 17 13:29:48 PDT 2022

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

Frame size : 10 pixels

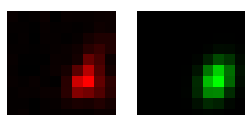
Coordinates : 86.2 μm (x), 63.4 μm (y), 50.6 μm (z)

Corresponding bead : Not found

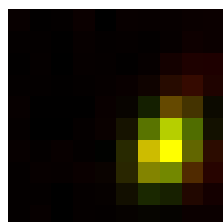
FWHM	Non corrected	Corrected	Theoretical
min	444 nm	459 nm	223 nm
max	622 nm	643 nm	223 nm
z	1.27 μm	1.27 μm	885 nm
Asymmetry	0.713		
Theta	62.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 547.755$ (brightness)

$B = 117.044$ (background)

$a = 0.611$ px

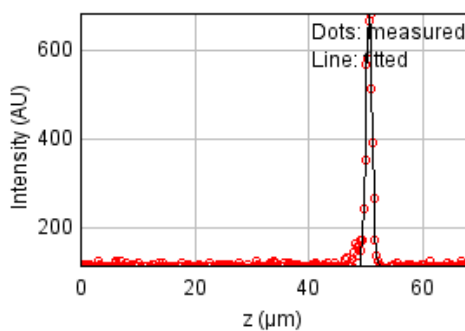
$b = 0.137$ px

$c = 0.417$ px

$x_c = 6.791$ px

$y_c = 5.818$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 32454.4659

Standard deviation: 10.28177

$R^2: 0.97680$

Parameters:

$a = 113.04703$

$b = 682.01590$

$c = 50.61577$

$d = 0.53921$

Bead 2299

Date : Mon Oct 17 13:29:48 PDT 2022

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

Frame size : 10 pixels

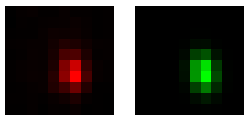
Coordinates : -116 μm (x), 52.2 μm (y), 50.7 μm (z)

Corresponding bead : Not found

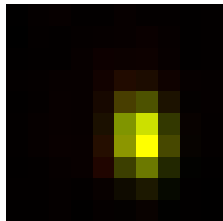
FWHM	Non corrected	Corrected	Theoretical
min	384 nm	397 nm	223 nm
max	559 nm	578 nm	223 nm
z	1.28 μm	1.29 μm	885 nm
Asymmetry	0.687		
Theta	-82.5°		

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 = 1254.131 (brightness)

B = 129.034 (background)

a = 0.901 px

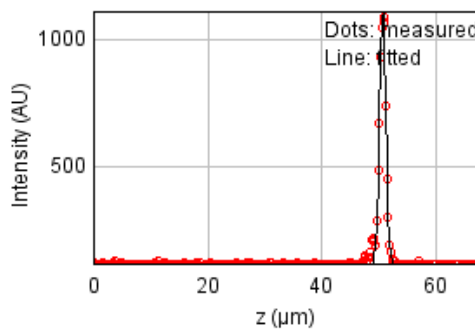
b = -0.062 px

c = 0.438 px

$x_c = 5.770$ px

$y_c = 5.617$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 60435.2657

Standard deviation: 14.03059

R^2 : 0.98623

Parameters:

a = 114.13810

b = 1121.99275

c = 50.73521

d = 0.54449

Bead 2300

Date : Mon Oct 17 13:29:48 PDT 2022

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

Frame size : 10 pixels

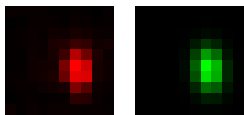
Coordinates : -161 μm (x), 37.3 μm (y), 50.7 μm (z)

Corresponding bead : Not found

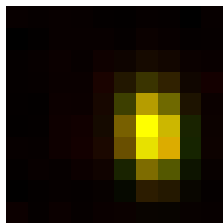
FWHM	Non corrected	Corrected	Theoretical
min	451 nm	467 nm	223 nm
max	666 nm	689 nm	223 nm
z	1.45 μm	1.46 μm	885 nm
Asymmetry	0.678		
Theta	-84.5°		

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 = 674.618 (brightness)

B = 120.164 (background)

a = 0.655 px

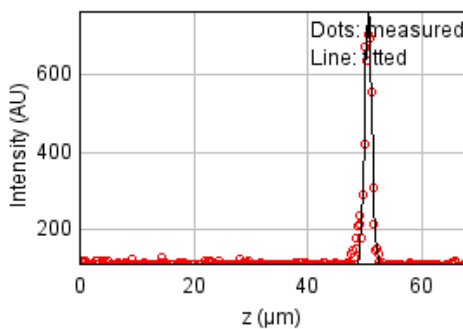
b = -0.034 px

c = 0.306 px

xc = 6.262 px

yc = 5.322 px

Z profile & fitting parameters:



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

Sum of residuals squared: 94885.7709

Standard deviation: 17.58051

R^2 : 0.95552

Parameters:

a = 112.69349

b = 764.19930

c = 50.66110

d = 0.61583