

Bead 1001

Date : Mon Oct 17 13:51:42 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

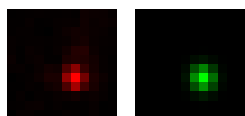
Coordinates : -69.3 μm (x), -51.4 μm (y), 20.0 μm (z)

Corresponding bead : Not found

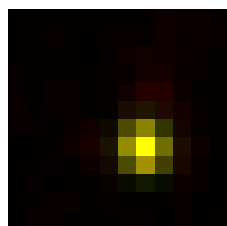
FWHM	Non corrected	Corrected	Theoretical
min	427 nm	445 nm	270 nm
max	468 nm	488 nm	270 nm
z	2.04 μm	2.05 μm	1.3 μm
Asymmetry	0.912		
Theta	-78.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 674.501 (brightness)

B = 124.952 (background)

a = 0.731 px

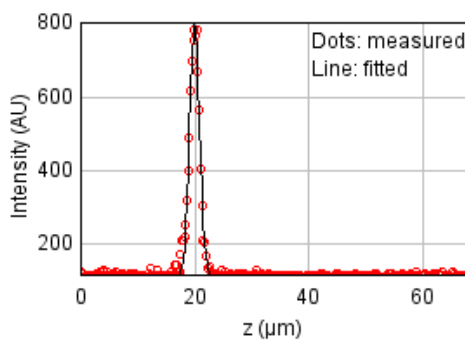
b = -0.023 px

c = 0.617 px

xc = 6.916 px

yc = 7.038 px

Z profile & fitting parameters:



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

Sum of residuals squared: 35416.1311

Standard deviation: 10.74067

R^2 : 0.98894

Parameters:

a = 112.96793

b = 802.38551

c = 20.04873

d = 0.86592

Bead 1002

Date : Mon Oct 17 13:51:42 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

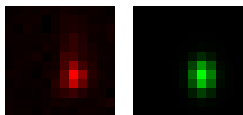
Coordinates : 76.8 μm (x), -54.7 μm (y), 19.9 μm (z)

Corresponding bead : Not found

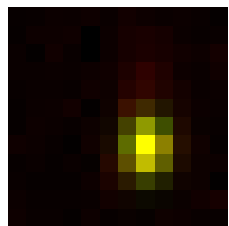
FWHM	Non corrected	Corrected	Theoretical
min	416 nm	433 nm	270 nm
max	575 nm	599 nm	270 nm
z	2.1 μm	2.11 μm	1.3 μm
Asymmetry	0.723		
Theta	89.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 373.054$ (brightness)

$B = 120.396$ (background)

$a = 0.777$ px

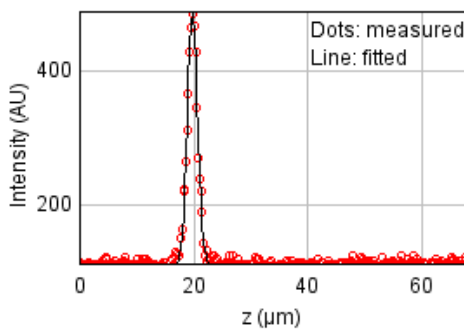
$b = 0.001$ px

$c = 0.406$ px

$x_c = 7.058$ px

$y_c = 7.125$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 15747.9241

Standard deviation: 7.16213

$R^2: 0.98399$

Parameters:

$a = 113.03670$

$b = 489.01417$

$c = 19.86028$

$d = 0.89166$

Bead 1003

Date : Mon Oct 17 13:51:42 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

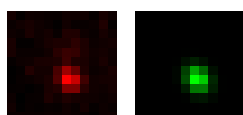
Coordinates : -143 μm (x), 95.2 μm (y), 19.5 μm (z)

Corresponding bead : Not found

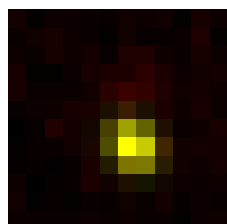
FWHM	Non corrected	Corrected	Theoretical
min	408 nm	425 nm	270 nm
max	504 nm	525 nm	270 nm
z	2.36 μm	2.37 μm	1.3 μm
Asymmetry	0.811		
Theta	-55.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 247.963$ (brightness)

$B = 116.736$ (background)

$a = 0.718$ px

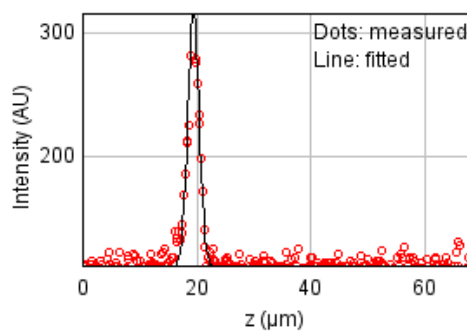
$b = -0.128$ px

$c = 0.616$ px

$x_c = 6.329$ px

$y_c = 6.933$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 18054.8639

Standard deviation: 7.66881

$R^2: 0.94648$

Parameters:

$a = 111.61794$

$b = 315.73107$

$c = 19.50015$

$d = 1.00389$

Bead 1004

Date : Mon Oct 17 13:51:43 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

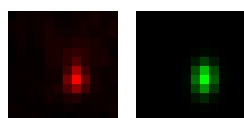
Coordinates : 32.8 μm (x), 85.3 μm (y), 20.2 μm (z)

Corresponding bead : Not found

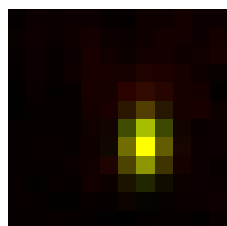
FWHM	Non corrected	Corrected	Theoretical
min	378 nm	393 nm	270 nm
max	568 nm	591 nm	270 nm
z	2.01 μm	2.02 μm	1.3 μm
Asymmetry	0.665		
Theta	87.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 412.983 (brightness)

B = 125.966 (background)

a = 0.940 px

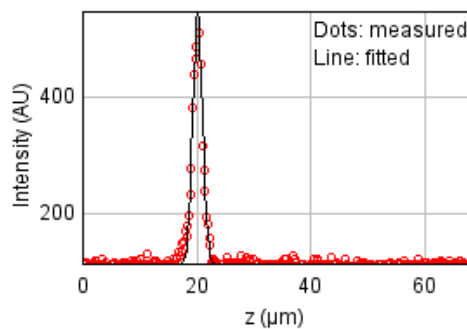
b = 0.028 px

c = 0.418 px

xc = 6.958 px

yc = 6.861 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29711.4718

Standard deviation: 9.83768

R^2 : 0.97643

Parameters:

a = 114.40595

b = 547.14268

c = 20.24418

d = 0.85386

Bead 1005

Date : Mon Oct 17 13:51:43 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

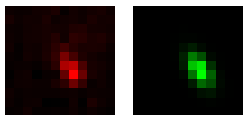
Coordinates : 36.2 μm (x), 71.3 μm (y), 19.7 μm (z)

Corresponding bead : Not found

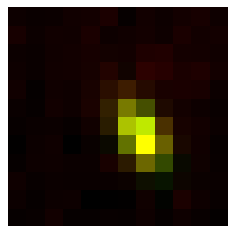
FWHM	Non corrected	Corrected	Theoretical
min	356 nm	371 nm	270 nm
max	640 nm	666 nm	270 nm
z	2.24 μm	2.25 μm	1.3 μm
Asymmetry	0.557		
Theta	-61.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 305.526 (brightness)

B = 123.403 (background)

a = 0.885 px

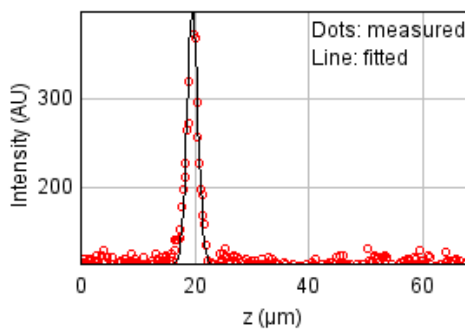
b = -0.309 px

c = 0.500 px

xc = 6.754 px

yc = 6.436 px

Z profile & fitting parameters:



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

Sum of residuals squared: 26721.1263

Standard deviation: 9.32950

R^2 : 0.95667

Parameters:

a = 114.92529

b = 399.57046

c = 19.68507

d = 0.95123

Bead 1006 (Rejected)

Date : Mon Oct 17 13:51:43 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : 52.8 um (x), 70.1 um (y), 57.8 um (z)

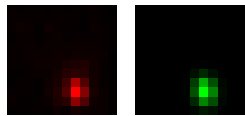
Corresponding bead : Not found

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

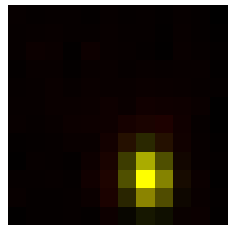
FWHM	Non corrected	Corrected	Theoretical
min	382 nm	398 nm	270 nm
max	507 nm	528 nm	270 nm
z	3.33 um	3.34 um	1.3 um
Asymmetry	0.752		
Theta	-82.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 936.759 (brightness)

B = 130.613 (background)

a = 0.913 px

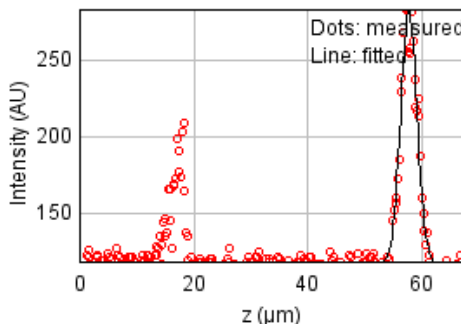
b = -0.055 px

c = 0.529 px

xc = 7.129 px

yc = 8.889 px

Z profile & fitting parameters:



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

Sum of residuals squared: 75230.0005

Standard deviation: 15.65404

R^2 : 0.79586

Parameters:

a = 117.47396

b = 284.17874

c = 57.76120

d = 1.41467

Bead 1007 (Rejected)

Date : Mon Oct 17 13:51:43 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : -79.7 μm (x), 20.4 μm (y), 19.1 μm (z)

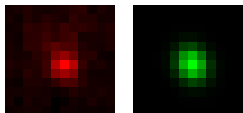
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	560 nm	584 nm	270 nm
max	652 nm	679 nm	270 nm
z	3.14 μm	3.15 μm	1.3 μm
Asymmetry	0.859		
Theta	-64.3°		

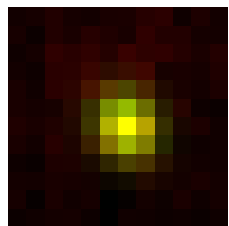
XY profile & fitting parameters :

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



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

$R^2 = 0.895$



Parameters:

A = 198.957 (brightness)

B = 120.201 (background)

a = 0.406 px

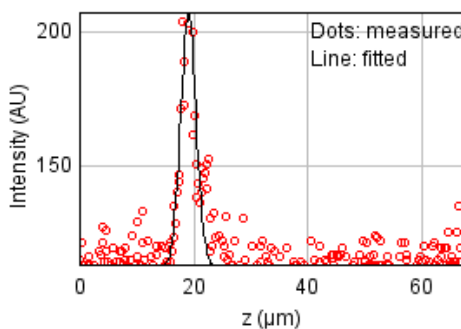
b = -0.044 px

c = 0.337 px

xc = 5.948 px

yc = 5.962 px

Z profile & fitting parameters:



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

Sum of residuals squared: 21425.1644

Standard deviation: 8.35397

R^2 : 0.80228

Parameters:

a = 113.51961

b = 206.79059

c = 19.14329

d = 1.33335

Bead 1008

Date : Mon Oct 17 13:51:43 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

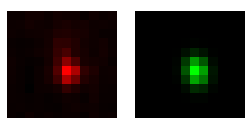
Coordinates : 41.6 μm (x), 8.68 μm (y), 20.0 μm (z)

Corresponding bead : Not found

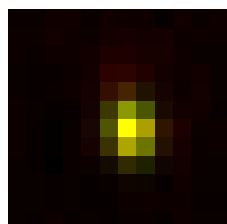
FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	537 nm	560 nm	270 nm
z	2.11 μm	2.12 μm	1.3 μm
Asymmetry	0.763		
Theta	-80.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 564.868$ (brightness)

$B = 122.010$ (background)

$a = 0.789$ px

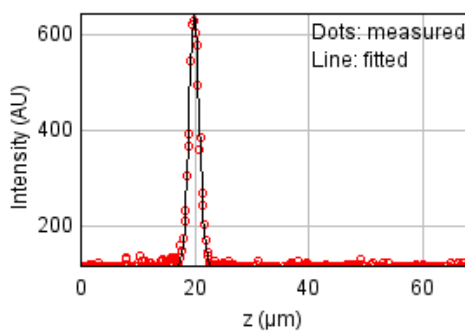
$b = -0.055$ px

$c = 0.474$ px

$x_c = 6.210$ px

$y_c = 6.067$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 32243.0142

Standard deviation: 10.24822

$R^2 = 0.98359$

Parameters:

$a = 114.51128$

$b = 644.82902$

$c = 19.98176$

$d = 0.89511$

Bead 1009

Date : Mon Oct 17 13:51:43 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

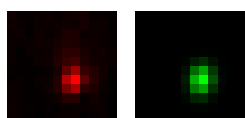
Coordinates : 94.8 μm (x), -16.4 μm (y), 20.2 μm (z)

Corresponding bead : Not found

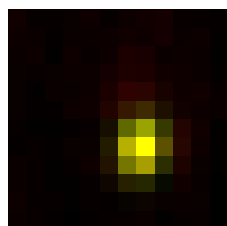
FWHM	Non corrected	Corrected	Theoretical
min	420 nm	437 nm	270 nm
max	543 nm	566 nm	270 nm
z	2.15 μm	2.16 μm	1.3 μm
Asymmetry	0.773		
Theta	82.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 566.931 (brightness)

B = 123.858 (background)

a = 0.756 px

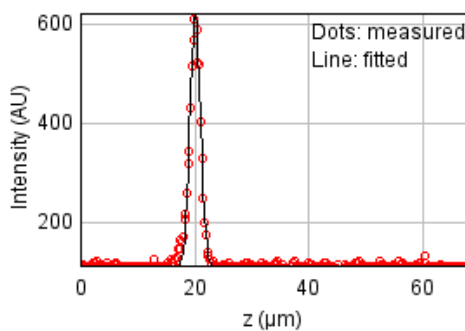
b = 0.041 px

c = 0.461 px

xc = 6.745 px

yc = 7.001 px

Z profile & fitting parameters:



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

Sum of residuals squared: 26841.8253

Standard deviation: 9.35054

R^2 : 0.98555

Parameters:

a = 112.67967

b = 624.15824

c = 20.16947

d = 0.91231

Bead 1010

Date : Mon Oct 17 13:51:44 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

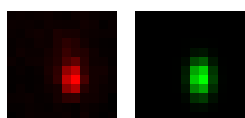
Coordinates : 45.9 μm (x), -47.2 μm (y), 19.5 μm (z)

Corresponding bead : Not found

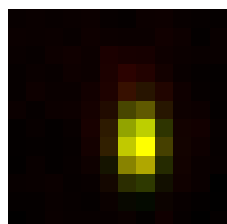
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	423 nm	270 nm
max	649 nm	676 nm	270 nm
z	2.93 μm	2.94 μm	1.3 μm
Asymmetry	0.627		
Theta	-89.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 491.626$ (brightness)

$B = 122.987$ (background)

$a = 0.812$ px

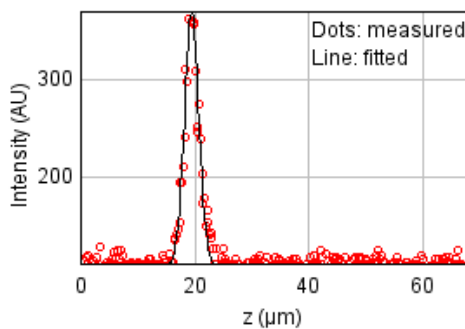
$b = -0.002$ px

$c = 0.319$ px

$x_c = 6.646$ px

$y_c = 6.827$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 25805.5627

Standard deviation: 9.16827

$R^2: 0.95954$

Parameters:

$a = 112.70220$

$b = 368.42767$

$c = 19.53035$

$d = 1.24232$

Bead 1011

Date : Mon Oct 17 13:51:44 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

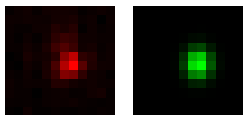
Coordinates : 105 um (x), -90.3 um (y), 19.8 um (z)

Corresponding bead : Not found

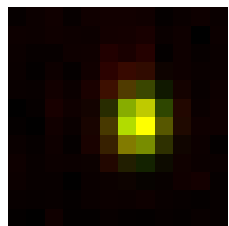
FWHM	Non corrected	Corrected	Theoretical
min	470 nm	489 nm	270 nm
max	569 nm	593 nm	270 nm
z	1.97 um	1.98 um	1.3 um
Asymmetry	0.825		
Theta	88.3°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.922$



Parameters:

A = 350.763 (brightness)

B = 117.744 (background)

a = 0.608 px

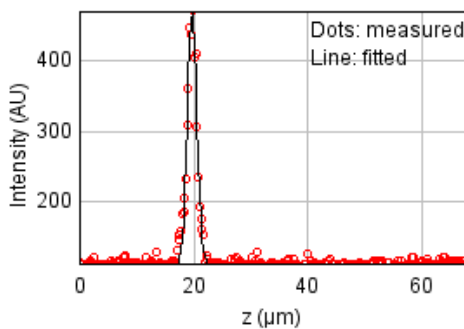
b = 0.006 px

c = 0.414 px

xc = 6.621 px

yc = 5.788 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18741.8512

Standard deviation: 7.81335

R^2 : 0.97757

Parameters:

a = 112.15317

b = 468.22333

c = 19.79860

d = 0.83629

Bead 1012

Date : Mon Oct 17 13:51:44 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

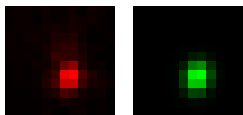
Coordinates : 93.2 μm (x), -92.1 μm (y), 20.3 μm (z)

Corresponding bead : Not found

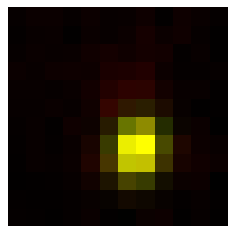
FWHM	Non corrected	Corrected	Theoretical
min	447 nm	466 nm	270 nm
max	554 nm	576 nm	270 nm
z	2.2 μm	2.21 μm	1.3 μm
Asymmetry	0.808		
Theta	77.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 529.436$ (brightness)

$B = 122.042$ (background)

$a = 0.660$ px

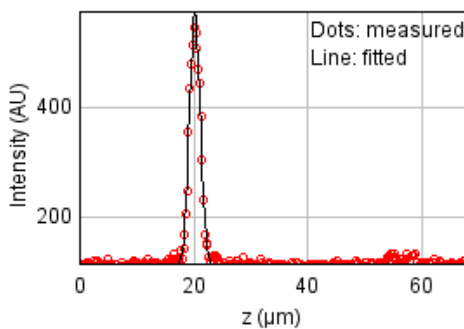
$b = 0.049$ px

$c = 0.449$ px

$x_c = 6.537$ px

$y_c = 7.231$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 25399.7900

Standard deviation: 9.09590

$R^2: 0.98350$

Parameters:

$a = 114.08312$

$b = 573.42486$

$c = 20.26543$

$d = 0.93633$

Bead 1013

Date : Mon Oct 17 13:51:44 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

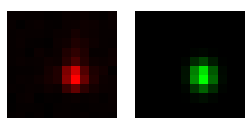
Coordinates : -99.7 μm (x), -92.4 μm (y), 20.1 μm (z)

Corresponding bead : Not found

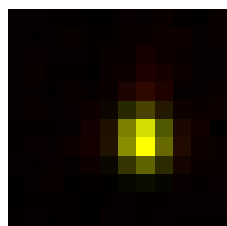
FWHM	Non corrected	Corrected	Theoretical
min	424 nm	442 nm	270 nm
max	497 nm	518 nm	270 nm
z	2.02 μm	2.03 μm	1.3 μm
Asymmetry	0.853		
Theta	-84.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 723.248$ (brightness)

$B = 124.765$ (background)

$a = 0.744$ px

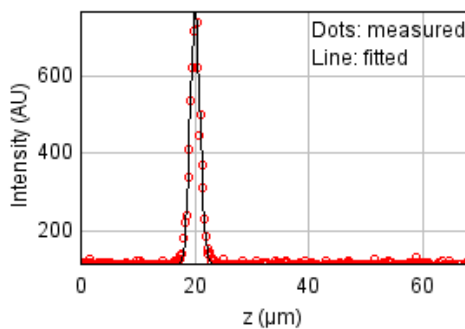
$b = -0.020$ px

$c = 0.545$ px

$x_c = 6.888$ px

$y_c = 6.621$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 38204.0208

Standard deviation: 11.15541

$R^2: 0.98683$

Parameters:

$a = 113.08331$

$b = 771.24441$

$c = 20.14824$

$d = 0.85870$

Bead 1014

Date : Mon Oct 17 13:51:44 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

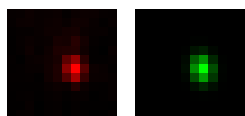
Coordinates : -35.7 μm (x), 42.1 μm (y), 20.5 μm (z)

Corresponding bead : Not found

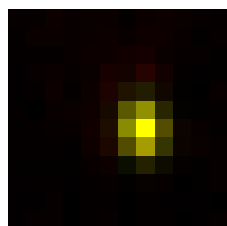
FWHM	Non corrected	Corrected	Theoretical
min	383 nm	399 nm	270 nm
max	507 nm	528 nm	270 nm
z	1.85 μm	1.86 μm	1.3 μm
Asymmetry	0.756		
Theta	-80.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 661.852 (brightness)

B = 126.089 (background)

a = 0.903 px

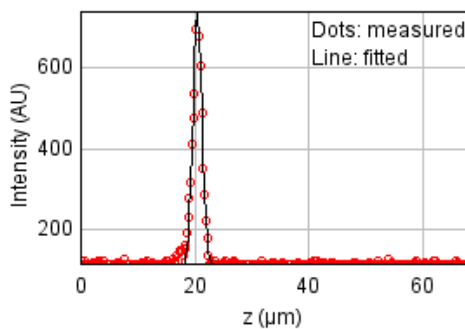
b = -0.062 px

c = 0.532 px

xc = 6.835 px

yc = 6.023 px

Z profile & fitting parameters:



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

Sum of residuals squared: 34919.5432

Standard deviation: 10.66510

R^2 : 0.98561

Parameters:

a = 114.30035

b = 742.02982

c = 20.54663

d = 0.78584

Bead 1015 (Rejected)

Date : Mon Oct 17 13:51:44 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : -47.5 μm (x), 23.1 μm (y), 16.0 μm (z)

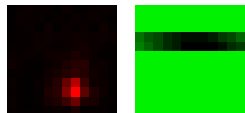
Corresponding bead : Not found

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

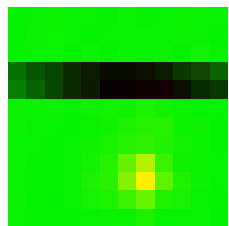
FWHM	Non corrected	Corrected	Theoretical
min	119 nm	124 nm	270 nm
max	2.68 μm	2.79 μm	270 nm
z	4.07 μm	4.08 μm	1.3 μm
Asymmetry	0.044		
Theta	-0.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.079$



Parameters:

A = -172.666 (brightness)

B = 147.536 (background)

a = -0.019 px

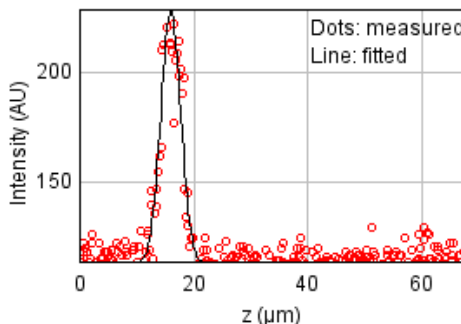
b = -0.017 px

c = 9.449 px

xc = 6.237 px

yc = 3.505 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19866.6713

Standard deviation: 8.04439

R^2 : 0.89529

Parameters:

a = 113.01687

b = 228.85798

c = 16.04757

d = 1.72730

Bead 1016

Date : Mon Oct 17 13:51:44 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

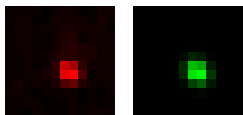
Coordinates : -140 μm (x), -7.75 μm (y), 20.5 μm (z)

Corresponding bead : Not found

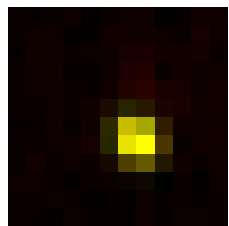
FWHM	Non corrected	Corrected	Theoretical
min	383 nm	399 nm	270 nm
max	455 nm	473 nm	270 nm
z	2.17 μm	2.18 μm	1.3 μm
Asymmetry	0.842		
Theta	-56.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 544.495 (brightness)

B = 121.897 (background)

a = 0.833 px

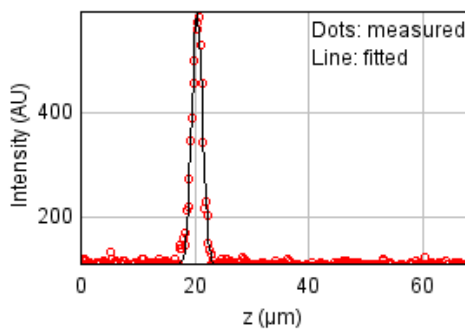
b = -0.123 px

c = 0.733 px

xc = 6.531 px

yc = 6.713 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29947.6790

Standard deviation: 9.87671

R^2 : 0.98195

Parameters:

a = 111.45087

b = 591.47686

c = 20.49455

d = 0.92226

Bead 1017

Date : Mon Oct 17 13:51:45 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

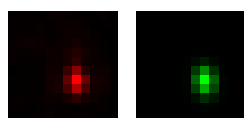
Coordinates : -17.8 μm (x), -14.4 μm (y), 20.5 μm (z)

Corresponding bead : Not found

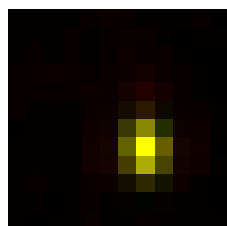
FWHM	Non corrected	Corrected	Theoretical
min	368 nm	383 nm	270 nm
max	513 nm	534 nm	270 nm
z	1.93 μm	1.94 μm	1.3 μm
Asymmetry	0.717		
Theta	-85.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 713.974 (brightness)

B = 125.996 (background)

a = 0.987 px

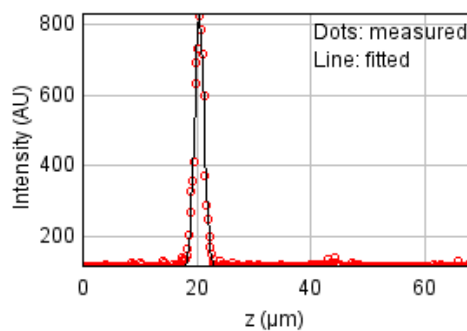
b = -0.040 px

c = 0.513 px

xc = 6.990 px

yc = 7.115 px

Z profile & fitting parameters:



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

Sum of residuals squared: 41596.1175

Standard deviation: 11.64011

R^2 : 0.98746

Parameters:

a = 114.26856

b = 833.55699

c = 20.53421

d = 0.82074

Bead 1018

Date : Mon Oct 17 13:51:45 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

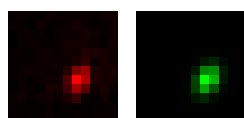
Coordinates : -144 μm (x), -15.7 μm (y), 19.8 μm (z)

Corresponding bead : Not found

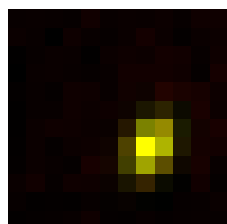
FWHM	Non corrected	Corrected	Theoretical
min	375 nm	390 nm	270 nm
max	542 nm	565 nm	270 nm
z	2.23 μm	2.24 μm	1.3 μm
Asymmetry	0.691		
Theta	63.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 339.231 (brightness)

B = 116.393 (background)

a = 0.855 px

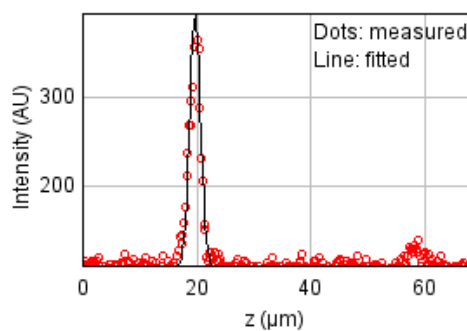
b = 0.200 px

c = 0.556 px

xc = 7.297 px

yc = 6.995 px

Z profile & fitting parameters:



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

Sum of residuals squared: 35210.1039

Standard deviation: 10.70938

R^2 : 0.94158

Parameters:

a = 111.93068

b = 391.83546

c = 19.79631

d = 0.94581

Bead 1019

Date : Mon Oct 17 13:51:45 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

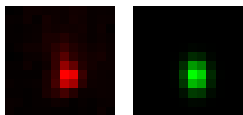
Coordinates : 90.9 μm (x), -21.0 μm (y), 20.4 μm (z)

Corresponding bead : Not found

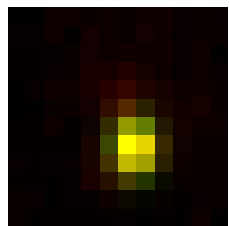
FWHM	Non corrected	Corrected	Theoretical
min	428 nm	446 nm	270 nm
max	573 nm	597 nm	270 nm
z	2.25 μm	2.26 μm	1.3 μm
Asymmetry	0.748		
Theta	-87.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 512.464$ (brightness)

$B = 124.616$ (background)

$a = 0.731$ px

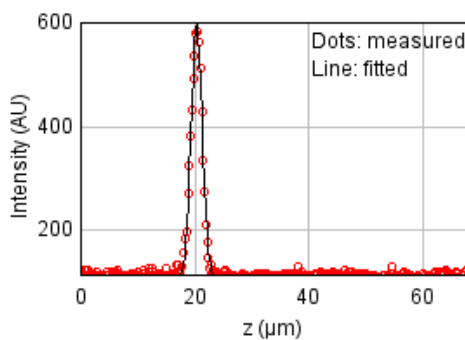
$b = -0.014$ px

$c = 0.409$ px

$x_c = 6.373$ px

$y_c = 7.119$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 19137.3895

Standard deviation: 7.89536

$R^2: 0.98918$

Parameters:

$a = 112.43659$

$b = 601.42676$

$c = 20.41824$

$d = 0.95586$

Bead 1020

Date : Mon Oct 17 13:51:45 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

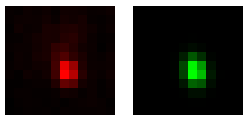
Coordinates : 128 μm (x), -38.3 μm (y), 20.1 μm (z)

Corresponding bead : Not found

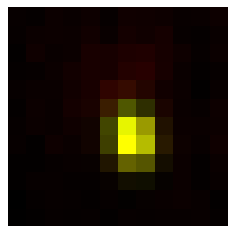
FWHM	Non corrected	Corrected	Theoretical
min	393 nm	409 nm	270 nm
max	528 nm	550 nm	270 nm
z	2.31 μm	2.32 μm	1.3 μm
Asymmetry	0.744		
Theta	-78.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 556.301 (brightness)

B = 120.671 (background)

a = 0.854 px

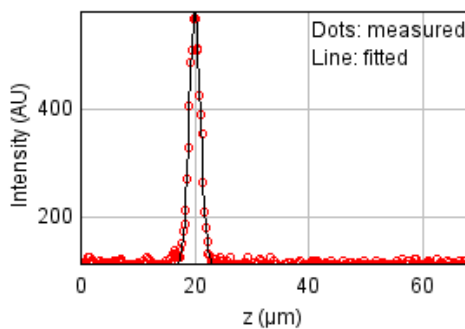
b = -0.079 px

c = 0.498 px

xc = 6.282 px

yc = 6.587 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17262.6443

Standard deviation: 7.49867

R^2 : 0.98965

Parameters:

a = 111.51306

b = 581.23147

c = 20.09335

d = 0.97909

Bead 1021

Date : Mon Oct 17 13:51:45 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

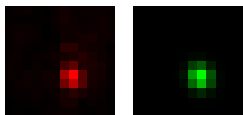
Coordinates : -150 μm (x), -66.6 μm (y), 20.3 μm (z)

Corresponding bead : Not found

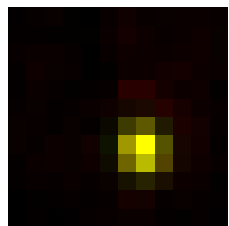
FWHM	Non corrected	Corrected	Theoretical
min	400 nm	417 nm	270 nm
max	449 nm	468 nm	270 nm
z	2.08 μm	2.09 μm	1.3 μm
Asymmetry	0.89		
Theta	-70.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 549.394$ (brightness)

$B = 122.931$ (background)

$a = 0.820$ px

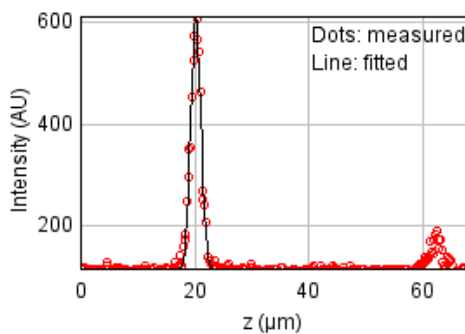
$b = -0.054$ px

$c = 0.683$ px

$x_c = 6.833$ px

$y_c = 7.257$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 70271.9738

Standard deviation: 15.12941

$R^2: 0.95996$

Parameters:

$a = 113.93674$

$b = 611.89776$

$c = 20.27468$

$d = 0.88417$

Bead 1022

Date : Mon Oct 17 13:51:45 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

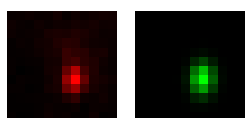
Coordinates : 43.3 μm (x), 66.6 μm (y), 20.9 μm (z)

Corresponding bead : Not found

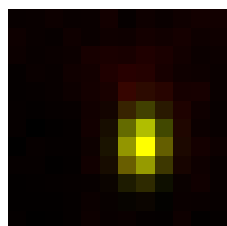
FWHM	Non corrected	Corrected	Theoretical
min	418 nm	435 nm	270 nm
max	580 nm	605 nm	270 nm
z	2.15 μm	2.16 μm	1.3 μm
Asymmetry	0.719		
Theta	87.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 522.893$ (brightness)

$B = 127.809$ (background)

$a = 0.769$ px

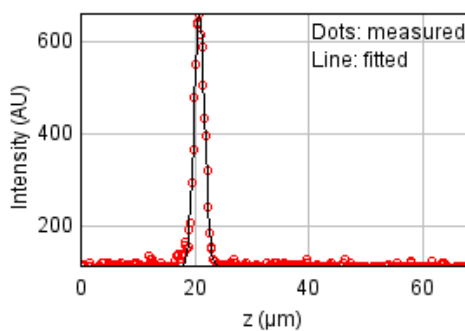
$b = 0.018$ px

$c = 0.399$ px

$x_c = 6.851$ px

$y_c = 6.880$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 24018.1179

Standard deviation: 8.84505

$R^2: 0.98866$

Parameters:

$a = 114.17181$

$b = 661.11125$

$c = 20.87844$

$d = 0.91261$

Bead 1023 (Rejected)

Date : Mon Oct 17 13:51:45 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : 106 μm (x), 56.5 μm (y), 20.9 μm (z)

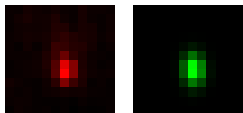
Corresponding bead : Not found

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

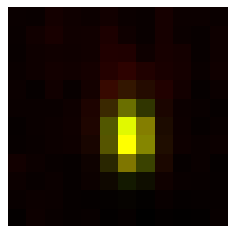
FWHM	Non corrected	Corrected	Theoretical
min	393 nm	409 nm	270 nm
max	584 nm	608 nm	270 nm
z	4.08 μm	4.09 μm	1.3 μm
Asymmetry	0.673		
Theta	-87.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 427.875 (brightness)

B = 122.108 (background)

a = 0.868 px

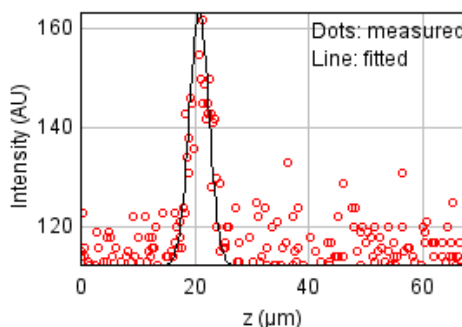
b = -0.022 px

c = 0.395 px

xc = 6.120 px

yc = 6.538 px

Z profile & fitting parameters:



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

Sum of residuals squared: 13444.2527

Standard deviation: 6.61758

R^2 : 0.71017

Parameters:

a = 112.14234

b = 163.10557

c = 20.86020

d = 1.73105

Bead 1024

Date : Mon Oct 17 13:51:46 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

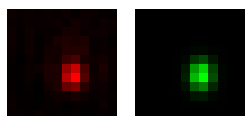
Coordinates : -33.1 μm (x), 47.3 μm (y), 20.2 μm (z)

Corresponding bead : Not found

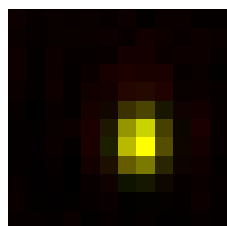
FWHM	Non corrected	Corrected	Theoretical
min	422 nm	439 nm	270 nm
max	538 nm	561 nm	270 nm
z	2.16 μm	2.16 μm	1.3 μm
Asymmetry	0.783		
Theta	87.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 530.352$ (brightness)

$B = 123.145$ (background)

$a = 0.755$ px

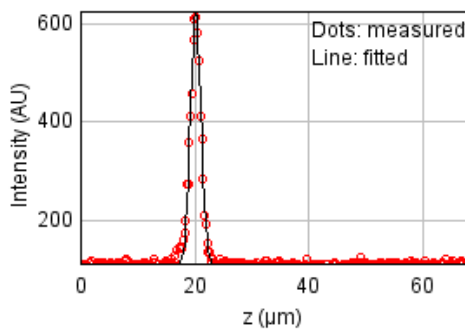
$b = 0.011$ px

$c = 0.464$ px

$x_c = 6.717$ 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: 20816.7785

Standard deviation: 8.23451

$R^2: 0.98873$

Parameters:

$a = 113.06033$

$b = 622.94417$

$c = 20.24967$

$d = 0.91547$

Bead 1025

Date : Mon Oct 17 13:51:46 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

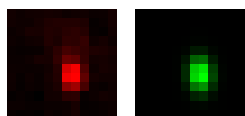
Coordinates : 94.1 μm (x), 29.5 μm (y), 20.5 μm (z)

Corresponding bead : Not found

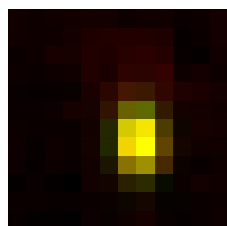
FWHM	Non corrected	Corrected	Theoretical
min	425 nm	443 nm	270 nm
max	632 nm	658 nm	270 nm
z	2.24 μm	2.25 μm	1.3 μm
Asymmetry	0.673		
Theta	-86.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 382.847 (brightness)

B = 123.401 (background)

a = 0.742 px

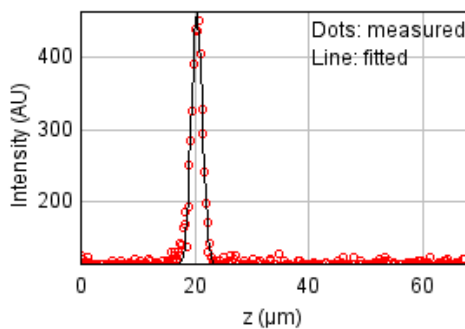
b = -0.024 px

c = 0.338 px

xc = 6.609 px

yc = 6.629 px

Z profile & fitting parameters:



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

Sum of residuals squared: 21147.8691

Standard deviation: 8.29973

R^2 : 0.97699

Parameters:

a = 112.90980

b = 463.81135

c = 20.45179

d = 0.95265

Bead 1026 (Rejected)

Date : Mon Oct 17 13:51:46 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : -79.7 μm (x), 20.4 μm (y), 19.1 μm (z)

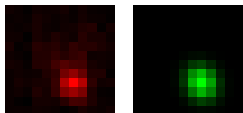
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

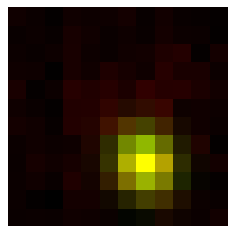
FWHM	Non corrected	Corrected	Theoretical
min	553 nm	576 nm	270 nm
max	641 nm	668 nm	270 nm
z	3.14 μm	3.15 μm	1.3 μm
Asymmetry	0.862		
Theta	-64.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.908$



Parameters:

A = 199.115 (brightness)

B = 121.587 (background)

a = 0.418 px

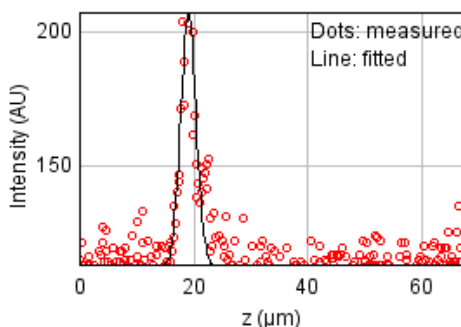
b = -0.044 px

c = 0.347 px

xc = 6.950 px

yc = 7.969 px

Z profile & fitting parameters:



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

Sum of residuals squared: 21425.1644

Standard deviation: 8.35397

R^2 : 0.80228

Parameters:

a = 113.51961

b = 206.79059

c = 19.14329

d = 1.33335

Bead 1027 (Rejected)

Date : Mon Oct 17 13:51:46 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : 15.8 μm (x), 5.74 μm (y), 17.6 μm (z)

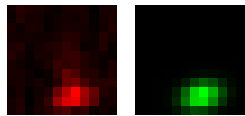
Corresponding bead : Not found

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

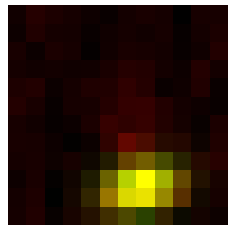
FWHM	Non corrected	Corrected	Theoretical
min	479 nm	499 nm	270 nm
max	716 nm	746 nm	270 nm
z	3.86 μm	3.88 μm	1.3 μm
Asymmetry	0.669		
Theta	13.4°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.892$



Parameters:

A = 216.089 (brightness)

B = 120.460 (background)

a = 0.279 px

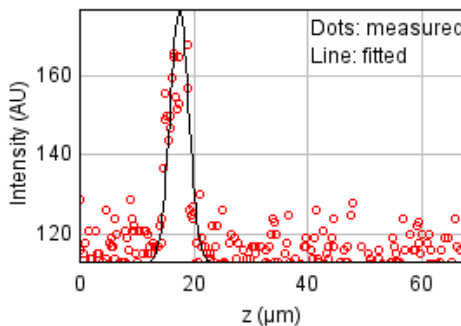
b = 0.073 px

c = 0.568 px

xc = 6.736 px

yc = 9.429 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18315.2894

Standard deviation: 7.72392

R^2 : 0.73054

Parameters:

a = 112.71451

b = 176.83433

c = 17.57254

d = 1.63973

Bead 1028

Date : Mon Oct 17 13:51:46 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

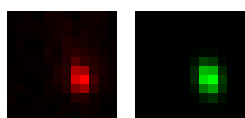
Coordinates : 75.4 μm (x), 4.54 μm (y), 20.4 μm (z)

Corresponding bead : Not found

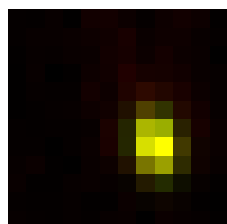
FWHM	Non corrected	Corrected	Theoretical
min	401 nm	418 nm	270 nm
max	577 nm	601 nm	270 nm
z	2.36 μm	2.37 μm	1.3 μm
Asymmetry	0.696		
Theta	-77.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 564.319 (brightness)

B = 122.866 (background)

a = 0.813 px

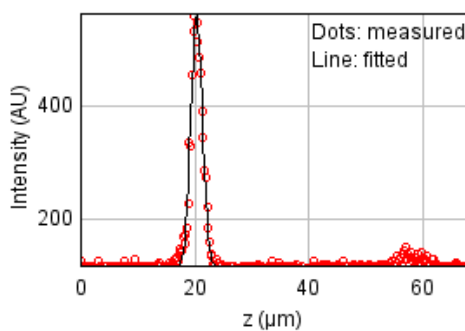
b = -0.090 px

c = 0.423 px

$x_c = 7.568$ px

$y_c = 6.860$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 33516.5665

Standard deviation: 10.44866

R^2 : 0.97885

Parameters:

a = 114.90296

b = 565.38527

c = 20.40053

d = 1.00121

Bead 1029

Date : Mon Oct 17 13:51:46 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

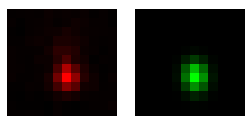
Coordinates : 17.2 μm (x), -5.58 μm (y), 20.6 μm (z)

Corresponding bead : Not found

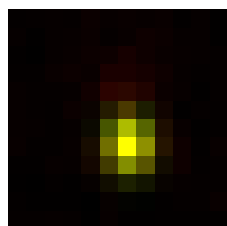
FWHM	Non corrected	Corrected	Theoretical
min	436 nm	454 nm	270 nm
max	550 nm	573 nm	270 nm
z	2.1 μm	2.11 μm	1.3 μm
Asymmetry	0.793		
Theta	-84.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 632.262 (brightness)

B = 124.760 (background)

a = 0.703 px

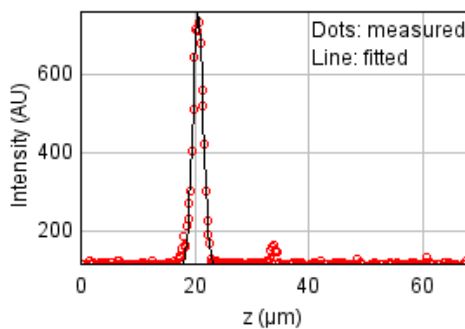
b = -0.025 px

c = 0.446 px

xc = 6.088 px

yc = 6.847 px

Z profile & fitting parameters:



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

Sum of residuals squared: 39600.5524

Standard deviation: 11.35747

R^2 : 0.98626

Parameters:

a = 115.24924

b = 759.51164

c = 20.64639

d = 0.89179

Bead 1030

Date : Mon Oct 17 13:51:46 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

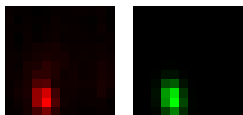
Coordinates : 2.59 μm (x), -13.2 μm (y), 20.7 μm (z)

Corresponding bead : Not found

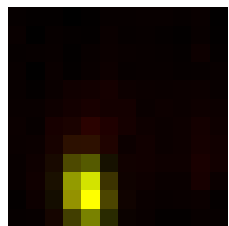
FWHM	Non corrected	Corrected	Theoretical
min	377 nm	392 nm	270 nm
max	590 nm	615 nm	270 nm
z	1.97 μm	1.97 μm	1.3 μm
Asymmetry	0.638		
Theta	-80.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 746.771$ (brightness)

$B = 133.219$ (background)

$a = 0.932$ px

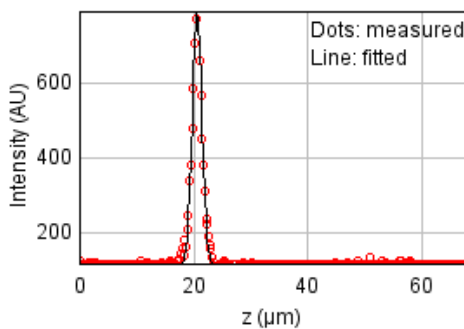
$b = -0.088$ px

$c = 0.399$ px

$x_c = 3.761$ px

$y_c = 9.599$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 32152.3794

Standard deviation: 10.23381

$R^2: 0.98921$

Parameters:

$a = 114.53708$

$b = 791.36584$

$c = 20.66178$

$d = 0.83518$

Bead 1031

Date : Mon Oct 17 13:51:46 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

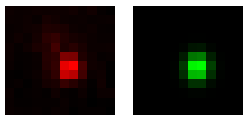
Coordinates : 147 um (x), -67.9 um (y), 20.7 um (z)

Corresponding bead : Not found

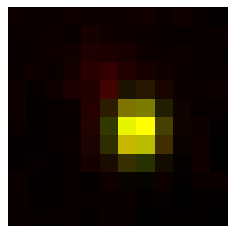
FWHM	Non corrected	Corrected	Theoretical
min	434 nm	452 nm	270 nm
max	510 nm	531 nm	270 nm
z	2.13 um	2.14 um	1.3 um
Asymmetry	0.851		
Theta	87.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 480.618 (brightness)

B = 120.686 (background)

a = 0.712 px

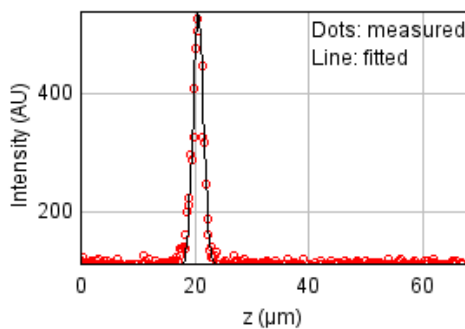
b = 0.009 px

c = 0.516 px

xc = 6.524 px

yc = 6.205 px

Z profile & fitting parameters:



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

Sum of residuals squared: 35688.3148

Standard deviation: 10.78186

R^2 : 0.97282

Parameters:

a = 110.66888

b = 539.85741

c = 20.69254

d = 0.90326

Bead 1032

Date : Mon Oct 17 13:51:46 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

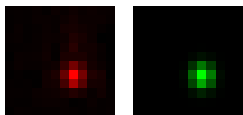
Coordinates : -24.4 μm (x), -74.3 μm (y), 20.6 μm (z)

Corresponding bead : Not found

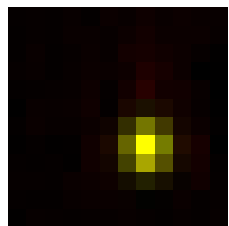
FWHM	Non corrected	Corrected	Theoretical
min	403 nm	420 nm	270 nm
max	471 nm	491 nm	270 nm
z	1.94 μm	1.95 μm	1.3 μm
Asymmetry	0.855		
Theta	89.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 688.482 (brightness)

B = 125.860 (background)

a = 0.826 px

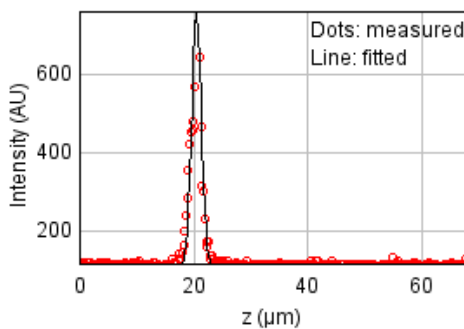
b = 0.003 px

c = 0.604 px

xc = 7.059 px

yc = 7.140 px

Z profile & fitting parameters:



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

Sum of residuals squared: 166197.630

Standard deviation: 23.26715

R^2 : 0.94144

Parameters:

a = 115.61176

b = 764.02131

c = 20.56207

d = 0.82441

Bead 1033

Date : Mon Oct 17 13:51:47 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

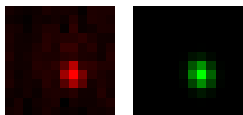
Coordinates : -126 μm (x), 95.2 μm (y), 20.2 μm (z)

Corresponding bead : Not found

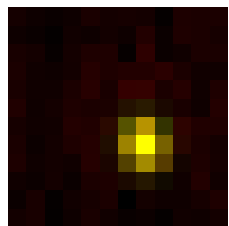
FWHM	Non corrected	Corrected	Theoretical
min	405 nm	422 nm	270 nm
max	487 nm	508 nm	270 nm
z	2.12 μm	2.13 μm	1.3 μm
Asymmetry	0.832		
Theta	-78.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 198.019$ (brightness)

$B = 115.577$ (background)

$a = 0.806$ px

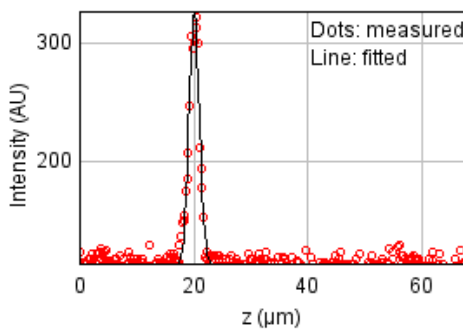
$b = -0.050$ px

$c = 0.576$ px

$x_c = 6.908$ px

$y_c = 6.970$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 19054.4908

Standard deviation: 7.87825

$R^2: 0.94416$

Parameters:

$a = 112.32088$

$b = 328.19329$

$c = 20.15886$

$d = 0.90062$

Bead 1034 (Rejected)

Date : Mon Oct 17 13:51:47 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : 101 um (x), 81.5 um (y), 20.6 um (z)

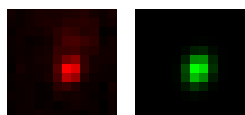
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

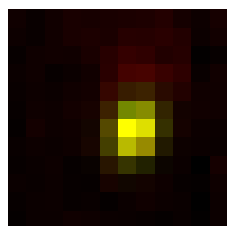
FWHM	Non corrected	Corrected	Theoretical
min	432 nm	450 nm	270 nm
max	548 nm	571 nm	270 nm
z	2.4 um	2.41 um	1.3 um
Asymmetry	0.787		
Theta	71.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 385.784 (brightness)

B = 122.915 (background)

a = 0.693 px

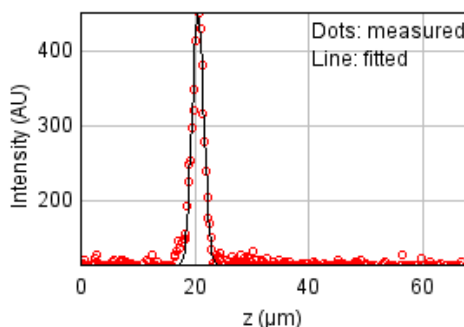
b = 0.082 px

c = 0.474 px

xc = 6.390 px

yc = 6.096 px

Z profile & fitting parameters:



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

Sum of residuals squared: 24339.5709

Standard deviation: 8.90404

R^2 : 0.97337

Parameters:

a = 112.88358

b = 451.03653

c = 20.63493

d = 1.02025

Bead 1035 (Rejected)

Date : Mon Oct 17 13:51:47 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : 123 um (x), 68.1 um (y), 20.0 um (z)

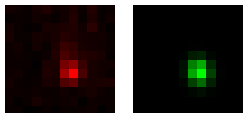
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

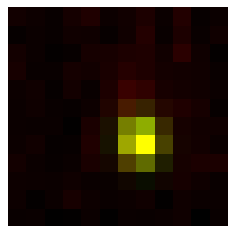
FWHM	Non corrected	Corrected	Theoretical
min	385 nm	401 nm	270 nm
max	466 nm	485 nm	270 nm
z	2.01 um	2.02 um	1.3 um
Asymmetry	0.825		
Theta	-79.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 215.762 (brightness)

B = 115.057 (background)

a = 0.896 px

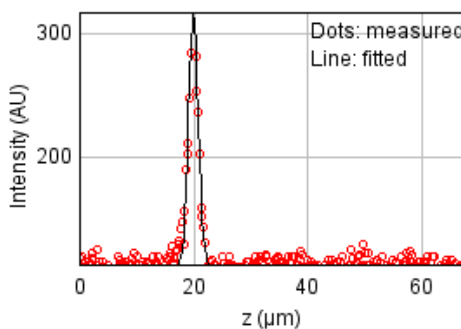
b = -0.054 px

c = 0.628 px

xc = 6.723 px

yc = 6.784 px

Z profile & fitting parameters:



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

Sum of residuals squared: 14603.2435

Standard deviation: 6.89692

R^2 : 0.94947

Parameters:

a = 111.93554

b = 316.36067

c = 20.01604

d = 0.85303

Bead 1036 (Rejected)

Date : Mon Oct 17 13:51:47 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : 76.1 μm (x), 57.9 μm (y), 19.2 μm (z)

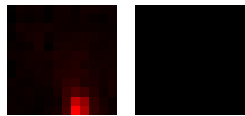
Corresponding bead : Not found

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

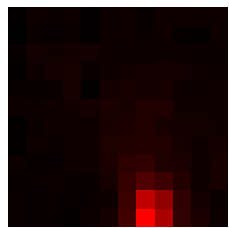
FWHM	Non corrected	Corrected	Theoretical
min	137 nm	143 nm	270 nm
max	196 nm	204 nm	270 nm
z	3.76 μm	3.77 μm	1.3 μm
Asymmetry	0.699		
Theta	43.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = -47.600 (brightness)

B = 134.083 (background)

a = 5.253 px

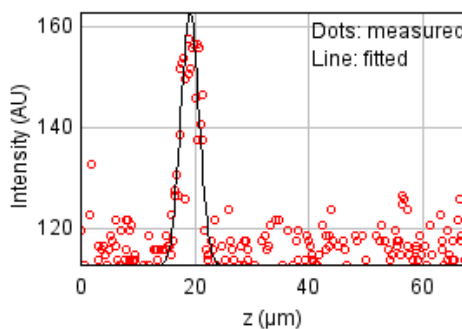
b = 1.829 px

c = 5.421 px

xc = 3.038 px

yc = -2.821 px

Z profile & fitting parameters:



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

Sum of residuals squared: 12550.7809

Standard deviation: 6.39391

R^2 : 0.70200

Parameters:

a = 112.89422

b = 162.99442

c = 19.24523

d = 1.59519

Bead 1037 (Rejected)

Date : Mon Oct 17 13:51:47 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : -28.0 μm (x), 53.7 μm (y), 17.4 μm (z)

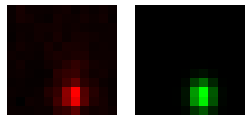
Corresponding bead : Not found

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

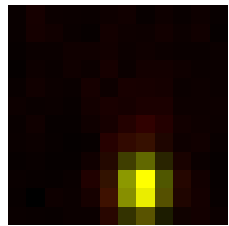
FWHM	Non corrected	Corrected	Theoretical
min	411 nm	428 nm	270 nm
max	525 nm	547 nm	270 nm
z	3.9 μm	3.91 μm	1.3 μm
Asymmetry	0.782		
Theta	89.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 494.813 (brightness)

B = 126.783 (background)

a = 0.795 px

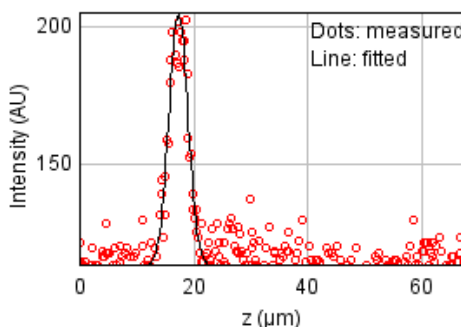
b = 0.003 px

c = 0.486 px

xc = 6.820 px

yc = 9.423 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15560.7415

Standard deviation: 7.11944

R^2 : 0.86716

Parameters:

a = 113.57821

b = 204.91312

c = 17.38445

d = 1.65465

Bead 1038

Date : Mon Oct 17 13:51:47 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

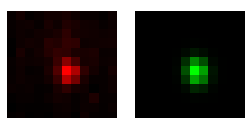
Coordinates : 119 μm (x), 1.62 μm (y), 20.6 μm (z)

Corresponding bead : Not found

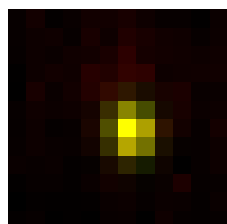
FWHM	Non corrected	Corrected	Theoretical
min	402 nm	419 nm	270 nm
max	500 nm	521 nm	270 nm
z	2.18 μm	2.19 μm	1.3 μm
Asymmetry	0.804		
Theta	-80.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.921$



Parameters:

$A = 346.360$ (brightness)

$B = 119.325$ (background)

$a = 0.823$ px

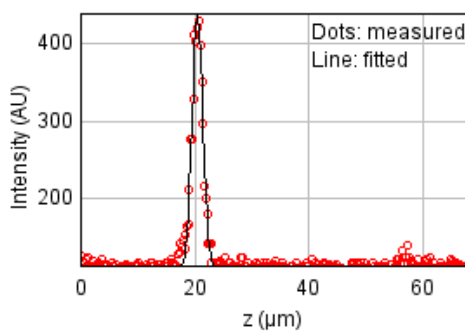
$b = -0.046$ px

$c = 0.544$ px

$x_c = 6.220$ px

$y_c = 6.119$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 18911.5097

Standard deviation: 7.84863

$R^2: 0.97585$

Parameters:

$a = 112.38297$

$b = 440.62958$

$c = 20.55415$

$d = 0.92489$

Bead 1039

Date : Mon Oct 17 13:51:48 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : -66.2 μm (x), -66.7 μm (y), 20.3 μm (z)

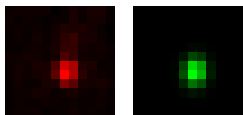
Corresponding bead : Not found



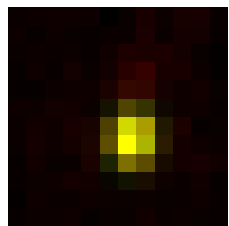
FWHM	Non corrected	Corrected	Theoretical
min	417 nm	434 nm	270 nm
max	523 nm	545 nm	270 nm
z	2.26 μm	2.27 μm	1.3 μm
Asymmetry	0.797		
Theta	87.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 398.356$ (brightness)

$B = 119.561$ (background)

$a = 0.771$ px

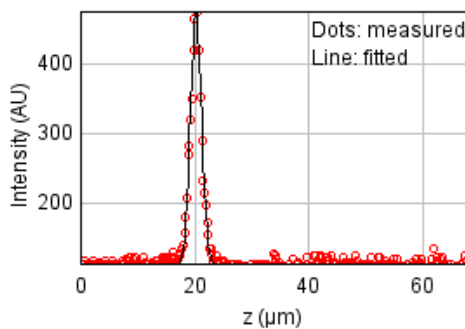
$b = 0.015$ px

$c = 0.491$ px

$x_c = 6.276$ px

$y_c = 6.658$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 19135.2354

Standard deviation: 7.89492

$R^2: 0.98025$

Parameters:

$a = 114.56150$

$b = 474.17172$

$c = 20.29753$

$d = 0.95991$

Bead 1040

Date : Mon Oct 17 13:51:48 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

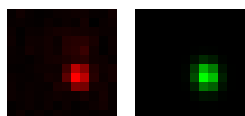
Coordinates : 164 μm (x), -73.8 μm (y), 20.4 μm (z)

Corresponding bead : Not found

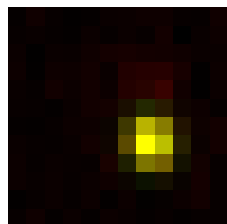
FWHM	Non corrected	Corrected	Theoretical
min	417 nm	434 nm	270 nm
max	489 nm	509 nm	270 nm
z	2.3 μm	2.31 μm	1.3 μm
Asymmetry	0.854		
Theta	-78.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 304.084$ (brightness)

$B = 115.026$ (background)

$a = 0.763$ px

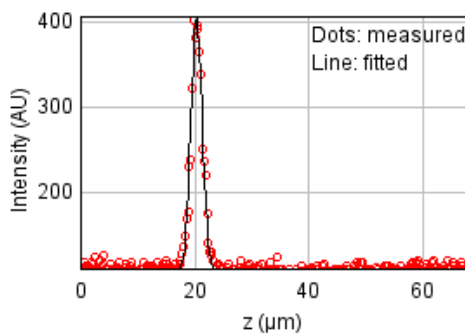
$b = -0.040$ px

$c = 0.570$ px

$x_c = 7.302$ px

$y_c = 6.831$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 22229.8240

Standard deviation: 8.50940

$R^2: 0.96730$

Parameters:

$a = 109.31609$

$b = 405.82146$

$c = 20.39701$

$d = 0.97849$

Bead 1041 (Rejected)

Date : Mon Oct 17 13:51:48 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : -114 μm (x), -82.4 μm (y), 19.0 μm (z)

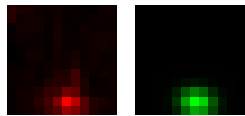
Corresponding bead : Not found

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

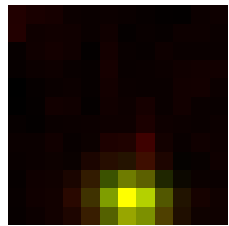
FWHM	Non corrected	Corrected	Theoretical
min	481 nm	501 nm	270 nm
max	632 nm	658 nm	270 nm
z	3.03 μm	3.04 μm	1.3 μm
Asymmetry	0.761		
Theta	-6.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 332.838 (brightness)

B = 122.427 (background)

a = 0.340 px

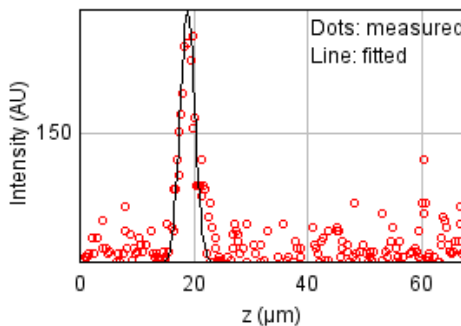
b = -0.028 px

c = 0.577 px

xc = 6.217 px

yc = 10.138 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17863.1164

Standard deviation: 7.62798

R^2 : 0.74855

Parameters:

a = 112.43172

b = 186.60743

c = 18.99119

d = 1.28621

Bead 1042

Date : Mon Oct 17 13:51:48 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : 82.1 μm (x), 93.0 μm (y), 20.6 μm (z)

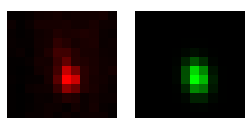
Corresponding bead : Not found



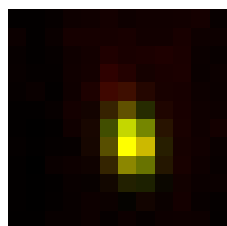
FWHM	Non corrected	Corrected	Theoretical
min	419 nm	436 nm	270 nm
max	590 nm	614 nm	270 nm
z	2.18 μm	2.19 μm	1.3 μm
Asymmetry	0.71		
Theta	-77.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 396.391 (brightness)

B = 122.186 (background)

a = 0.748 px

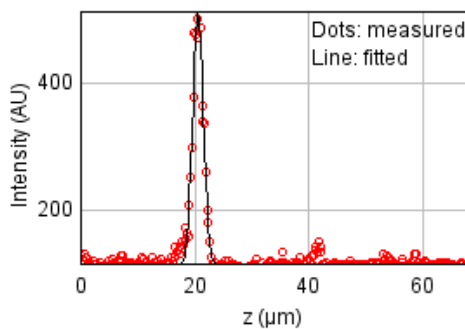
b = -0.079 px

c = 0.403 px

xc = 6.261 px

yc = 6.764 px

Z profile & fitting parameters:



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

Sum of residuals squared: 37423.3138

Standard deviation: 11.04084

R^2 : 0.96748

Parameters:

a = 115.93403

b = 512.15737

c = 20.64451

d = 0.92509

Bead 1043

Date : Mon Oct 17 13:51:48 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

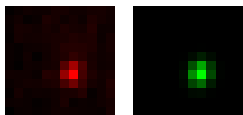
Coordinates : -163 μm (x), 6.09 μm (y), 20.4 μm (z)

Corresponding bead : Not found

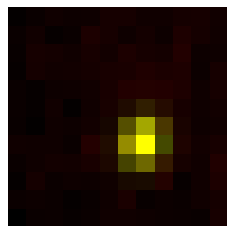
FWHM	Non corrected	Corrected	Theoretical
min	377 nm	393 nm	270 nm
max	458 nm	477 nm	270 nm
z	2.33 μm	2.34 μm	1.3 μm
Asymmetry	0.823		
Theta	75.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 280.539 (brightness)

B = 118.721 (background)

a = 0.922 px

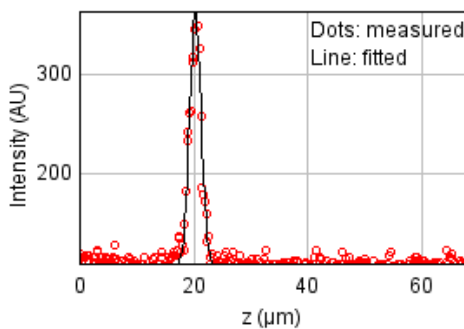
b = 0.075 px

c = 0.659 px

xc = 6.836 px

yc = 6.838 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22870.6313

Standard deviation: 8.63117

R^2 : 0.95459

Parameters:

a = 110.70437

b = 362.99268

c = 20.36356

d = 0.98871

Bead 1044

Date : Mon Oct 17 13:51:48 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

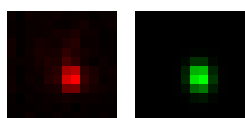
Coordinates : -23.4 μm (x), -16.8 μm (y), 20.7 μm (z)

Corresponding bead : Not found

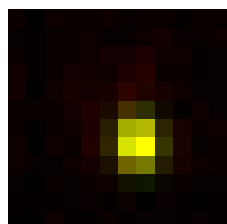
FWHM	Non corrected	Corrected	Theoretical
min	399 nm	416 nm	270 nm
max	504 nm	525 nm	270 nm
z	2.02 μm	2.03 μm	1.3 μm
Asymmetry	0.793		
Theta	-83.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 511.646 (brightness)

B = 119.961 (background)

a = 0.838 px

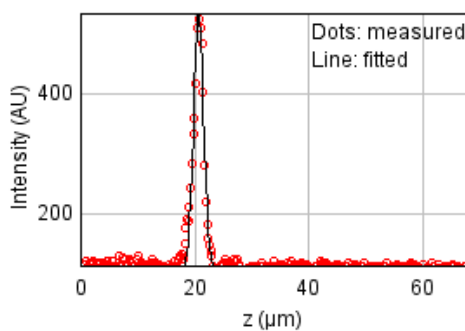
b = -0.035 px

c = 0.533 px

xc = 6.564 px

yc = 6.773 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33089.8161

Standard deviation: 10.38193

R^2 : 0.97249

Parameters:

a = 114.07932

b = 535.16612

c = 20.74881

d = 0.85718

Bead 1045

Date : Mon Oct 17 13:51:48 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

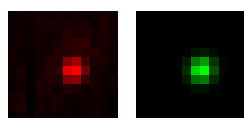
Coordinates : -133 μm (x), -67.2 μm (y), 20.6 μm (z)

Corresponding bead : Not found

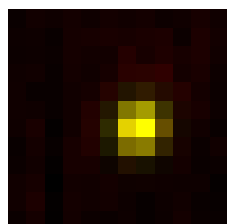
FWHM	Non corrected	Corrected	Theoretical
min	436 nm	454 nm	270 nm
max	473 nm	493 nm	270 nm
z	2.31 μm	2.32 μm	1.3 μm
Asymmetry	0.922		
Theta	68.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 368.786 (brightness)

B = 117.700 (background)

a = 0.691 px

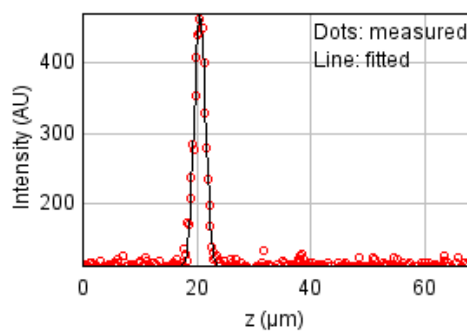
b = 0.036 px

c = 0.614 px

xc = 6.648 px

yc = 5.925 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17748.0354

Standard deviation: 7.60337

R^2 : 0.98202

Parameters:

a = 111.59575

b = 470.96891

c = 20.62164

d = 0.98190

Bead 1046

Date : Mon Oct 17 13:51:48 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

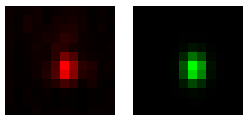
Coordinates : 81.9 μm (x), -78.1 μm (y), 21.0 μm (z)

Corresponding bead : Not found

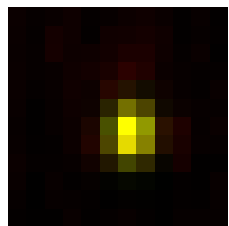
FWHM	Non corrected	Corrected	Theoretical
min	401 nm	418 nm	270 nm
max	522 nm	544 nm	270 nm
z	2.15 μm	2.16 μm	1.3 μm
Asymmetry	0.769		
Theta	88.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 530.617$ (brightness)

$B = 123.211$ (background)

$a = 0.833$ px

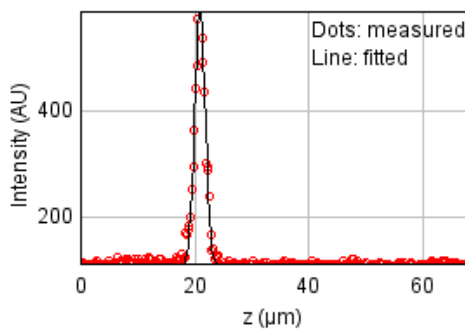
$b = 0.007$ px

$c = 0.493$ px

$x_c = 6.189$ px

$y_c = 6.336$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 29539.3186

Standard deviation: 9.80914

$R^2: 0.98165$

Parameters:

$a = 112.97931$

$b = 587.98376$

$c = 20.99244$

$d = 0.91284$

Bead 1047

Date : Mon Oct 17 13:51:48 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

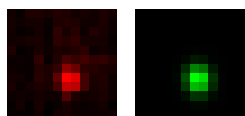
Coordinates : -162 μm (x), 73.1 μm (y), 20.6 μm (z)

Corresponding bead : Not found

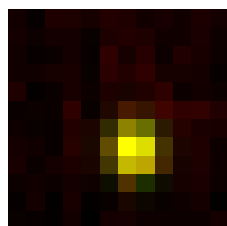
FWHM	Non corrected	Corrected	Theoretical
min	449 nm	468 nm	270 nm
max	521 nm	543 nm	270 nm
z	2.1 μm	2.1 μm	1.3 μm
Asymmetry	0.862		
Theta	-84.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 203.255 (brightness)

B = 115.348 (background)

a = 0.663 px

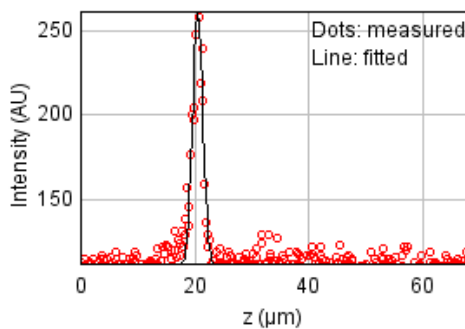
b = -0.017 px

c = 0.496 px

xc = 6.399 px

yc = 7.188 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16542.5305

Standard deviation: 7.34060

R^2 : 0.90278

Parameters:

a = 111.71167

b = 261.62924

c = 20.58789

d = 0.88975

Bead 1048

Date : Mon Oct 17 13:51:49 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

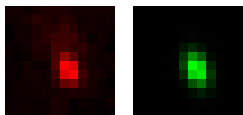
Coordinates : 61.9 μm (x), 64.5 μm (y), 20.7 μm (z)

Corresponding bead : Not found

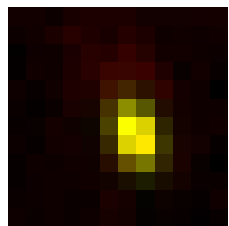
FWHM	Non corrected	Corrected	Theoretical
min	403 nm	419 nm	270 nm
max	631 nm	657 nm	270 nm
z	2.56 μm	2.57 μm	1.3 μm
Asymmetry	0.639		
Theta	-71.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 375.442$ (brightness)

$B = 122.456$ (background)

$a = 0.778$ px

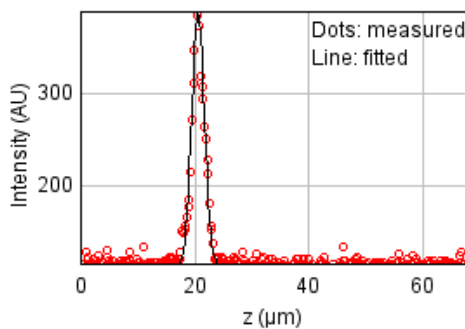
$b = -0.148$ px

$c = 0.387$ px

$x_c = 6.453$ px

$y_c = 6.424$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 27092.6354

Standard deviation: 9.39413

$R^2: 0.95910$

Parameters:

$a = 113.44953$

$b = 390.61316$

$c = 20.65020$

$d = 1.08854$

Bead 1049

Date : Mon Oct 17 13:51:49 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

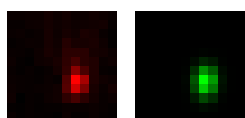
Coordinates : 44.7 μm (x), 61.2 μm (y), 21.3 μm (z)

Corresponding bead : Not found

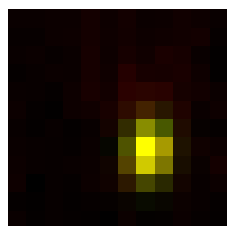
FWHM	Non corrected	Corrected	Theoretical
min	405 nm	422 nm	270 nm
max	570 nm	594 nm	270 nm
z	1.94 μm	1.94 μm	1.3 μm
Asymmetry	0.711		
Theta	88.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 482.129 (brightness)

B = 125.088 (background)

a = 0.817 px

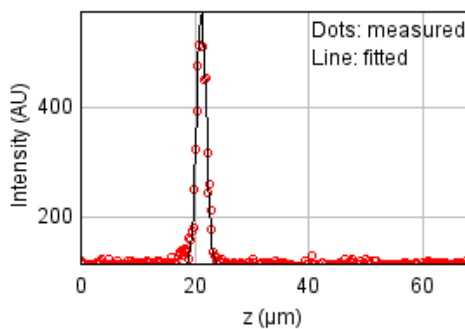
b = 0.014 px

c = 0.414 px

$x_c = 7.186$ px

$y_c = 7.210$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 30623.9122

Standard deviation: 9.98760

R^2 : 0.97791

Parameters:

a = 114.51906

b = 576.92928

c = 21.25611

d = 0.82245

Bead 1050

Date : Mon Oct 17 13:51:49 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

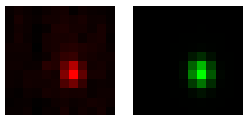
Coordinates : -109 μm (x), 41.3 μm (y), 20.8 μm (z)

Corresponding bead : Not found

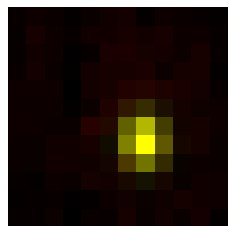
FWHM	Non corrected	Corrected	Theoretical
min	392 nm	408 nm	270 nm
max	491 nm	512 nm	270 nm
z	2.06 μm	2.07 μm	1.3 μm
Asymmetry	0.797		
Theta	-86.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 320.742$ (brightness)

$B = 121.499$ (background)

$a = 0.873$ px

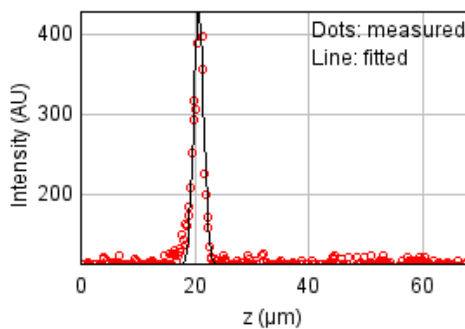
$b = -0.018$ px

$c = 0.557$ px

$x_c = 6.885$ px

$y_c = 6.789$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 29499.2966

Standard deviation: 9.80250

$R^2: 0.95757$

Parameters:

$a = 114.03863$

$b = 428.57018$

$c = 20.76801$

$d = 0.87538$

Bead 1051

Date : Mon Oct 17 13:51:49 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

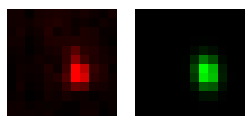
Coordinates : 30.4 μm (x), 27.1 μm (y), 21.1 μm (z)

Corresponding bead : Not found

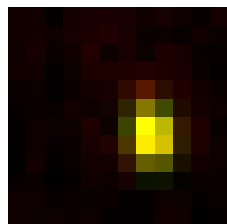
FWHM	Non corrected	Corrected	Theoretical
min	401 nm	417 nm	270 nm
max	571 nm	594 nm	270 nm
z	2.27 μm	2.28 μm	1.3 μm
Asymmetry	0.702		
Theta	-81.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 378.508$ (brightness)

$B = 120.530$ (background)

$a = 0.827$ px

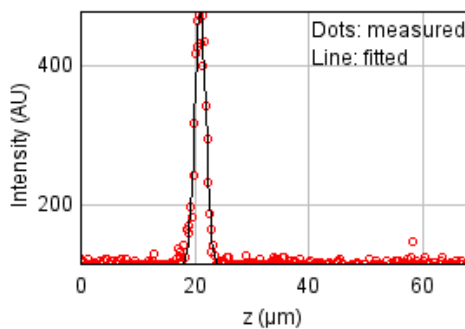
$b = -0.063$ px

$c = 0.422$ px

$x_c = 7.334$ px

$y_c = 6.454$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 30473.1763

Standard deviation: 9.96299

$R^2: 0.97011$

Parameters:

$a = 113.49892$

$b = 479.39883$

$c = 21.05119$

$d = 0.96578$

Bead 1052

Date : Mon Oct 17 13:51:49 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

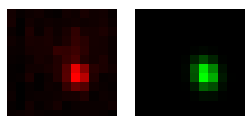
Coordinates : 146 um (x), 20.2 um (y), 20.7 um (z)

Corresponding bead : Not found

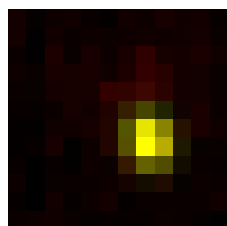
FWHM	Non corrected	Corrected	Theoretical
min	409 nm	426 nm	270 nm
max	509 nm	530 nm	270 nm
z	2.16 um	2.17 um	1.3 um
Asymmetry	0.804		
Theta	-72.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 282.153 (brightness)

B = 119.867 (background)

a = 0.775 px

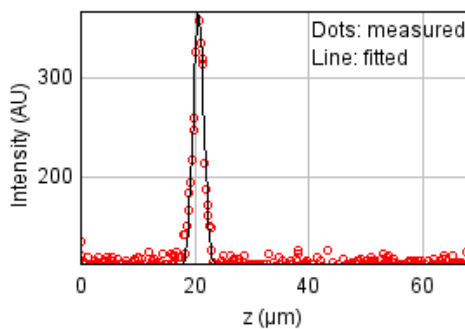
b = -0.082 px

c = 0.544 px

xc = 7.208 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: 20233.0936

Standard deviation: 8.11824

R^2 : 0.95830

Parameters:

a = 110.70568

b = 367.68366

c = 20.73234

d = 0.91793

Bead 1053

Date : Mon Oct 17 13:51:49 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

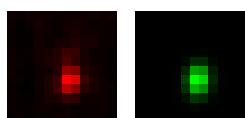
Coordinates : 9.33 μm (x), -4.96 μm (y), 20.9 μm (z)

Corresponding bead : Not found

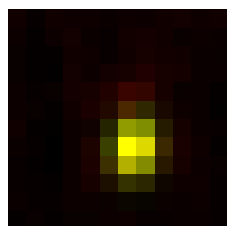
FWHM	Non corrected	Corrected	Theoretical
min	416 nm	434 nm	270 nm
max	560 nm	584 nm	270 nm
z	2.24 μm	2.24 μm	1.3 μm
Asymmetry	0.743		
Theta	84.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 506.636$ (brightness)

$B = 123.523$ (background)

$a = 0.771$ px

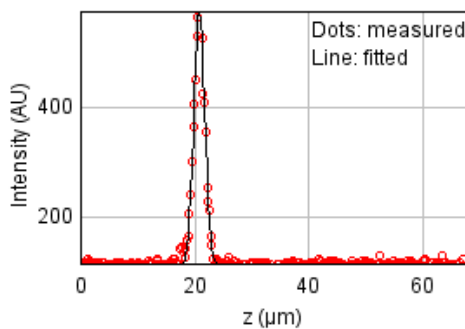
$b = 0.033$ px

$c = 0.431$ px

$x_c = 6.393$ px

$y_c = 7.040$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 17512.9476

Standard deviation: 7.55284

$R^2: 0.98873$

Parameters:

$a = 113.80292$

$b = 573.59509$

$c = 20.87482$

$d = 0.94940$

Bead 1054

Date : Mon Oct 17 13:51:49 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

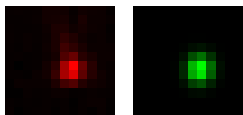
Coordinates : 47.0 μm (x), -5.48 μm (y), 21.7 μm (z)

Corresponding bead : Not found

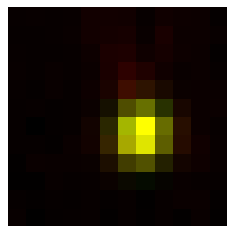
FWHM	Non corrected	Corrected	Theoretical
min	472 nm	492 nm	270 nm
max	538 nm	560 nm	270 nm
z	2.03 μm	2.04 μm	1.3 μm
Asymmetry	0.879		
Theta	83.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 787.495$ (brightness)

$B = 126.563$ (background)

$a = 0.600$ px

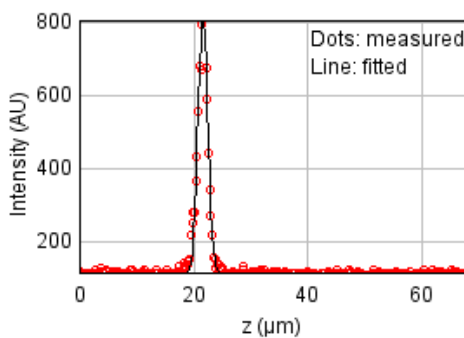
$b = 0.015$ px

$c = 0.466$ px

$x_c = 6.774$ px

$y_c = 6.389$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 51222.9207

Standard deviation: 12.91704

$R^2: 0.98430$

Parameters:

$a = 114.43174$

$b = 810.58701$

$c = 21.67921$

$d = 0.86134$

Bead 1055 (Rejected)

Date : Mon Oct 17 13:51:49 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : 142 μm (x), -10.3 μm (y), 22.6 μm (z)

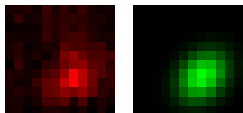
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

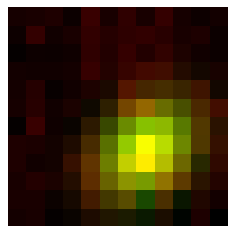
FWHM	Non corrected	Corrected	Theoretical
min	780 nm	812 nm	270 nm
max	1.01 μm	1.06 μm	270 nm
z	5.68 μm	5.71 μm	1.3 μm
Asymmetry	0.769		
Theta	48.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.847$



Parameters:

A = 114.899 (brightness)

B = 121.539 (background)

a = 0.180 px

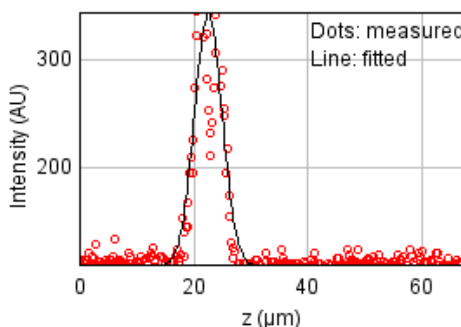
b = 0.045 px

c = 0.171 px

xc = 7.057 px

yc = 7.280 px

Z profile & fitting parameters:



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

Sum of residuals squared: 146978.360

Standard deviation: 21.88051

R^2 : 0.86340

Parameters:

a = 109.36592

b = 343.20396

c = 22.62468

d = 2.41351

Bead 1056

Date : Mon Oct 17 13:51:50 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

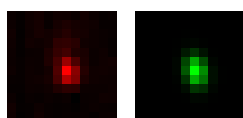
Coordinates : 60.1 μm (x), -38.2 μm (y), 21.1 μm (z)

Corresponding bead : Not found

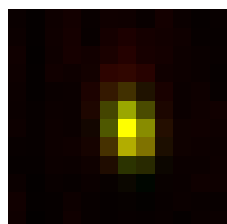
FWHM	Non corrected	Corrected	Theoretical
min	396 nm	413 nm	270 nm
max	587 nm	611 nm	270 nm
z	2.01 μm	2.02 μm	1.3 μm
Asymmetry	0.675		
Theta	-78.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 451.447$ (brightness)

$B = 122.132$ (background)

$a = 0.835$ px

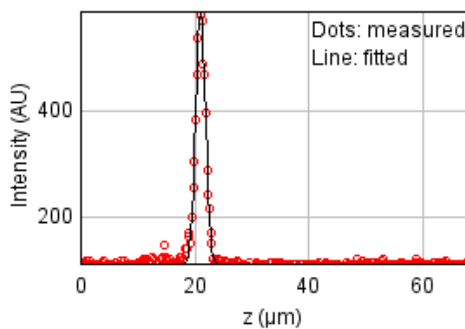
$b = -0.095$ px

$c = 0.410$ px

$x_c = 6.146$ px

$y_c = 6.054$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 19771.9123

Standard deviation: 8.02519

$R^2: 0.98669$

Parameters:

$a = 113.53390$

$b = 586.09094$

$c = 21.10048$

$d = 0.85241$

Bead 1057

Date : Mon Oct 17 13:51:50 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

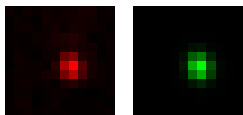
Coordinates : 159 μm (x), -81.8 μm (y), 21.1 μm (z)

Corresponding bead : Not found

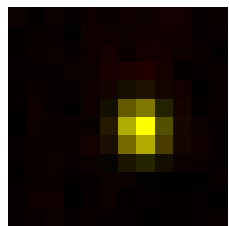
FWHM	Non corrected	Corrected	Theoretical
min	413 nm	430 nm	270 nm
max	487 nm	508 nm	270 nm
z	2.33 μm	2.34 μm	1.3 μm
Asymmetry	0.846		
Theta	-77.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 418.234$ (brightness)

$B = 114.437$ (background)

$a = 0.777$ px

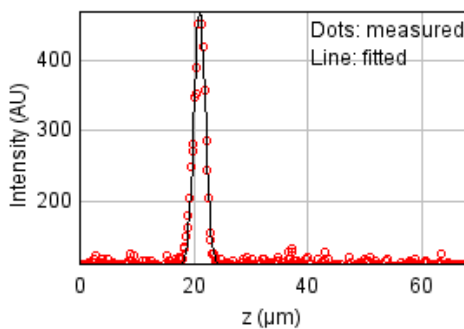
$b = -0.049$ px

$c = 0.576$ px

$x_c = 6.758$ px

$y_c = 6.136$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 24205.7509

Standard deviation: 8.87953

$R^2: 0.97552$

Parameters:

$a = 110.57541$

$b = 467.82578$

$c = 21.11977$

$d = 0.98928$

Bead 1058

Date : Mon Oct 17 13:51:50 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

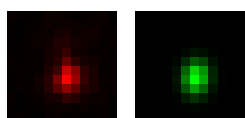
Coordinates : 58.8 μm (x), -85.6 μm (y), 21.1 μm (z)

Corresponding bead : Not found

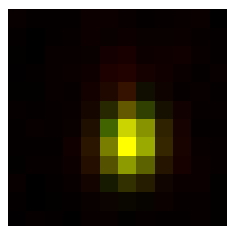
FWHM	Non corrected	Corrected	Theoretical
min	490 nm	510 nm	270 nm
max	625 nm	651 nm	270 nm
z	2.06 μm	2.07 μm	1.3 μm
Asymmetry	0.784		
Theta	83.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 531.493$ (brightness)

$B = 120.191$ (background)

$a = 0.556$ px

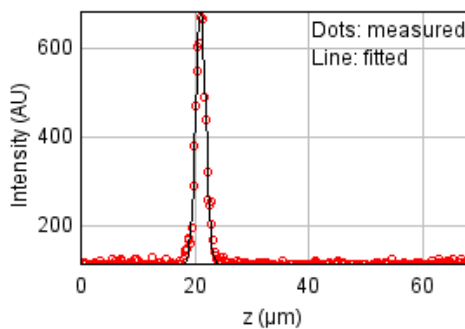
$b = 0.025$ px

$c = 0.347$ px

$x_c = 6.145$ px

$y_c = 6.766$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 44494.4172

Standard deviation: 12.03881

$R^2: 0.98002$

Parameters:

$a = 113.61354$

$b = 683.19681$

$c = 21.12256$

$d = 0.87493$

Bead 1059 (Rejected)

Date : Mon Oct 17 13:51:50 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : 92.8 μm (x), 77.1 μm (y), 21.2 μm (z)

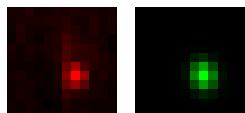
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

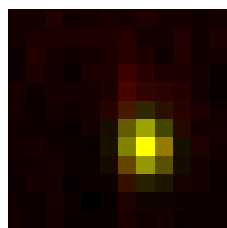
FWHM	Non corrected	Corrected	Theoretical
min	433 nm	451 nm	270 nm
max	529 nm	551 nm	270 nm
z	2.03 μm	2.04 μm	1.3 μm
Asymmetry	0.818		
Theta	-77.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 256.841 (brightness)

B = 120.453 (background)

a = 0.705 px

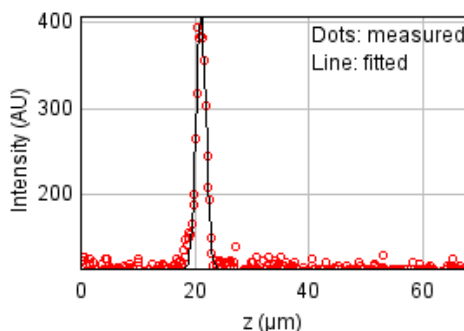
b = -0.048 px

c = 0.489 px

xc = 6.977 px

yc = 6.963 px

Z profile & fitting parameters:



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

Sum of residuals squared: 20854.6326

Standard deviation: 8.24199

R^2 : 0.96473

Parameters:

a = 113.54484

b = 407.02441

c = 21.18931

d = 0.86074

Bead 1060

Date : Mon Oct 17 13:51:50 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

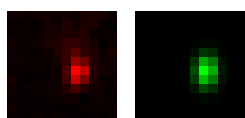
Coordinates : 66.7 μm (x), 56.4 μm (y), 21.2 μm (z)

Corresponding bead : Not found

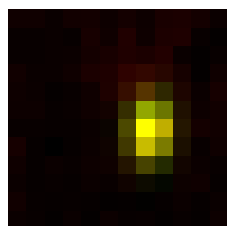
FWHM	Non corrected	Corrected	Theoretical
min	405 nm	421 nm	270 nm
max	607 nm	632 nm	270 nm
z	2.27 μm	2.28 μm	1.3 μm
Asymmetry	0.667		
Theta	87.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 398.305 (brightness)

B = 121.573 (background)

a = 0.819 px

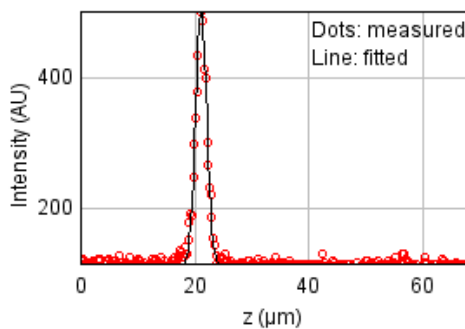
b = 0.021 px

c = 0.365 px

xc = 7.263 px

yc = 6.068 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22416.9377

Standard deviation: 8.54514

R^2 : 0.98017

Parameters:

a = 114.01213

b = 501.76672

c = 21.19645

d = 0.96317

Bead 1061

Date : Mon Oct 17 13:51:50 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

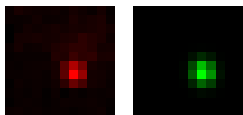
Coordinates : 121 μm (x), 46.8 μm (y), 21.1 μm (z)

Corresponding bead : Not found

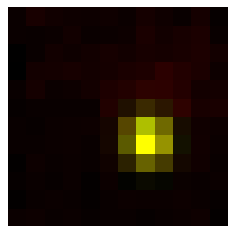
FWHM	Non corrected	Corrected	Theoretical
min	409 nm	426 nm	270 nm
max	465 nm	484 nm	270 nm
z	2.23 μm	2.24 μm	1.3 μm
Asymmetry	0.881		
Theta	-83.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.922$



Parameters:

$A = 348.117$ (brightness)

$B = 120.720$ (background)

$a = 0.799$ px

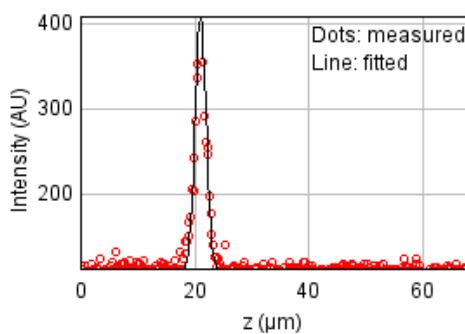
$b = -0.021$ px

$c = 0.624$ px

$x_c = 7.147$ px

$y_c = 6.736$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 25835.5910

Standard deviation: 9.17360

$R^2: 0.96075$

Parameters:

$a = 112.02811$

$b = 407.38683$

$c = 21.10102$

$d = 0.94654$

Bead 1062

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

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

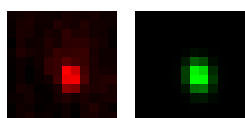
Coordinates : 119 um (x), 37.8 um (y), 21.0 um (z)

Corresponding bead : Not found

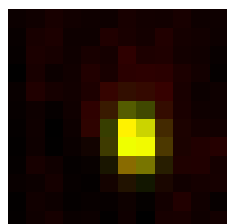
FWHM	Non corrected	Corrected	Theoretical
min	422 nm	439 nm	270 nm
max	548 nm	570 nm	270 nm
z	2.48 um	2.49 um	1.3 um
Asymmetry	0.77		
Theta	-79.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 322.357 (brightness)

B = 123.652 (background)

a = 0.744 px

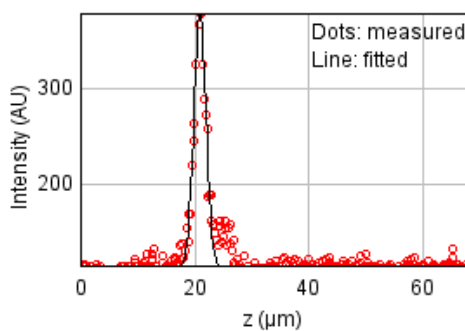
b = -0.056 px

c = 0.458 px

xc = 6.459 px

yc = 6.611 px

Z profile & fitting parameters:



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

Sum of residuals squared: 36105.5810

Standard deviation: 10.84471

R^2 : 0.93920

Parameters:

a = 115.13260

b = 378.80655

c = 20.98996

d = 1.05390

Bead 1063 (Rejected)

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

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : 10.3 μm (x), 9.54 μm (y), 17.8 μm (z)

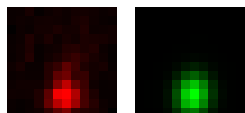
Corresponding bead : Not found

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

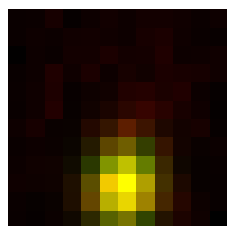
FWHM	Non corrected	Corrected	Theoretical
min	612 nm	637 nm	270 nm
max	776 nm	808 nm	270 nm
z	3.61 μm	3.62 μm	1.3 μm
Asymmetry	0.788		
Theta	84.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 304.641 (brightness)

B = 120.453 (background)

a = 0.357 px

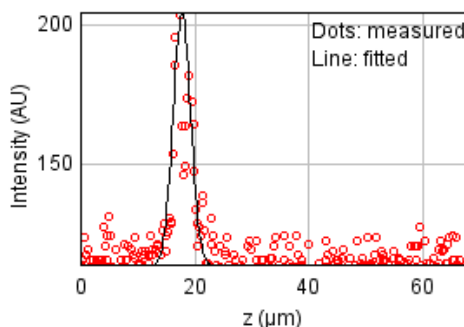
b = 0.014 px

c = 0.224 px

xc = 5.826 px

yc = 9.126 px

Z profile & fitting parameters:



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

Sum of residuals squared: 35429.5667

Standard deviation: 10.74271

R^2 : 0.72408

Parameters:

a = 113.96098

b = 204.43311

c = 17.82964

d = 1.53278

Bead 1064

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

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : 143 μm (x), -5.37 μm (y), 21.0 μm (z)

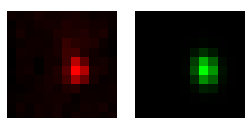
Corresponding bead : Not found



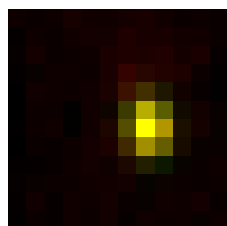
FWHM	Non corrected	Corrected	Theoretical
min	394 nm	411 nm	270 nm
max	534 nm	556 nm	270 nm
z	2.09 μm	2.09 μm	1.3 μm
Asymmetry	0.739		
Theta	-83.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 326.985$ (brightness)

$B = 118.330$ (background)

$a = 0.857$ px

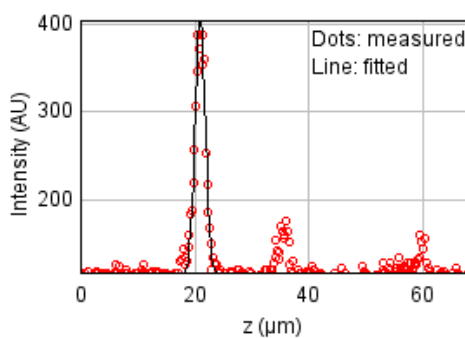
$b = -0.047$ px

$c = 0.477$ px

$x_c = 7.187$ px

$y_c = 5.911$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 49464.6991

Standard deviation: 12.69342

$R^2: 0.92001$

Parameters:

$a = 115.73838$

$b = 404.88930$

$c = 21.03176$

$d = 0.88559$

Bead 1065

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

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

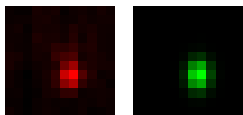
Coordinates : 101 μm (x), -7.81 μm (y), 21.3 μm (z)

Corresponding bead : Not found

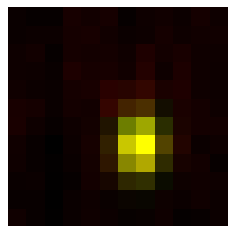
FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	564 nm	588 nm	270 nm
z	1.85 μm	1.86 μm	1.3 μm
Asymmetry	0.727		
Theta	87.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 397.502$ (brightness)

$B = 125.136$ (background)

$a = 0.796$ px

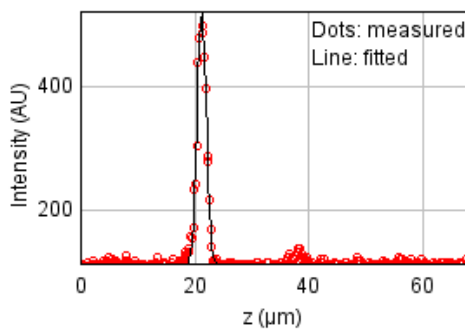
$b = 0.015$ px

$c = 0.422$ px

$x_c = 6.657$ px

$y_c = 7.015$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 22697.0252

Standard deviation: 8.59835

$R^2: 0.97781$

Parameters:

$a = 114.03707$

$b = 519.77923$

$c = 21.30121$

$d = 0.78642$

Bead 1066

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

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

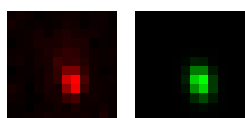
Coordinates : 147 μm (x), -46.1 μm (y), 21.6 μm (z)

Corresponding bead : Not found

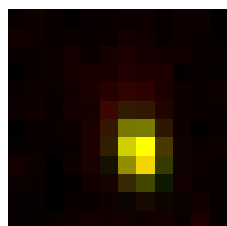
FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	555 nm	578 nm	270 nm
z	2.39 μm	2.4 μm	1.3 μm
Asymmetry	0.701		
Theta	-77.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 432.843$ (brightness)

$B = 122.240$ (background)

$a = 0.867$ px

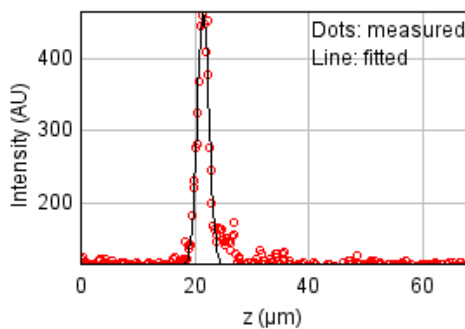
$b = -0.096$ px

$c = 0.458$ px

$xc = 6.647$ px

$yc = 7.227$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 46329.2219

Standard deviation: 12.28452

$R^2: 0.95378$

Parameters:

$a = 114.21726$

$b = 465.78044$

$c = 21.56462$

$d = 1.01384$

Bead 1067

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

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

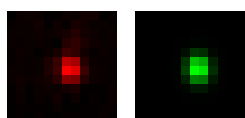
Coordinates : -61.9 μm (x), -53.5 μm (y), 21.3 μm (z)

Corresponding bead : Not found

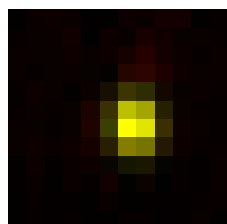
FWHM	Non corrected	Corrected	Theoretical
min	423 nm	441 nm	270 nm
max	518 nm	540 nm	270 nm
z	2.98 μm	2.99 μm	1.3 μm
Asymmetry	0.816		
Theta	-85.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 491.202 (brightness)

B = 120.401 (background)

a = 0.748 px

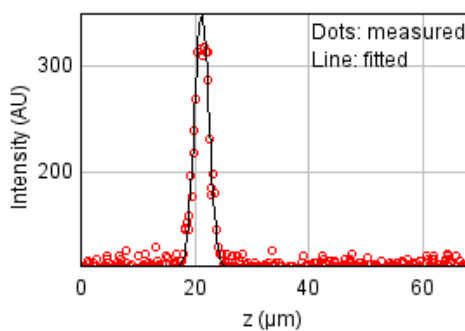
b = -0.020 px

c = 0.501 px

xc = 6.420 px

yc = 5.803 px

Z profile & fitting parameters:



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

Sum of residuals squared: 20561.1930

Standard deviation: 8.18380

R^2 : 0.96279

Parameters:

a = 112.19938

b = 348.69489

c = 21.30569

d = 1.26424

Bead 1068

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

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

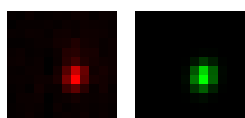
Coordinates : -110 μm (x), -57.5 μm (y), 21.2 μm (z)

Corresponding bead : Not found

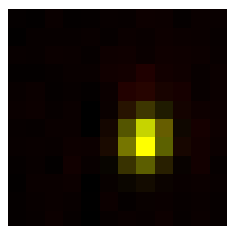
FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	484 nm	504 nm	270 nm
z	2.17 μm	2.18 μm	1.3 μm
Asymmetry	0.804		
Theta	76.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 513.331 (brightness)

B = 121.943 (background)

a = 0.869 px

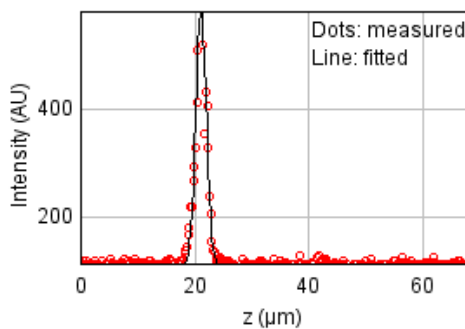
b = 0.072 px

c = 0.590 px

$x_c = 6.973$ px

$y_c = 6.661$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 56128.7869

Standard deviation: 13.52146

R^2 : 0.96543

Parameters:

a = 112.85386

b = 584.07717

c = 21.18499

d = 0.92066

Bead 1069

Date : Mon Oct 17 13:51:52 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

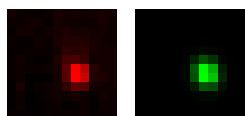
Coordinates : 162 μm (x), -57.6 μm (y), 21.3 μm (z)

Corresponding bead : Not found

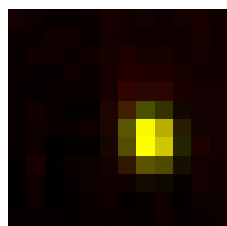
FWHM	Non corrected	Corrected	Theoretical
min	426 nm	444 nm	270 nm
max	495 nm	516 nm	270 nm
z	2.42 μm	2.43 μm	1.3 μm
Asymmetry	0.861		
Theta	-71.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 388.797$ (brightness)

$B = 117.240$ (background)

$a = 0.720$ px

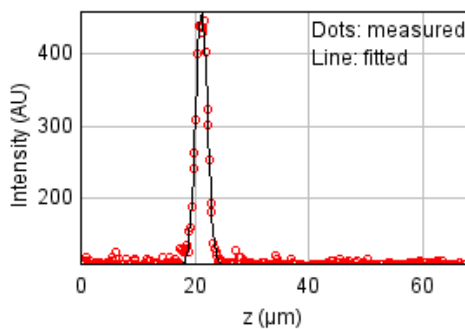
$b = -0.058$ px

$c = 0.567$ px

$x_c = 7.287$ px

$y_c = 6.545$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 14788.1167

Standard deviation: 6.94044

$R^2: 0.98484$

Parameters:

$a = 109.18454$

$b = 459.68827$

$c = 21.27160$

$d = 1.02594$

Bead 1070

Date : Mon Oct 17 13:51:52 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

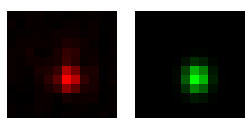
Coordinates : -35.1 μm (x), -75.3 μm (y), 21.5 μm (z)

Corresponding bead : Not found

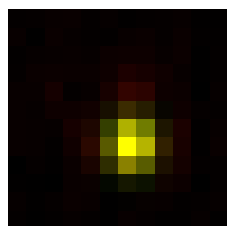
FWHM	Non corrected	Corrected	Theoretical
min	439 nm	457 nm	270 nm
max	505 nm	526 nm	270 nm
z	2.18 μm	2.19 μm	1.3 μm
Asymmetry	0.868		
Theta	-88.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 633.663 (brightness)

B = 127.081 (background)

a = 0.697 px

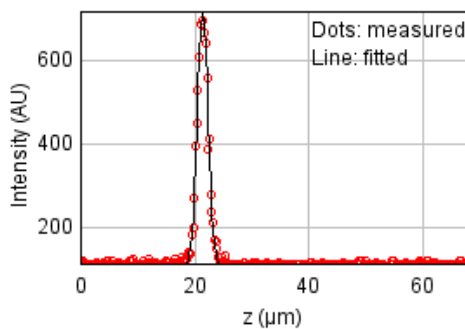
b = -0.005 px

c = 0.526 px

xc = 6.248 px

yc = 6.853 px

Z profile & fitting parameters:



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

Sum of residuals squared: 24965.5421

Standard deviation: 9.01781

R^2 : 0.99049

Parameters:

a = 114.16092

b = 719.74613

c = 21.46530

d = 0.92457

Bead 1071

Date : Mon Oct 17 13:51:52 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

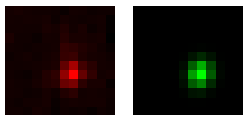
Coordinates : 63.8 μm (x), -76.0 μm (y), 21.3 μm (z)

Corresponding bead : Not found

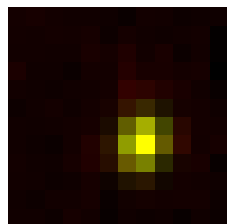
FWHM	Non corrected	Corrected	Theoretical
min	415 nm	432 nm	270 nm
max	508 nm	529 nm	270 nm
z	1.78 μm	1.79 μm	1.3 μm
Asymmetry	0.816		
Theta	75.7°		

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 = 361.121 (brightness)

B = 119.880 (background)

a = 0.763 px

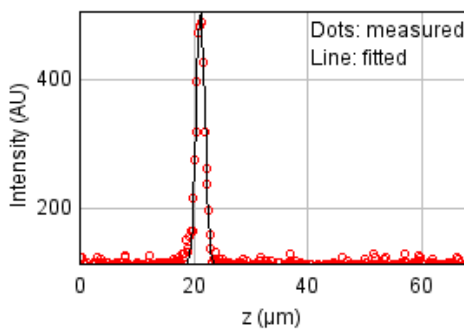
b = 0.062 px

c = 0.535 px

xc = 6.827 px

yc = 6.879 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22755.4959

Standard deviation: 8.60942

R^2 : 0.97542

Parameters:

a = 113.70590

b = 506.61362

c = 21.26197

d = 0.75582

Bead 1072 (Rejected)

Date : Mon Oct 17 13:51:52 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : -90.4 μm (x), -88.6 μm (y), 18.7 μm (z)

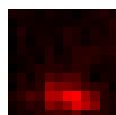
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	3.41 μm	3.42 μm	1.3 μm
Asymmetry	0.0		
Theta	0.0°		

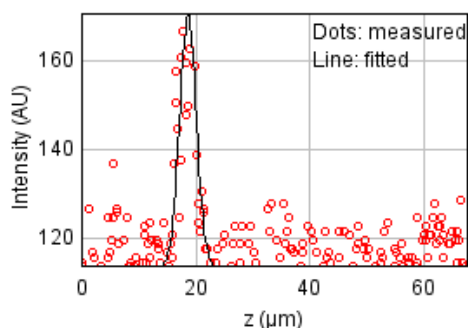
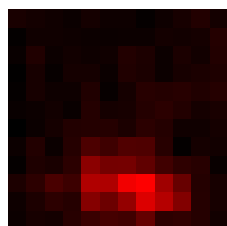
XY profile & fitting parameters :

(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: 16276.1899

Standard deviation: 7.28127

R²: 0.68051

Parameters:

a = 113.86597

b = 170.58223

c = 18.72196

d = 1.44733

Bead 1073

Date : Mon Oct 17 13:51:52 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

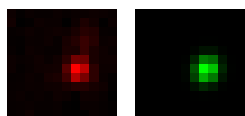
Coordinates : -134 μm (x), -95.8 μm (y), 21.1 μm (z)

Corresponding bead : Not found

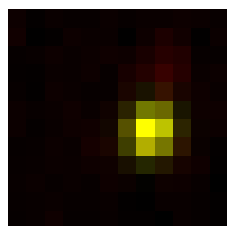
FWHM	Non corrected	Corrected	Theoretical
min	429 nm	446 nm	270 nm
max	496 nm	517 nm	270 nm
z	2.02 μm	2.03 μm	1.3 μm
Asymmetry	0.863		
Theta	70.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 465.708 (brightness)

B = 119.801 (background)

a = 0.709 px

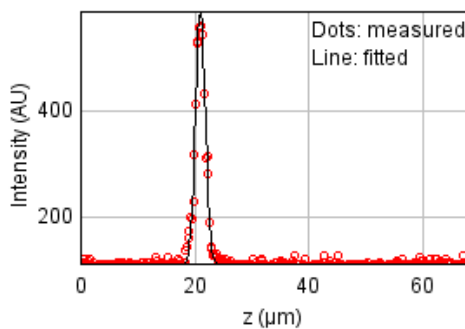
b = 0.059 px

c = 0.566 px

xc = 7.299 px

yc = 6.131 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29876.9537

Standard deviation: 9.86504

R^2 : 0.98049

Parameters:

a = 111.53612

b = 588.70885

c = 21.06796

d = 0.85692

Bead 1074 (Rejected)

Date : Mon Oct 17 13:51:52 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : 66.9 μm (x), 43.2 μm (y), 13.4 μm (z)

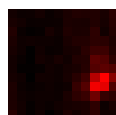
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	4.22 μm	4.24 μm	1.3 μm
Asymmetry	0.0		
Theta	0.0°		

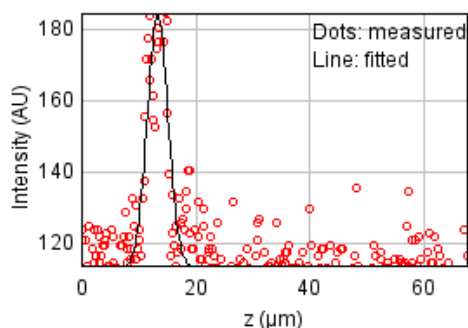
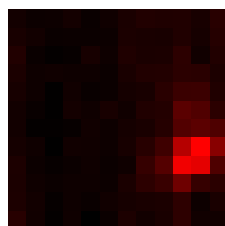
XY profile & fitting parameters :

(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: 22468.5220

Standard deviation: 8.55496

R²: 0.74486

Parameters:

a = 113.66076

b = 184.47268

c = 13.40886

d = 1.79160

Bead 1075

Date : Mon Oct 17 13:51:53 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

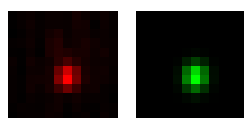
Coordinates : -118 μm (x), 18.4 μm (y), 21.3 μm (z)

Corresponding bead : Not found

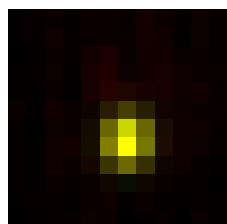
FWHM	Non corrected	Corrected	Theoretical
min	428 nm	445 nm	270 nm
max	504 nm	525 nm	270 nm
z	2.17 μm	2.18 μm	1.3 μm
Asymmetry	0.848		
Theta	85.8°		

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:

$A = 435.373$ (brightness)

$B = 117.547$ (background)

$a = 0.733$ px

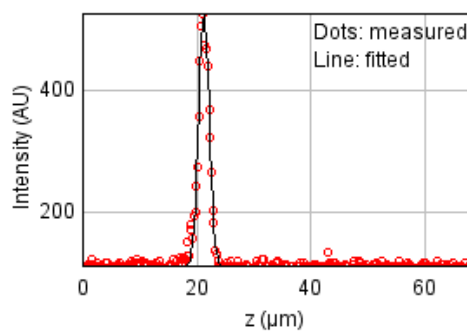
$b = 0.015$ px

$c = 0.529$ px

$x_c = 5.985$ px

$y_c = 6.666$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 23720.5696

Standard deviation: 8.79009

$R^2: 0.98061$

Parameters:

$a = 113.14995$

$b = 525.40123$

$c = 21.33830$

$d = 0.92032$

Bead 1076

Date : Mon Oct 17 13:51:53 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

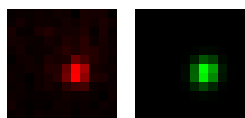
Coordinates : -133 μm (x), 5.73 μm (y), 21.1 μm (z)

Corresponding bead : Not found

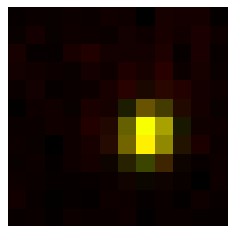
FWHM	Non corrected	Corrected	Theoretical
min	427 nm	445 nm	270 nm
max	485 nm	505 nm	270 nm
z	2.3 μm	2.31 μm	1.3 μm
Asymmetry	0.881		
Theta	69.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 277.689$ (brightness)

$B = 116.053$ (background)

$a = 0.715$ px

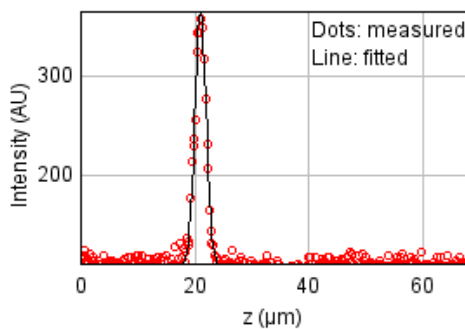
$b = 0.053$ px

$c = 0.590$ px

$x_c = 7.147$ px

$y_c = 6.434$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 14942.1894

Standard deviation: 6.97651

$R^2: 0.96930$

Parameters:

$a = 111.93568$

$b = 363.44927$

$c = 21.08618$

$d = 0.97562$

Bead 1077

Date : Mon Oct 17 13:51:53 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

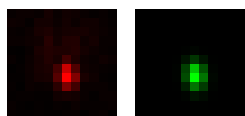
Coordinates : 161 um (x), 4.34 um (y), 21.7 um (z)

Corresponding bead : Not found

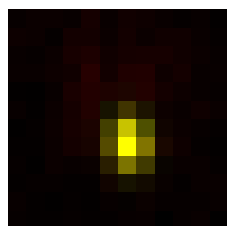
FWHM	Non corrected	Corrected	Theoretical
min	364 nm	379 nm	270 nm
max	506 nm	527 nm	270 nm
z	2.06 um	2.07 um	1.3 um
Asymmetry	0.719		
Theta	-83.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 533.918 (brightness)

B = 124.322 (background)

a = 1.008 px

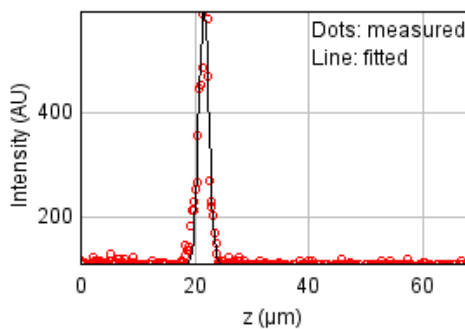
b = -0.054 px

c = 0.531 px

xc = 6.095 px

yc = 6.763 px

Z profile & fitting parameters:



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

Sum of residuals squared: 63862.2256

Standard deviation: 14.42291

R^2 : 0.96113

Parameters:

a = 111.78951

b = 596.60244

c = 21.67647

d = 0.87382

Bead 1078

Date : Mon Oct 17 13:51:53 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

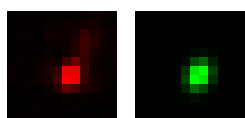
Coordinates : -59.7 μm (x), -16.5 μm (y), 22.2 μm (z)

Corresponding bead : Not found

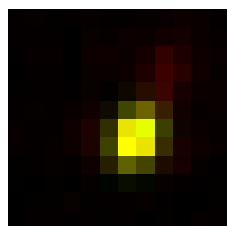
FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	526 nm	548 nm	270 nm
z	2.38 μm	2.39 μm	1.3 μm
Asymmetry	0.781		
Theta	65.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 869.025 (brightness)

B = 129.882 (background)

a = 0.744 px

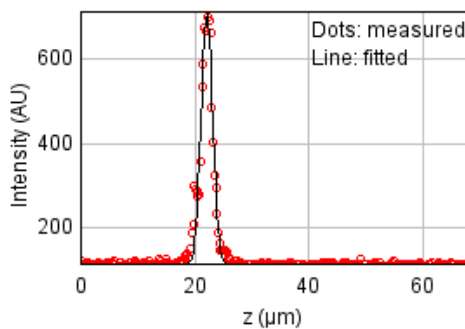
b = 0.117 px

c = 0.538 px

xc = 6.497 px

yc = 6.498 px

Z profile & fitting parameters:



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

Sum of residuals squared: 79929.7913

Standard deviation: 16.13560

R^2 : 0.97198

Parameters:

a = 113.54490

b = 713.58414

c = 22.21796

d = 1.00899

Bead 1079

Date : Mon Oct 17 13:51:53 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

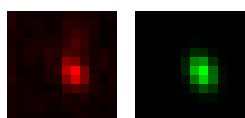
Coordinates : 118 μm (x), -31.2 μm (y), 21.2 μm (z)

Corresponding bead : Not found

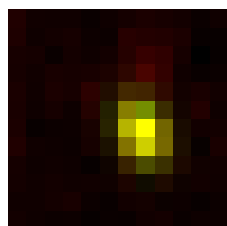
FWHM	Non corrected	Corrected	Theoretical
min	441 nm	459 nm	270 nm
max	619 nm	645 nm	270 nm
z	2.34 μm	2.35 μm	1.3 μm
Asymmetry	0.712		
Theta	-67.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 261.415 (brightness)

B = 117.155 (background)

a = 0.642 px

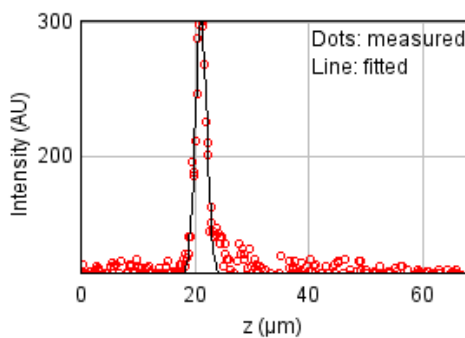
b = -0.119 px

c = 0.398 px

xc = 6.808 px

yc = 6.182 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22743.6252

Standard deviation: 8.60718

R^2 : 0.92219

Parameters:

a = 113.67428

b = 302.15346

c = 21.17777

d = 0.99340

Bead 1080

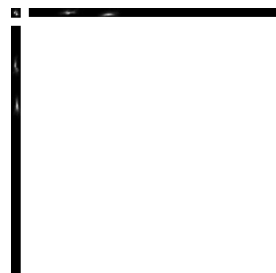
Date : Mon Oct 17 13:51:54 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : -93.9 μm (x), -44.6 μm (y), 10.5 μm (z)

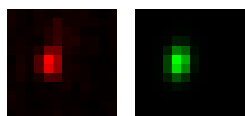
Corresponding bead : Not found



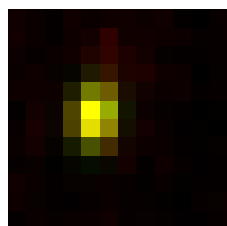
FWHM	Non corrected	Corrected	Theoretical
min	390 nm	406 nm	270 nm
max	560 nm	583 nm	270 nm
z	2.49 μm	2.5 μm	1.3 μm
Asymmetry	0.697		
Theta	82.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 445.699$ (brightness)

$B = 119.407$ (background)

$a = 0.875$ px

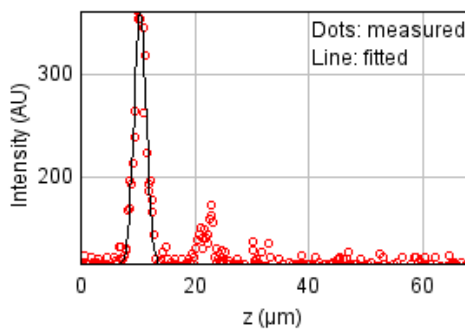
$b = 0.059$ px

$c = 0.436$ px

$x_c = 4.248$ px

$y_c = 5.305$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 46400.1887

Standard deviation: 12.29393

$R^2: 0.91328$

Parameters:

$a = 114.85414$

$b = 361.18632$

$c = 10.51389$

$d = 1.05817$

Bead 1081

Date : Mon Oct 17 13:51:54 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

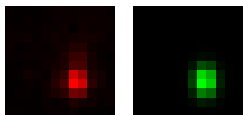
Coordinates : -26.5 μm (x), -49.3 μm (y), 21.4 μm (z)

Corresponding bead : Not found

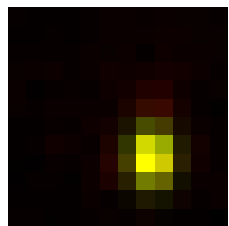
FWHM	Non corrected	Corrected	Theoretical
min	404 nm	421 nm	270 nm
max	549 nm	572 nm	270 nm
z	2.06 μm	2.07 μm	1.3 μm
Asymmetry	0.736		
Theta	-89.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 594.169 (brightness)

B = 123.400 (background)

a = 0.820 px

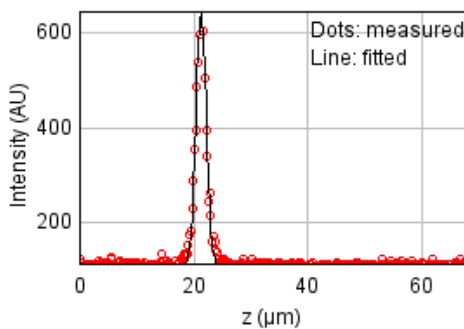
b = -0.002 px

c = 0.445 px

$x_c = 7.354$ px

$y_c = 7.684$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 36395.3430

Standard deviation: 10.88814

R^2 : 0.98121

Parameters:

a = 113.85977

b = 645.11249

c = 21.36746

d = 0.87597

Bead 1082 (Rejected)

Date : Mon Oct 17 13:51:54 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : 519 nm (x), -68.0 μm (y), 23.1 μm (z)

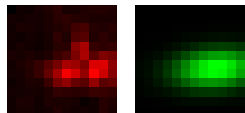
Corresponding bead : Not found

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

FWHM	Non corrected	Corrected	Theoretical
min	728 nm	759 nm	270 nm
max	1.56 μm	1.62 μm	270 nm
z	4.45 μm	4.47 μm	1.3 μm
Asymmetry	0.467		
Theta	4.5°		

XY profile & fitting parameters :

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



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

$R^2 = 0.844$

Parameters:

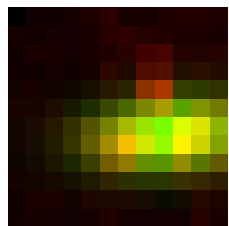
$A = 195.701$ (brightness)

$B = 117.318$ (background)

$a = 0.056$ px

$b = 0.015$ px

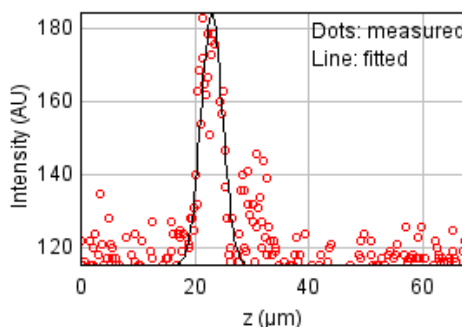
$c = 0.252$ px



$xc = 8.360$ px

$yc = 6.447$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 21665.2140

Standard deviation: 8.40064

$R^2: 0.75307$

Parameters:

$a = 115.00349$

$b = 184.37476$

$c = 23.06813$

$d = 1.89135$

Bead 1083

Date : Mon Oct 17 13:51:54 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

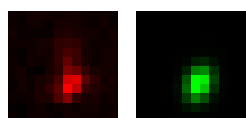
Coordinates : 87.6 μm (x), -92.8 μm (y), 21.4 μm (z)

Corresponding bead : Not found

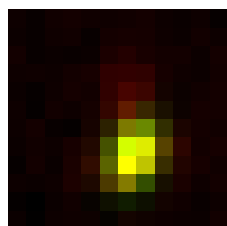
FWHM	Non corrected	Corrected	Theoretical
min	459 nm	478 nm	270 nm
max	635 nm	661 nm	270 nm
z	2.35 μm	2.36 μm	1.3 μm
Asymmetry	0.723		
Theta	70.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 340.198$ (brightness)

$B = 122.228$ (background)

$a = 0.604$ px

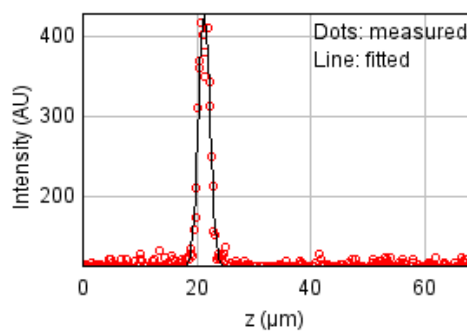
$b = 0.095$ px

$c = 0.367$ px

$xc = 6.375$ px

$yc = 7.406$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 29627.8041

Standard deviation: 9.82382

$R^2: 0.96248$

Parameters:

$a = 113.13090$

$b = 428.82916$

$c = 21.38416$

$d = 0.99880$

Bead 1084

Date : Mon Oct 17 13:51:54 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

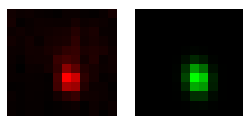
Coordinates : -2.56 μm (x), 88.5 μm (y), 22.0 μm (z)

Corresponding bead : Not found

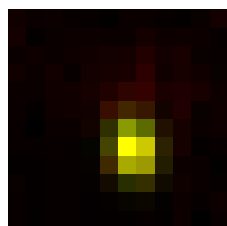
FWHM	Non corrected	Corrected	Theoretical
min	412 nm	429 nm	270 nm
max	553 nm	576 nm	270 nm
z	2.2 μm	2.21 μm	1.3 μm
Asymmetry	0.745		
Theta	-78.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 498.890 (brightness)

B = 127.943 (background)

a = 0.777 px

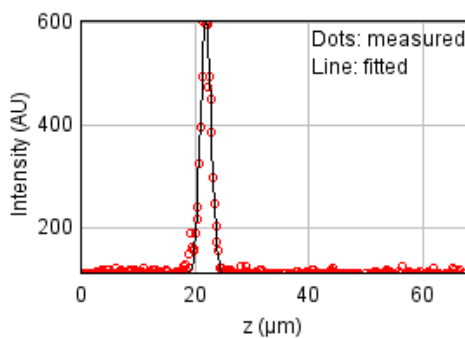
b = -0.067 px

c = 0.452 px

xc = 6.355 px

yc = 7.104 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33644.9501

Standard deviation: 10.46865

R^2 : 0.98073

Parameters:

a = 113.88637

b = 603.02158

c = 22.02498

d = 0.93377

Bead 1085 (Rejected)

Date : Mon Oct 17 13:51:54 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : -121 um (x), 87.9 um (y), 18.7 um (z)

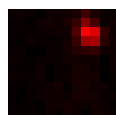
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	6.31 um	6.34 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

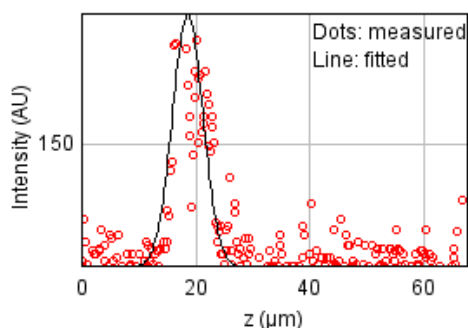
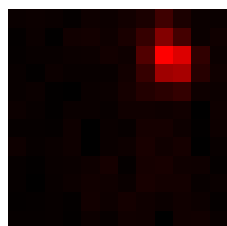
XY profile & fitting parameters :

(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: 35628.3868

Standard deviation: 10.77281

R²: 0.76323

Parameters:

a = 112.11107

b = 190.76531

c = 18.66909

d = 2.68007

Bead 1086

Date : Mon Oct 17 13:51:54 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

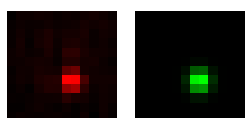
Coordinates : -113 μm (x), 60.6 μm (y), 22.0 μm (z)

Corresponding bead : Not found

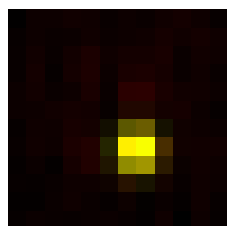
FWHM	Non corrected	Corrected	Theoretical
min	385 nm	401 nm	270 nm
max	418 nm	435 nm	270 nm
z	2.2 μm	2.21 μm	1.3 μm
Asymmetry	0.923		
Theta	-89.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 477.079$ (brightness)

$B = 122.099$ (background)

$a = 0.903$ px

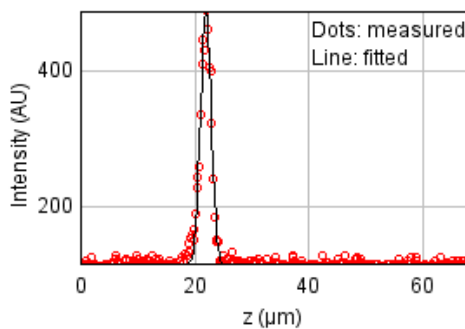
$b = -0.002$ px

$c = 0.769$ px

$x_c = 6.537$ px

$y_c = 7.153$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 25345.7296

Standard deviation: 9.08622

$R^2: 0.97540$

Parameters:

$a = 113.66254$

$b = 488.47676$

$c = 22.03671$

$d = 0.93359$

Bead 1087 (Rejected)

Date : Mon Oct 17 13:51:54 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : 15.3 μm (x), 55.2 μm (y), 22.3 μm (z)

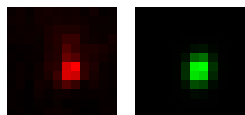
Corresponding bead : Not found

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

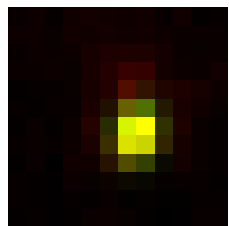
FWHM	Non corrected	Corrected	Theoretical
min	399 nm	415 nm	270 nm
max	521 nm	543 nm	270 nm
z	3.8 μm	3.82 μm	1.3 μm
Asymmetry	0.765		
Theta	80.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 540.981 (brightness)

B = 125.450 (background)

a = 0.834 px

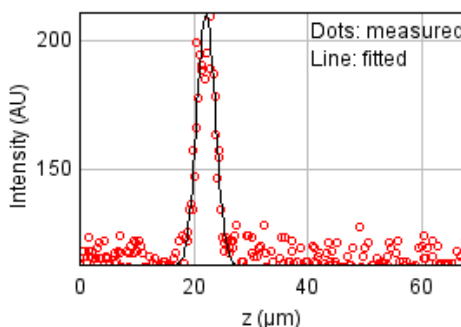
b = 0.057 px

c = 0.503 px

xc = 6.501 px

yc = 6.369 px

Z profile & fitting parameters:



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

Sum of residuals squared: 14125.5547

Standard deviation: 6.78318

R^2 : 0.89033

Parameters:

a = 112.99872

b = 211.11977

c = 22.25078

d = 1.61489

Bead 1088

Date : Mon Oct 17 13:51:55 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

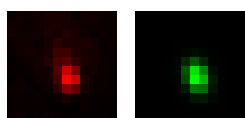
Coordinates : 101 um (x), 53.0 um (y), 21.6 um (z)

Corresponding bead : Not found

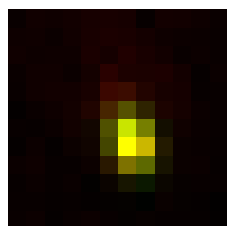
FWHM	Non corrected	Corrected	Theoretical
min	396 nm	412 nm	270 nm
max	565 nm	589 nm	270 nm
z	2.22 um	2.23 um	1.3 um
Asymmetry	0.7		
Theta	-72.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 460.002 (brightness)

B = 125.444 (background)

a = 0.815 px

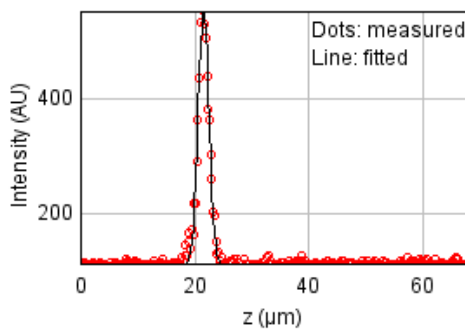
b = -0.128 px

c = 0.462 px

xc = 6.245 px

yc = 6.689 px

Z profile & fitting parameters:



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

Sum of residuals squared: 25482.8117

Standard deviation: 9.11076

R^2 : 0.98188

Parameters:

a = 112.79142

b = 550.04310

c = 21.62202

d = 0.94326

Bead 1089

Date : Mon Oct 17 13:51:55 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

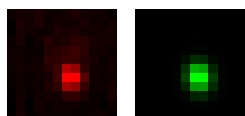
Coordinates : 162 μm (x), 50.3 μm (y), 21.6 μm (z)

Corresponding bead : Not found

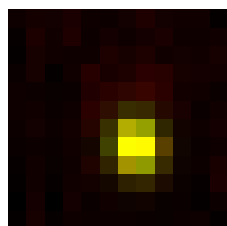
FWHM	Non corrected	Corrected	Theoretical
min	441 nm	460 nm	270 nm
max	536 nm	558 nm	270 nm
z	2.31 μm	2.32 μm	1.3 μm
Asymmetry	0.823		
Theta	-81.5°		

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:

$A = 323.137$ (brightness)

$B = 119.316$ (background)

$a = 0.684$ px

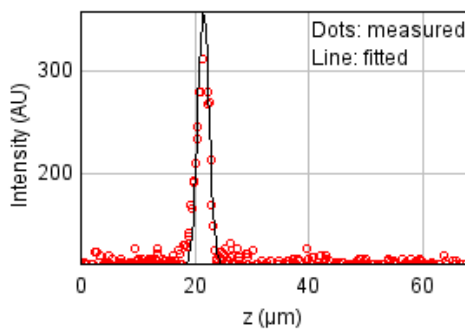
$b = -0.032$ px

$c = 0.472$ px

$x_c = 6.485$ px

$y_c = 6.944$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 32974.9016

Standard deviation: 10.36388

$R^2: 0.93188$

Parameters:

$a = 112.33130$

$b = 357.59333$

$c = 21.60817$

$d = 0.98121$

Bead 1090

Date : Mon Oct 17 13:51:55 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

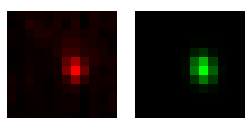
Coordinates : 126 μm (x), 47.5 μm (y), 21.5 μm (z)

Corresponding bead : Not found

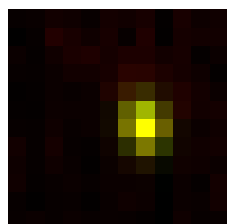
FWHM	Non corrected	Corrected	Theoretical
min	385 nm	401 nm	270 nm
max	502 nm	523 nm	270 nm
z	2.12 μm	2.13 μm	1.3 μm
Asymmetry	0.766		
Theta	-77.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 309.988 (brightness)

B = 119.093 (background)

a = 0.890 px

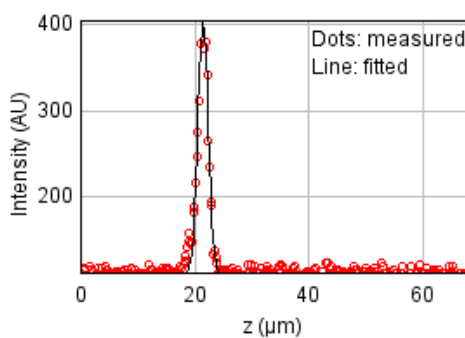
b = -0.077 px

c = 0.548 px

xc = 6.927 px

yc = 5.798 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19570.2858

Standard deviation: 7.98416

R^2 : 0.96766

Parameters:

a = 112.65157

b = 403.69977

c = 21.52961

d = 0.90054

Bead 1091

Date : Mon Oct 17 13:51:55 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

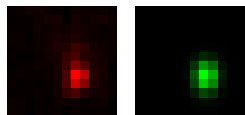
Coordinates : 69.4 μm (x), 43.2 μm (y), 22.0 μm (z)

Corresponding bead : Not found

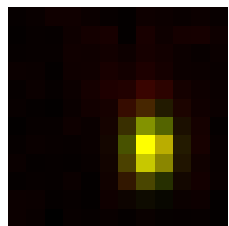
FWHM	Non corrected	Corrected	Theoretical
min	420 nm	438 nm	270 nm
max	579 nm	603 nm	270 nm
z	2.11 μm	2.12 μm	1.3 μm
Asymmetry	0.726		
Theta	89.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 496.916 (brightness)

B = 123.860 (background)

a = 0.759 px

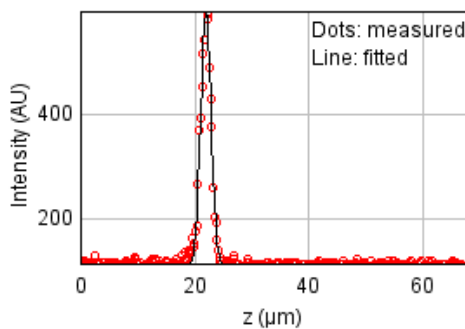
b = 0.003 px

c = 0.400 px

xc = 7.243 px

yc = 7.189 px

Z profile & fitting parameters:



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

Sum of residuals squared: 24416.6230

Standard deviation: 8.91813

R^2 : 0.98521

Parameters:

a = 113.64058

b = 599.71685

c = 22.04476

d = 0.89662

Bead 1092 (Rejected)

Date : Mon Oct 17 13:51:55 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : 155 um (x), 18.6 um (y), 21.6 um (z)

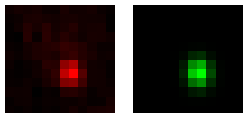
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

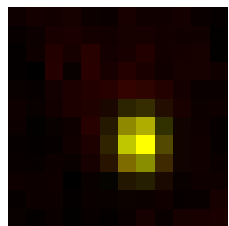
FWHM	Non corrected	Corrected	Theoretical
min	423 nm	441 nm	270 nm
max	524 nm	545 nm	270 nm
z	2.13 um	2.14 um	1.3 um
Asymmetry	0.808		
Theta	-88.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 249.938 (brightness)

B = 116.271 (background)

a = 0.750 px

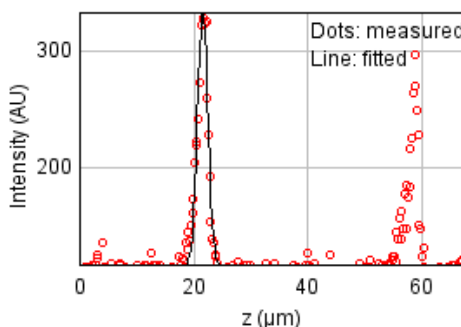
b = -0.008 px

c = 0.490 px

xc = 6.664 px

yc = 6.891 px

Z profile & fitting parameters:



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

Sum of residuals squared: 187431.014

Standard deviation: 24.70879

R^2 : 0.63827

Parameters:

a = 116.22400

b = 334.33811

c = 21.64126

d = 0.90579

Bead 1093

Date : Mon Oct 17 13:51:55 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

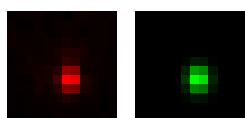
Coordinates : -56.2 μm (x), 17.7 μm (y), 22.0 μm (z)

Corresponding bead : Not found

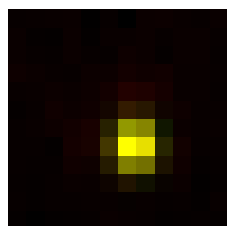
FWHM	Non corrected	Corrected	Theoretical
min	400 nm	417 nm	270 nm
max	471 nm	490 nm	270 nm
z	2.16 μm	2.17 μm	1.3 μm
Asymmetry	0.85		
Theta	-89.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 690.920$ (brightness)

$B = 122.673$ (background)

$a = 0.838$ px

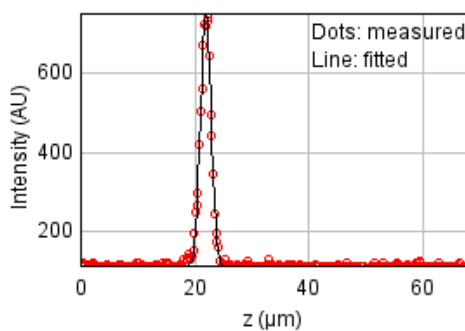
$b = -0.003$ px

$c = 0.605$ px

$x_c = 6.419$ px

$y_c = 6.927$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 23385.4522

Standard deviation: 8.72778

$R^2: 0.99185$

Parameters:

$a = 113.70085$

$b = 749.44698$

$c = 22.03079$

$d = 0.91863$

Bead 1094

Date : Mon Oct 17 13:51:56 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

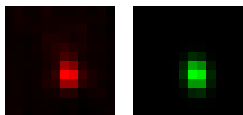
Coordinates : 20.8 μm (x), 16.6 μm (y), 21.8 μm (z)

Corresponding bead : Not found

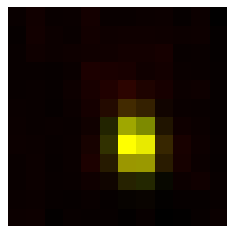
FWHM	Non corrected	Corrected	Theoretical
min	391 nm	407 nm	270 nm
max	534 nm	556 nm	270 nm
z	2.16 μm	2.17 μm	1.3 μm
Asymmetry	0.733		
Theta	-82.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 614.378$ (brightness)

$B = 122.422$ (background)

$a = 0.871$ px

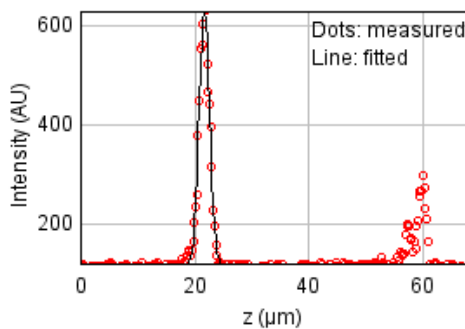
$b = -0.051$ px

$c = 0.478$ px

$x_c = 6.449$ px

$y_c = 6.994$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 229465.934

Standard deviation: 27.33946

$R^2 = 0.88751$

Parameters:

$a = 121.00528$

$b = 628.55055$

$c = 21.75834$

$d = 0.91622$

Bead 1095

Date : Mon Oct 17 13:51:56 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

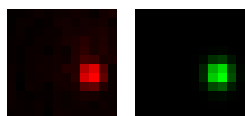
Coordinates : -93.6 μm (x), 16.3 μm (y), 15.7 μm (z)

Corresponding bead : Not found

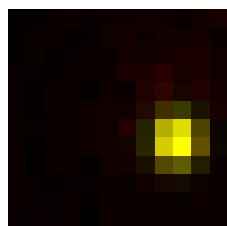
FWHM	Non corrected	Corrected	Theoretical
min	435 nm	453 nm	270 nm
max	476 nm	496 nm	270 nm
z	2.15 μm	2.16 μm	1.3 μm
Asymmetry	0.914		
Theta	-88.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 492.643 (brightness)

B = 121.190 (background)

a = 0.710 px

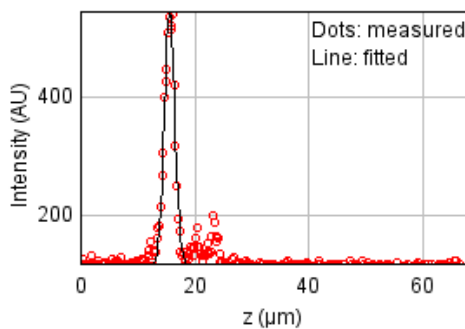
b = -0.004 px

c = 0.593 px

xc = 8.664 px

yc = 6.627 px

Z profile & fitting parameters:



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

Sum of residuals squared: 69067.8698

Standard deviation: 14.99923

R^2 : 0.94866

Parameters:

a = 116.80482

b = 543.21818

c = 15.66789

d = 0.91492

Bead 1096

Date : Mon Oct 17 13:51:56 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

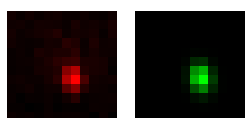
Coordinates : 149 um (x), 6.53 um (y), 21.3 um (z)

Corresponding bead : Not found

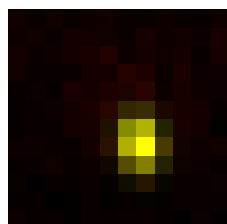
FWHM	Non corrected	Corrected	Theoretical
min	376 nm	392 nm	270 nm
max	509 nm	531 nm	270 nm
z	2.35 um	2.36 um	1.3 um
Asymmetry	0.739		
Theta	-81.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 344.176 (brightness)

B = 117.966 (background)

a = 0.938 px

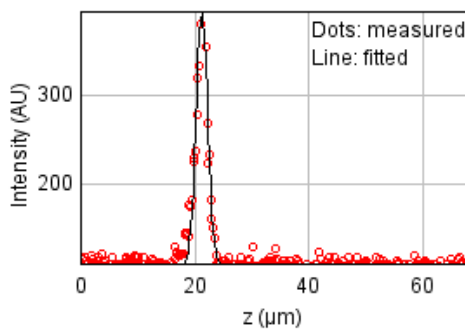
b = -0.067 px

c = 0.528 px

xc = 6.690 px

yc = 6.801 px

Z profile & fitting parameters:



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

Sum of residuals squared: 26103.1629

Standard deviation: 9.22099

R^2 : 0.95901

Parameters:

a = 111.07563

b = 393.93750

c = 21.33282

d = 0.99964

Bead 1097 (Rejected)

Date : Mon Oct 17 13:51:56 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

Coordinates : -4.32 μm (x), -1.55 μm (y), 18.6 μm (z)

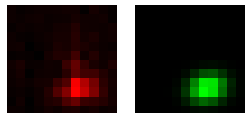
Corresponding bead : Not found

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

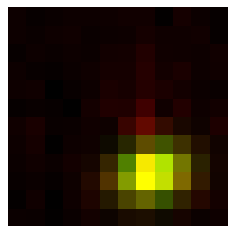
FWHM	Non corrected	Corrected	Theoretical
min	508 nm	529 nm	270 nm
max	670 nm	698 nm	270 nm
z	2.87 μm	2.88 μm	1.3 μm
Asymmetry	0.758		
Theta	13.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 325.453 (brightness)

B = 122.736 (background)

a = 0.312 px

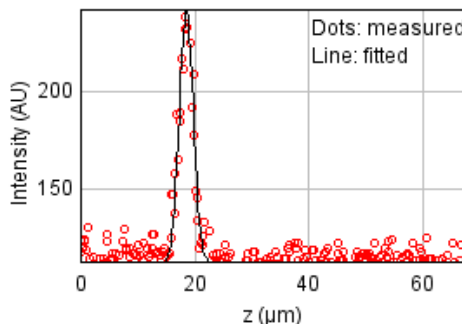
b = 0.052 px

c = 0.508 px

xc = 7.364 px

yc = 8.552 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16498.1859

Standard deviation: 7.33076

R^2 : 0.90223

Parameters:

a = 113.03758

b = 241.70599

c = 18.61036

d = 1.21924

Bead 1098

Date : Mon Oct 17 13:51:56 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

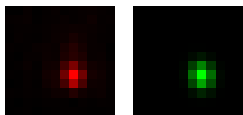
Coordinates : -33.0 μm (x), -19.3 μm (y), 22.3 μm (z)

Corresponding bead : Not found

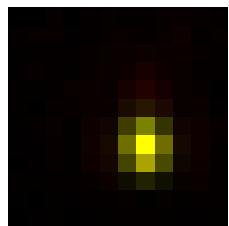
FWHM	Non corrected	Corrected	Theoretical
min	397 nm	413 nm	270 nm
max	491 nm	511 nm	270 nm
z	1.9 μm	1.91 μm	1.3 μm
Asymmetry	0.809		
Theta	-84.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1039.944$ (brightness)

$B = 130.137$ (background)

$a = 0.849$ px

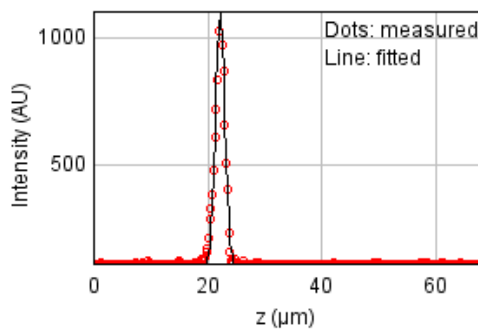
$b = -0.029$ px

$c = 0.560$ px

$x_c = 6.996$ px

$y_c = 7.105$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 70992.4661

Standard deviation: 15.20677

$R^2: 0.98849$

Parameters:

$a = 114.69717$

$b = 1104.76950$

$c = 22.26163$

$d = 0.80618$

Bead 1099

Date : Mon Oct 17 13:51:56 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

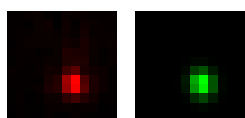
Coordinates : -40.3 μm (x), -25.7 μm (y), 22.4 μm (z)

Corresponding bead : Not found

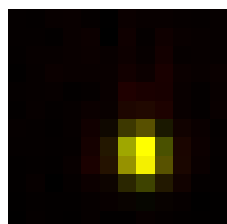
FWHM	Non corrected	Corrected	Theoretical
min	411 nm	428 nm	270 nm
max	472 nm	491 nm	270 nm
z	2.01 μm	2.02 μm	1.3 μm
Asymmetry	0.871		
Theta	-78.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 943.707$ (brightness)

$B = 130.421$ (background)

$a = 0.787$ px

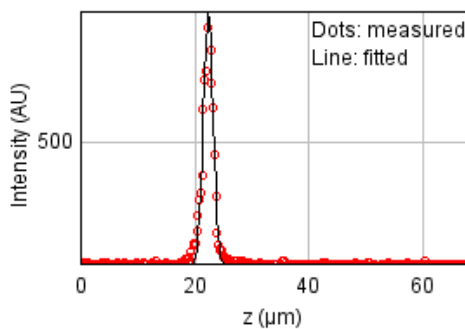
$b = -0.036$ px

$c = 0.610$ px

$x_c = 6.791$ px

$y_c = 7.436$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 60972.9674

Standard deviation: 14.09287

$R^2: 0.98538$

Parameters:

$a = 115.36961$

$b = 906.52118$

$c = 22.44425$

$d = 0.85301$

Bead 1100

Date : Mon Oct 17 13:51:56 PDT 2022

Origin : data_traditional.tif (Nikon 40x0.95 air)

Frame size : 12 pixels

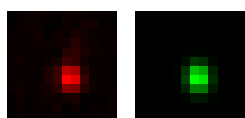
Coordinates : -61.9 μm (x), -53.5 μm (y), 21.3 μm (z)

Corresponding bead : Not found

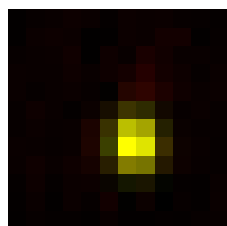
FWHM	Non corrected	Corrected	Theoretical
min	422 nm	440 nm	270 nm
max	517 nm	539 nm	270 nm
z	2.98 μm	2.99 μm	1.3 μm
Asymmetry	0.816		
Theta	-85.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 491.382$ (brightness)

$B = 120.950$ (background)

$a = 0.752$ px

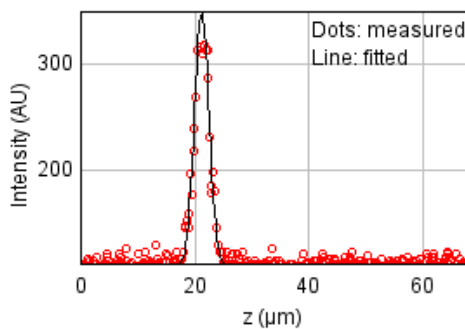
$b = -0.020$ px

$c = 0.503$ px

$x_c = 6.420$ px

$y_c = 6.803$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 20561.1930

Standard deviation: 8.18380

$R^2: 0.96279$

Parameters:

$a = 112.19938$

$b = 348.69489$

$c = 21.30569$

$d = 1.26424$