

Bead 2001

Date : Mon Oct 17 13:52:54 PDT 2022

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

Frame size : 12 pixels

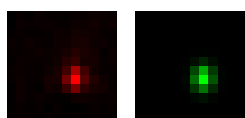
Coordinates : -9.91 μm (x), -73.6 μm (y), 38.3 μm (z)

Corresponding bead : Not found

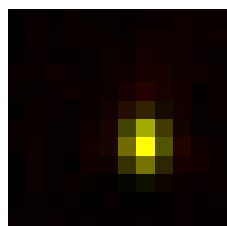
FWHM	Non corrected	Corrected	Theoretical
min	368 nm	383 nm	270 nm
max	472 nm	492 nm	270 nm
z	1.99 μm	2.0 μm	1.3 μm
Asymmetry	0.779		
Theta	87.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 533.065 (brightness)

B = 122.057 (background)

a = 0.991 px

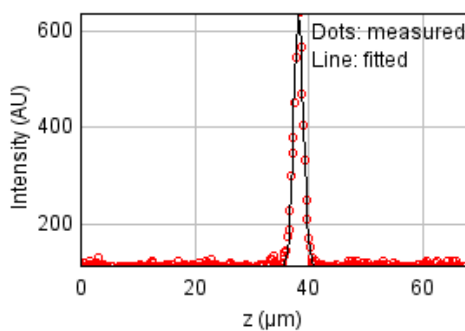
b = 0.016 px

c = 0.602 px

$x_c = 6.940$ px

$y_c = 6.839$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 23518.9570

Standard deviation: 8.75266

$R^2 = 0.98692$

Parameters:

a = 113.15257

b = 635.36379

c = 38.27267

d = 0.84522

Bead 2002

Date : Mon Oct 17 13:52:54 PDT 2022

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

Frame size : 12 pixels

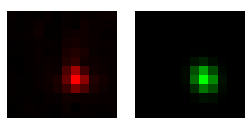
Coordinates : -16.5 μm (x), -76.6 μm (y), 39.1 μm (z)

Corresponding bead : Not found

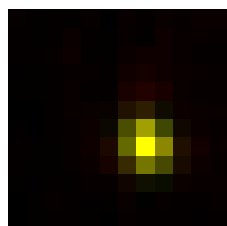
FWHM	Non corrected	Corrected	Theoretical
min	408 nm	425 nm	270 nm
max	481 nm	501 nm	270 nm
z	1.9 μm	1.91 μm	1.3 μm
Asymmetry	0.849		
Theta	-66.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 785.866$ (brightness)

$B = 124.938$ (background)

$a = 0.767$ px

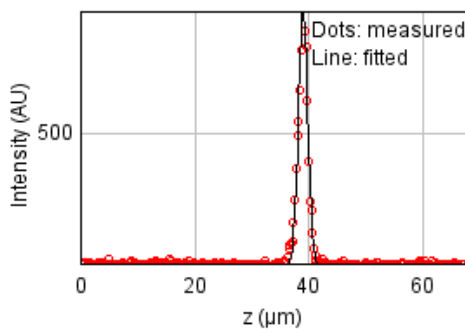
$b = -0.083$ px

$c = 0.617$ px

$x_c = 7.069$ px

$y_c = 6.882$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 48902.0532

Standard deviation: 12.62102

$R^2 = 0.98628$

Parameters:

$a = 113.60254$

$b = 864.90545$

$c = 39.05215$

$d = 0.80704$

Bead 2003

Date : Mon Oct 17 13:52:54 PDT 2022

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

Frame size : 12 pixels

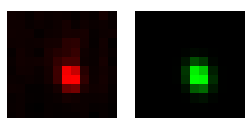
Coordinates : -65.5 μm (x), 95.0 μm (y), 38.5 μm (z)

Corresponding bead : Not found

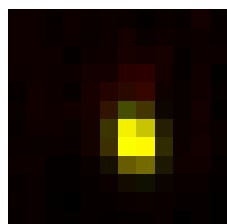
FWHM	Non corrected	Corrected	Theoretical
min	392 nm	408 nm	270 nm
max	510 nm	531 nm	270 nm
z	2.19 μm	2.2 μm	1.3 μm
Asymmetry	0.768		
Theta	-75.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 625.248 (brightness)

B = 121.642 (background)

a = 0.852 px

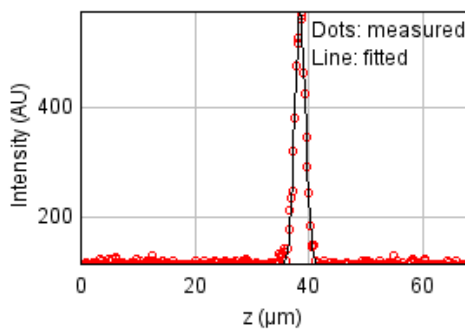
b = -0.086 px

c = 0.538 px

xc = 6.448 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: 17274.4084

Standard deviation: 7.50123

R^2 : 0.98881

Parameters:

a = 113.51569

b = 575.95676

c = 38.54322

d = 0.93172

Bead 2004

Date : Mon Oct 17 13:52:55 PDT 2022

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

Frame size : 12 pixels

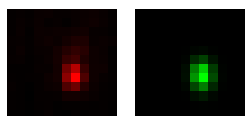
Coordinates : -12.4 μm (x), 75.6 μm (y), 39.2 μm (z)

Corresponding bead : Not found

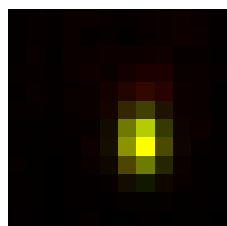
FWHM	Non corrected	Corrected	Theoretical
min	388 nm	404 nm	270 nm
max	534 nm	556 nm	270 nm
z	1.94 μm	1.95 μm	1.3 μm
Asymmetry	0.726		
Theta	-88.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 884.436 (brightness)

B = 128.971 (background)

a = 0.893 px

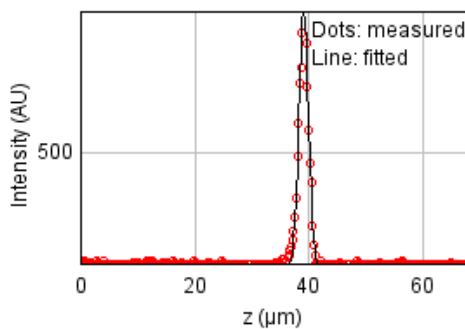
b = -0.010 px

c = 0.471 px

xc = 6.803 px

yc = 6.728 px

Z profile & fitting parameters:



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

Sum of residuals squared: 38929.4778

Standard deviation: 11.26082

R^2 : 0.99204

Parameters:

a = 114.84047

b = 988.60199

c = 39.16810

d = 0.82378

Bead 2005

Date : Mon Oct 17 13:52:55 PDT 2022

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

Frame size : 12 pixels

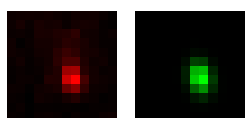
Coordinates : 122 um (x), 69.2 um (y), 38.2 um (z)

Corresponding bead : Not found

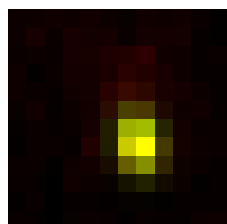
FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	560 nm	583 nm	270 nm
z	1.83 um	1.83 um	1.3 um
Asymmetry	0.694		
Theta	-79.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 378.368 (brightness)

B = 119.938 (background)

a = 0.871 px

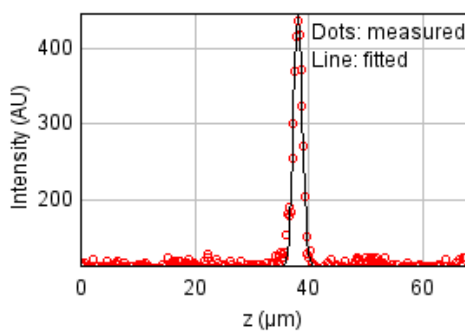
b = -0.084 px

c = 0.444 px

xc = 6.611 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: 20167.1867

Standard deviation: 8.10501

R^2 : 0.97114

Parameters:

a = 112.44165

b = 448.82979

c = 38.16817

d = 0.77594

Bead 2006

Date : Mon Oct 17 13:52:55 PDT 2022

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

Frame size : 12 pixels

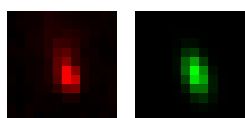
Coordinates : 156 um (x), 55.0 um (y), 39.3 um (z)

Corresponding bead : Not found

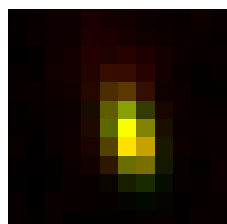
FWHM	Non corrected	Corrected	Theoretical
min	401 nm	417 nm	270 nm
max	746 nm	777 nm	270 nm
z	2.01 um	2.02 um	1.3 um
Asymmetry	0.537		
Theta	-72.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 506.333 (brightness)

B = 120.598 (background)

a = 0.782 px

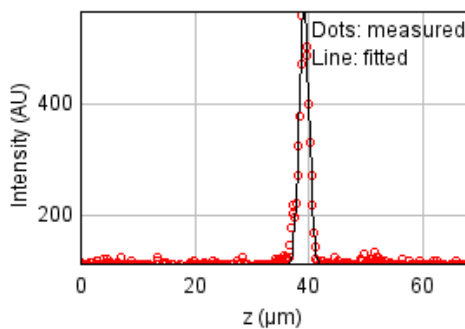
b = -0.171 px

c = 0.295 px

xc = 6.154 px

yc = 6.372 px

Z profile & fitting parameters:



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

Sum of residuals squared: 31431.2399

Standard deviation: 10.11839

R^2 : 0.97767

Parameters:

a = 111.97645

b = 569.91572

c = 39.25022

d = 0.85235

Bead 2007

Date : Mon Oct 17 13:52:55 PDT 2022

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

Frame size : 12 pixels

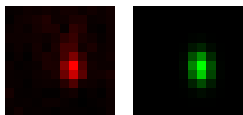
Coordinates : 141 um (x), 26.7 um (y), 38.5 um (z)

Corresponding bead : Not found

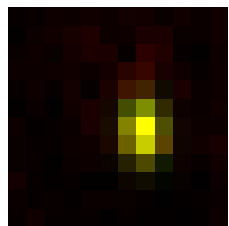
FWHM	Non corrected	Corrected	Theoretical
min	381 nm	397 nm	270 nm
max	578 nm	602 nm	270 nm
z	2.11 um	2.12 um	1.3 um
Asymmetry	0.659		
Theta	-86.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 293.287 (brightness)

B = 116.207 (background)

a = 0.922 px

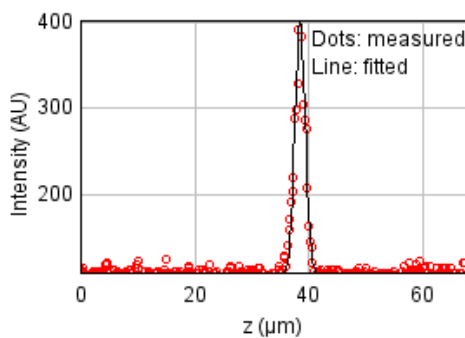
b = -0.036 px

c = 0.404 px

xc = 6.871 px

yc = 6.212 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19505.2455

Standard deviation: 7.97088

R^2 : 0.96777

Parameters:

a = 110.01132

b = 401.58781

c = 38.53849

d = 0.89716

Bead 2008

Date : Mon Oct 17 13:52:55 PDT 2022

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

Frame size : 12 pixels

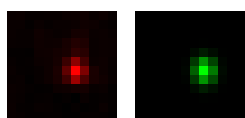
Coordinates : -33.2 μm (x), 23.2 μm (y), 38.9 μm (z)

Corresponding bead : Not found

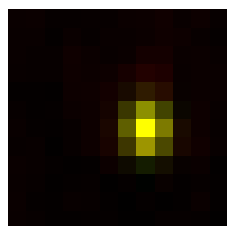
FWHM	Non corrected	Corrected	Theoretical
min	394 nm	410 nm	270 nm
max	491 nm	512 nm	270 nm
z	2.01 μm	2.02 μm	1.3 μm
Asymmetry	0.802		
Theta	-88.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 599.968 (brightness)

B = 122.541 (background)

a = 0.865 px

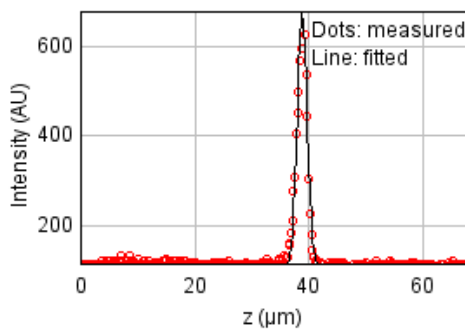
b = -0.008 px

c = 0.557 px

xc = 7.070 px

yc = 6.014 px

Z profile & fitting parameters:



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

Sum of residuals squared: 39375.0042

Standard deviation: 11.32508

R^2 : 0.98152

Parameters:

a = 114.14673

b = 678.41186

c = 38.90019

d = 0.85359

Bead 2009

Date : Mon Oct 17 13:52:55 PDT 2022

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

Frame size : 12 pixels

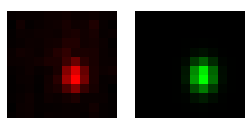
Coordinates : 37.2 μm (x), 20.0 μm (y), 38.7 μm (z)

Corresponding bead : Not found

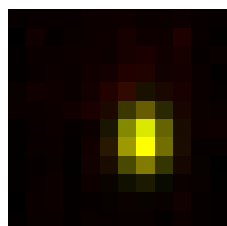
FWHM	Non corrected	Corrected	Theoretical
min	444 nm	462 nm	270 nm
max	569 nm	593 nm	270 nm
z	1.95 μm	1.96 μm	1.3 μm
Asymmetry	0.78		
Theta	89.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 536.803 (brightness)

B = 120.373 (background)

a = 0.681 px

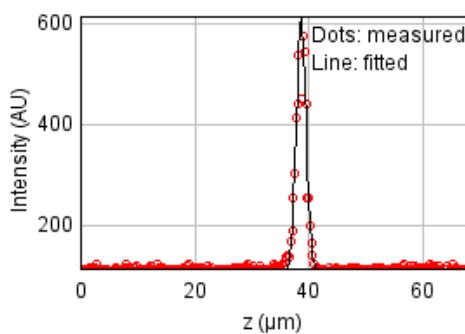
b = 0.002 px

c = 0.415 px

xc = 6.880 px

yc = 6.617 px

Z profile & fitting parameters:



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

Sum of residuals squared: 48211.3202

Standard deviation: 12.53157

R^2 : 0.97065

Parameters:

a = 113.34829

b = 612.81698

c = 38.72571

d = 0.82936

Bead 2010

Date : Mon Oct 17 13:52:56 PDT 2022

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

Frame size : 12 pixels

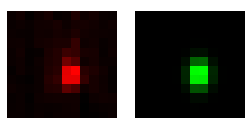
Coordinates : -2.31 μm (x), 3.32 μm (y), 38.7 μm (z)

Corresponding bead : Not found

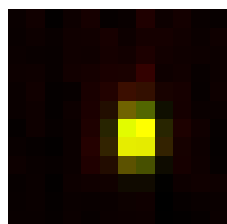
FWHM	Non corrected	Corrected	Theoretical
min	374 nm	389 nm	270 nm
max	520 nm	541 nm	270 nm
z	2.08 μm	2.09 μm	1.3 μm
Asymmetry	0.72		
Theta	88.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 556.052 (brightness)

B = 121.718 (background)

a = 0.960 px

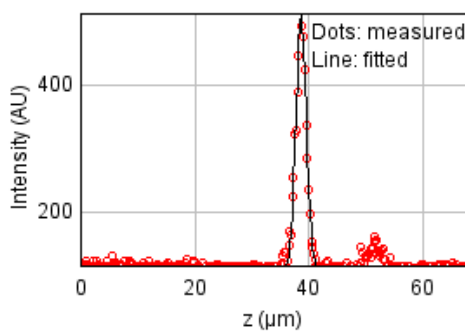
b = 0.010 px

c = 0.497 px

xc = 6.502 px

yc = 6.427 px

Z profile & fitting parameters:



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

Sum of residuals squared: 31238.8666

Standard deviation: 10.08738

R^2 : 0.97146

Parameters:

a = 116.60979

b = 512.10843

c = 38.71147

d = 0.88482

Bead 2011 (Rejected)

Date : Mon Oct 17 13:52:56 PDT 2022

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

Frame size : 12 pixels

Coordinates : 135 μm (x), 146 nm (y), 5.16 μm (z)

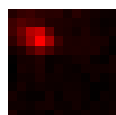
Corresponding bead : Not found

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	3.03 μm	3.04 μm	1.3 μm
Asymmetry	0.0		
Theta	0.0°		

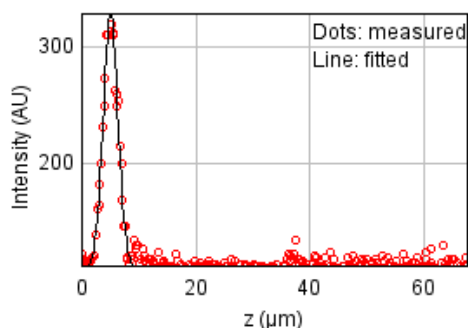
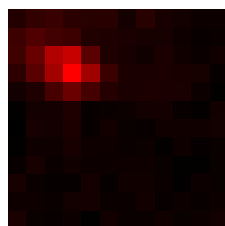
XY profile & fitting parameters :

(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: 16459.9047

Standard deviation: 7.32225

R²: 0.96505

Parameters:

a = 111.61723

b = 328.50000

c = 5.15794

d = 1.28564

Bead 2012 (Rejected)

Date : Mon Oct 17 13:52:56 PDT 2022

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

Frame size : 12 pixels

Coordinates : 137 μm (x), -41.3 μm (y), 35.5 μm (z)

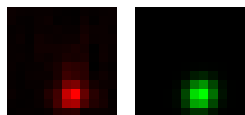
Corresponding bead : Not found

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

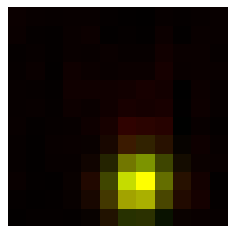
FWHM	Non corrected	Corrected	Theoretical
min	508 nm	529 nm	270 nm
max	555 nm	578 nm	270 nm
z	3.24 μm	3.26 μm	1.3 μm
Asymmetry	0.915		
Theta	58.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 469.666 (brightness)

B = 122.005 (background)

a = 0.497 px

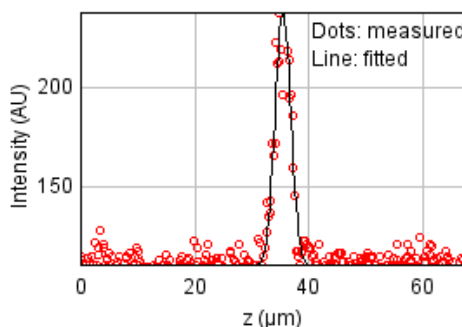
b = 0.037 px

c = 0.458 px

xc = 6.642 px

yc = 9.123 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15434.2363

Standard deviation: 7.09044

R^2 : 0.91670

Parameters:

a = 110.16545

b = 238.62153

c = 35.52637

d = 1.37677

Bead 2013

Date : Mon Oct 17 13:52:56 PDT 2022

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

Frame size : 12 pixels

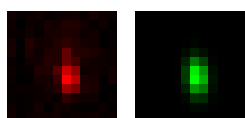
Coordinates : 152 μm (x), -44.9 μm (y), 38.3 μm (z)

Corresponding bead : Not found

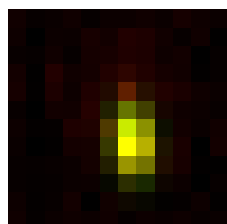
FWHM	Non corrected	Corrected	Theoretical
min	378 nm	394 nm	270 nm
max	665 nm	693 nm	270 nm
z	2.31 μm	2.32 μm	1.3 μm
Asymmetry	0.569		
Theta	-85.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 240.356 (brightness)

B = 111.737 (background)

a = 0.932 px

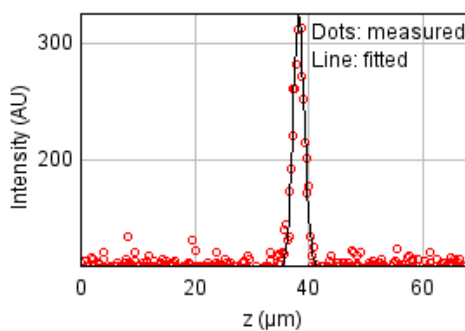
b = -0.055 px

c = 0.308 px

xc = 6.286 px

yc = 6.686 px

Z profile & fitting parameters:



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

Sum of residuals squared: 13766.9842

Standard deviation: 6.69654

R^2 : 0.96200

Parameters:

a = 109.67992

b = 325.22223

c = 38.31196

d = 0.98157

Bead 2014

Date : Mon Oct 17 13:52:56 PDT 2022

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

Frame size : 12 pixels

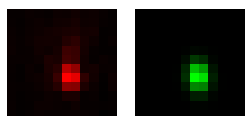
Coordinates : 72.5 μm (x), -51.6 μm (y), 38.9 μm (z)

Corresponding bead : Not found

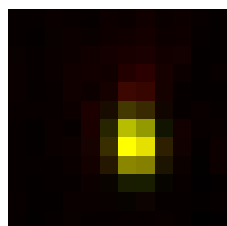
FWHM	Non corrected	Corrected	Theoretical
min	380 nm	396 nm	270 nm
max	537 nm	559 nm	270 nm
z	2.17 μm	2.18 μm	1.3 μm
Asymmetry	0.708		
Theta	-84.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 732.546$ (brightness)

$B = 126.497$ (background)

$a = 0.925$ px

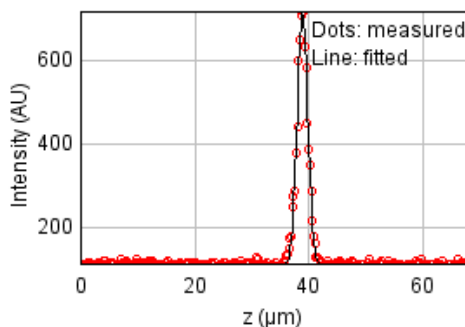
$b = -0.042$ px

$c = 0.470$ px

$x_c = 6.423$ px

$y_c = 6.850$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 25138.3554

Standard deviation: 9.04897

$R^2 = 0.99036$

Parameters:

$a = 113.23958$

$b = 718.05172$

$c = 38.94921$

$d = 0.92064$

Bead 2015

Date : Mon Oct 17 13:52:56 PDT 2022

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

Frame size : 12 pixels

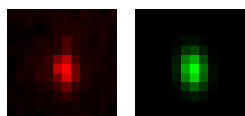
Coordinates : 124 μm (x), -77.1 μm (y), 39.0 μm (z)

Corresponding bead : Not found

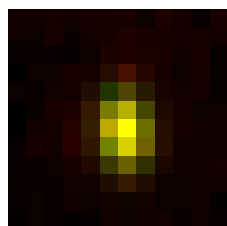
FWHM	Non corrected	Corrected	Theoretical
min	461 nm	480 nm	270 nm
max	685 nm	713 nm	270 nm
z	1.79 μm	1.79 μm	1.3 μm
Asymmetry	0.673		
Theta	-84.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 313.846 (brightness)

B = 116.400 (background)

a = 0.629 px

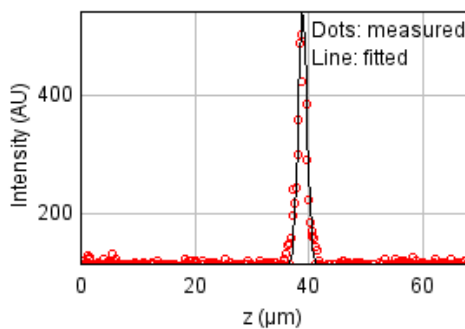
b = -0.035 px

c = 0.290 px

xc = 5.837 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: 80341.4265

Standard deviation: 16.17710

R^2 : 0.93156

Parameters:

a = 112.55949

b = 544.13068

c = 38.97933

d = 0.75890

Bead 2016

Date : Mon Oct 17 13:52:56 PDT 2022

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

Frame size : 12 pixels

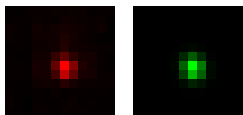
Coordinates : -104 μm (x), -82.7 μm (y), 39.0 μm (z)

Corresponding bead : Not found

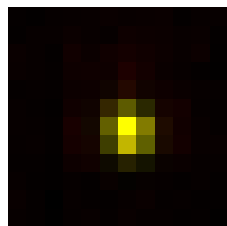
FWHM	Non corrected	Corrected	Theoretical
min	392 nm	409 nm	270 nm
max	447 nm	465 nm	270 nm
z	2.02 μm	2.03 μm	1.3 μm
Asymmetry	0.878		
Theta	-74.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 771.729$ (brightness)

$B = 125.319$ (background)

$a = 0.858$ px

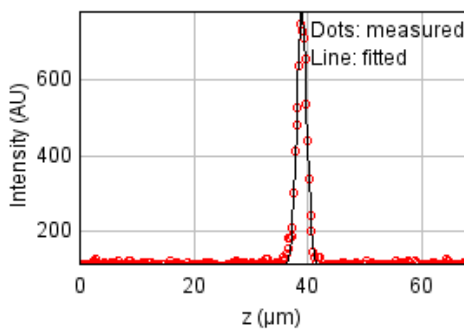
$b = -0.050$ px

$c = 0.686$ px

$x_c = 6.088$ px

$y_c = 6.257$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 30470.4707

Standard deviation: 9.96255

$R^2: 0.98975$

Parameters:

$a = 113.28291$

$b = 780.63018$

$c = 39.00456$

$d = 0.85879$

Bead 2017 (Rejected)

Date : Mon Oct 17 13:52:57 PDT 2022

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

Frame size : 12 pixels

Coordinates : 110 um (x), 77.5 um (y), 37.8 um (z)

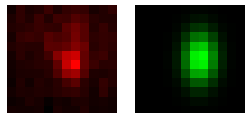
Corresponding bead : Not found

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

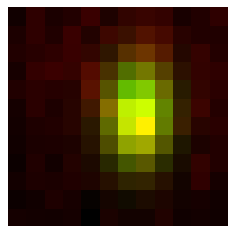
FWHM	Non corrected	Corrected	Theoretical
min	611 nm	636 nm	270 nm
max	958 nm	997 nm	270 nm
z	2.06 um	2.07 um	1.3 um
Asymmetry	0.638		
Theta	88.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 149.990 (brightness)

B = 119.076 (background)

a = 0.360 px

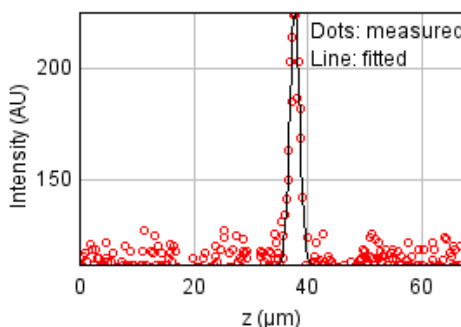
b = 0.006 px

c = 0.146 px

xc = 6.580 px

yc = 5.313 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15621.3934

Standard deviation: 7.13330

R^2 : 0.84456

Parameters:

a = 112.38323

b = 224.61192

c = 37.78280

d = 0.87664

Bead 2018

Date : Mon Oct 17 13:52:57 PDT 2022

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

Frame size : 12 pixels

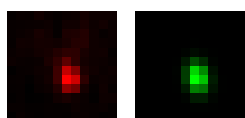
Coordinates : 27.6 μm (x), 77.4 μm (y), 38.9 μm (z)

Corresponding bead : Not found

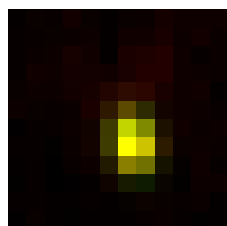
FWHM	Non corrected	Corrected	Theoretical
min	391 nm	408 nm	270 nm
max	561 nm	585 nm	270 nm
z	2.12 μm	2.13 μm	1.3 μm
Asymmetry	0.697		
Theta	-79.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 491.082 (brightness)

B = 123.813 (background)

a = 0.861 px

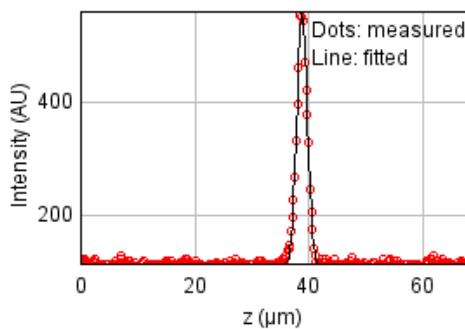
b = -0.081 px

c = 0.441 px

xc = 6.320 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: 14070.6193

Standard deviation: 6.76998

R^2 : 0.99002

Parameters:

a = 112.40908

b = 561.39063

c = 38.87915

d = 0.90234

Bead 2019

Date : Mon Oct 17 13:52:57 PDT 2022

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

Frame size : 12 pixels

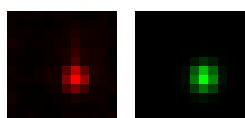
Coordinates : -118 μm (x), 70.1 μm (y), 39.1 μm (z)

Corresponding bead : Not found

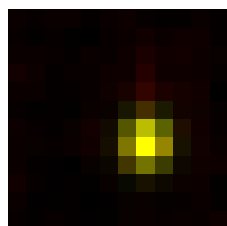
FWHM	Non corrected	Corrected	Theoretical
min	433 nm	451 nm	270 nm
max	493 nm	513 nm	270 nm
z	1.96 μm	1.97 μm	1.3 μm
Asymmetry	0.879		
Theta	87.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 460.108 (brightness)

B = 122.337 (background)

a = 0.714 px

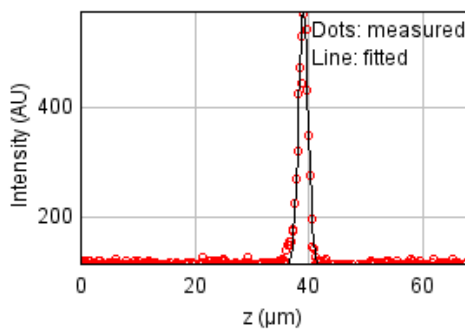
b = 0.007 px

c = 0.552 px

xc = 7.043 px

yc = 6.776 px

Z profile & fitting parameters:



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

Sum of residuals squared: 34187.3513

Standard deviation: 10.55270

R^2 : 0.97568

Parameters:

a = 112.63642

b = 574.74676

c = 39.10333

d = 0.83340

Bead 2020

Date : Mon Oct 17 13:52:57 PDT 2022

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

Frame size : 12 pixels

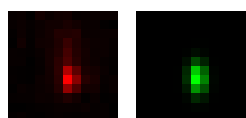
Coordinates : 112 um (x), 53.8 um (y), 38.6 um (z)

Corresponding bead : Not found

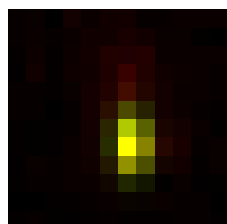
FWHM	Non corrected	Corrected	Theoretical
min	334 nm	348 nm	270 nm
max	582 nm	606 nm	270 nm
z	2.03 um	2.04 um	1.3 um
Asymmetry	0.574		
Theta	-87.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 462.864 (brightness)

B = 120.011 (background)

a = 1.201 px

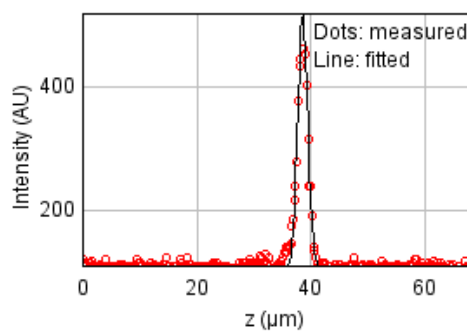
b = -0.029 px

c = 0.398 px

xc = 6.216 px

yc = 6.813 px

Z profile & fitting parameters:



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

Sum of residuals squared: 26665.6729

Standard deviation: 9.31981

R^2 : 0.97634

Parameters:

a = 111.77741

b = 519.24636

c = 38.64436

d = 0.86149

Bead 2021 (Rejected)

Date : Mon Oct 17 13:52:57 PDT 2022

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

Frame size : 12 pixels

Coordinates : -108 μm (x), -8.91 μm (y), 35.9 μm (z)

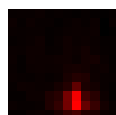
Corresponding bead : Not found

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	3.57 μm	3.58 μm	1.3 μm
Asymmetry	0.0		
Theta	0.0°		

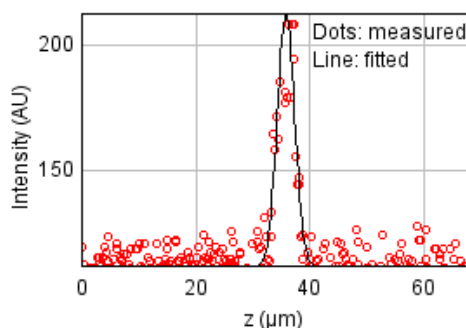
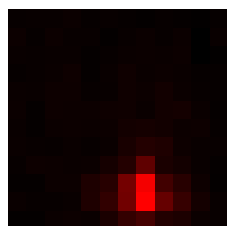
XY profile & fitting parameters :

(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: 19363.0755

Standard deviation: 7.94178

R²: 0.85529

Parameters:

a = 111.90810

b = 212.85218

c = 35.88694

d = 1.51400

Bead 2022 (Rejected)

Date : Mon Oct 17 13:52:57 PDT 2022

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

Frame size : 12 pixels

Coordinates : -86.3 μm (x), -22.1 μm (y), 37.2 μm (z)

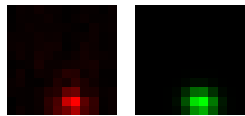
Corresponding bead : Not found

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

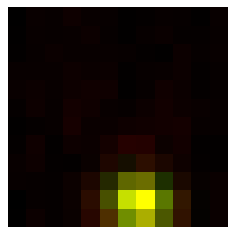
FWHM	Non corrected	Corrected	Theoretical
min	463 nm	482 nm	270 nm
max	551 nm	574 nm	270 nm
z	3.06 μm	3.07 μm	1.3 μm
Asymmetry	0.841		
Theta	-12.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 423.577$ (brightness)

$B = 121.382$ (background)

$a = 0.450$ px

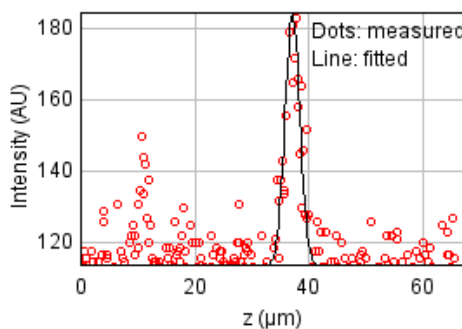
$b = -0.038$ px

$c = 0.617$ px

$xc = 6.659$ px

$yc = 10.169$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 19046.1499

Standard deviation: 7.87652

$R^2: 0.71891$

Parameters:

$a = 113.65256$

$b = 184.31453$

$c = 37.19639$

$d = 1.29922$

Bead 2023

Date : Mon Oct 17 13:52:57 PDT 2022

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

Frame size : 12 pixels

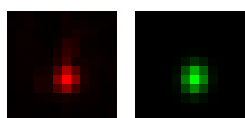
Coordinates : -33.0 μm (x), -34.2 μm (y), 39.0 μm (z)

Corresponding bead : Not found

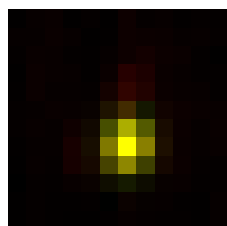
FWHM	Non corrected	Corrected	Theoretical
min	430 nm	448 nm	270 nm
max	515 nm	537 nm	270 nm
z	2.02 μm	2.03 μm	1.3 μm
Asymmetry	0.834		
Theta	84.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 651.223 (brightness)

B = 124.778 (background)

a = 0.724 px

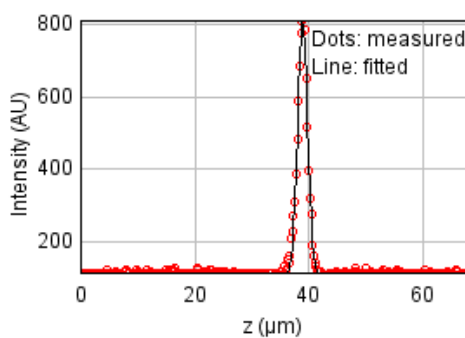
b = 0.021 px

c = 0.507 px

xc = 6.021 px

yc = 6.874 px

Z profile & fitting parameters:



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

Sum of residuals squared: 30026.0523

Standard deviation: 9.88963

R^2 : 0.99066

Parameters:

a = 114.04479

b = 809.04207

c = 38.97370

d = 0.85687

Bead 2024

Date : Mon Oct 17 13:52:58 PDT 2022

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

Frame size : 12 pixels

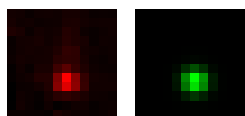
Coordinates : -75.0 μm (x), -40.0 μm (y), 39.1 μm (z)

Corresponding bead : Not found

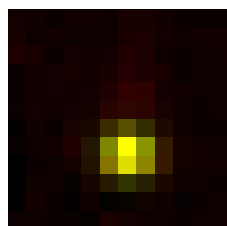
FWHM	Non corrected	Corrected	Theoretical
min	449 nm	468 nm	270 nm
max	480 nm	499 nm	270 nm
z	2.29 μm	2.3 μm	1.3 μm
Asymmetry	0.937		
Theta	-9.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 441.210 (brightness)

B = 121.440 (background)

a = 0.586 px

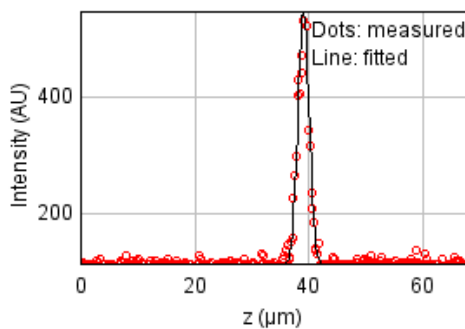
b = -0.013 px

c = 0.662 px

$x_c = 6.046$ px

$y_c = 7.396$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 55776.4747

Standard deviation: 13.47896

R^2 : 0.96138

Parameters:

a = 113.10134

b = 545.00254

c = 39.13817

d = 0.97334

Bead 2025

Date : Mon Oct 17 13:52:58 PDT 2022

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

Frame size : 12 pixels

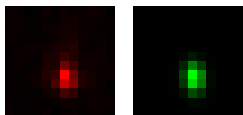
Coordinates : 132 μm (x), -58.9 μm (y), 38.8 μm (z)

Corresponding bead : Not found

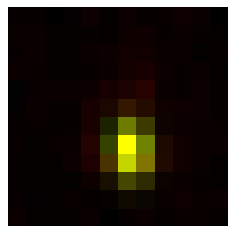
FWHM	Non corrected	Corrected	Theoretical
min	363 nm	379 nm	270 nm
max	542 nm	565 nm	270 nm
z	1.92 μm	1.93 μm	1.3 μm
Asymmetry	0.67		
Theta	-86.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 414.955 (brightness)

B = 115.866 (background)

a = 1.014 px

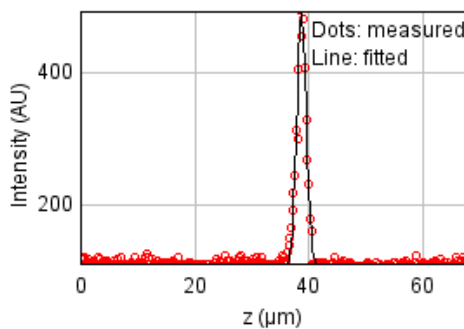
b = -0.034 px

c = 0.458 px

xc = 6.180 px

yc = 7.315 px

Z profile & fitting parameters:



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

Sum of residuals squared: 23320.3376

Standard deviation: 8.71562

R^2 : 0.97512

Parameters:

a = 111.26729

b = 492.71710

c = 38.78738

d = 0.81444

Bead 2026

Date : Mon Oct 17 13:52:58 PDT 2022

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

Frame size : 12 pixels

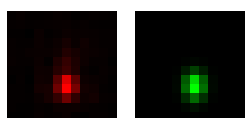
Coordinates : 8.8 μm (x), -59.4 μm (y), 39.3 μm (z)

Corresponding bead : Not found

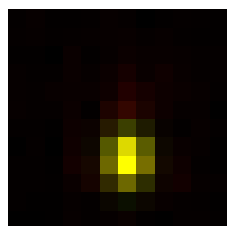
FWHM	Non corrected	Corrected	Theoretical
min	392 nm	408 nm	270 nm
max	503 nm	524 nm	270 nm
z	1.89 μm	1.9 μm	1.3 μm
Asymmetry	0.779		
Theta	-89.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 810.660 (brightness)

B = 126.929 (background)

a = 0.874 px

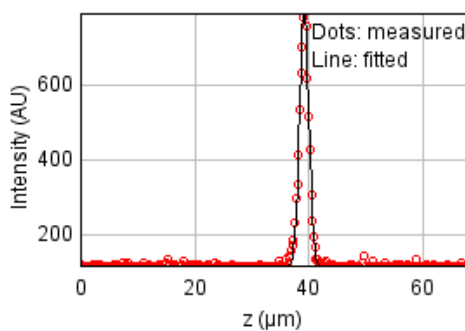
b = -0.004 px

c = 0.530 px

xc = 6.014 px

yc = 7.657 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33804.6050

Standard deviation: 10.49346

R^2 : 0.98838

Parameters:

a = 114.69537

b = 796.26775

c = 39.25889

d = 0.80184

Bead 2027

Date : Mon Oct 17 13:52:58 PDT 2022

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

Frame size : 12 pixels

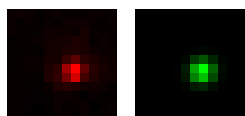
Coordinates : -155 μm (x), -91.5 μm (y), 39.1 μm (z)

Corresponding bead : Not found

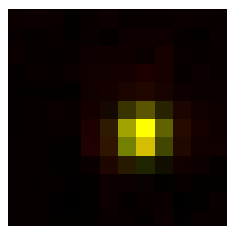
FWHM	Non corrected	Corrected	Theoretical
min	432 nm	450 nm	270 nm
max	447 nm	465 nm	270 nm
z	2.09 μm	2.1 μm	1.3 μm
Asymmetry	0.966		
Theta	44.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 596.329 (brightness)

B = 122.144 (background)

a = 0.696 px

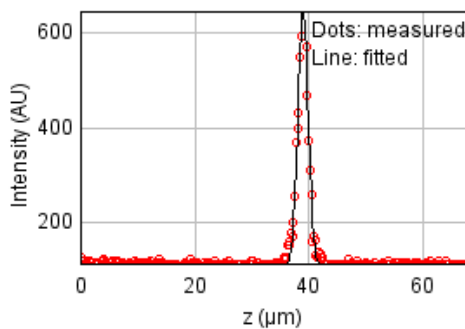
b = 0.024 px

c = 0.696 px

xc = 6.812 px

yc = 6.301 px

Z profile & fitting parameters:



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

Sum of residuals squared: 32420.2472

Standard deviation: 10.27635

R^2 : 0.98379

Parameters:

a = 112.05096

b = 648.72793

c = 39.05313

d = 0.88921

Bead 2028

Date : Mon Oct 17 13:52:58 PDT 2022

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

Frame size : 12 pixels

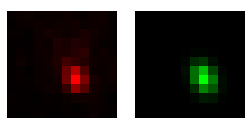
Coordinates : 54.8 μm (x), 90.1 μm (y), 39.2 μm (z)

Corresponding bead : Not found

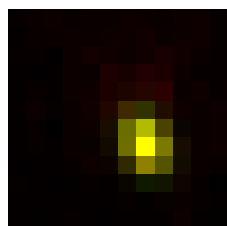
FWHM	Non corrected	Corrected	Theoretical
min	396 nm	412 nm	270 nm
max	558 nm	581 nm	270 nm
z	2.03 μm	2.03 μm	1.3 μm
Asymmetry	0.71		
Theta	-67.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 550.752$ (brightness)

$B = 125.593$ (background)

$a = 0.792$ px

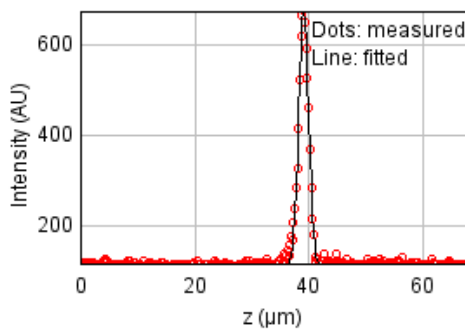
$b = -0.152$ px

$c = 0.495$ px

$x_c = 6.994$ px

$y_c = 6.812$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 21844.7171

Standard deviation: 8.43537

$R^2: 0.98957$

Parameters:

$a = 114.06547$

$b = 673.60717$

$c = 39.16244$

$d = 0.86048$

Bead 2029

Date : Mon Oct 17 13:52:58 PDT 2022

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

Frame size : 12 pixels

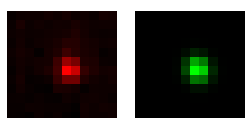
Coordinates : -147 μm (x), 89.9 μm (y), 39.1 μm (z)

Corresponding bead : Not found

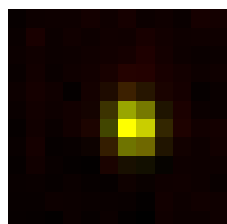
FWHM	Non corrected	Corrected	Theoretical
min	419 nm	436 nm	270 nm
max	474 nm	494 nm	270 nm
z	1.92 μm	1.93 μm	1.3 μm
Asymmetry	0.883		
Theta	-72.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 347.285$ (brightness)

$B = 119.062$ (background)

$a = 0.749$ px

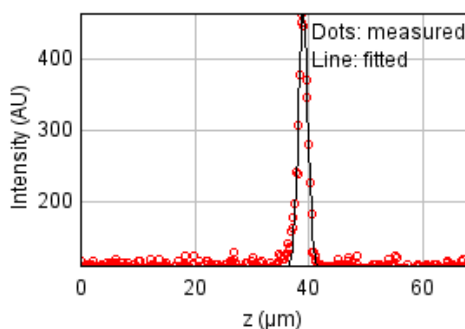
$b = -0.050$ px

$c = 0.612$ px

$xc = 6.352$ px

$yc = 5.882$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 24958.8133

Standard deviation: 9.01660

$R^2: 0.96908$

Parameters:

$a = 111.47178$

$b = 464.28041$

$c = 39.06383$

$d = 0.81464$

Bead 2030 (Rejected)

Date : Mon Oct 17 13:52:58 PDT 2022

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

Frame size : 12 pixels

Coordinates : -131 μm (x), 81.2 μm (y), 35.2 μm (z)

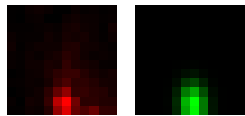
Corresponding bead : Not found

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

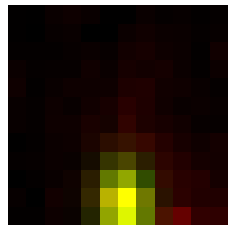
FWHM	Non corrected	Corrected	Theoretical
min	490 nm	511 nm	270 nm
max	762 nm	793 nm	270 nm
z	4.95 μm	4.97 μm	1.3 μm
Asymmetry	0.644		
Theta	-86.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.877$



Parameters:

A = 461.439 (brightness)

B = 141.672 (background)

a = 0.557 px

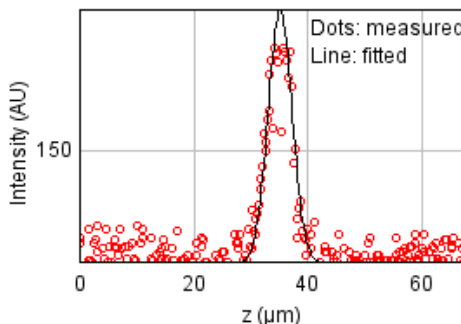
b = -0.019 px

c = 0.232 px

xc = 5.836 px

yc = 10.402 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17784.9038

Standard deviation: 7.61126

R^2 : 0.86089

Parameters:

a = 112.25425

b = 197.67232

c = 35.20701

d = 2.10401

Bead 2031 (Rejected)

Date : Mon Oct 17 13:52:58 PDT 2022

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

Frame size : 12 pixels

Coordinates : 99.3 μm (x), 60.4 μm (y), 39.6 μm (z)

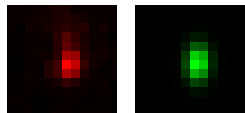
Corresponding bead : Not found

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

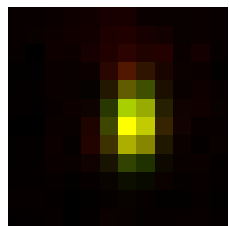
FWHM	Non corrected	Corrected	Theoretical
min	419 nm	437 nm	270 nm
max	671 nm	699 nm	270 nm
z	3.64 μm	3.66 μm	1.3 μm
Asymmetry	0.625		
Theta	87.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 542.879 (brightness)

B = 123.444 (background)

a = 0.762 px

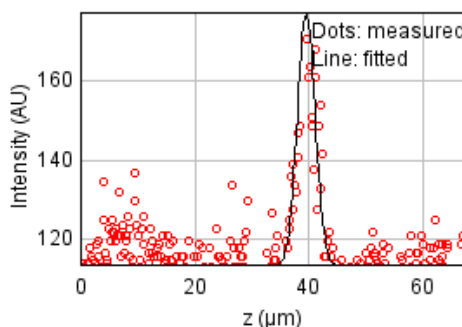
b = 0.017 px

c = 0.299 px

xc = 6.355 px

yc = 5.836 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17226.9557

Standard deviation: 7.49092

R^2 : 0.72943

Parameters:

a = 113.52419

b = 177.18745

c = 39.61122

d = 1.54757

Bead 2032

Date : Mon Oct 17 13:52:58 PDT 2022

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

Frame size : 12 pixels

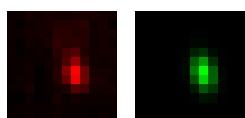
Coordinates : 127 μm (x), 57.9 μm (y), 39.2 μm (z)

Corresponding bead : Not found

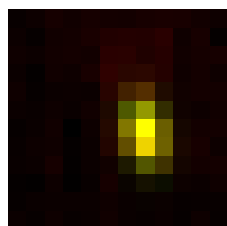
FWHM	Non corrected	Corrected	Theoretical
min	385 nm	401 nm	270 nm
max	639 nm	666 nm	270 nm
z	1.98 μm	1.98 μm	1.3 μm
Asymmetry	0.603		
Theta	-78.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 388.364 (brightness)

B = 118.955 (background)

a = 0.881 px

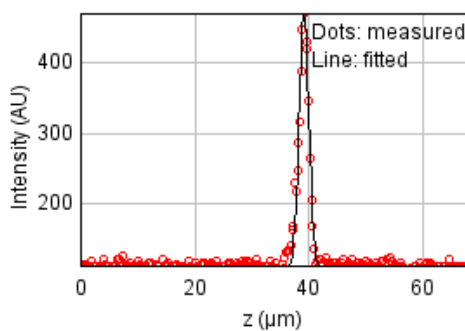
b = -0.112 px

c = 0.351 px

xc = 6.961 px

yc = 6.218 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22926.4553

Standard deviation: 8.64170

R^2 : 0.97308

Parameters:

a = 111.98437

b = 470.04583

c = 39.22055

d = 0.83924

Bead 2033

Date : Mon Oct 17 13:52:58 PDT 2022

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

Frame size : 12 pixels

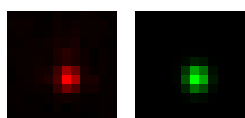
Coordinates : -36.7 μm (x), 2.12 μm (y), 39.6 μm (z)

Corresponding bead : Not found

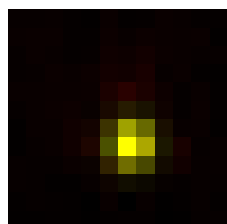
FWHM	Non corrected	Corrected	Theoretical
min	412 nm	429 nm	270 nm
max	453 nm	471 nm	270 nm
z	2.11 μm	2.12 μm	1.3 μm
Asymmetry	0.911		
Theta	-88.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 778.104$ (brightness)

$B = 124.343$ (background)

$a = 0.790$ px

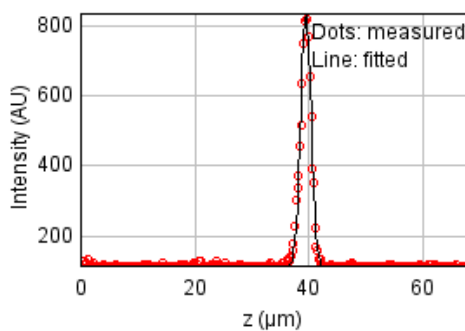
$b = -0.003$ px

$c = 0.655$ px

$x_c = 6.229$ px

$y_c = 6.853$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 37494.9577

Standard deviation: 11.05140

$R^2: 0.98960$

Parameters:

$a = 114.64110$

$b = 834.12309$

$c = 39.55774$

$d = 0.89752$

Bead 2034

Date : Mon Oct 17 13:52:58 PDT 2022

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

Frame size : 12 pixels

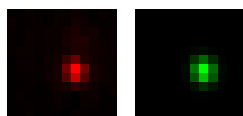
Coordinates : -154 μm (x), -62.9 μm (y), 39.3 μm (z)

Corresponding bead : Not found

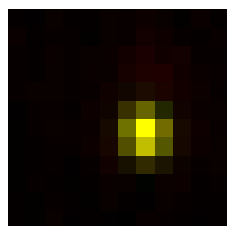
FWHM	Non corrected	Corrected	Theoretical
min	399 nm	415 nm	270 nm
max	469 nm	488 nm	270 nm
z	2.13 μm	2.14 μm	1.3 μm
Asymmetry	0.851		
Theta	-81.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 770.228$ (brightness)

$B = 122.227$ (background)

$a = 0.838$ px

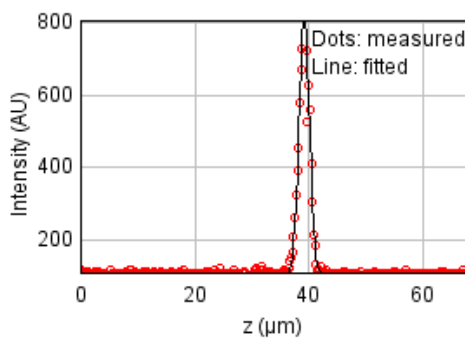
$b = -0.035$ px

$c = 0.616$ px

$x_c = 6.993$ px

$y_c = 6.260$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 69024.9835

Standard deviation: 14.99457

$R^2: 0.98005$

Parameters:

$a = 110.27434$

$b = 809.16729$

$c = 39.26813$

$d = 0.90462$

Bead 2035

Date : Mon Oct 17 13:52:58 PDT 2022

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

Frame size : 12 pixels

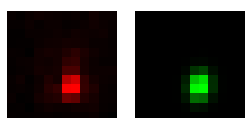
Coordinates : 14.6 μm (x), -74.8 μm (y), 39.3 μm (z)

Corresponding bead : Not found

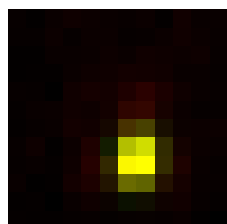
FWHM	Non corrected	Corrected	Theoretical
min	386 nm	402 nm	270 nm
max	501 nm	521 nm	270 nm
z	2.32 μm	2.33 μm	1.3 μm
Asymmetry	0.771		
Theta	81.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 636.292 (brightness)

B = 123.225 (background)

a = 0.892 px

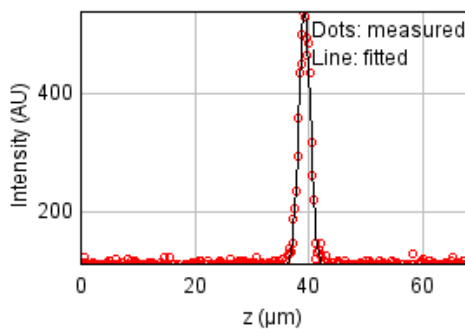
b = 0.055 px

c = 0.544 px

xc = 6.538 px

yc = 7.680 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22728.1674

Standard deviation: 8.60425

R^2 : 0.98356

Parameters:

a = 112.45237

b = 537.35287

c = 39.32751

d = 0.98563

Bead 2036

Date : Mon Oct 17 13:52:58 PDT 2022

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

Frame size : 12 pixels

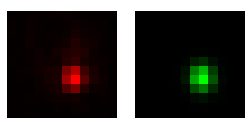
Coordinates : -53.1 μm (x), -87.2 μm (y), 39.5 μm (z)

Corresponding bead : Not found

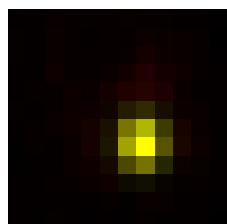
FWHM	Non corrected	Corrected	Theoretical
min	413 nm	431 nm	270 nm
max	484 nm	504 nm	270 nm
z	2.15 μm	2.16 μm	1.3 μm
Asymmetry	0.854		
Theta	-88.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 808.356$ (brightness)

$B = 126.413$ (background)

$a = 0.785$ px

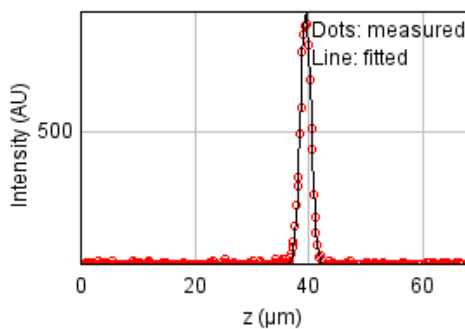
$b = -0.007$ px

$c = 0.573$ px

$x_c = 6.783$ px

$y_c = 6.791$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 24207.8351

Standard deviation: 8.87991

$R^2 = 0.99375$

Parameters:

$a = 113.60245$

$b = 854.80939$

$c = 39.52337$

$d = 0.91289$

Bead 2037

Date : Mon Oct 17 13:52:58 PDT 2022

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

Frame size : 12 pixels

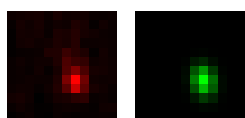
Coordinates : 106 um (x), 89.6 um (y), 39.4 um (z)

Corresponding bead : Not found

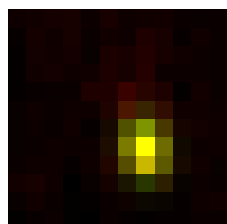
FWHM	Non corrected	Corrected	Theoretical
min	408 nm	424 nm	270 nm
max	564 nm	587 nm	270 nm
z	1.81 um	1.82 um	1.3 um
Asymmetry	0.723		
Theta	-79.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 325.567 (brightness)

B = 118.887 (background)

a = 0.795 px

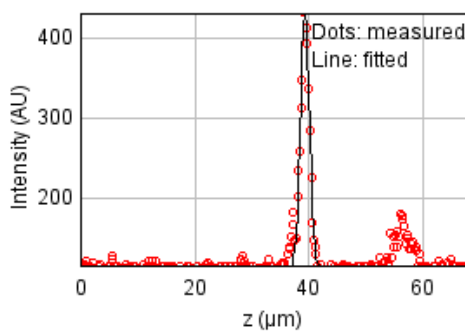
b = -0.069 px

c = 0.435 px

xc = 6.969 px

yc = 7.117 px

Z profile & fitting parameters:



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

Sum of residuals squared: 58017.3753

Standard deviation: 13.74706

R^2 : 0.91034

Parameters:

a = 115.97479

b = 430.61248

c = 39.39491

d = 0.76955

Bead 2038 (Rejected)

Date : Mon Oct 17 13:52:59 PDT 2022

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

Frame size : 12 pixels

Coordinates : 110 μm (x), 77.5 μm (y), 37.8 μm (z)

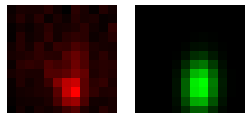
Corresponding bead : Not found

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

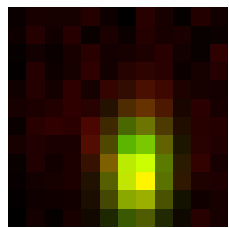
FWHM	Non corrected	Corrected	Theoretical
min	577 nm	600 nm	270 nm
max	962 nm	1.0 μm	270 nm
z	2.06 μm	2.07 μm	1.3 μm
Asymmetry	0.599		
Theta	87.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.838$



Parameters:

A = 147.997 (brightness)

B = 122.536 (background)

a = 0.403 px

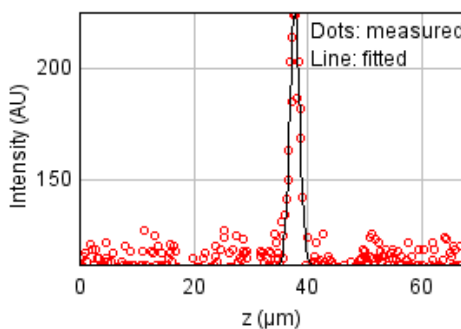
b = 0.010 px

c = 0.145 px

xc = 6.591 px

yc = 8.376 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15621.3934

Standard deviation: 7.13330

R^2 : 0.84456

Parameters:

a = 112.38323

b = 224.61192

c = 37.78280

d = 0.87664

Bead 2039 (Rejected)

Date : Mon Oct 17 13:52:59 PDT 2022

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

Frame size : 12 pixels

Coordinates : -37.2 μm (x), 67.0 μm (y), 36.0 μm (z)

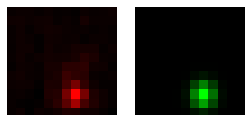
Corresponding bead : Not found

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

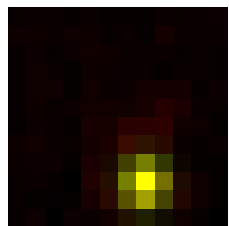
FWHM	Non corrected	Corrected	Theoretical
min	419 nm	437 nm	270 nm
max	480 nm	500 nm	270 nm
z	3.45 μm	3.47 μm	1.3 μm
Asymmetry	0.873		
Theta	87.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 392.774 (brightness)

B = 122.173 (background)

a = 0.764 px

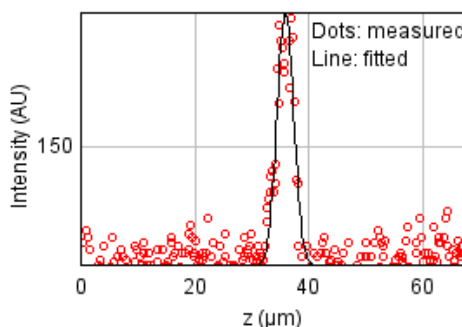
b = 0.008 px

c = 0.582 px

xc = 6.950 px

yc = 9.102 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15596.4187

Standard deviation: 7.12760

R^2 : 0.81710

Parameters:

a = 112.82083

b = 192.75163

c = 35.96144

d = 1.46609

Bead 2040

Date : Mon Oct 17 13:52:59 PDT 2022

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

Frame size : 12 pixels

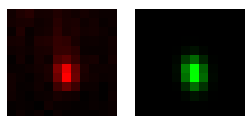
Coordinates : -94.4 μm (x), 59.6 μm (y), 38.8 μm (z)

Corresponding bead : Not found

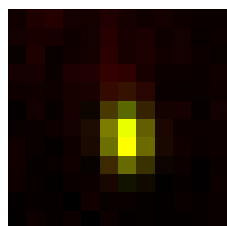
FWHM	Non corrected	Corrected	Theoretical
min	396 nm	412 nm	270 nm
max	555 nm	579 nm	270 nm
z	2.16 μm	2.17 μm	1.3 μm
Asymmetry	0.713		
Theta	-82.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 361.159$ (brightness)

$B = 124.562$ (background)

$a = 0.849$ px

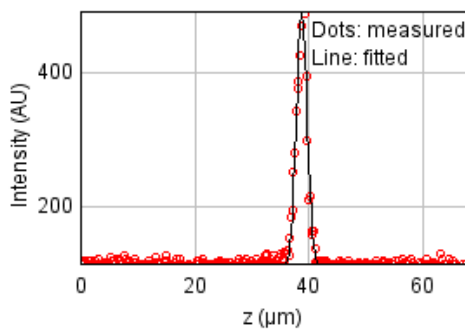
$b = -0.057$ px

$c = 0.443$ px

$x_c = 5.950$ px

$y_c = 6.501$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 29269.6408

Standard deviation: 9.76426

$R^2: 0.97177$

Parameters:

$a = 113.70598$

$b = 491.98840$

$c = 38.82663$

$d = 0.91798$

Bead 2041 (Rejected)

Date : Mon Oct 17 13:52:59 PDT 2022

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

Frame size : 12 pixels

Coordinates : 125 um (x), 60.6 um (y), 35.6 um (z)

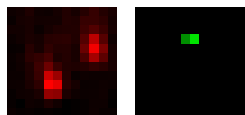
Corresponding bead : Not found

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

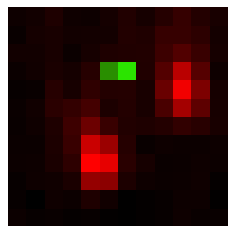
FWHM	Non corrected	Corrected	Theoretical
min	110 nm	115 nm	270 nm
max	129 nm	134 nm	270 nm
z	2.19 um	2.2 um	1.3 um
Asymmetry	0.854		
Theta	7.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 48.619 (brightness)

B = 160.021 (background)

a = 8.104 px

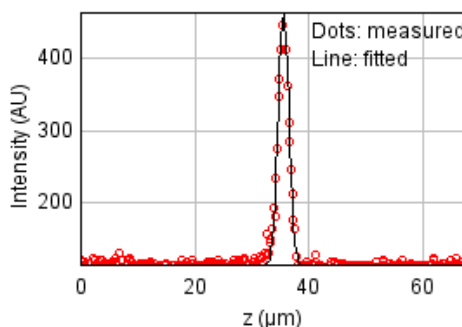
b = 0.395 px

c = 10.980 px

xc = 5.528 px

yc = 3.030 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18909.5127

Standard deviation: 7.84822

R^2 : 0.97894

Parameters:

a = 112.37621

b = 463.43664

c = 35.63574

d = 0.93055

Bead 2042

Date : Mon Oct 17 13:52:59 PDT 2022

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

Frame size : 12 pixels

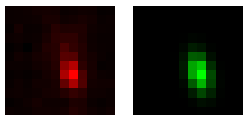
Coordinates : 120 µm (x), 53.0 µm (y), 39.5 µm (z)

Corresponding bead : Not found

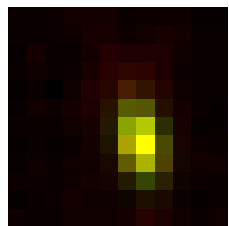
FWHM	Non corrected	Corrected	Theoretical
min	393 nm	409 nm	270 nm
max	702 nm	731 nm	270 nm
z	2.03 µm	2.04 µm	1.3 µm
Asymmetry	0.56		
Theta	-77.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 540.223 (brightness)

B = 131.506 (background)

a = 0.842 px

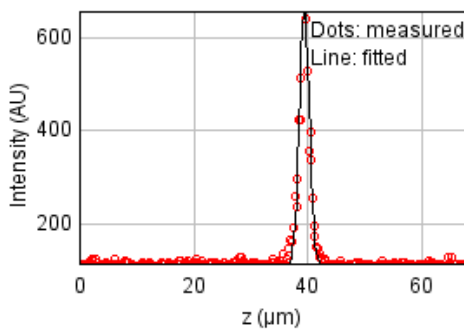
b = -0.124 px

c = 0.300 px

xc = 6.731 px

yc = 6.795 px

Z profile & fitting parameters:



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

Sum of residuals squared: 50113.4835

Standard deviation: 12.77639

R^2 : 0.97503

Parameters:

a = 113.96576

b = 656.93796

c = 39.46445

d = 0.86294

Bead 2043

Date : Mon Oct 17 13:52:59 PDT 2022

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

Frame size : 12 pixels

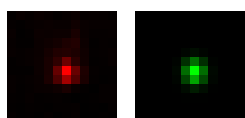
Coordinates : 9.68 μm (x), 47.4 μm (y), 40.0 μm (z)

Corresponding bead : Not found

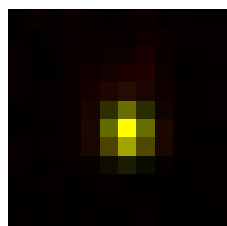
FWHM	Non corrected	Corrected	Theoretical
min	395 nm	412 nm	270 nm
max	455 nm	474 nm	270 nm
z	1.84 μm	1.85 μm	1.3 μm
Asymmetry	0.869		
Theta	-85.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 860.966 (brightness)

B = 128.820 (background)

a = 0.858 px

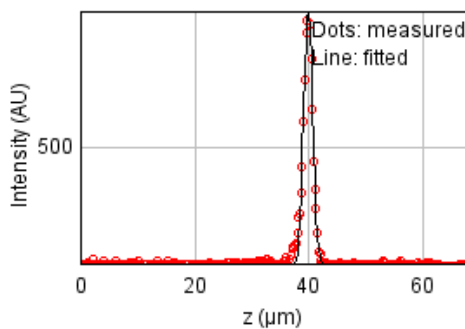
b = -0.017 px

c = 0.650 px

xc = 6.006 px

yc = 6.157 px

Z profile & fitting parameters:



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

Sum of residuals squared: 47005.0712

Standard deviation: 12.37380

R^2 : 0.98894

Parameters:

a = 116.87804

b = 950.39664

c = 39.95329

d = 0.78284

Bead 2044

Date : Mon Oct 17 13:52:59 PDT 2022

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

Frame size : 12 pixels

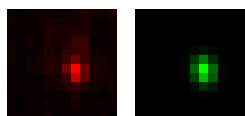
Coordinates : -162 μm (x), 18.5 μm (y), 39.0 μm (z)

Corresponding bead : Not found

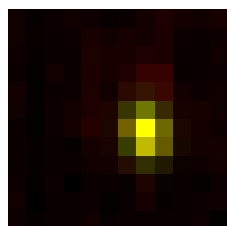
FWHM	Non corrected	Corrected	Theoretical
min	380 nm	396 nm	270 nm
max	506 nm	527 nm	270 nm
z	2.01 μm	2.02 μm	1.3 μm
Asymmetry	0.751		
Theta	-78.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 278.897$ (brightness)

$B = 116.575$ (background)

$a = 0.915$ px

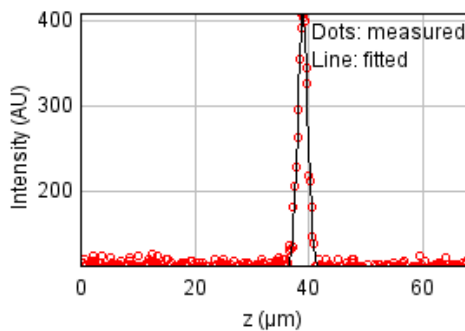
$b = -0.078$ px

$c = 0.539$ px

$x_c = 7.036$ px

$y_c = 6.211$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 14702.8356

Standard deviation: 6.92040

$R^2: 0.97553$

Parameters:

$a = 111.29263$

$b = 410.04425$

$c = 39.00897$

$d = 0.85339$

Bead 2045

Date : Mon Oct 17 13:52:59 PDT 2022

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

Frame size : 12 pixels

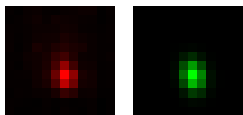
Coordinates : 79.4 μm (x), -14.0 μm (y), 39.7 μm (z)

Corresponding bead : Not found

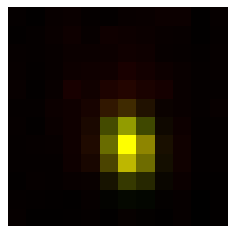
FWHM	Non corrected	Corrected	Theoretical
min	417 nm	435 nm	270 nm
max	577 nm	601 nm	270 nm
z	1.88 μm	1.88 μm	1.3 μm
Asymmetry	0.724		
Theta	-79.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 720.709$ (brightness)

$B = 124.461$ (background)

$a = 0.758$ px

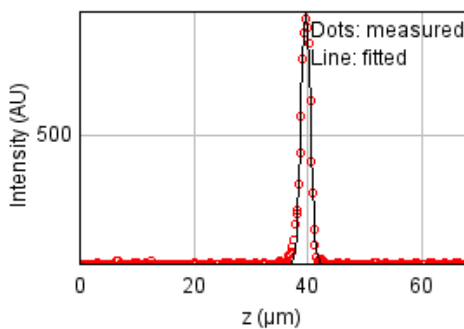
$b = -0.065$ px

$c = 0.415$ px

$x_c = 6.080$ px

$y_c = 7.106$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 39182.4702

Standard deviation: 11.29735

$R^2 = 0.98905$

Parameters:

$a = 114.08602$

$b = 872.69922$

$c = 39.69990$

$d = 0.79661$

Bead 2046

Date : Mon Oct 17 13:52:59 PDT 2022

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

Frame size : 12 pixels

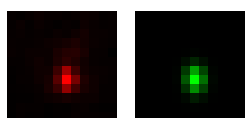
Coordinates : 7.93 μm (x), -34.2 μm (y), 39.5 μm (z)

Corresponding bead : Not found

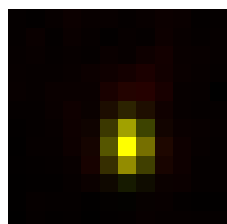
FWHM	Non corrected	Corrected	Theoretical
min	373 nm	389 nm	270 nm
max	501 nm	522 nm	270 nm
z	2.02 μm	2.03 μm	1.3 μm
Asymmetry	0.744		
Theta	-87.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 767.157 (brightness)

B = 127.440 (background)

a = 0.962 px

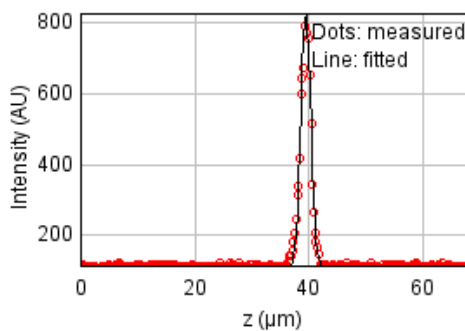
b = -0.017 px

c = 0.534 px

xc = 6.064 px

yc = 6.937 px

Z profile & fitting parameters:



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

Sum of residuals squared: 43753.5845

Standard deviation: 11.93817

R^2 : 0.98719

Parameters:

a = 113.17098

b = 827.60083

c = 39.54732

d = 0.85851

Bead 2047 (Rejected)

Date : Mon Oct 17 13:52:59 PDT 2022

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

Frame size : 12 pixels

Coordinates : -109 μm (x), -48.1 μm (y), 35.6 μm (z)

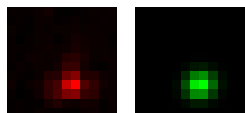
Corresponding bead : Not found

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

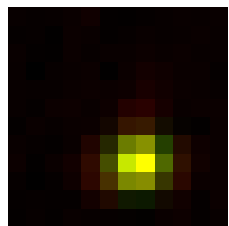
FWHM	Non corrected	Corrected	Theoretical
min	476 nm	496 nm	270 nm
max	525 nm	547 nm	270 nm
z	2.6 μm	2.61 μm	1.3 μm
Asymmetry	0.908		
Theta	18.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 562.831 (brightness)

B = 125.042 (background)

a = 0.498 px

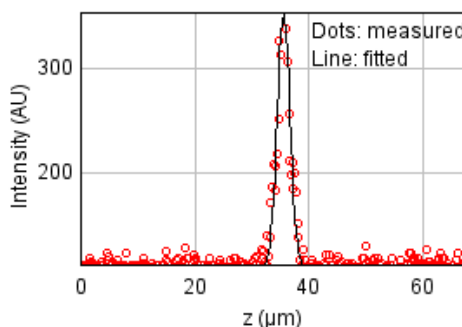
b = 0.031 px

c = 0.581 px

xc = 6.595 px

yc = 8.011 px

Z profile & fitting parameters:



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

Sum of residuals squared: 32070.9790

Standard deviation: 10.22085

R^2 : 0.93785

Parameters:

a = 112.71484

b = 353.22063

c = 35.64567

d = 1.10202

Bead 2048

Date : Mon Oct 17 13:52:59 PDT 2022

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

Frame size : 12 pixels

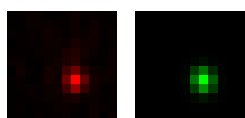
Coordinates : 54.1 μm (x), -69.6 μm (y), 39.6 μm (z)

Corresponding bead : Not found

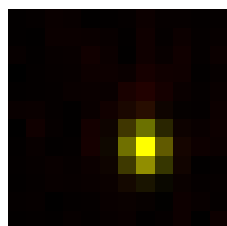
FWHM	Non corrected	Corrected	Theoretical
min	378 nm	393 nm	270 nm
max	440 nm	458 nm	270 nm
z	1.88 μm	1.88 μm	1.3 μm
Asymmetry	0.859		
Theta	-80.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 510.320$ (brightness)

$B = 121.242$ (background)

$a = 0.934$ px

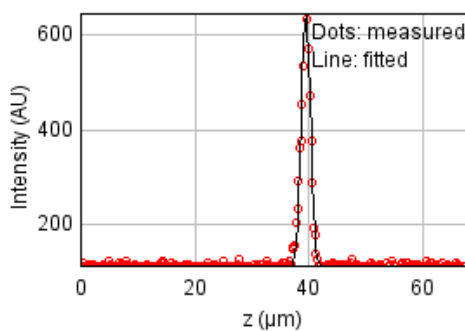
$b = -0.041$ px

$c = 0.701$ px

$x_c = 6.946$ px

$y_c = 7.078$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 28756.2908

Standard deviation: 9.67826

$R^2 = 0.98374$

Parameters:

$a = 112.95416$

$b = 644.57051$

$c = 39.55364$

$d = 0.79710$

Bead 2049 (Rejected)

Date : Mon Oct 17 13:52:59 PDT 2022

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

Frame size : 12 pixels

Coordinates : 146 μm (x), -75.4 μm (y), 40.2 μm (z)

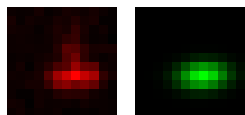
Corresponding bead : Not found

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

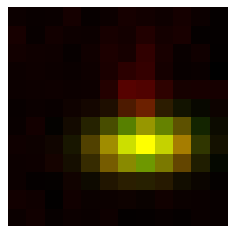
FWHM	Non corrected	Corrected	Theoretical
min	508 nm	529 nm	270 nm
max	915 nm	953 nm	270 nm
z	2.93 μm	2.94 μm	1.3 μm
Asymmetry	0.555		
Theta	3.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 247.168$ (brightness)

$B = 115.757$ (background)

$a = 0.161$ px

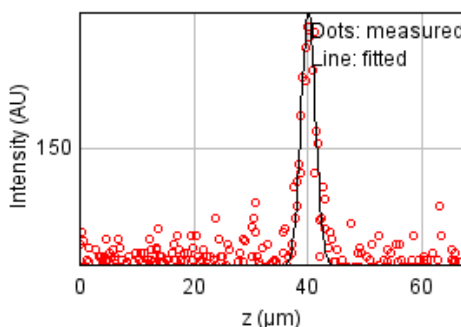
$b = 0.020$ px

$c = 0.518$ px

$x_c = 6.904$ px

$y_c = 7.005$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 14050.6647

Standard deviation: 6.76518

$R^2: 0.82707$

Parameters:

$a = 110.69989$

$b = 195.44237$

$c = 40.15560$

$d = 1.24225$

Bead 2050

Date : Mon Oct 17 13:52:59 PDT 2022

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

Frame size : 12 pixels

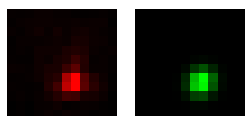
Coordinates : 19.5 μm (x), -80.5 μm (y), 39.9 μm (z)

Corresponding bead : Not found

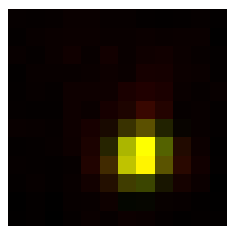
FWHM	Non corrected	Corrected	Theoretical
min	441 nm	460 nm	270 nm
max	486 nm	506 nm	270 nm
z	2.06 μm	2.07 μm	1.3 μm
Asymmetry	0.909		
Theta	55.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 724.171$ (brightness)

$B = 128.746$ (background)

$a = 0.650$ px

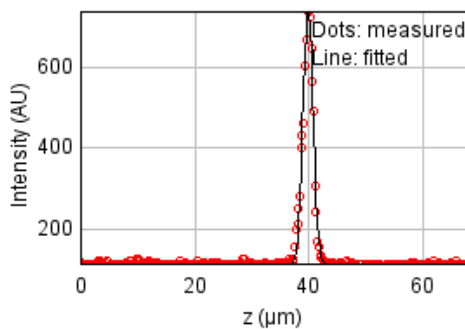
$b = 0.056$ px

$c = 0.608$ px

$x_c = 6.717$ px

$y_c = 7.487$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 35252.4273

Standard deviation: 10.71582

$R^2: 0.98693$

Parameters:

$a = 112.69902$

$b = 741.39785$

$c = 39.93913$

$d = 0.87610$

Bead 2051

Date : Mon Oct 17 13:52:59 PDT 2022

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

Frame size : 12 pixels

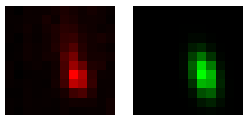
Coordinates : 135 um (x), 93.6 um (y), 39.8 um (z)

Corresponding bead : Not found

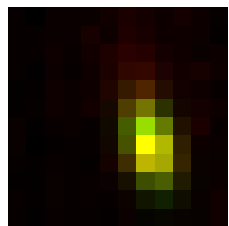
FWHM	Non corrected	Corrected	Theoretical
min	420 nm	437 nm	270 nm
max	790 nm	823 nm	270 nm
z	2.12 um	2.13 um	1.3 um
Asymmetry	0.532		
Theta	-76.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 442.350 (brightness)

B = 119.067 (background)

a = 0.729 px

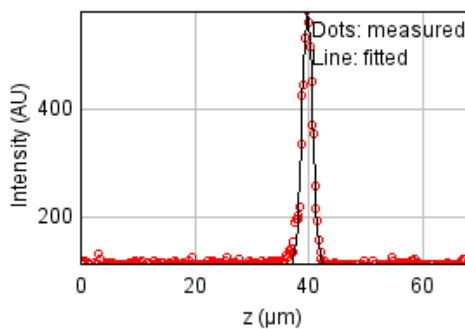
b = -0.127 px

c = 0.246 px

xc = 7.262 px

yc = 6.934 px

Z profile & fitting parameters:



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

Sum of residuals squared: 26376.8572

Standard deviation: 9.26920

R^2 : 0.98310

Parameters:

a = 111.37709

b = 582.76485

c = 39.80388

d = 0.89964

Bead 2052

Date : Mon Oct 17 13:52:59 PDT 2022

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

Frame size : 12 pixels

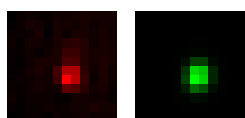
Coordinates : -136 μm (x), 77.4 μm (y), 39.5 μm (z)

Corresponding bead : Not found

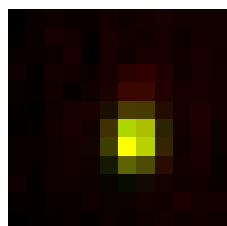
FWHM	Non corrected	Corrected	Theoretical
min	408 nm	425 nm	270 nm
max	493 nm	514 nm	270 nm
z	2.24 μm	2.25 μm	1.3 μm
Asymmetry	0.827		
Theta	80.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 385.550$ (brightness)

$B = 122.314$ (background)

$a = 0.800$ px

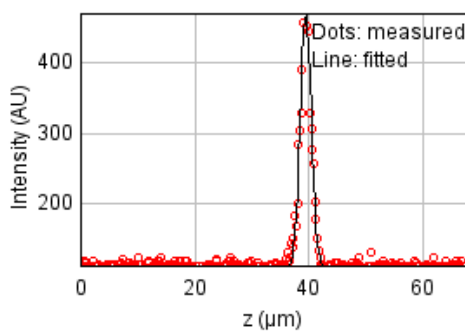
$b = 0.040$ px

$c = 0.558$ px

$x_c = 6.396$ px

$y_c = 6.623$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 18709.7319

Standard deviation: 7.80665

$R^2: 0.98050$

Parameters:

$a = 111.37837$

$b = 470.70297$

$c = 39.53066$

$d = 0.95198$

Bead 2053 (Rejected)

Date : Mon Oct 17 13:52:59 PDT 2022

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

Frame size : 12 pixels

Coordinates : 132 um (x), 67.7 um (y), 39.9 um (z)

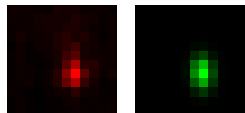
Corresponding bead : Not found

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

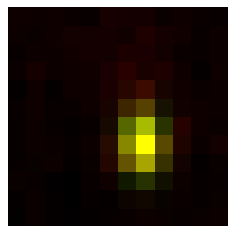
FWHM	Non corrected	Corrected	Theoretical
min	376 nm	392 nm	270 nm
max	600 nm	625 nm	270 nm
z	1.65 um	1.66 um	1.3 um
Asymmetry	0.628		
Theta	-87.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 397.281 (brightness)

B = 119.545 (background)

a = 0.946 px

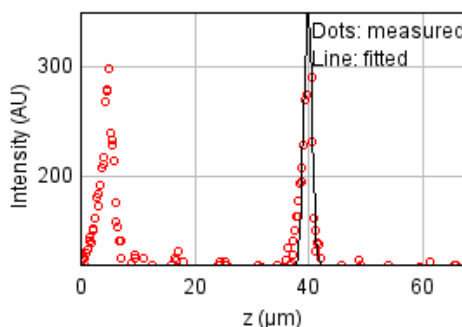
b = -0.022 px

c = 0.374 px

xc = 6.834 px

yc = 6.905 px

Z profile & fitting parameters:



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

Sum of residuals squared: 256599.746

Standard deviation: 28.91072

R^2 : 0.52738

Parameters:

a = 120.48247

b = 349.99653

c = 39.91084

d = 0.70034

Bead 2054 (Rejected)

Date : Mon Oct 17 13:53:00 PDT 2022

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

Frame size : 12 pixels

Coordinates : 126 um (x), 60.4 um (y), 35.9 um (z)

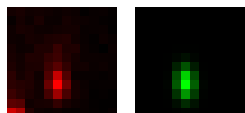
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

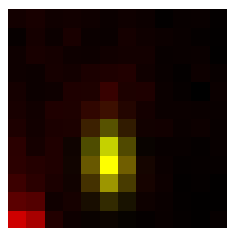
FWHM	Non corrected	Corrected	Theoretical
min	361 nm	376 nm	270 nm
max	605 nm	630 nm	270 nm
z	2.03 um	2.04 um	1.3 um
Asymmetry	0.597		
Theta	-87.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.612$



Parameters:

A = 386.427 (brightness)

B = 137.058 (background)

a = 1.027 px

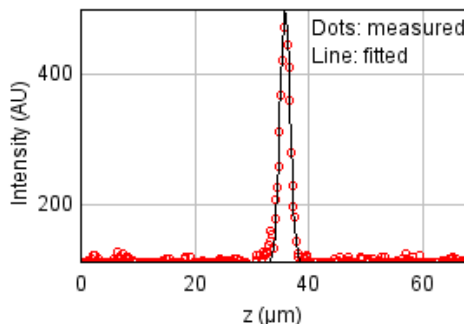
b = -0.028 px

c = 0.368 px

xc = 5.010 px

yc = 7.777 px

Z profile & fitting parameters:



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

Sum of residuals squared: 20572.2543

Standard deviation: 8.18600

R^2 : 0.97981

Parameters:

a = 111.57708

b = 499.14421

c = 35.91193

d = 0.86399

Bead 2055

Date : Mon Oct 17 13:53:00 PDT 2022

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

Frame size : 12 pixels

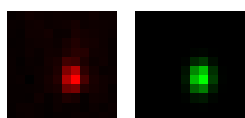
Coordinates : 11.8 μm (x), 53.8 μm (y), 39.5 μm (z)

Corresponding bead : Not found

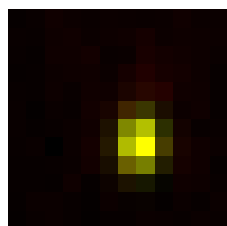
FWHM	Non corrected	Corrected	Theoretical
min	391 nm	408 nm	270 nm
max	522 nm	544 nm	270 nm
z	2.21 μm	2.22 μm	1.3 μm
Asymmetry	0.75		
Theta	87.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 659.711 (brightness)

B = 123.902 (background)

a = 0.876 px

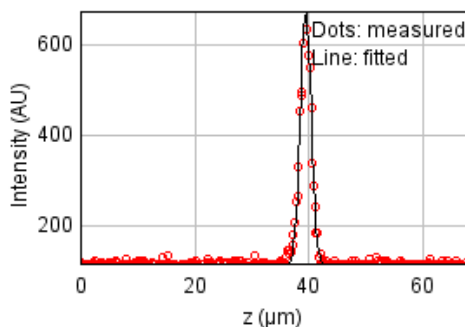
b = 0.016 px

c = 0.493 px

xc = 6.682 px

yc = 6.798 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33608.8266

Standard deviation: 10.46303

R^2 : 0.98528

Parameters:

a = 114.48621

b = 673.42240

c = 39.53111

d = 0.93984

Bead 2056

Date : Mon Oct 17 13:53:00 PDT 2022

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

Frame size : 12 pixels

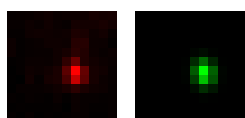
Coordinates : -157 μm (x), 36.8 μm (y), 40.0 μm (z)

Corresponding bead : Not found

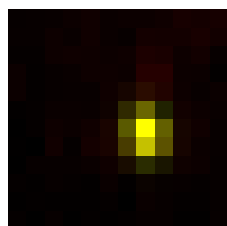
FWHM	Non corrected	Corrected	Theoretical
min	363 nm	378 nm	270 nm
max	476 nm	496 nm	270 nm
z	1.97 μm	1.97 μm	1.3 μm
Asymmetry	0.763		
Theta	-81.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 611.913 (brightness)

B = 122.766 (background)

a = 1.009 px

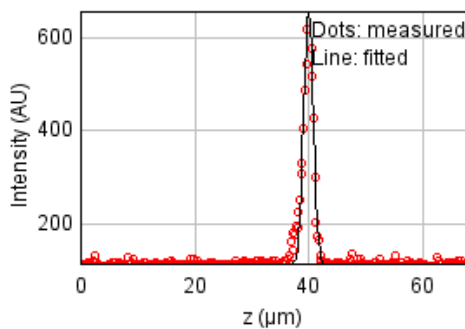
b = -0.060 px

c = 0.601 px

xc = 7.032 px

yc = 6.268 px

Z profile & fitting parameters:



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

Sum of residuals squared: 50343.5914

Standard deviation: 12.80569

R^2 : 0.97408

Parameters:

a = 112.23303

b = 654.69287

c = 40.01004

d = 0.83458

Bead 2057

Date : Mon Oct 17 13:53:00 PDT 2022

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

Frame size : 12 pixels

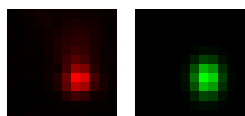
Coordinates : 128 um (x), 26.3 um (y), 40.4 um (z)

Corresponding bead : Not found

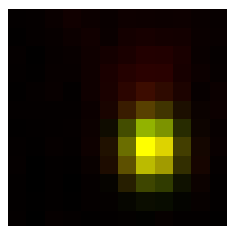
FWHM	Non corrected	Corrected	Theoretical
min	508 nm	529 nm	270 nm
max	633 nm	659 nm	270 nm
z	2.18 um	2.18 um	1.3 um
Asymmetry	0.803		
Theta	-89.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 838.697 (brightness)

B = 134.413 (background)

a = 0.520 px

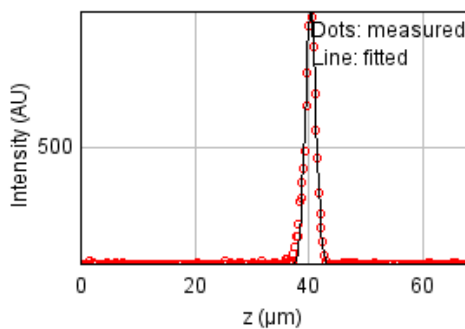
b = -0.003 px

c = 0.335 px

xc = 7.316 px

yc = 7.037 px

Z profile & fitting parameters:



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

Sum of residuals squared: 77917.2701

Standard deviation: 15.93117

R^2 : 0.98482

Parameters:

a = 111.39762

b = 956.11600

c = 40.38232

d = 0.92374

Bead 2058 (Rejected)

Date : Mon Oct 17 13:53:00 PDT 2022

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

Frame size : 12 pixels

Coordinates : -130 μm (x), 18.2 μm (y), 35.9 μm (z)

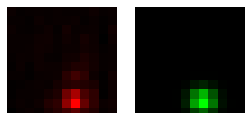
Corresponding bead : Not found

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

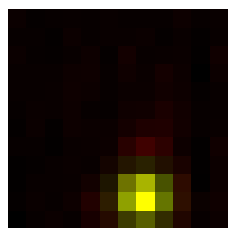
FWHM	Non corrected	Corrected	Theoretical
min	447 nm	466 nm	270 nm
max	466 nm	485 nm	270 nm
z	3.87 μm	3.88 μm	1.3 μm
Asymmetry	0.961		
Theta	-7.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 425.408 (brightness)

B = 120.583 (background)

a = 0.620 px

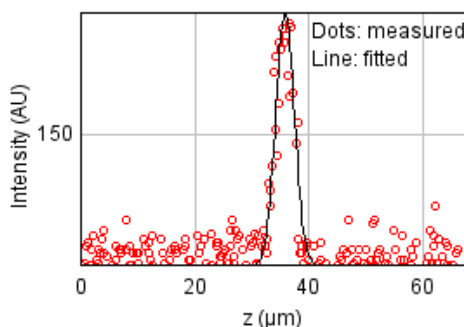
b = -0.006 px

c = 0.669 px

xc = 6.871 px

yc = 9.758 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16762.6474

Standard deviation: 7.38928

R^2 : 0.80472

Parameters:

a = 111.13620

b = 186.71339

c = 35.90767

d = 1.64213

Bead 2059

Date : Mon Oct 17 13:53:00 PDT 2022

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

Frame size : 12 pixels

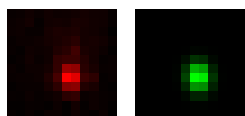
Coordinates : 116 um (x), 12.2 um (y), 39.4 um (z)

Corresponding bead : Not found

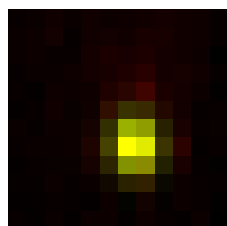
FWHM	Non corrected	Corrected	Theoretical
min	434 nm	452 nm	270 nm
max	540 nm	562 nm	270 nm
z	2.05 um	2.06 um	1.3 um
Asymmetry	0.804		
Theta	-85.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 406.061 (brightness)

B = 118.606 (background)

a = 0.710 px

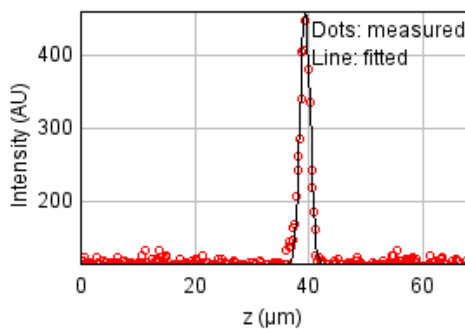
b = -0.020 px

c = 0.462 px

xc = 6.439 px

yc = 6.914 px

Z profile & fitting parameters:



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

Sum of residuals squared: 26722.0778

Standard deviation: 9.32966

R^2 : 0.96789

Parameters:

a = 112.75806

b = 459.83541

c = 39.42407

d = 0.86952

Bead 2060

Date : Mon Oct 17 13:53:00 PDT 2022

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

Frame size : 12 pixels

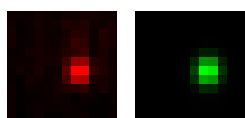
Coordinates : -158 μm (x), -22.1 μm (y), 39.3 μm (z)

Corresponding bead : Not found

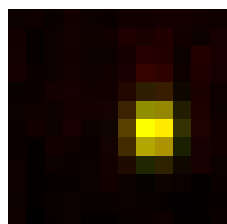
FWHM	Non corrected	Corrected	Theoretical
min	428 nm	446 nm	270 nm
max	516 nm	538 nm	270 nm
z	2.26 μm	2.27 μm	1.3 μm
Asymmetry	0.829		
Theta	86.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 472.020$ (brightness)

$B = 121.669$ (background)

$a = 0.731$ px

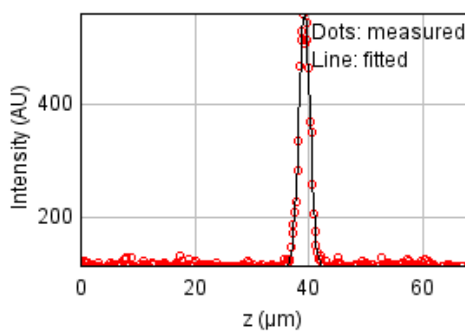
$b = 0.015$ px

$c = 0.505$ px

$x_c = 7.443$ px

$y_c = 6.059$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 24646.9478

Standard deviation: 8.96009

$R^2: 0.98392$

Parameters:

$a = 111.82061$

$b = 564.61836$

$c = 39.30491$

$d = 0.96107$

Bead 2061

Date : Mon Oct 17 13:53:00 PDT 2022

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

Frame size : 12 pixels

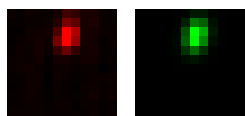
Coordinates : -89.1 μm (x), -28.6 μm (y), 31.8 μm (z)

Corresponding bead : Not found

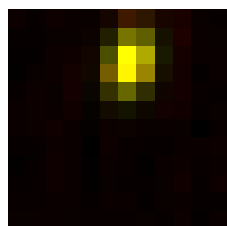
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	424 nm	270 nm
max	588 nm	613 nm	270 nm
z	2.09 μm	2.1 μm	1.3 μm
Asymmetry	0.691		
Theta	75.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 545.141 (brightness)

B = 118.284 (background)

a = 0.786 px

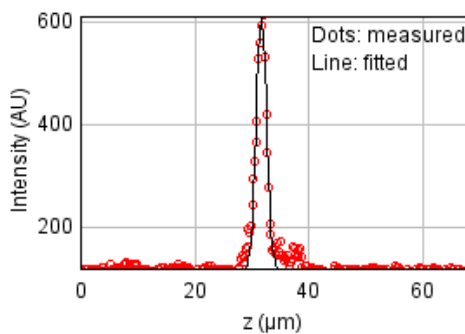
b = 0.101 px

c = 0.413 px

xc = 6.190 px

yc = 2.405 px

Z profile & fitting parameters:



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

Sum of residuals squared: 64230.8884

Standard deviation: 14.46448

R^2 : 0.96295

Parameters:

a = 117.37138

b = 611.60254

c = 31.75273

d = 0.88963

Bead 2062

Date : Mon Oct 17 13:53:00 PDT 2022

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

Frame size : 12 pixels

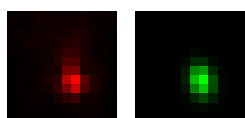
Coordinates : 142 μm (x), -31.8 μm (y), 39.8 μm (z)

Corresponding bead : Not found

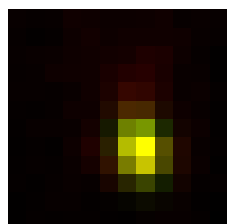
FWHM	Non corrected	Corrected	Theoretical
min	421 nm	439 nm	270 nm
max	594 nm	619 nm	270 nm
z	1.96 μm	1.97 μm	1.3 μm
Asymmetry	0.709		
Theta	-77.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 601.410 (brightness)

B = 125.370 (background)

a = 0.739 px

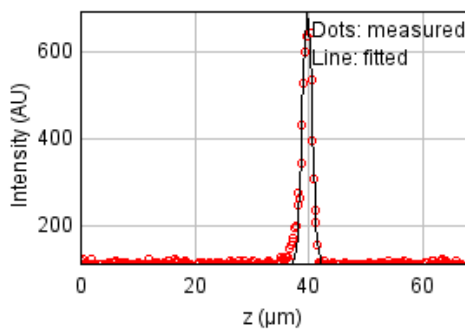
b = -0.077 px

c = 0.397 px

$x_c = 6.718$ px

$y_c = 7.113$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 49191.9005

Standard deviation: 12.65836

R^2 : 0.97780

Parameters:

a = 111.93757

b = 692.92551

c = 39.78671

d = 0.83301

Bead 2063 (Rejected)

Date : Mon Oct 17 13:53:00 PDT 2022

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

Frame size : 12 pixels

Coordinates : -146 μm (x), 57.4 μm (y), 15.4 μm (z)

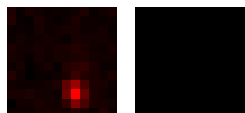
Corresponding bead : Not found

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

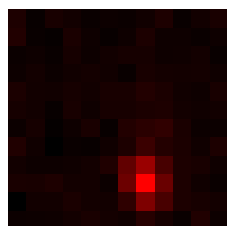
FWHM	Non corrected	Corrected	Theoretical
min	2.39 μm	2.49 μm	270 nm
max	3.54 μm	3.68 μm	270 nm
z	2.13 μm	2.13 μm	1.3 μm
Asymmetry	0.677		
Theta	0.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.119$



Parameters:

A = -25.228 (brightness)

B = 140.511 (background)

a = 0.001 px

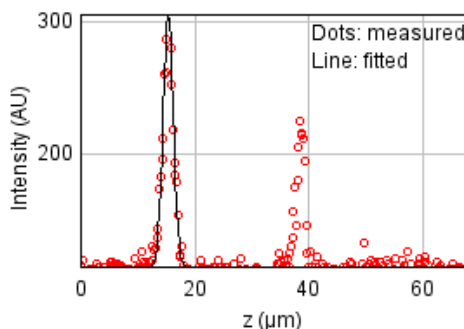
b = 0.016 px

c = 0.012 px

xc = 3.586 px

yc = 1.758 px

Z profile & fitting parameters:



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

Sum of residuals squared: 87636.2648

Standard deviation: 16.89557

R^2 : 0.74268

Parameters:

a = 114.34391

b = 305.39902

c = 15.42153

d = 0.90272

Bead 2064

Date : Mon Oct 17 13:53:00 PDT 2022

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

Frame size : 12 pixels

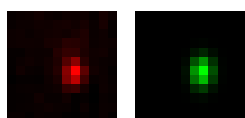
Coordinates : 49.9 μm (x), 44.1 μm (y), 39.7 μm (z)

Corresponding bead : Not found

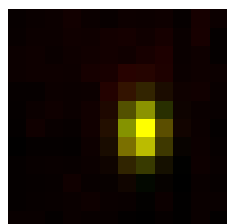
FWHM	Non corrected	Corrected	Theoretical
min	393 nm	409 nm	270 nm
max	559 nm	583 nm	270 nm
z	2.02 μm	2.03 μm	1.3 μm
Asymmetry	0.703		
Theta	87.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 453.891 (brightness)

B = 120.996 (background)

a = 0.867 px

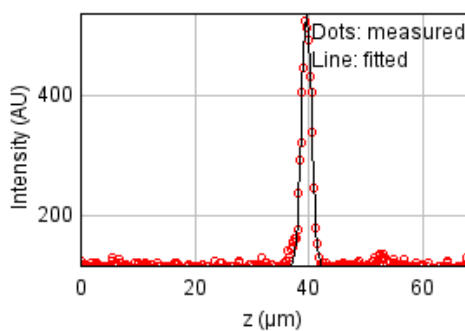
b = 0.020 px

c = 0.430 px

xc = 6.817 px

yc = 6.148 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22776.6912

Standard deviation: 8.61343

R^2 : 0.98139

Parameters:

a = 114.10888

b = 540.48006

c = 39.66687

d = 0.85848

Bead 2065

Date : Mon Oct 17 13:53:01 PDT 2022

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

Frame size : 12 pixels

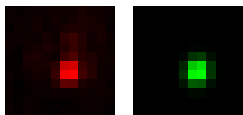
Coordinates : -156 μm (x), 29.2 μm (y), 40.0 μm (z)

Corresponding bead : Not found

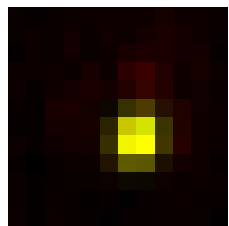
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	423 nm	270 nm
max	475 nm	495 nm	270 nm
z	2.22 μm	2.23 μm	1.3 μm
Asymmetry	0.856		
Theta	78.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 532.259$ (brightness)

$B = 117.531$ (background)

$a = 0.803$ px

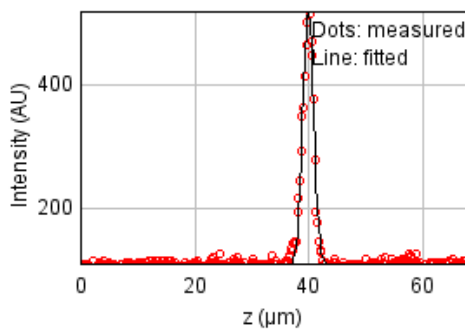
$b = 0.043$ px

$c = 0.603$ px

$x_c = 6.546$ px

$y_c = 6.630$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 23492.9161

Standard deviation: 8.74781

$R^2: 0.98087$

Parameters:

$a = 111.02094$

$b = 519.58256$

$c = 39.95982$

$d = 0.94189$

Bead 2066

Date : Mon Oct 17 13:53:01 PDT 2022

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

Frame size : 12 pixels

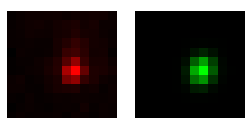
Coordinates : -151 μm (x), 27.2 μm (y), 40.2 μm (z)

Corresponding bead : Not found

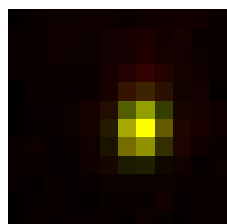
FWHM	Non corrected	Corrected	Theoretical
min	424 nm	442 nm	270 nm
max	517 nm	539 nm	270 nm
z	2.0 μm	2.01 μm	1.3 μm
Asymmetry	0.819		
Theta	76.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 507.733$ (brightness)

$B = 120.275$ (background)

$a = 0.733$ px

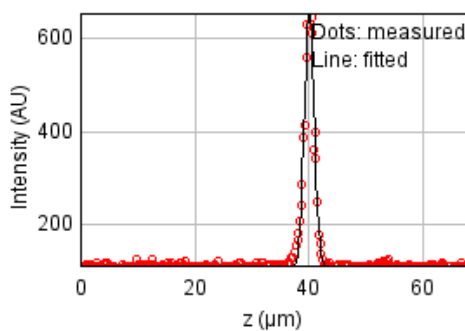
$b = 0.056$ px

$c = 0.515$ px

$x_c = 6.781$ px

$y_c = 5.984$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 36872.5449

Standard deviation: 10.95929

$R^2 = 0.98142$

Parameters:

$a = 111.04146$

$b = 656.94541$

$c = 40.15831$

$d = 0.84893$

Bead 2067 (Rejected)

Date : Mon Oct 17 13:53:01 PDT 2022

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

Frame size : 12 pixels

Coordinates : -22.7 μm (x), 27.4 μm (y), 17.8 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	2.58 μm	2.6 μm	1.3 μm
Asymmetry	0.0		
Theta	0.0°		

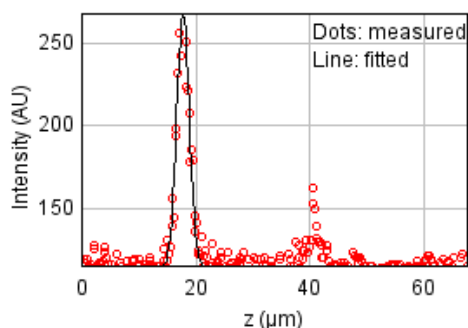
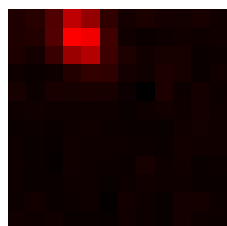
XY profile & fitting parameters :

(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: 20773.6371

Standard deviation: 8.22597

R²: 0.90374

Parameters:

a = 114.69485

b = 267.66485

c = 17.84860

d = 1.09758

Bead 2068

Date : Mon Oct 17 13:53:01 PDT 2022

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

Frame size : 12 pixels

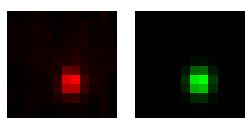
Coordinates : -39.5 μm (x), 19.6 μm (y), 39.9 μm (z)

Corresponding bead : Not found

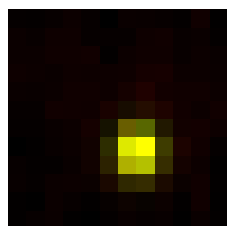
FWHM	Non corrected	Corrected	Theoretical
min	417 nm	434 nm	270 nm
max	474 nm	494 nm	270 nm
z	1.88 μm	1.89 μm	1.3 μm
Asymmetry	0.878		
Theta	-89.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 584.893 (brightness)

B = 123.941 (background)

a = 0.773 px

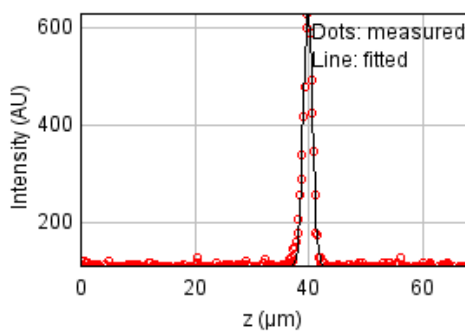
b = -0.001 px

c = 0.596 px

xc = 6.560 px

yc = 7.263 px

Z profile & fitting parameters:



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

Sum of residuals squared: 25888.6835

Standard deviation: 9.18303

R^2 : 0.98457

Parameters:

a = 112.57920

b = 630.10764

c = 39.90837

d = 0.79887

Bead 2069

Date : Mon Oct 17 13:53:01 PDT 2022

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

Frame size : 12 pixels

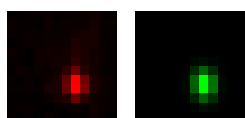
Coordinates : 56.1 μm (x), 3.96 μm (y), 39.8 μm (z)

Corresponding bead : Not found

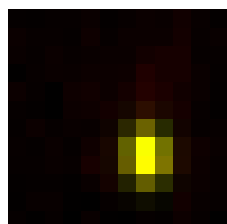
FWHM	Non corrected	Corrected	Theoretical
min	389 nm	406 nm	270 nm
max	525 nm	547 nm	270 nm
z	1.89 μm	1.9 μm	1.3 μm
Asymmetry	0.742		
Theta	-87.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 592.235 (brightness)

B = 124.022 (background)

a = 0.884 px

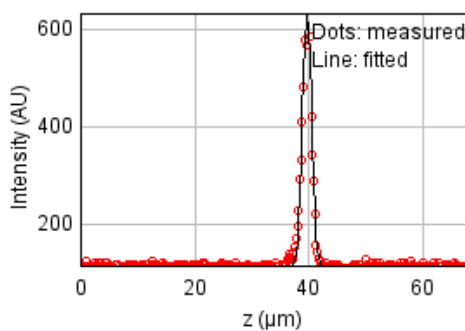
b = -0.020 px

c = 0.488 px

$x_c = 7.053$ px

$y_c = 7.486$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 29332.4354

Standard deviation: 9.77473

$R^2 = 0.98279$

Parameters:

a = 113.33806

b = 633.69625

c = 39.75313

d = 0.80165

Bead 2070

Date : Mon Oct 17 13:53:01 PDT 2022

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

Frame size : 12 pixels

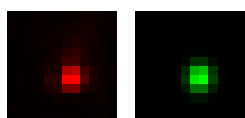
Coordinates : 1.23 μm (x), -86.5 μm (y), 40.0 μm (z)

Corresponding bead : Not found

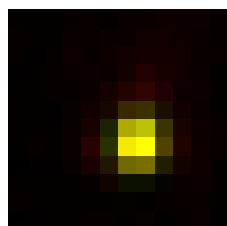
FWHM	Non corrected	Corrected	Theoretical
min	430 nm	448 nm	270 nm
max	492 nm	513 nm	270 nm
z	2.05 μm	2.06 μm	1.3 μm
Asymmetry	0.873		
Theta	84.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 848.437$ (brightness)

$B = 127.232$ (background)

$a = 0.724$ px

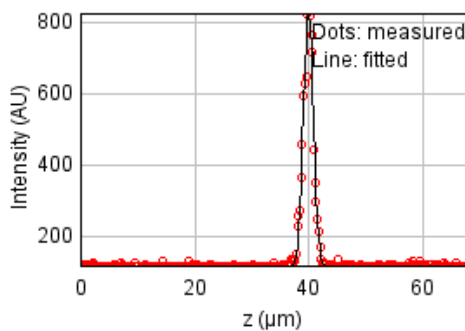
$b = 0.018$ px

$c = 0.555$ px

$x_c = 6.573$ px

$y_c = 6.764$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 52338.2437

Standard deviation: 13.05691

$R^2: 0.98473$

Parameters:

$a = 114.70783$

$b = 824.27662$

$c = 39.99801$

$d = 0.87153$

Bead 2071

Date : Mon Oct 17 13:53:01 PDT 2022

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

Frame size : 12 pixels

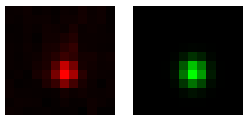
Coordinates : 55.9 μm (x), -90.7 μm (y), 39.8 μm (z)

Corresponding bead : Not found

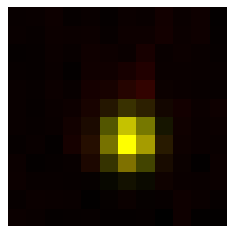
FWHM	Non corrected	Corrected	Theoretical
min	455 nm	474 nm	270 nm
max	496 nm	517 nm	270 nm
z	2.1 μm	2.1 μm	1.3 μm
Asymmetry	0.917		
Theta	85.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 529.894 (brightness)

B = 121.826 (background)

a = 0.647 px

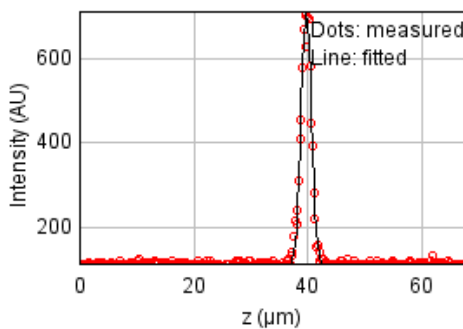
b = 0.008 px

c = 0.545 px

$x_c = 6.123$ px

$y_c = 6.750$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 30375.4798

Standard deviation: 9.94701

R^2 : 0.98772

Parameters:

a = 113.59727

b = 711.25481

c = 39.79609

d = 0.89022

Bead 2072

Date : Mon Oct 17 13:53:01 PDT 2022

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

Frame size : 12 pixels

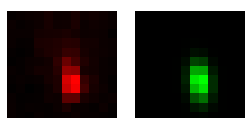
Coordinates : 110 um (x), 92.9 um (y), 40.2 um (z)

Corresponding bead : Not found

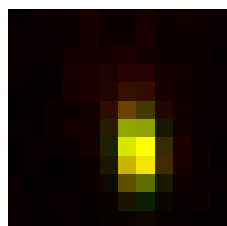
FWHM	Non corrected	Corrected	Theoretical
min	376 nm	392 nm	270 nm
max	685 nm	714 nm	270 nm
z	2.19 um	2.2 um	1.3 um
Asymmetry	0.549		
Theta	-84.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 493.854 (brightness)

B = 122.244 (background)

a = 0.941 px

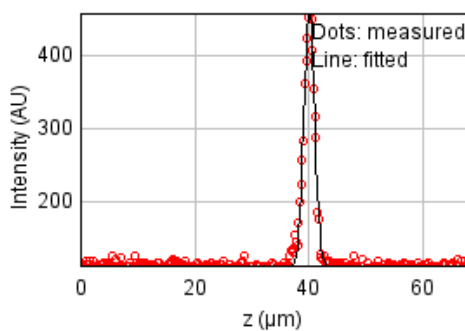
b = -0.062 px

c = 0.291 px

xc = 6.564 px

yc = 7.194 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16392.2943

Standard deviation: 7.30719

R^2 : 0.98130

Parameters:

a = 111.56223

b = 458.88976

c = 40.15211

d = 0.93037

Bead 2073

Date : Mon Oct 17 13:53:01 PDT 2022

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

Frame size : 12 pixels

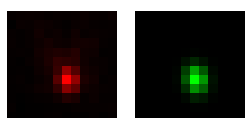
Coordinates : -7.88 μm (x), 85.0 μm (y), 40.2 μm (z)

Corresponding bead : Not found

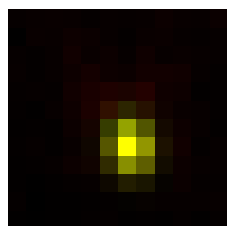
FWHM	Non corrected	Corrected	Theoretical
min	403 nm	420 nm	270 nm
max	515 nm	536 nm	270 nm
z	1.94 μm	1.95 μm	1.3 μm
Asymmetry	0.783		
Theta	-79.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 776.393$ (brightness)

$B = 131.008$ (background)

$a = 0.815$ px

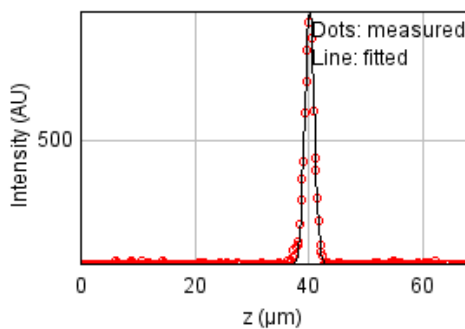
$b = -0.056$ px

$c = 0.516$ px

$x_c = 6.167$ px

$y_c = 6.955$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 44638.2990

Standard deviation: 12.05826

$R^2 = 0.98884$

Parameters:

$a = 114.40728$

$b = 903.31723$

$c = 40.19995$

$d = 0.82432$

Bead 2074 (Rejected)

Date : Mon Oct 17 13:53:01 PDT 2022

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

Frame size : 12 pixels

Coordinates : 13.1 μm (x), 48.2 μm (y), 37.0 μm (z)

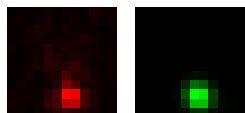
Corresponding bead : Not found

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

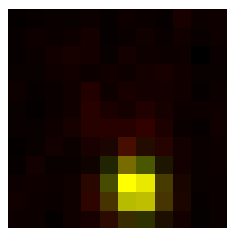
FWHM	Non corrected	Corrected	Theoretical
min	446 nm	464 nm	270 nm
max	491 nm	512 nm	270 nm
z	4.1 μm	4.12 μm	1.3 μm
Asymmetry	0.908		
Theta	-59.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 451.470 (brightness)

B = 125.482 (background)

a = 0.644 px

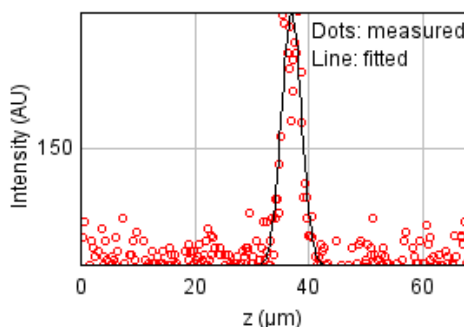
b = -0.052 px

c = 0.587 px

xc = 6.451 px

yc = 9.278 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16943.8004

Standard deviation: 7.42910

R^2 : 0.82496

Parameters:

a = 113.22223

b = 192.33799

c = 37.03973

d = 1.74230

Bead 2075 (Rejected)

Date : Mon Oct 17 13:53:01 PDT 2022

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

Frame size : 12 pixels

Coordinates : -130 μm (x), 46.2 μm (y), 35.3 μm (z)

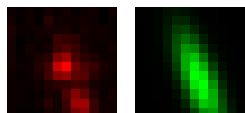
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

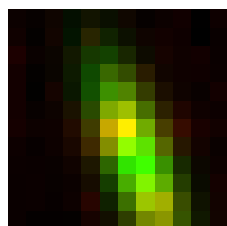
FWHM	Non corrected	Corrected	Theoretical
min	589 nm	613 nm	270 nm
max	1.83 μm	1.9 μm	270 nm
z	4.99 μm	5.01 μm	1.3 μm
Asymmetry	0.322		
Theta	-69.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.764$



Parameters:

A = 196.493 (brightness)

B = 122.476 (background)

a = 0.345 px

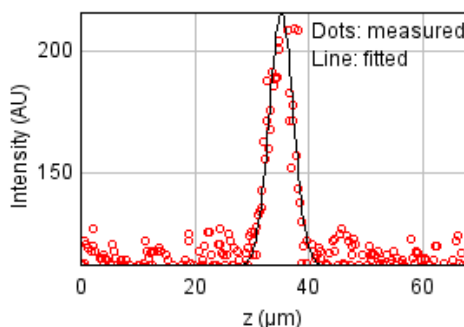
b = -0.113 px

c = 0.082 px

xc = 6.525 px

yc = 7.566 px

Z profile & fitting parameters:



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

Sum of residuals squared: 24823.1983

Standard deviation: 8.99207

R^2 : 0.86957

Parameters:

a = 111.64079

b = 216.06643

c = 35.25348

d = 2.11854

Bead 2076

Date : Mon Oct 17 13:53:01 PDT 2022

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

Frame size : 12 pixels

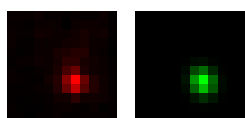
Coordinates : -11.5 μm (x), 44.3 μm (y), 40.2 μm (z)

Corresponding bead : Not found

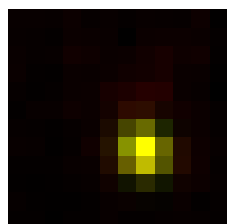
FWHM	Non corrected	Corrected	Theoretical
min	420 nm	437 nm	270 nm
max	485 nm	505 nm	270 nm
z	2.04 μm	2.05 μm	1.3 μm
Asymmetry	0.865		
Theta	-69.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 678.815$ (brightness)

$B = 125.959$ (background)

$a = 0.739$ px

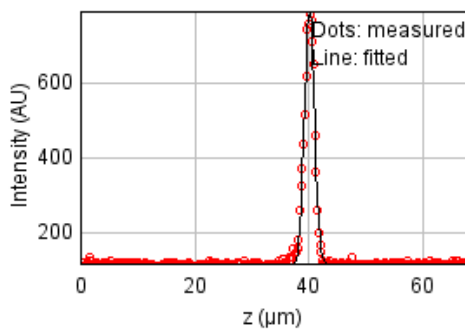
$b = -0.063$ px

$c = 0.594$ px

$x_c = 6.893$ px

$y_c = 7.228$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 31601.9735

Standard deviation: 10.14584

$R^2: 0.98996$

Parameters:

$a = 113.11672$

$b = 797.04000$

$c = 40.18444$

$d = 0.86584$

Bead 2077

Date : Mon Oct 17 13:53:01 PDT 2022

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

Frame size : 12 pixels

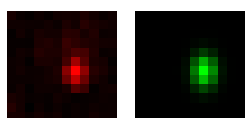
Coordinates : 118 um (x), 38.8 um (y), 39.7 um (z)

Corresponding bead : Not found

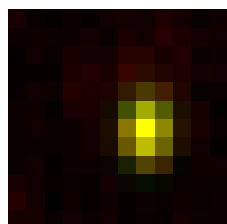
FWHM	Non corrected	Corrected	Theoretical
min	439 nm	457 nm	270 nm
max	617 nm	642 nm	270 nm
z	1.99 um	2.0 um	1.3 um
Asymmetry	0.711		
Theta	89.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 265.735 (brightness)

B = 119.171 (background)

a = 0.698 px

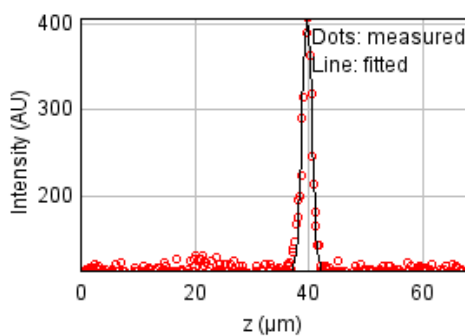
b = 0.002 px

c = 0.353 px

xc = 7.046 px

yc = 6.066 px

Z profile & fitting parameters:



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

Sum of residuals squared: 20646.3320

Standard deviation: 8.20073

R^2 : 0.96496

Parameters:

a = 112.24125

b = 407.53330

c = 39.74631

d = 0.84699

Bead 2078

Date : Mon Oct 17 13:53:01 PDT 2022

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

Frame size : 12 pixels

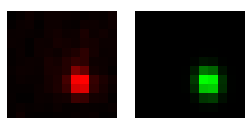
Coordinates : -16.0 μm (x), 12.6 μm (y), 40.0 μm (z)

Corresponding bead : Not found

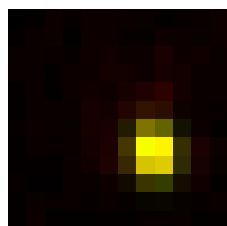
FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	507 nm	528 nm	270 nm
z	2.11 μm	2.12 μm	1.3 μm
Asymmetry	0.809		
Theta	-81.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 587.644 (brightness)

B = 122.610 (background)

a = 0.792 px

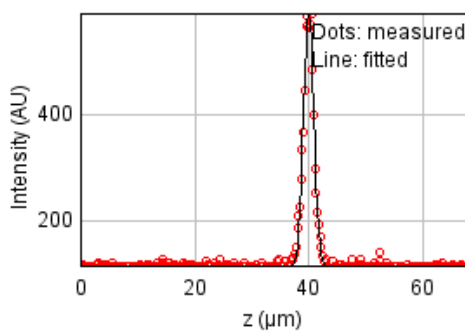
b = -0.043 px

c = 0.530 px

$x_c = 7.485$ px

$y_c = 7.294$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 24722.5683

Standard deviation: 8.97383

R^2 : 0.98456

Parameters:

a = 113.70594

b = 591.90576

c = 40.03953

d = 0.89760

Bead 2079 (Rejected)

Date : Mon Oct 17 13:53:01 PDT 2022

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

Frame size : 12 pixels

Coordinates : 117 um (x), -14.8 um (y), 36.6 um (z)

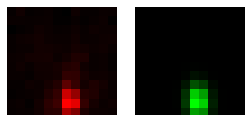
Corresponding bead : Not found

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

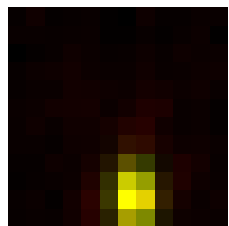
FWHM	Non corrected	Corrected	Theoretical
min	395 nm	411 nm	270 nm
max	617 nm	643 nm	270 nm
z	3.71 um	3.72 um	1.3 um
Asymmetry	0.64		
Theta	-86.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 565.688 (brightness)

B = 124.793 (background)

a = 0.859 px

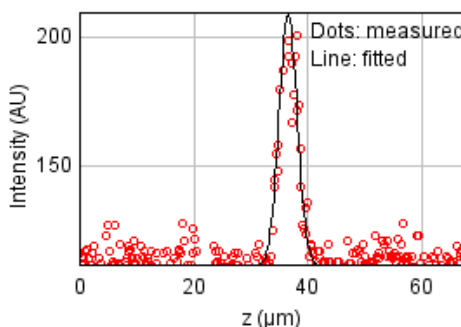
b = -0.030 px

c = 0.354 px

xc = 6.380 px

yc = 9.850 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15755.2801

Standard deviation: 7.16381

R^2 : 0.87685

Parameters:

a = 111.24591

b = 209.40950

c = 36.61552

d = 1.57473

Bead 2080

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

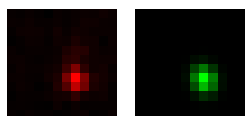
Coordinates : -158 μm (x), -28.5 μm (y), 40.0 μm (z)

Corresponding bead : Not found

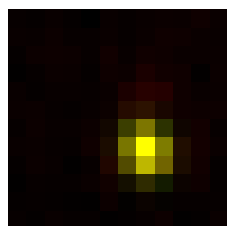
FWHM	Non corrected	Corrected	Theoretical
min	419 nm	436 nm	270 nm
max	501 nm	522 nm	270 nm
z	2.11 μm	2.12 μm	1.3 μm
Asymmetry	0.835		
Theta	-73.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 603.650 (brightness)

B = 118.589 (background)

a = 0.746 px

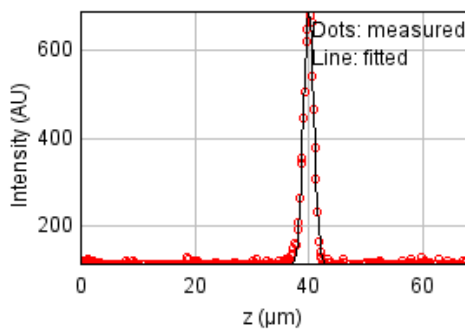
b = -0.064 px

c = 0.554 px

xc = 7.032 px

yc = 7.201 px

Z profile & fitting parameters:



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

Sum of residuals squared: 24956.1115

Standard deviation: 9.01611

R^2 : 0.98928

Parameters:

a = 110.75294

b = 689.64435

c = 40.04519

d = 0.89483

Bead 2081

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

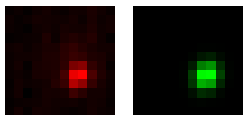
Coordinates : -68.7 μm (x), -49.9 μm (y), 39.7 μm (z)

Corresponding bead : Not found

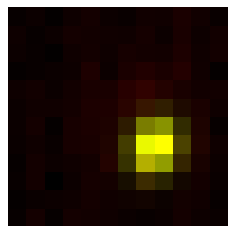
FWHM	Non corrected	Corrected	Theoretical
min	434 nm	453 nm	270 nm
max	520 nm	541 nm	270 nm
z	2.18 μm	2.19 μm	1.3 μm
Asymmetry	0.836		
Theta	70.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 363.074$ (brightness)

$B = 117.024$ (background)

$a = 0.688$ px

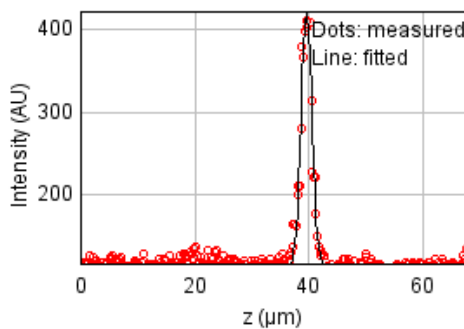
$b = 0.066$ px

$c = 0.520$ px

$x_c = 7.508$ px

$y_c = 7.095$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 26668.0828

Standard deviation: 9.32023

$R^2: 0.96179$

Parameters:

$a = 115.29547$

$b = 422.96381$

$c = 39.67082$

$d = 0.92483$

Bead 2082 (Rejected)

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

Coordinates : -96.2 μm (x), -52.9 μm (y), 47.6 μm (z)

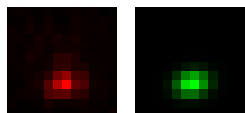
Corresponding bead : Not found

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

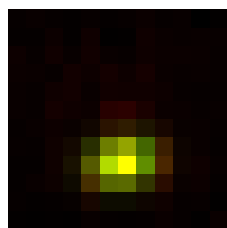
FWHM	Non corrected	Corrected	Theoretical
min	447 nm	465 nm	270 nm
max	612 nm	637 nm	270 nm
z	2.08 μm	2.09 μm	1.3 μm
Asymmetry	0.73		
Theta	10.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 434.469 (brightness)

B = 125.524 (background)

a = 0.369 px

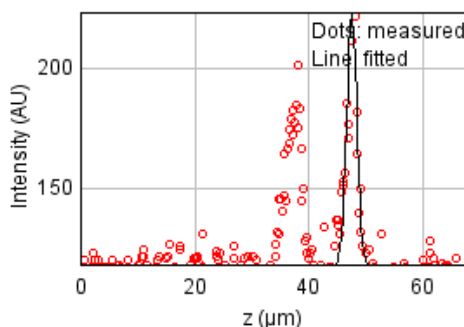
b = 0.058 px

c = 0.661 px

xc = 5.728 px

yc = 7.857 px

Z profile & fitting parameters:



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

Sum of residuals squared: 72359.6750

Standard deviation: 15.35250

R^2 : 0.51357

Parameters:

a = 117.74103

b = 223.73972

c = 47.58580

d = 0.88494

Bead 2083

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

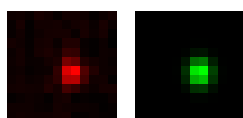
Coordinates : -162 μm (x), -57.6 μm (y), 39.5 μm (z)

Corresponding bead : Not found

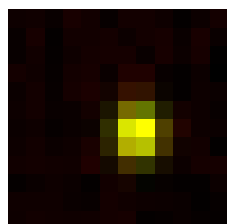
FWHM	Non corrected	Corrected	Theoretical
min	427 nm	444 nm	270 nm
max	505 nm	526 nm	270 nm
z	2.2 μm	2.21 μm	1.3 μm
Asymmetry	0.845		
Theta	-89.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 308.280$ (brightness)

$B = 116.580$ (background)

$a = 0.738$ px

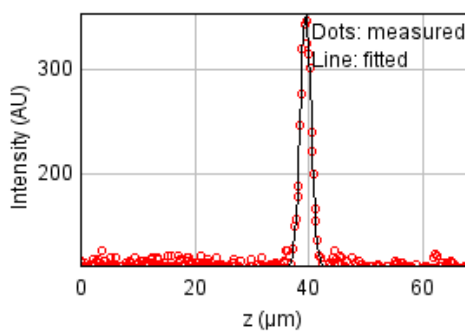
$b = -0.001$ px

$c = 0.527$ px

$x_c = 6.570$ px

$y_c = 6.237$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 13549.6400

Standard deviation: 6.64347

$R^2: 0.96925$

Parameters:

$a = 110.33019$

$b = 354.34797$

$c = 39.51903$

$d = 0.93598$

Bead 2084

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

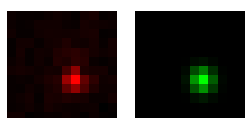
Coordinates : -162 μm (x), -59.7 μm (y), 39.5 μm (z)

Corresponding bead : Not found

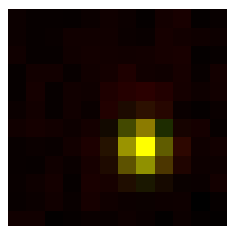
FWHM	Non corrected	Corrected	Theoretical
min	415 nm	432 nm	270 nm
max	457 nm	476 nm	270 nm
z	2.06 μm	2.07 μm	1.3 μm
Asymmetry	0.908		
Theta	-84.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 262.074$ (brightness)

$B = 115.845$ (background)

$a = 0.778$ px

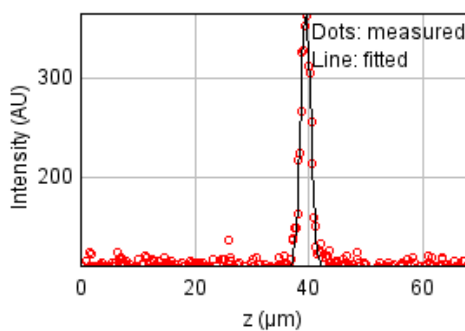
$b = -0.013$ px

$c = 0.644$ px

$x_c = 6.848$ px

$y_c = 7.060$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 14901.7557

Standard deviation: 6.96706

$R^2: 0.96742$

Parameters:

$a = 109.87999$

$b = 366.50938$

$c = 39.52886$

$d = 0.87380$

Bead 2085

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

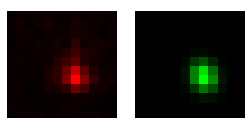
Coordinates : 105 µm (x), -61.0 µm (y), 39.6 µm (z)

Corresponding bead : Not found

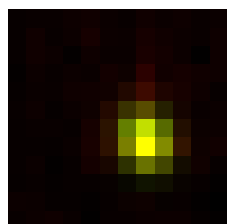
FWHM	Non corrected	Corrected	Theoretical
min	445 nm	464 nm	270 nm
max	547 nm	569 nm	270 nm
z	1.98 µm	1.99 µm	1.3 µm
Asymmetry	0.815		
Theta	-71.5°		

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 = 376.758 (brightness)

B = 118.021 (background)

a = 0.654 px

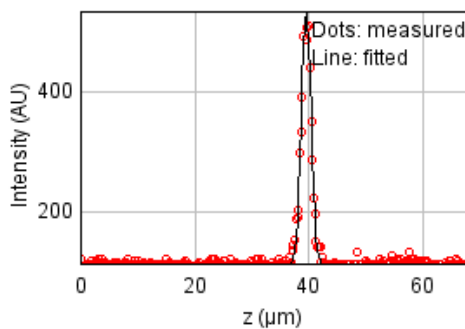
b = -0.069 px

c = 0.472 px

xc = 6.996 px

yc = 6.641 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22820.5406

Standard deviation: 8.62172

R^2 : 0.98070

Parameters:

a = 112.58509

b = 535.52858

c = 39.61456

d = 0.84185

Bead 2086

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

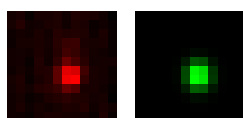
Coordinates : -146 μm (x), -73.7 μm (y), 39.4 μm (z)

Corresponding bead : Not found

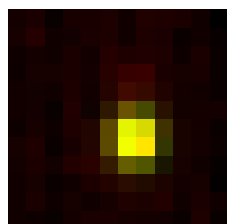
FWHM	Non corrected	Corrected	Theoretical
min	447 nm	465 nm	270 nm
max	509 nm	531 nm	270 nm
z	2.37 μm	2.38 μm	1.3 μm
Asymmetry	0.877		
Theta	-87.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 308.462$ (brightness)

$B = 114.004$ (background)

$a = 0.672$ px

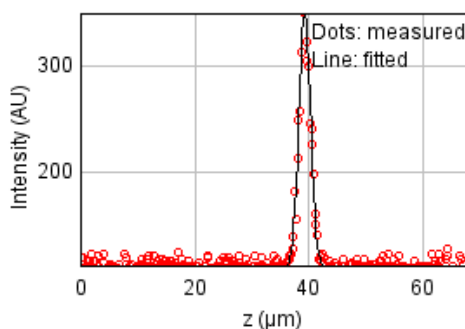
$b = -0.006$ px

$c = 0.517$ px

$x_c = 6.416$ 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: 15199.3200

Standard deviation: 7.03628

$R^2: 0.96629$

Parameters:

$a = 110.95523$

$b = 348.90840$

$c = 39.35273$

$d = 1.00834$

Bead 2087

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

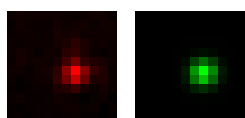
Coordinates : -138 μm (x), -84.6 μm (y), 40.4 μm (z)

Corresponding bead : Not found

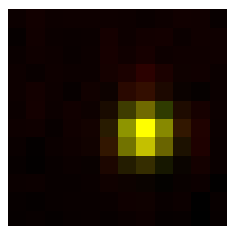
FWHM	Non corrected	Corrected	Theoretical
min	474 nm	494 nm	270 nm
max	486 nm	506 nm	270 nm
z	2.12 μm	2.13 μm	1.3 μm
Asymmetry	0.977		
Theta	44.5°		

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:

$A = 479.887$ (brightness)

$B = 119.411$ (background)

$a = 0.583$ px

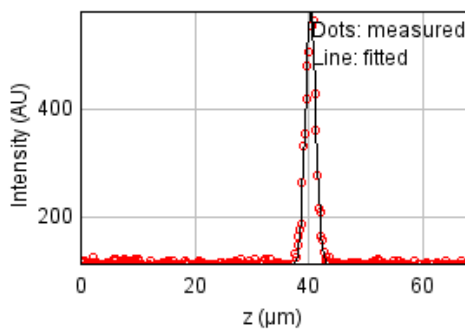
$b = 0.014$ px

$c = 0.583$ px

$x_c = 6.959$ px

$y_c = 6.256$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 21553.9086

Standard deviation: 8.37903

$R^2: 0.98636$

Parameters:

$a = 111.81778$

$b = 586.83284$

$c = 40.37761$

$d = 0.90002$

Bead 2088

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

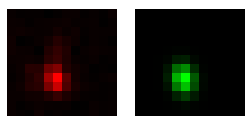
Coordinates : -37.5 μm (x), -87.7 μm (y), 7.31 μm (z)

Corresponding bead : Not found

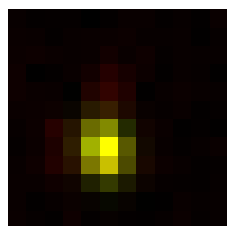
FWHM	Non corrected	Corrected	Theoretical
min	429 nm	447 nm	270 nm
max	552 nm	575 nm	270 nm
z	1.97 μm	1.98 μm	1.3 μm
Asymmetry	0.777		
Theta	-78.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 464.820 (brightness)

B = 120.083 (background)

a = 0.718 px

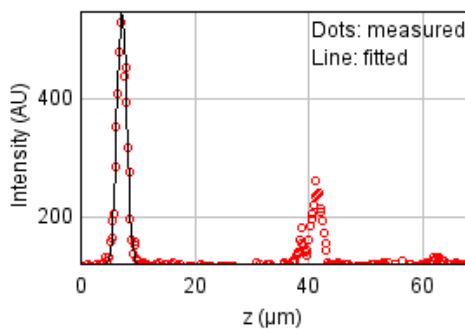
b = -0.056 px

c = 0.451 px

xc = 4.769 px

yc = 7.156 px

Z profile & fitting parameters:



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

Sum of residuals squared: 160539.821

Standard deviation: 22.86768

R^2 : 0.87901

Parameters:

a = 120.74919

b = 545.84219

c = 7.31179

d = 0.83789

Bead 2089

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

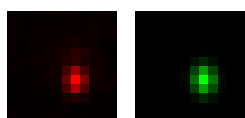
Coordinates : -83.4 μm (x), 86.3 μm (y), 40.5 μm (z)

Corresponding bead : Not found

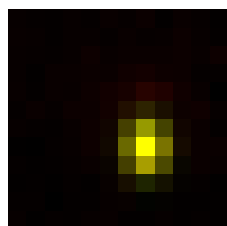
FWHM	Non corrected	Corrected	Theoretical
min	398 nm	414 nm	270 nm
max	521 nm	543 nm	270 nm
z	1.96 μm	1.96 μm	1.3 μm
Asymmetry	0.764		
Theta	-87.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 643.761$ (brightness)

$B = 122.817$ (background)

$a = 0.847$ px

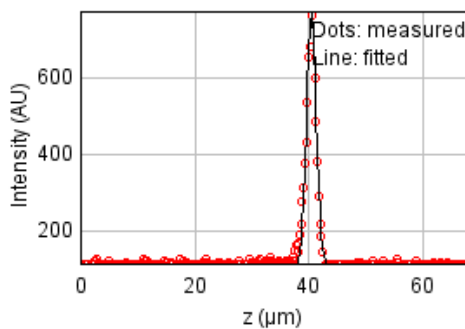
$b = -0.013$ px

$c = 0.495$ px

$x_c = 7.029$ px

$y_c = 7.013$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 49518.8383

Standard deviation: 12.70036

$R^2: 0.98259$

Parameters:

$a = 114.19386$

$b = 774.83708$

$c = 40.52484$

$d = 0.83102$

Bead 2090

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

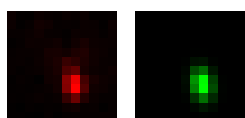
Coordinates : 47.5 μm (x), 74.4 μm (y), 40.6 μm (z)

Corresponding bead : Not found

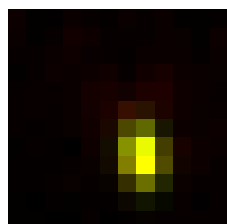
FWHM	Non corrected	Corrected	Theoretical
min	370 nm	385 nm	270 nm
max	569 nm	593 nm	270 nm
z	1.89 μm	1.9 μm	1.3 μm
Asymmetry	0.65		
Theta	-81.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 712.190 (brightness)

B = 127.896 (background)

a = 0.968 px

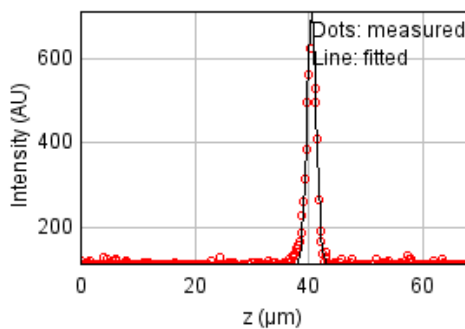
b = -0.085 px

c = 0.427 px

xc = 6.819 px

yc = 7.489 px

Z profile & fitting parameters:



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

Sum of residuals squared: 37131.4316

Standard deviation: 10.99769

R^2 : 0.98366

Parameters:

a = 113.45829

b = 714.09828

c = 40.57260

d = 0.80278

Bead 2091

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

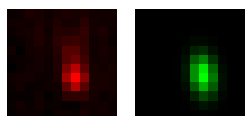
Coordinates : 128 μm (x), 69.3 μm (y), 39.9 μm (z)

Corresponding bead : Not found

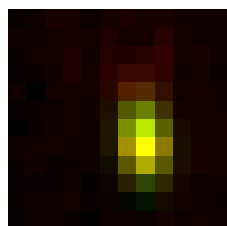
FWHM	Non corrected	Corrected	Theoretical
min	448 nm	467 nm	270 nm
max	745 nm	776 nm	270 nm
z	1.95 μm	1.95 μm	1.3 μm
Asymmetry	0.602		
Theta	-83.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 314.681 (brightness)

B = 119.648 (background)

a = 0.661 px

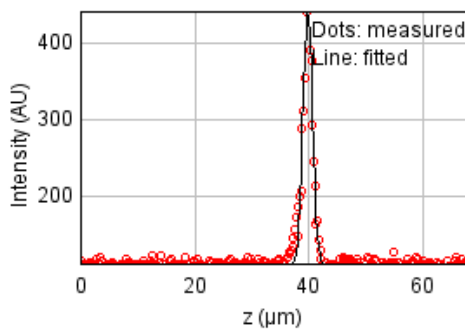
b = -0.051 px

c = 0.248 px

$x_c = 6.911$ px

$y_c = 6.678$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 21346.6821

Standard deviation: 8.33865

$R^2 = 0.96996$

Parameters:

a = 111.70405

b = 440.69107

c = 39.88021

d = 0.82626

Bead 2092 (Rejected)

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

Coordinates : 120 μm (x), 51.1 μm (y), 40.2 μm (z)

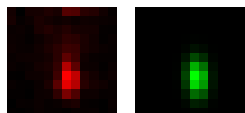
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

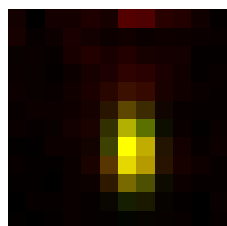
FWHM	Non corrected	Corrected	Theoretical
min	392 nm	409 nm	270 nm
max	707 nm	736 nm	270 nm
z	2.19 μm	2.2 μm	1.3 μm
Asymmetry	0.555		
Theta	-87.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.890$



Parameters:

A = 418.406 (brightness)

B = 126.846 (background)

a = 0.871 px

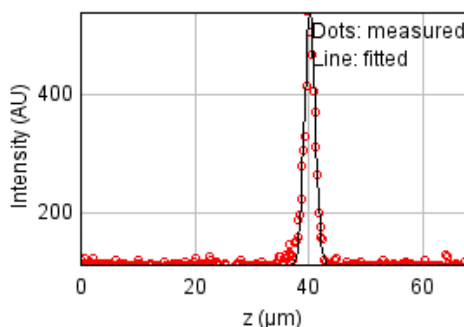
b = -0.029 px

c = 0.270 px

xc = 6.281 px

yc = 7.219 px

Z profile & fitting parameters:



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

Sum of residuals squared: 40976.7973

Standard deviation: 11.55313

R^2 : 0.96903

Parameters:

a = 112.65990

b = 536.76716

c = 40.24996

d = 0.93017

Bead 2093

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

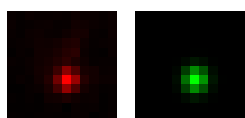
Coordinates : -36.5 μm (x), 38.6 μm (y), 40.6 μm (z)

Corresponding bead : Not found

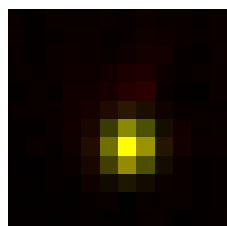
FWHM	Non corrected	Corrected	Theoretical
min	440 nm	458 nm	270 nm
max	469 nm	488 nm	270 nm
z	2.05 μm	2.06 μm	1.3 μm
Asymmetry	0.938		
Theta	83.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 773.145 (brightness)

B = 128.810 (background)

a = 0.692 px

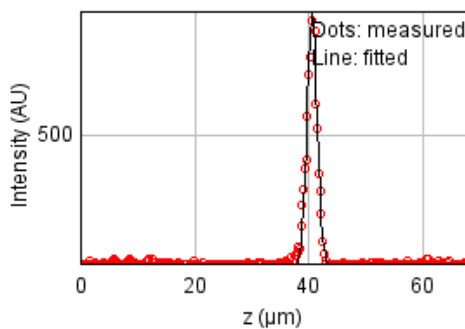
b = 0.009 px

c = 0.611 px

xc = 6.101 px

yc = 7.004 px

Z profile & fitting parameters:



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

Sum of residuals squared: 53642.9953

Standard deviation: 13.21866

R^2 : 0.98605

Parameters:

a = 114.60205

b = 867.64671

c = 40.64888

d = 0.86953

Bead 2094 (Rejected)

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

Coordinates : 33.8 μm (x), 31.5 μm (y), 36.7 μm (z)

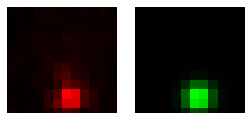
Corresponding bead : Not found

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

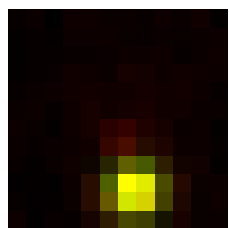
FWHM	Non corrected	Corrected	Theoretical
min	496 nm	516 nm	270 nm
max	506 nm	527 nm	270 nm
z	3.98 μm	4.0 μm	1.3 μm
Asymmetry	0.98		
Theta	27.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 537.489 (brightness)

B = 126.322 (background)

a = 0.529 px

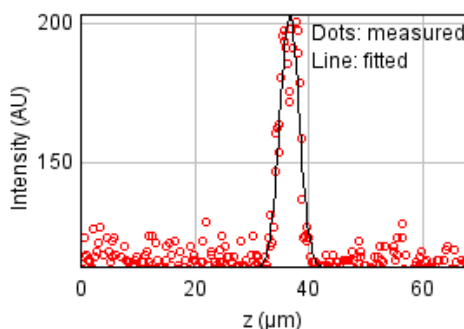
b = 0.009 px

c = 0.541 px

xc = 6.414 px

yc = 9.399 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15012.4695

Standard deviation: 6.99289

R^2 : 0.87354

Parameters:

a = 112.08063

b = 203.44056

c = 36.71200

d = 1.69191

Bead 2095

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

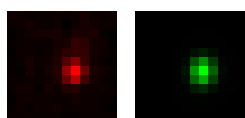
Coordinates : -124 μm (x), 29.1 μm (y), 40.2 μm (z)

Corresponding bead : Not found

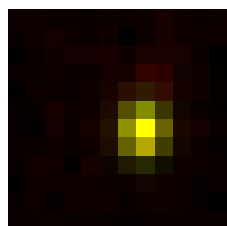
FWHM	Non corrected	Corrected	Theoretical
min	418 nm	435 nm	270 nm
max	512 nm	534 nm	270 nm
z	2.04 μm	2.05 μm	1.3 μm
Asymmetry	0.815		
Theta	87.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 359.050 (brightness)

B = 117.491 (background)

a = 0.769 px

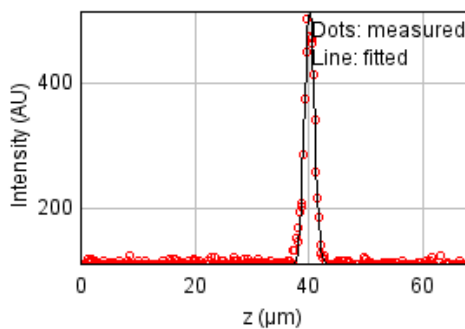
b = 0.012 px

c = 0.512 px

xc = 6.867 px

yc = 6.093 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19331.1045

Standard deviation: 7.93522

R^2 : 0.98241

Parameters:

a = 112.31692

b = 514.54001

c = 40.18864

d = 0.86767

Bead 2096 (Rejected)

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

Coordinates : -6.27 μm (x), 17.0 μm (y), 15.1 μm (z)

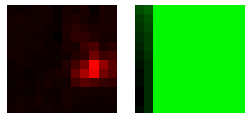
Corresponding bead : Not found

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

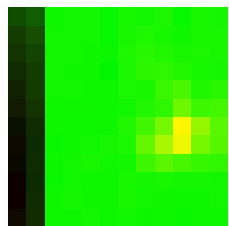
FWHM	Non corrected	Corrected	Theoretical
min	143 nm	149 nm	270 nm
max	6.04 μm	6.29 μm	270 nm
z	3.68 μm	3.7 μm	1.3 μm
Asymmetry	0.024		
Theta	90.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.047$



Parameters:

A = -133.536 (brightness)

B = 137.898 (background)

a = 6.520 px

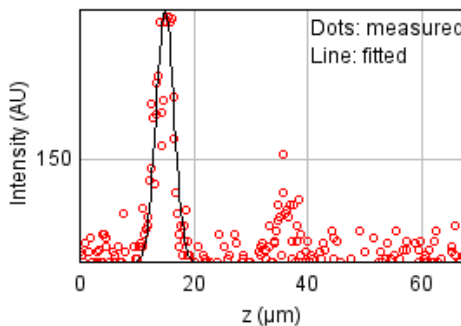
b = 0.005 px

c = 0.004 px

xc = 0.487 px

yc = 9.198 px

Z profile & fitting parameters:



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

Sum of residuals squared: 23078.9083

Standard deviation: 8.67039

R^2 : 0.78174

Parameters:

a = 115.48727

b = 200.02930

c = 15.05731

d = 1.56337

Bead 2097

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

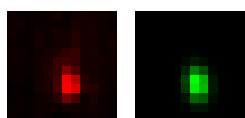
Coordinates : 97.1 μm (x), -7.25 μm (y), 40.5 μm (z)

Corresponding bead : Not found

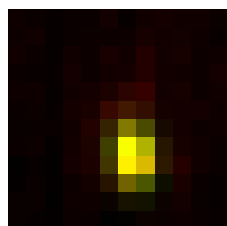
FWHM	Non corrected	Corrected	Theoretical
min	390 nm	407 nm	270 nm
max	579 nm	603 nm	270 nm
z	1.98 μm	1.99 μm	1.3 μm
Asymmetry	0.675		
Theta	-83.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 569.146$ (brightness)

$B = 125.136$ (background)

$a = 0.874$ px

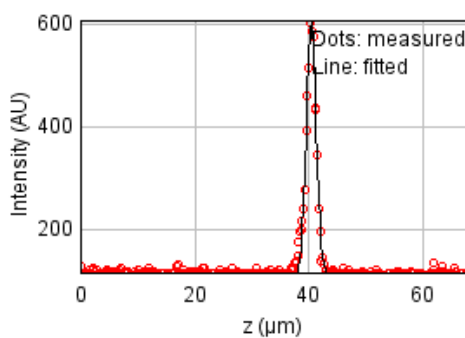
$b = -0.053$ px

$c = 0.407$ px

$x_c = 6.322$ px

$y_c = 7.464$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 28498.7731

Standard deviation: 9.63483

$R^2 = 0.98218$

Parameters:

$a = 113.71805$

$b = 606.26419$

$c = 40.50218$

$d = 0.84068$

Bead 2098

Date : Mon Oct 17 13:53:02 PDT 2022

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

Frame size : 12 pixels

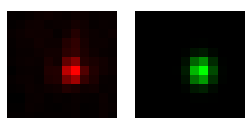
Coordinates : -84.5 μm (x), -23.9 μm (y), 40.7 μm (z)

Corresponding bead : Not found

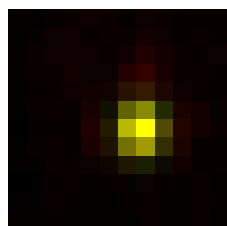
FWHM	Non corrected	Corrected	Theoretical
min	413 nm	430 nm	270 nm
max	494 nm	515 nm	270 nm
z	2.14 μm	2.15 μm	1.3 μm
Asymmetry	0.836		
Theta	88.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 698.574 (brightness)

B = 128.047 (background)

a = 0.786 px

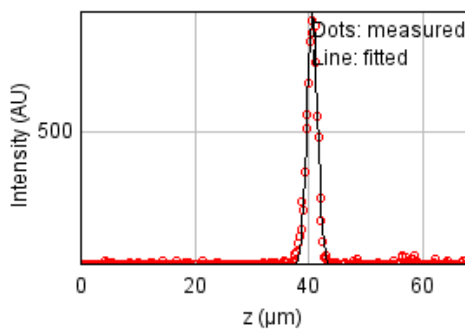
b = 0.005 px

c = 0.550 px

xc = 6.710 px

yc = 6.050 px

Z profile & fitting parameters:



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

Sum of residuals squared: 51476.6505

Standard deviation: 12.94899

R^2 : 0.98658

Parameters:

a = 114.46463

b = 851.70046

c = 40.67566

d = 0.90750

Bead 2099 (Rejected)

Date : Mon Oct 17 13:53:03 PDT 2022

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

Frame size : 12 pixels

Coordinates : -54.8 μm (x), -75.6 μm (y), 40.5 μm (z)

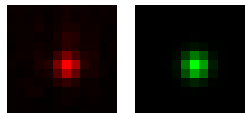
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

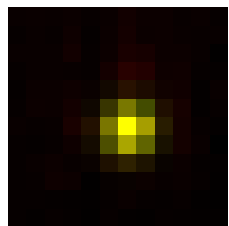
FWHM	Non corrected	Corrected	Theoretical
min	460 nm	479 nm	270 nm
max	478 nm	497 nm	270 nm
z	1.92 μm	1.92 μm	1.3 μm
Asymmetry	0.963		
Theta	68.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 575.964 (brightness)

B = 122.275 (background)

a = 0.628 px

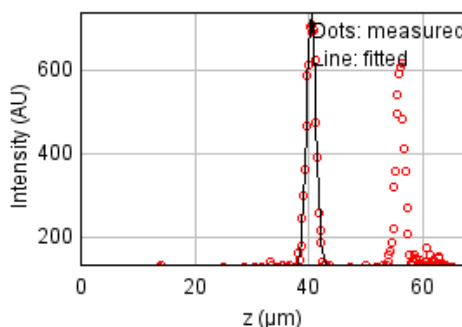
b = 0.016 px

c = 0.595 px

xc = 6.113 px

yc = 6.135 px

Z profile & fitting parameters:



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

Sum of residuals squared: 1460945.28

Standard deviation: 68.98391

R^2 : 0.61047

Parameters:

a = 132.00817

b = 735.98070

c = 40.50242

d = 0.81370

Bead 2100

Date : Mon Oct 17 13:53:03 PDT 2022

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

Frame size : 12 pixels

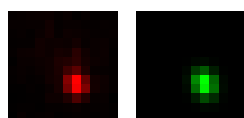
Coordinates : -44.7 μm (x), 78.6 μm (y), 40.9 μm (z)

Corresponding bead : Not found

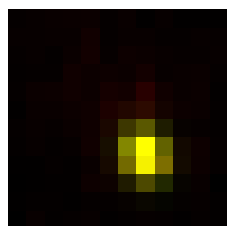
FWHM	Non corrected	Corrected	Theoretical
min	402 nm	419 nm	270 nm
max	501 nm	522 nm	270 nm
z	1.87 μm	1.88 μm	1.3 μm
Asymmetry	0.803		
Theta	-71.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 913.545 (brightness)

B = 130.140 (background)

a = 0.799 px

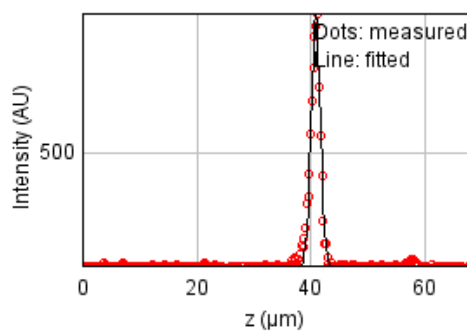
b = -0.088 px

c = 0.564 px

xc = 6.950 px

yc = 7.439 px

Z profile & fitting parameters:



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

Sum of residuals squared: 76621.7512

Standard deviation: 15.79817

R^2 : 0.98357

Parameters:

a = 115.40589

b = 979.78598

c = 40.93189

d = 0.79494