

Bead 2001

Date : Mon Oct 17 13:29:19 PDT 2022

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

Frame size : 10 pixels

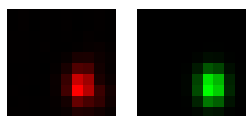
Coordinates : 14.8 μm (x), -21.9 μm (y), 44.9 μm (z)

Corresponding bead : Not found

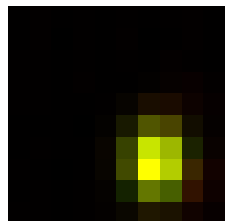
FWHM	Non corrected	Corrected	Theoretical
min	428 nm	442 nm	223 nm
max	553 nm	571 nm	223 nm
z	1.34 μm	1.35 μm	885 nm
Asymmetry	0.774		
Theta	90.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1709.829 (brightness)

B = 124.381 (background)

a = 0.734 px

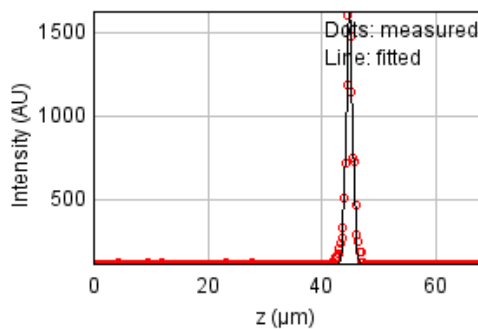
b = 0.000 px

c = 0.440 px

$x_c = 6.347$ px

$y_c = 6.624$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 187999.028

Standard deviation: 24.74621

R^2 : 0.98191

Parameters:

a = 115.37916

b = 1628.24397

c = 44.89548

d = 0.57029

Bead 2002

Date : Mon Oct 17 13:29:19 PDT 2022

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

Frame size : 10 pixels

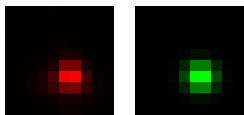
Coordinates : -52.9 μm (x), -23.1 μm (y), 45.1 μm (z)

Corresponding bead : Not found

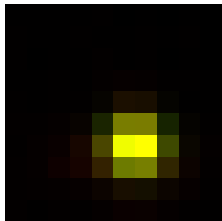
FWHM	Non corrected	Corrected	Theoretical
min	433 nm	448 nm	223 nm
max	460 nm	476 nm	223 nm
z	1.35 μm	1.35 μm	885 nm
Asymmetry	0.941		
Theta	-7.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2803.618 (brightness)

B = 136.460 (background)

a = 0.634 px

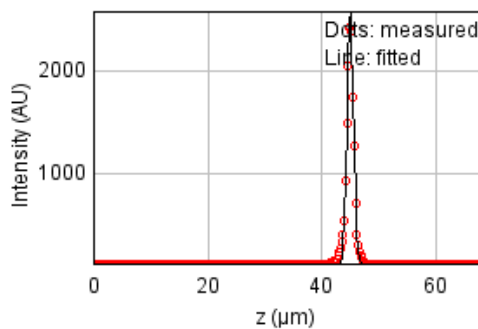
b = -0.011 px

c = 0.713 px

$x_c = 5.510$ px

$y_c = 6.001$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 139638.291

Standard deviation: 21.32716

R^2 : 0.99493

Parameters:

a = 116.38766

b = 2592.48281

c = 45.05051

d = 0.57222

Bead 2003

Date : Mon Oct 17 13:29:19 PDT 2022

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

Frame size : 10 pixels

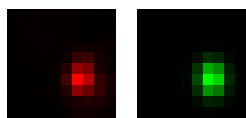
Coordinates : 58.6 μm (x), -30.6 μm (y), 44.7 μm (z)

Corresponding bead : Not found

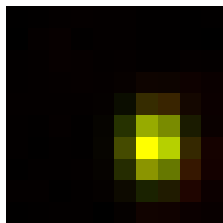
FWHM	Non corrected	Corrected	Theoretical
min	432 nm	447 nm	223 nm
max	533 nm	551 nm	223 nm
z	1.33 μm	1.34 μm	885 nm
Asymmetry	0.812		
Theta	89.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1270.111$ (brightness)

$B = 136.060$ (background)

$a = 0.718$ px

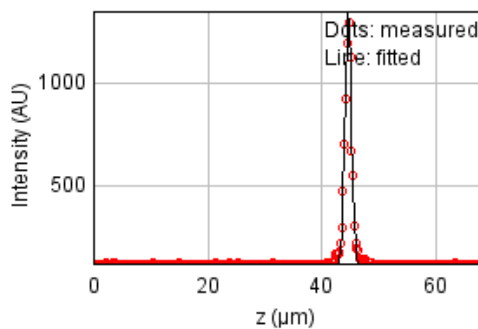
$b = 0.001$ px

$c = 0.473$ px

$x_c = 6.355$ px

$y_c = 5.925$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 59435.4262

Standard deviation: 13.91405

$R^2: 0.99130$

Parameters:

$a = 114.96119$

$b = 1351.39207$

$c = 44.69479$

$d = 0.56652$

Bead 2004 (Rejected)

Date : Mon Oct 17 13:29:19 PDT 2022

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

Frame size : 10 pixels

Coordinates : 38.2 μm (x), -89.9 μm (y), 44.3 μm (z)

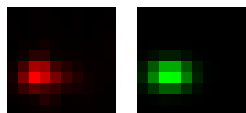
Corresponding bead : Not found

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

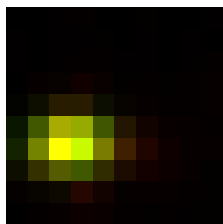
FWHM	Non corrected	Corrected	Theoretical
min	434 nm	448 nm	223 nm
max	628 nm	649 nm	223 nm
z	2.47 μm	2.48 μm	885 nm
Asymmetry	0.691		
Theta	1.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1476.415 (brightness)

B = 134.773 (background)

a = 0.341 px

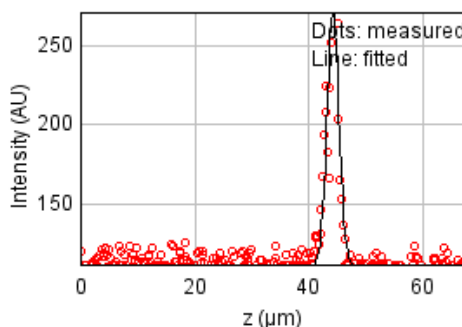
b = 0.007 px

c = 0.713 px

xc = 2.473 px

yc = 5.774 px

Z profile & fitting parameters:



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

Sum of residuals squared: 27979.8504

Standard deviation: 9.54671

R^2 : 0.87772

Parameters:

a = 111.97672

b = 270.62706

c = 44.29520

d = 1.04788

Bead 2005

Date : Mon Oct 17 13:29:20 PDT 2022

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

Frame size : 10 pixels

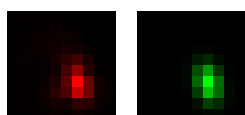
Coordinates : -102 μm (x), 78.9 μm (y), 44.9 μm (z)

Corresponding bead : Not found

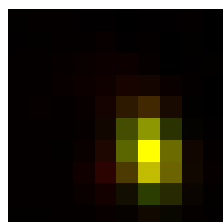
FWHM	Non corrected	Corrected	Theoretical
min	381 nm	394 nm	223 nm
max	590 nm	610 nm	223 nm
z	1.2 μm	1.2 μm	885 nm
Asymmetry	0.646		
Theta	-77.0°		

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 = 1391.430 (brightness)

B = 137.069 (background)

a = 0.897 px

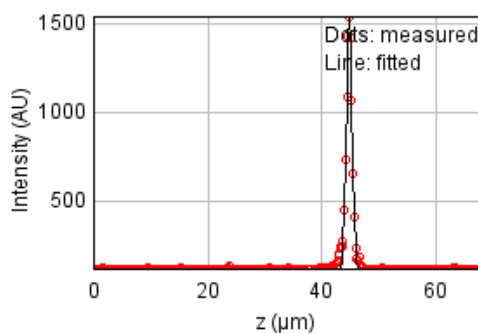
b = -0.118 px

c = 0.413 px

$x_c = 6.032$ px

$y_c = 6.137$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 65380.1183

Standard deviation: 14.59331

R^2 : 0.99206

Parameters:

a = 115.02748

b = 1544.86191

c = 44.86401

d = 0.50933

Bead 2006

Date : Mon Oct 17 13:29:20 PDT 2022

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

Frame size : 10 pixels

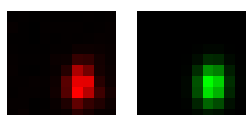
Coordinates : -2.56 μm (x), 22.4 μm (y), 44.8 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	448 nm	463 nm	223 nm
max	628 nm	649 nm	223 nm
z	1.33 μm	1.33 μm	885 nm
Asymmetry	0.713		
Theta	85.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1413.979 (brightness)

B = 121.083 (background)

a = 0.668 px

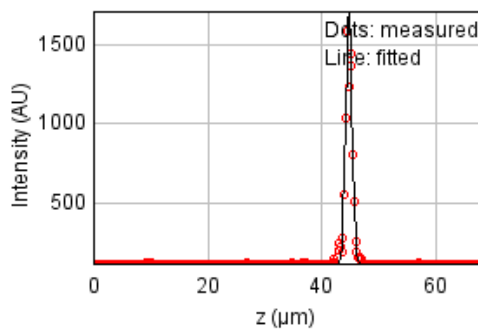
b = 0.025 px

c = 0.342 px

xc = 6.345 px

yc = 6.297 px

Z profile & fitting parameters:



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

Sum of residuals squared: 495270.866

Standard deviation: 40.16541

R^2 : 0.95826

Parameters:

a = 114.68248

b = 1722.18955

c = 44.80250

d = 0.56268

Bead 2007

Date : Mon Oct 17 13:29:20 PDT 2022

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

Frame size : 10 pixels

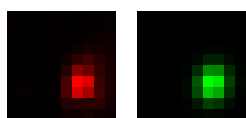
Coordinates : 85.0 um (x), 12.9 um (y), 45.1 um (z)

Corresponding bead : Not found

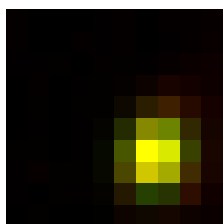
FWHM	Non corrected	Corrected	Theoretical
min	474 nm	490 nm	223 nm
max	556 nm	575 nm	223 nm
z	1.44 um	1.45 um	885 nm
Asymmetry	0.852		
Theta	78.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1123.165 (brightness)

B = 125.995 (background)

a = 0.592 px

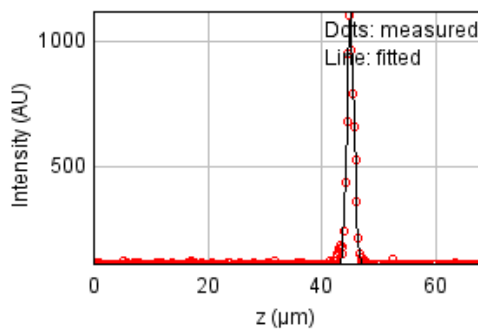
b = 0.031 px

c = 0.440 px

xc = 6.411 px

yc = 6.184 px

Z profile & fitting parameters:



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

Sum of residuals squared: 62482.8755

Standard deviation: 14.26630

R^2 : 0.98727

Parameters:

a = 112.89616

b = 1120.09149

c = 45.08692

d = 0.61259

Bead 2008

Date : Mon Oct 17 13:29:20 PDT 2022

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

Frame size : 10 pixels

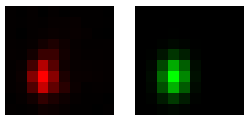
Coordinates : 47.5 μm (x), -2.64 μm (y), 62.7 μm (z)

Corresponding bead : Not found

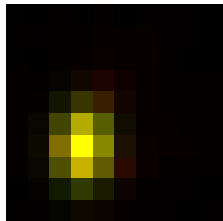
FWHM	Non corrected	Corrected	Theoretical
min	425 nm	439 nm	223 nm
max	590 nm	610 nm	223 nm
z	1.3 μm	1.3 μm	885 nm
Asymmetry	0.721		
Theta	86.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1329.998$ (brightness)

$B = 126.117$ (background)

$a = 0.741$ px

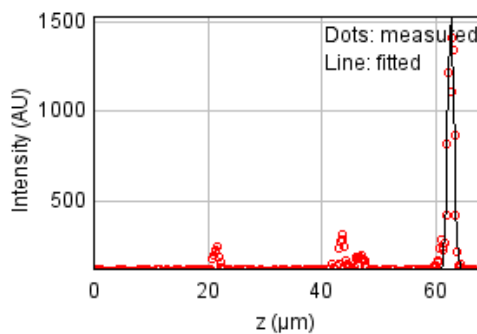
$b = 0.021$ px

$c = 0.387$ px

$x_c = 3.068$ px

$y_c = 6.020$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 554022.630

Standard deviation: 42.48098

$R^2: 0.93868$

Parameters:

$a = 122.79762$

$b = 1525.57839$

$c = 62.67595$

$d = 0.55080$

Bead 2009

Date : Mon Oct 17 13:29:20 PDT 2022

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

Frame size : 10 pixels

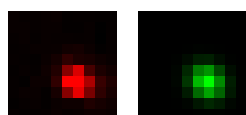
Coordinates : 117 μm (x), -69.5 μm (y), 44.8 μm (z)

Corresponding bead : Not found

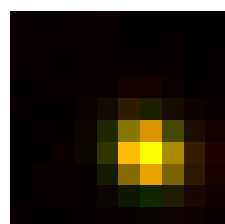
FWHM	Non corrected	Corrected	Theoretical
min	494 nm	511 nm	223 nm
max	565 nm	584 nm	223 nm
z	1.63 μm	1.64 μm	885 nm
Asymmetry	0.875		
Theta	-38.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 836.900 (brightness)

B = 115.448 (background)

a = 0.471 px

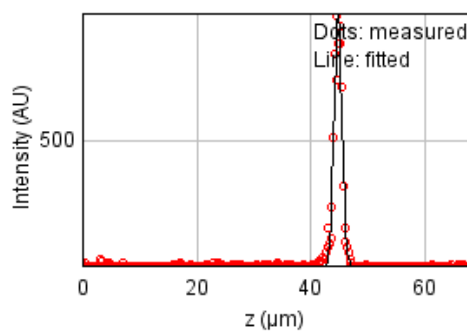
b = -0.063 px

c = 0.499 px

$x_c = 5.847$ px

$y_c = 6.034$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 102984.749

Standard deviation: 18.31544

R^2 : 0.96972

Parameters:

a = 112.34530

b = 895.08250

c = 44.83785

d = 0.69325

Bead 2010

Date : Mon Oct 17 13:29:20 PDT 2022

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

Frame size : 10 pixels

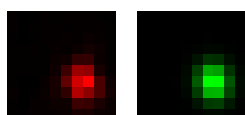
Coordinates : -13.8 μm (x), -75.7 μm (y), 44.4 μm (z)

Corresponding bead : Not found

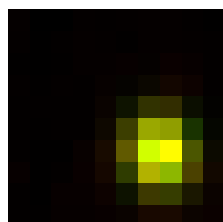
FWHM	Non corrected	Corrected	Theoretical
min	501 nm	518 nm	223 nm
max	588 nm	608 nm	223 nm
z	1.44 μm	1.44 μm	885 nm
Asymmetry	0.852		
Theta	-81.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 902.082 (brightness)

B = 117.372 (background)

a = 0.531 px

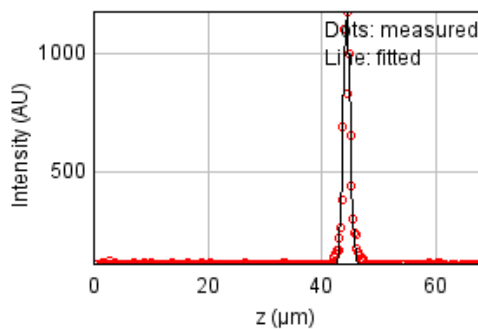
b = -0.022 px

c = 0.392 px

$x_c = 6.488$ px

$y_c = 6.066$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 238762.055

Standard deviation: 27.88775

R^2 : 0.95739

Parameters:

a = 115.00093

b = 1177.02932

c = 44.42509

d = 0.60979

Bead 2011

Date : Mon Oct 17 13:29:20 PDT 2022

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

Frame size : 10 pixels

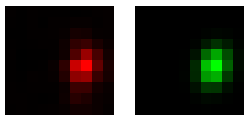
Coordinates : -11.9 μm (x), -84.5 μm (y), 44.5 μm (z)

Corresponding bead : Not found

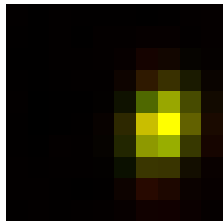
FWHM	Non corrected	Corrected	Theoretical
min	450 nm	466 nm	223 nm
max	595 nm	615 nm	223 nm
z	1.09 μm	1.09 μm	885 nm
Asymmetry	0.757		
Theta	71.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1537.138 (brightness)

B = 129.729 (background)

a = 0.632 px

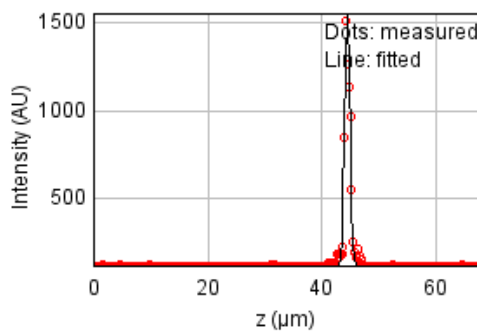
b = 0.086 px

c = 0.408 px

$x_c = 6.726$ px

$y_c = 5.083$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 314358.033

Standard deviation: 31.99949

R^2 : 0.96129

Parameters:

a = 115.83353

b = 1580.32789

c = 44.53664

d = 0.46298

Bead 2012 (Rejected)

Date : Mon Oct 17 13:29:20 PDT 2022

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

Frame size : 10 pixels

Coordinates : -61.6 μm (x), 88.5 μm (y), 43.4 μm (z)

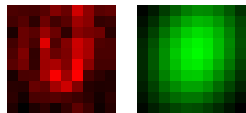
Corresponding bead : Not found

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

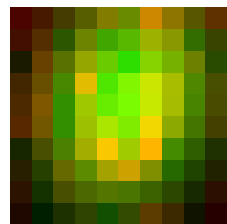
FWHM	Non corrected	Corrected	Theoretical
min	1.48 μm	1.53 μm	223 nm
max	1.97 μm	2.04 μm	223 nm
z	1.17 μm	1.18 μm	885 nm
Asymmetry	0.753		
Theta	73.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.489$



Parameters:

A = 73.945 (brightness)

B = 111.941 (background)

a = 0.059 px

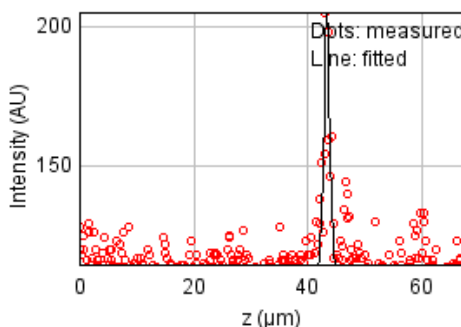
b = 0.007 px

c = 0.037 px

xc = 4.913 px

yc = 3.760 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18589.4973

Standard deviation: 7.78152

R^2 : 0.62919

Parameters:

a = 115.10301

b = 204.86628

c = 43.37446

d = 0.49893

Bead 2013

Date : Mon Oct 17 13:29:21 PDT 2022

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

Frame size : 10 pixels

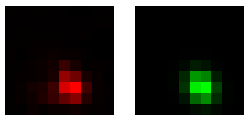
Coordinates : -88.8 μm (x), 51.3 μm (y), 45.4 μm (z)

Corresponding bead : Not found

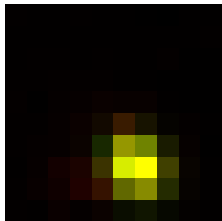
FWHM	Non corrected	Corrected	Theoretical
min	409 nm	423 nm	223 nm
max	486 nm	503 nm	223 nm
z	1.56 μm	1.57 μm	885 nm
Asymmetry	0.842		
Theta	-56.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1594.292 (brightness)

B = 130.109 (background)

a = 0.730 px

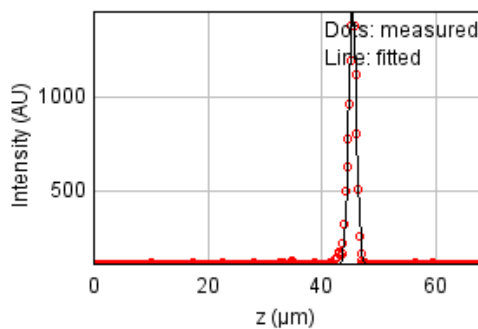
b = -0.107 px

c = 0.639 px

$x_c = 5.544$ px

$y_c = 6.945$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 133458.077

Standard deviation: 20.84986

R^2 : 0.98606

Parameters:

a = 113.89652

b = 1466.07488

c = 45.43679

d = 0.66394

Bead 2014

Date : Mon Oct 17 13:29:21 PDT 2022

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

Frame size : 10 pixels

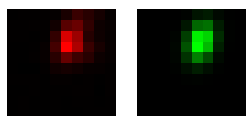
Coordinates : 42.1 μm (x), 48.7 μm (y), 58.6 μm (z)

Corresponding bead : Not found

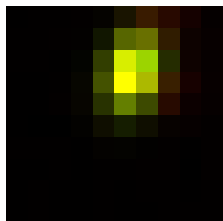
FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	612 nm	633 nm	223 nm
z	1.48 μm	1.48 μm	885 nm
Asymmetry	0.686		
Theta	74.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1915.591 (brightness)

B = 130.977 (background)

a = 0.731 px

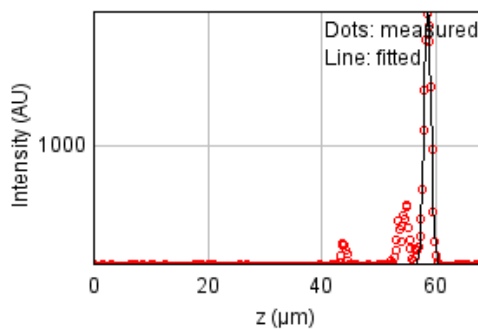
b = 0.104 px

c = 0.387 px

xc = 5.349 px

yc = 2.501 px

Z profile & fitting parameters:



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

Sum of residuals squared: 1379620.37

Standard deviation: 67.03639

R^2 : 0.92592

Parameters:

a = 132.15013

b = 2010.14484

c = 58.59799

d = 0.62749

Bead 2015

Date : Mon Oct 17 13:29:21 PDT 2022

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

Frame size : 10 pixels

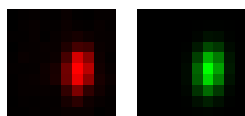
Coordinates : -36.7 μm (x), 45.7 μm (y), 44.9 μm (z)

Corresponding bead : Not found

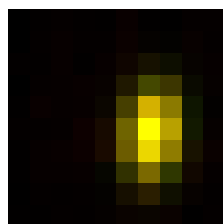
FWHM	Non corrected	Corrected	Theoretical
min	436 nm	451 nm	223 nm
max	711 nm	735 nm	223 nm
z	1.17 μm	1.17 μm	885 nm
Asymmetry	0.614		
Theta	84.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1027.304$ (brightness)

$B = 117.048$ (background)

$a = 0.700$ px

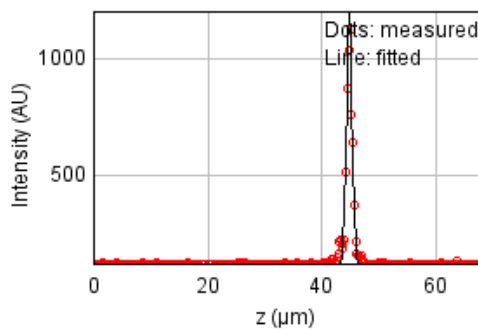
$b = 0.045$ px

$c = 0.270$ px

$x_c = 6.161$ px

$y_c = 5.151$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 144440.570

Standard deviation: 21.69079

$R^2: 0.96982$

Parameters:

$a = 115.00439$

$b = 1206.41873$

$c = 44.87874$

$d = 0.49654$

Bead 2016

Date : Mon Oct 17 13:29:21 PDT 2022

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

Frame size : 10 pixels

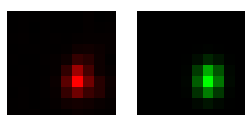
Coordinates : 20.5 μm (x), 35.2 μm (y), 45.5 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	386 nm	400 nm	223 nm
max	490 nm	507 nm	223 nm
z	1.23 μm	1.23 μm	885 nm
Asymmetry	0.788		
Theta	85.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1805.575 (brightness)

B = 131.503 (background)

a = 0.896 px

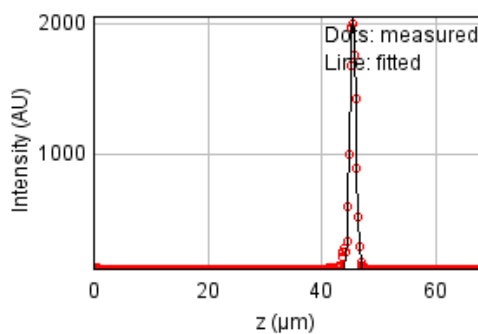
b = 0.026 px

c = 0.560 px

$x_c = 6.073$ px

$y_c = 5.861$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 92633.2167

Standard deviation: 17.37057

R^2 : 0.99403

Parameters:

a = 115.15328

b = 2056.62601

c = 45.49376

d = 0.52213

Bead 2017

Date : Mon Oct 17 13:29:21 PDT 2022

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

Frame size : 10 pixels

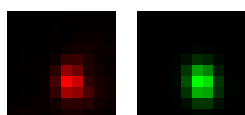
Coordinates : 43.0 μm (x), 10.5 μm (y), 45.4 μm (z)

Corresponding bead : Not found

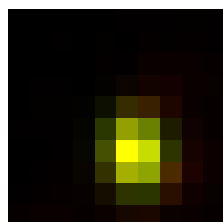
FWHM	Non corrected	Corrected	Theoretical
min	450 nm	465 nm	223 nm
max	570 nm	589 nm	223 nm
z	1.53 μm	1.54 μm	885 nm
Asymmetry	0.789		
Theta	-79.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1418.836$ (brightness)

$B = 136.825$ (background)

$a = 0.655$ px

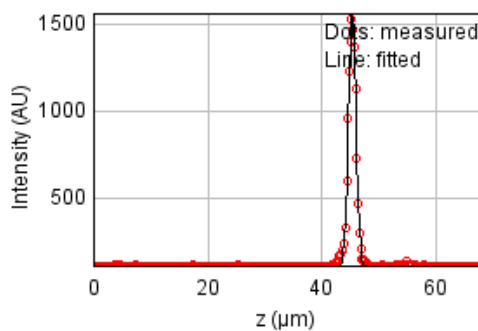
$b = -0.044$ px

$c = 0.421$ px

$x_c = 5.396$ px

$y_c = 6.089$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 56957.7593

Standard deviation: 13.62095

$R^2: 0.99465$

Parameters:

$a = 114.92631$

$b = 1561.15699$

$c = 45.37690$

$d = 0.65085$

Bead 2018

Date : Mon Oct 17 13:29:21 PDT 2022

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

Frame size : 10 pixels

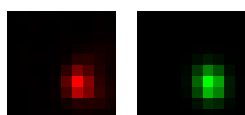
Coordinates : 82.8 μm (x), -6.42 μm (y), 45.6 μm (z)

Corresponding bead : Not found

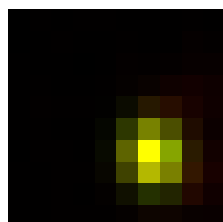
FWHM	Non corrected	Corrected	Theoretical
min	439 nm	454 nm	223 nm
max	521 nm	538 nm	223 nm
z	1.4 μm	1.41 μm	885 nm
Asymmetry	0.843		
Theta	-78.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2071.090 (brightness)

B = 139.604 (background)

a = 0.688 px

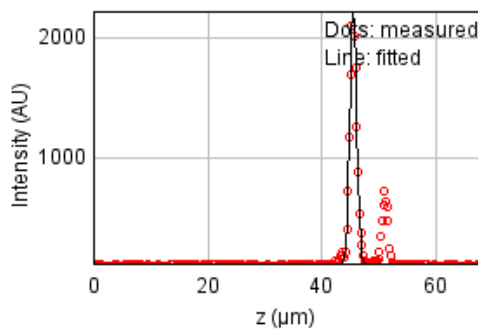
b = -0.039 px

c = 0.503 px

$x_c = 6.193$ px

$y_c = 6.186$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 1625208.70

Standard deviation: 72.75878

R^2 : 0.92559

Parameters:

a = 129.44383

b = 2216.73176

c = 45.56653

d = 0.59441

Bead 2019

Date : Mon Oct 17 13:29:21 PDT 2022

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

Frame size : 10 pixels

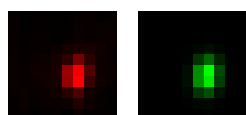
Coordinates : -146 μm (x), -16.8 μm (y), 44.7 μm (z)

Corresponding bead : Not found

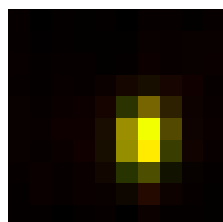
FWHM	Non corrected	Corrected	Theoretical
min	381 nm	394 nm	223 nm
max	516 nm	533 nm	223 nm
z	1.38 μm	1.39 μm	885 nm
Asymmetry	0.738		
Theta	83.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 849.972 (brightness)

B = 120.358 (background)

a = 0.921 px

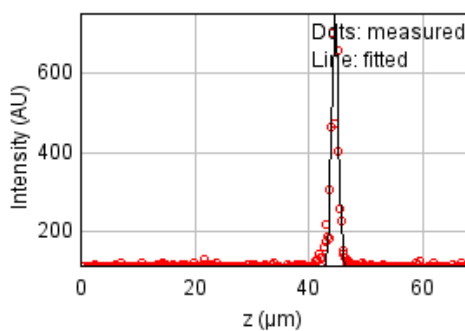
b = 0.047 px

c = 0.510 px

xc = 5.798 px

yc = 5.434 px

Z profile & fitting parameters:



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

Sum of residuals squared: 113271.989

Standard deviation: 19.20844

R^2 : 0.94315

Parameters:

a = 111.68286

b = 752.34549

c = 44.66537

d = 0.58629

Bead 2020

Date : Mon Oct 17 13:29:22 PDT 2022

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

Frame size : 10 pixels

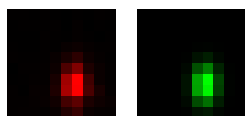
Coordinates : -23.6 μm (x), -50.0 μm (y), 44.8 μm (z)

Corresponding bead : Not found

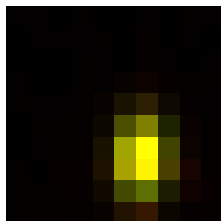
FWHM	Non corrected	Corrected	Theoretical
min	390 nm	403 nm	223 nm
max	600 nm	620 nm	223 nm
z	1.09 μm	1.1 μm	885 nm
Asymmetry	0.65		
Theta	88.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1830.738 (brightness)

B = 127.884 (background)

a = 0.883 px

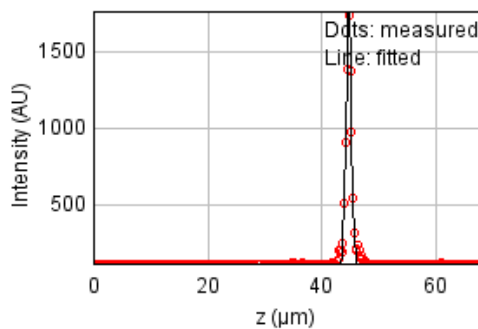
b = 0.016 px

c = 0.374 px

xc = 5.745 px

yc = 6.449 px

Z profile & fitting parameters:



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

Sum of residuals squared: 87282.3236

Standard deviation: 16.86141

R^2 : 0.99162

Parameters:

a = 115.42831

b = 1797.03647

c = 44.77651

d = 0.46483

Bead 2021

Date : Mon Oct 17 13:29:22 PDT 2022

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

Frame size : 10 pixels

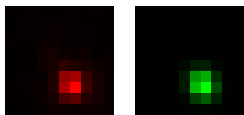
Coordinates : 148 um (x), -60.9 um (y), 45.0 um (z)

Corresponding bead : Not found

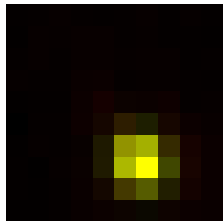
FWHM	Non corrected	Corrected	Theoretical
min	398 nm	412 nm	223 nm
max	452 nm	467 nm	223 nm
z	1.25 um	1.26 um	885 nm
Asymmetry	0.881		
Theta	-62.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1110.032 (brightness)

B = 122.975 (background)

a = 0.805 px

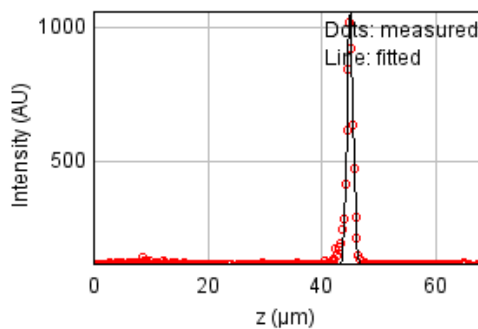
b = -0.078 px

c = 0.698 px

$x_c = 5.679$ px

$y_c = 6.734$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 62904.0639

Standard deviation: 14.31430

R^2 : 0.98388

Parameters:

a = 113.78009

b = 1073.24438

c = 45.01551

d = 0.53264

Bead 2022

Date : Mon Oct 17 13:29:22 PDT 2022

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

Frame size : 10 pixels

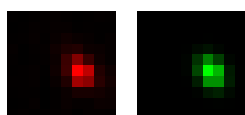
Coordinates : 137 μm (x), -70.0 μm (y), 44.9 μm (z)

Corresponding bead : Not found

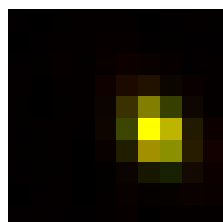
FWHM	Non corrected	Corrected	Theoretical
min	381 nm	394 nm	223 nm
max	501 nm	518 nm	223 nm
z	1.24 μm	1.24 μm	885 nm
Asymmetry	0.759		
Theta	-58.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1154.108 (brightness)

B = 120.783 (background)

a = 0.822 px

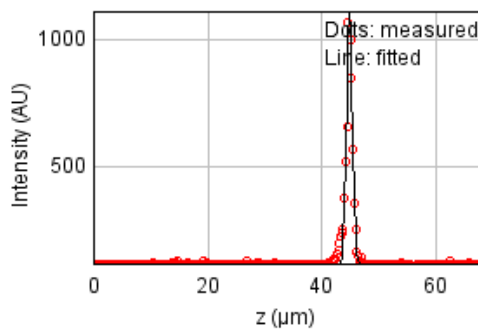
b = -0.173 px

c = 0.638 px

$x_c = 6.318$ px

$y_c = 5.137$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 76416.9574

Standard deviation: 15.77705

R^2 : 0.98189

Parameters:

a = 111.16958

b = 1114.33377

c = 44.90358

d = 0.52554

Bead 2023

Date : Mon Oct 17 13:29:22 PDT 2022

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

Frame size : 10 pixels

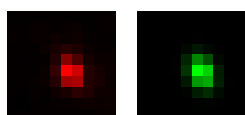
Coordinates : 133 μm (x), -83.2 μm (y), 44.9 μm (z)

Corresponding bead : Not found

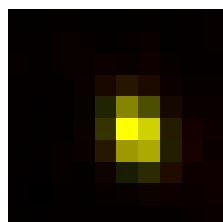
FWHM	Non corrected	Corrected	Theoretical
min	373 nm	385 nm	223 nm
max	508 nm	525 nm	223 nm
z	1.25 μm	1.26 μm	885 nm
Asymmetry	0.734		
Theta	-67.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1312.833$ (brightness)

$B = 126.589$ (background)

$a = 0.902$ px

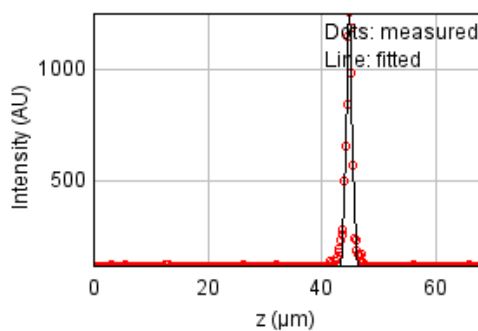
$b = -0.155$ px

$c = 0.584$ px

$x_c = 5.416$ px

$y_c = 5.171$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 101441.546

Standard deviation: 18.17769

$R^2: 0.98165$

Parameters:

$a = 112.58922$

$b = 1254.15671$

$c = 44.86215$

$d = 0.53153$

Bead 2024

Date : Mon Oct 17 13:29:22 PDT 2022

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

Frame size : 10 pixels

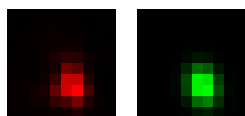
Coordinates : -61.9 μm (x), 88.5 μm (y), 45.3 μm (z)

Corresponding bead : Not found

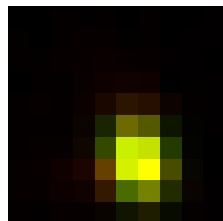
FWHM	Non corrected	Corrected	Theoretical
min	453 nm	469 nm	223 nm
max	585 nm	605 nm	223 nm
z	1.53 μm	1.53 μm	885 nm
Asymmetry	0.775		
Theta	-75.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 988.237 (brightness)

B = 124.432 (background)

a = 0.637 px

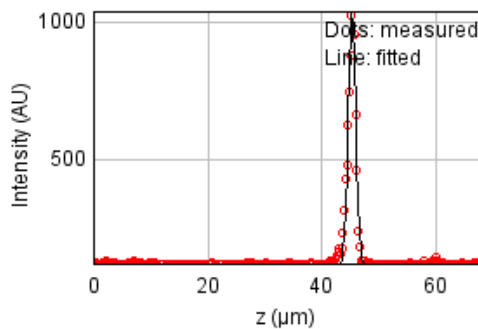
b = -0.062 px

c = 0.408 px

$x_c = 5.504$ px

$y_c = 6.582$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 104080.479

Standard deviation: 18.41261

R^2 : 0.97644

Parameters:

a = 115.20452

b = 1040.03307

c = 45.33832

d = 0.64808

Bead 2025

Date : Mon Oct 17 13:29:22 PDT 2022

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

Frame size : 10 pixels

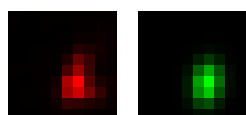
Coordinates : 19.3 μm (x), 69.5 μm (y), 45.7 μm (z)

Corresponding bead : Not found

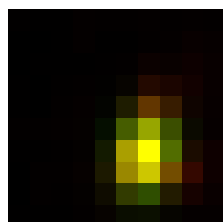
FWHM	Non corrected	Corrected	Theoretical
min	446 nm	461 nm	223 nm
max	632 nm	653 nm	223 nm
z	1.1 μm	1.1 μm	885 nm
Asymmetry	0.706		
Theta	81.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1407.224 (brightness)

B = 128.088 (background)

a = 0.667 px

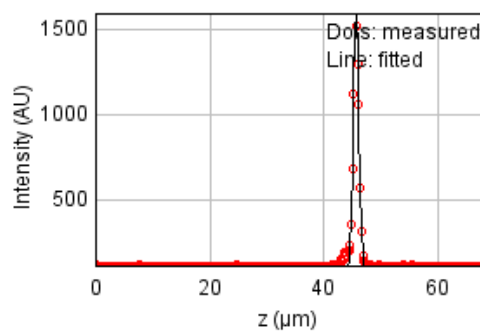
b = 0.049 px

c = 0.344 px

xc = 5.846 px

yc = 6.154 px

Z profile & fitting parameters:



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

Sum of residuals squared: 90050.9097

Standard deviation: 17.12675

R^2 : 0.98896

Parameters:

a = 115.43573

b = 1600.89032

c = 45.71615

d = 0.46528

Bead 2026

Date : Mon Oct 17 13:29:23 PDT 2022

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

Frame size : 10 pixels

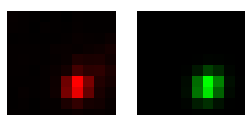
Coordinates : 162 μm (x), 63.7 μm (y), 45.5 μm (z)

Corresponding bead : Not found

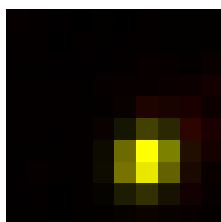
FWHM	Non corrected	Corrected	Theoretical
min	397 nm	410 nm	223 nm
max	447 nm	462 nm	223 nm
z	1.33 μm	1.34 μm	885 nm
Asymmetry	0.887		
Theta	49.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1099.929 (brightness)

B = 122.436 (background)

a = 0.776 px

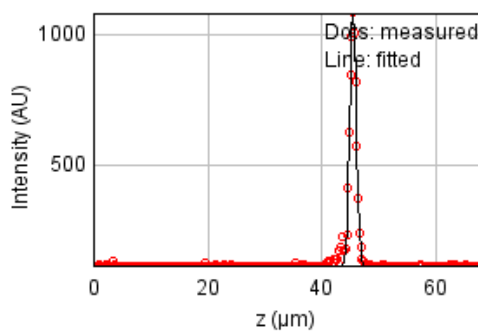
b = 0.090 px

c = 0.748 px

$x_c = 6.015$ px

$y_c = 6.430$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 54386.4649

Standard deviation: 13.30994

R^2 : 0.98705

Parameters:

a = 111.35033

b = 1078.73698

c = 45.52338

d = 0.56678

Bead 2027

Date : Mon Oct 17 13:29:23 PDT 2022

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

Frame size : 10 pixels

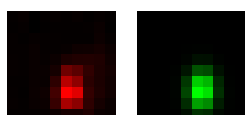
Coordinates : 127 um (x), 36.6 um (y), 45.1 um (z)

Corresponding bead : Not found

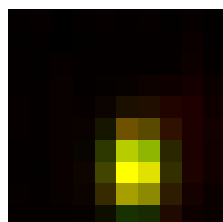
FWHM	Non corrected	Corrected	Theoretical
min	431 nm	446 nm	223 nm
max	620 nm	641 nm	223 nm
z	1.49 um	1.49 um	885 nm
Asymmetry	0.696		
Theta	89.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 915.899 (brightness)

B = 123.424 (background)

a = 0.722 px

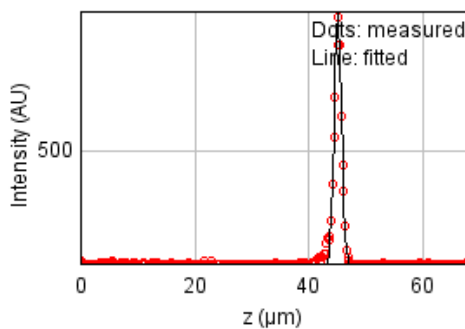
b = 0.006 px

c = 0.349 px

xc = 5.412 px

yc = 6.811 px

Z profile & fitting parameters:



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

Sum of residuals squared: 70528.6367

Standard deviation: 15.15701

R^2 : 0.98147

Parameters:

a = 111.96457

b = 983.01924

c = 45.14399

d = 0.63196

Bead 2028

Date : Mon Oct 17 13:29:23 PDT 2022

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

Frame size : 10 pixels

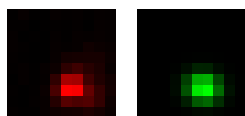
Coordinates : 57.8 um (x), 32.8 um (y), 45.5 um (z)

Corresponding bead : Not found

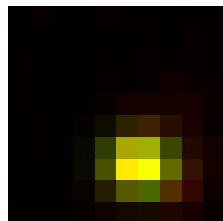
FWHM	Non corrected	Corrected	Theoretical
min	455 nm	470 nm	223 nm
max	530 nm	547 nm	223 nm
z	1.85 um	1.86 um	885 nm
Asymmetry	0.859		
Theta	-9.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 765.633 (brightness)

B = 122.931 (background)

a = 0.483 px

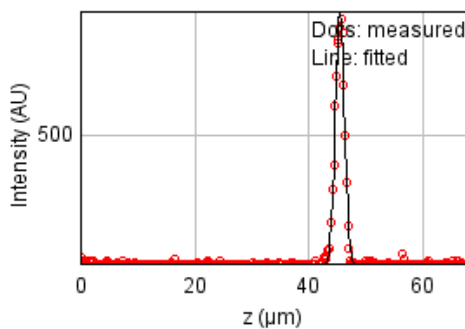
b = -0.026 px

c = 0.644 px

xc = 5.585 px

yc = 6.775 px

Z profile & fitting parameters:



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

Sum of residuals squared: 39498.3366

Standard deviation: 11.34280

R^2 : 0.98887

Parameters:

a = 112.91815

b = 872.80594

c = 45.49303

d = 0.78693

Bead 2029

Date : Mon Oct 17 13:29:23 PDT 2022

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

Frame size : 10 pixels

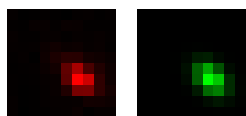
Coordinates : 154 μm (x), -33.0 μm (y), 44.9 μm (z)

Corresponding bead : Not found

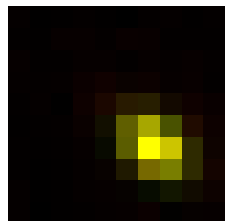
FWHM	Non corrected	Corrected	Theoretical
min	392 nm	406 nm	223 nm
max	563 nm	582 nm	223 nm
z	1.25 μm	1.26 μm	885 nm
Asymmetry	0.697		
Theta	-43.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 762.435 (brightness)

B = 116.488 (background)

a = 0.637 px

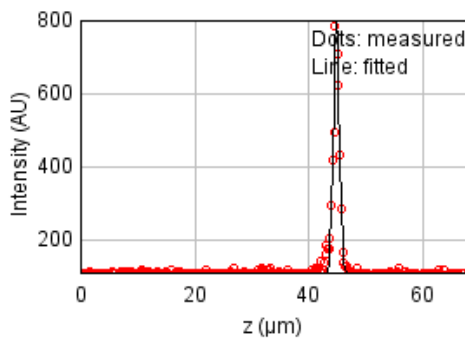
b = -0.224 px

c = 0.659 px

xc = 6.262 px

yc = 5.911 px

Z profile & fitting parameters:



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

Sum of residuals squared: 44019.7577

Standard deviation: 11.97442

R^2 : 0.97817

Parameters:

a = 111.47428

b = 800.24649

c = 44.89248

d = 0.53085

Bead 2030

Date : Mon Oct 17 13:29:23 PDT 2022

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

Frame size : 10 pixels

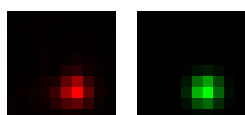
Coordinates : -119 μm (x), -45.7 μm (y), 45.2 μm (z)

Corresponding bead : Not found

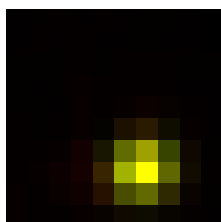
FWHM	Non corrected	Corrected	Theoretical
min	442 nm	457 nm	223 nm
max	464 nm	479 nm	223 nm
z	1.29 μm	1.3 μm	885 nm
Asymmetry	0.954		
Theta	21.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1466.872$ (brightness)

$B = 122.399$ (background)

$a = 0.632$ px

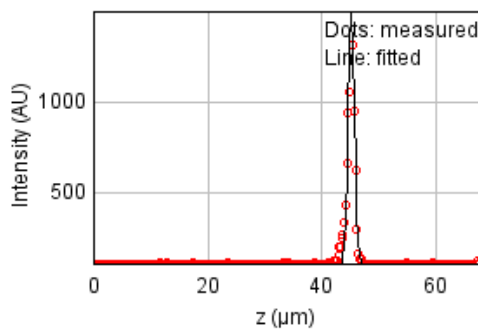
$b = 0.021$ px

$c = 0.677$ px

$x_c = 5.785$ px

$y_c = 6.848$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 164669.730

Standard deviation: 23.15995

$R^2: 0.98091$

Parameters:

$a = 114.64105$

$b = 1517.94712$

$c = 45.21400$

$d = 0.54923$

Bead 2031

Date : Mon Oct 17 13:29:23 PDT 2022

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

Frame size : 10 pixels

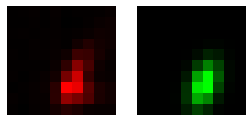
Coordinates : 12.9 μm (x), 93.1 μm (y), 45.9 μm (z)

Corresponding bead : Not found

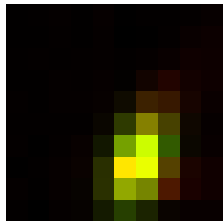
FWHM	Non corrected	Corrected	Theoretical
min	408 nm	422 nm	223 nm
max	705 nm	729 nm	223 nm
z	1.64 μm	1.64 μm	885 nm
Asymmetry	0.58		
Theta	69.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1036.535$ (brightness)

$B = 127.838$ (background)

$a = 0.741$ px

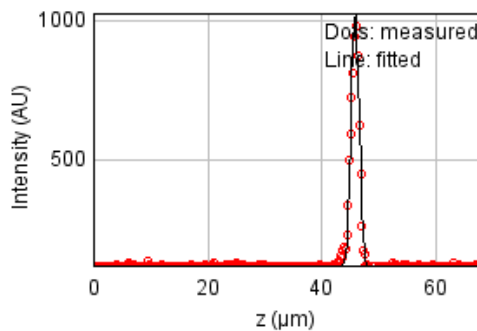
$b = 0.173$ px

$c = 0.333$ px

$x_c = 5.642$ px

$y_c = 6.703$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 66919.2663

Standard deviation: 14.76408

$R^2: 0.98546$

Parameters:

$a = 114.85139$

$b = 1031.34508$

$c = 45.90327$

$d = 0.69551$

Bead 2032

Date : Mon Oct 17 13:29:23 PDT 2022

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

Frame size : 10 pixels

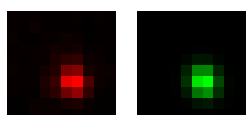
Coordinates : -126 μm (x), 42.0 μm (y), 45.3 μm (z)

Corresponding bead : Not found

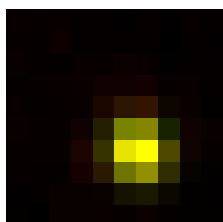
FWHM	Non corrected	Corrected	Theoretical
min	431 nm	446 nm	223 nm
max	476 nm	492 nm	223 nm
z	1.48 μm	1.49 μm	885 nm
Asymmetry	0.906		
Theta	-66.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 675.187 (brightness)

B = 122.465 (background)

a = 0.700 px

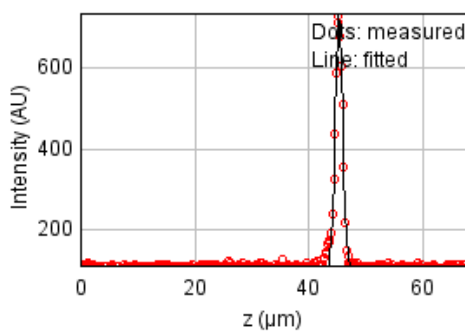
b = -0.047 px

c = 0.613 px

xc = 5.583 px

yc = 5.995 px

Z profile & fitting parameters:



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

Sum of residuals squared: 25414.1227

Standard deviation: 9.09847

R^2 : 0.98678

Parameters:

a = 111.61028

b = 733.51317

c = 45.33143

d = 0.62957

Bead 2033

Date : Mon Oct 17 13:29:23 PDT 2022

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

Frame size : 10 pixels

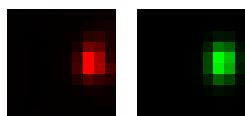
Coordinates : 69.4 μm (x), 26.1 μm (y), 59.4 μm (z)

Corresponding bead : Not found

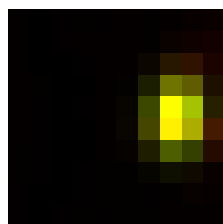
FWHM	Non corrected	Corrected	Theoretical
min	417 nm	432 nm	223 nm
max	557 nm	575 nm	223 nm
z	1.48 μm	1.49 μm	885 nm
Asymmetry	0.75		
Theta	85.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1834.849 (brightness)

B = 123.987 (background)

a = 0.768 px

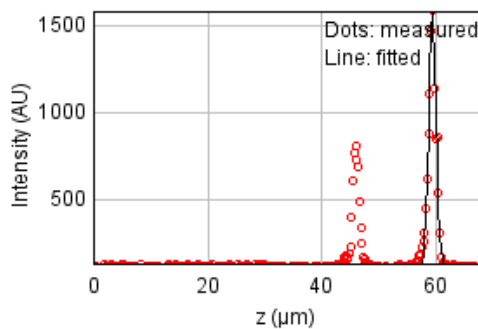
b = 0.025 px

c = 0.435 px

xc = 7.310 px

yc = 4.404 px

Z profile & fitting parameters:



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

Sum of residuals squared: 2338082.82

Standard deviation: 87.26915

R^2 : 0.81466

Parameters:

a = 132.11687

b = 1580.17794

c = 59.43029

d = 0.62901

Bead 2034

Date : Mon Oct 17 13:29:24 PDT 2022

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

Frame size : 10 pixels

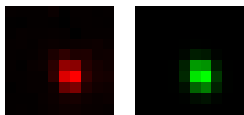
Coordinates : 129 μm (x), -20.7 μm (y), 45.1 μm (z)

Corresponding bead : Not found

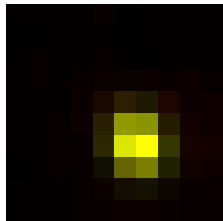
FWHM	Non corrected	Corrected	Theoretical
min	399 nm	412 nm	223 nm
max	473 nm	489 nm	223 nm
z	1.33 μm	1.33 μm	885 nm
Asymmetry	0.842		
Theta	-70.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 875.449$ (brightness)

$B = 120.451$ (background)

$a = 0.817$ px

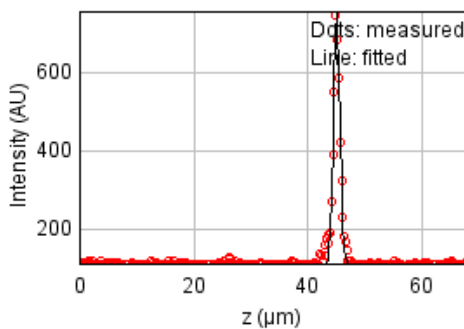
$b = -0.078$ px

$c = 0.627$ px

$x_c = 5.556$ px

$y_c = 5.889$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 32903.9580

Standard deviation: 10.35273

$R^2: 0.98223$

Parameters:

$a = 112.83690$

$b = 755.08810$

$c = 45.12095$

$d = 0.56401$

Bead 2035

Date : Mon Oct 17 13:29:24 PDT 2022

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

Frame size : 10 pixels

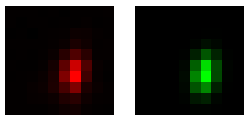
Coordinates : -44.7 μm (x), -21.5 μm (y), 45.5 μm (z)

Corresponding bead : Not found

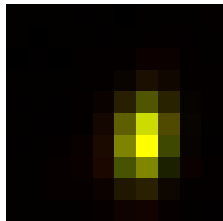
FWHM	Non corrected	Corrected	Theoretical
min	371 nm	384 nm	223 nm
max	591 nm	611 nm	223 nm
z	1.05 μm	1.06 μm	885 nm
Asymmetry	0.628		
Theta	81.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1809.077$ (brightness)

$B = 130.100$ (background)

$a = 0.960$ px

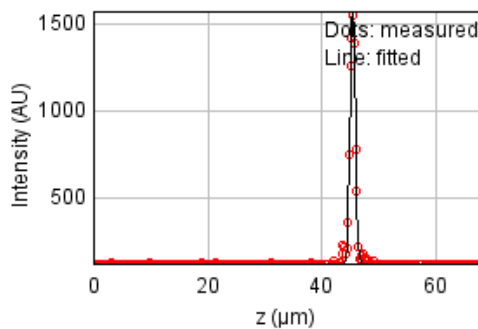
$b = 0.088$ px

$c = 0.398$ px

$x_c = 5.869$ px

$y_c = 5.720$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 90852.2627

Standard deviation: 17.20278

$R^2: 0.98831$

Parameters:

$a = 114.19343$

$b = 1591.83802$

$c = 45.46188$

$d = 0.44722$

Bead 2036

Date : Mon Oct 17 13:29:24 PDT 2022

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

Frame size : 10 pixels

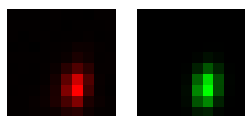
Coordinates : -44.7 μm (x), -21.5 μm (y), 45.5 μm (z)

Corresponding bead : Not found

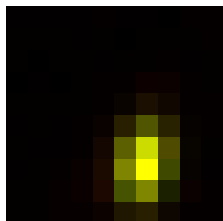
FWHM	Non corrected	Corrected	Theoretical
min	372 nm	385 nm	223 nm
max	589 nm	609 nm	223 nm
z	1.05 μm	1.06 μm	885 nm
Asymmetry	0.631		
Theta	81.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1813.760$ (brightness)

$B = 127.685$ (background)

$a = 0.956$ px

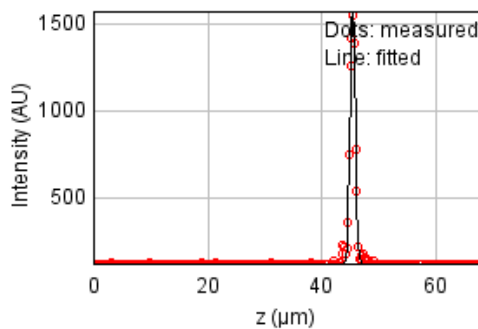
$b = 0.088$ px

$c = 0.400$ px

$x_c = 5.869$ px

$y_c = 6.718$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 90852.2627

Standard deviation: 17.20278

$R^2: 0.98831$

Parameters:

$a = 114.19343$

$b = 1591.83802$

$c = 45.46188$

$d = 0.44722$

Bead 2037

Date : Mon Oct 17 13:29:24 PDT 2022

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

Frame size : 10 pixels

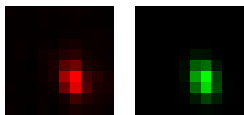
Coordinates : 106 μm (x), -60.6 μm (y), 45.2 μm (z)

Corresponding bead : Not found

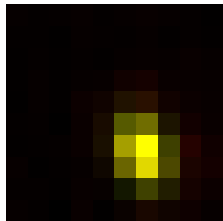
FWHM	Non corrected	Corrected	Theoretical
min	371 nm	383 nm	223 nm
max	535 nm	554 nm	223 nm
z	1.12 μm	1.12 μm	885 nm
Asymmetry	0.693		
Theta	-72.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 838.722 (brightness)

B = 118.693 (background)

a = 0.931 px

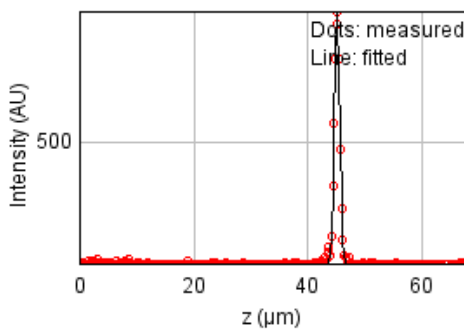
b = -0.143 px

c = 0.512 px

$x_c = 5.798$ px

$y_c = 6.278$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 22034.4104

Standard deviation: 8.47191

R^2 : 0.99118

Parameters:

a = 113.29116

b = 928.34126

c = 45.18687

d = 0.47438

Bead 2038

Date : Mon Oct 17 13:29:24 PDT 2022

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

Frame size : 10 pixels

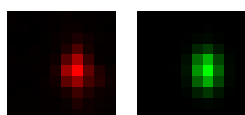
Coordinates : 11.9 μm (x), -95.0 μm (y), 45.3 μm (z)

Corresponding bead : Not found

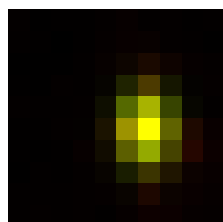
FWHM	Non corrected	Corrected	Theoretical
min	422 nm	437 nm	223 nm
max	591 nm	611 nm	223 nm
z	1.17 μm	1.17 μm	885 nm
Asymmetry	0.715		
Theta	-88.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1328.644 (brightness)

B = 125.847 (background)

a = 0.751 px

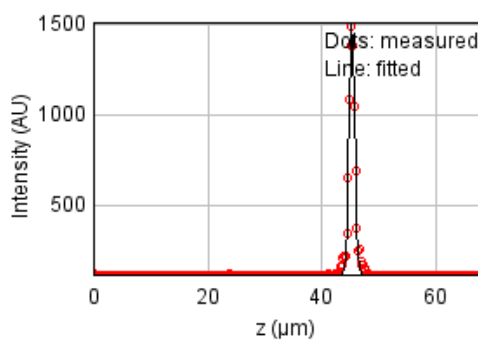
b = -0.010 px

c = 0.384 px

$x_c = 5.870$ px

$y_c = 4.962$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 65338.4148

Standard deviation: 14.58865

R^2 : 0.99144

Parameters:

a = 114.53269

b = 1508.77999

c = 45.32371

d = 0.49629

Bead 2039

Date : Mon Oct 17 13:29:24 PDT 2022

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

Frame size : 10 pixels

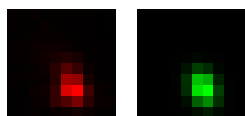
Coordinates : -137 μm (x), 82.3 μm (y), 45.6 μm (z)

Corresponding bead : Not found

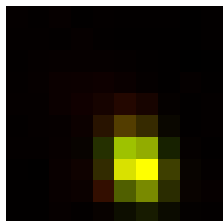
FWHM	Non corrected	Corrected	Theoretical
min	406 nm	420 nm	223 nm
max	542 nm	561 nm	223 nm
z	1.46 μm	1.47 μm	885 nm
Asymmetry	0.749		
Theta	-68.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1010.767$ (brightness)

$B = 125.155$ (background)

$a = 0.764$ px

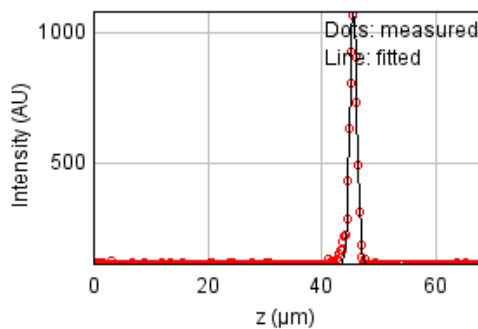
$b = -0.124$ px

$c = 0.506$ px

$x_c = 5.548$ px

$y_c = 6.781$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 45476.3023

Standard deviation: 12.17092

$R^2: 0.99012$

Parameters:

$a = 112.46751$

$b = 1082.06795$

$c = 45.59060$

$d = 0.62187$

Bead 2040 (Rejected)

Date : Mon Oct 17 13:29:24 PDT 2022

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

Frame size : 10 pixels

Coordinates : 83.9 μm (x), 80.6 μm (y), 45.4 μm (z)

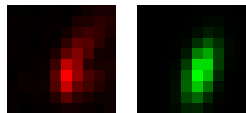
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

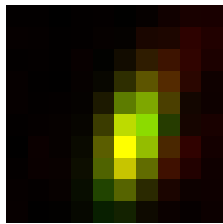
FWHM	Non corrected	Corrected	Theoretical
min	440 nm	455 nm	223 nm
max	913 nm	944 nm	223 nm
z	1.9 μm	1.9 μm	885 nm
Asymmetry	0.482		
Theta	72.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 517.441 (brightness)

B = 127.344 (background)

a = 0.646 px

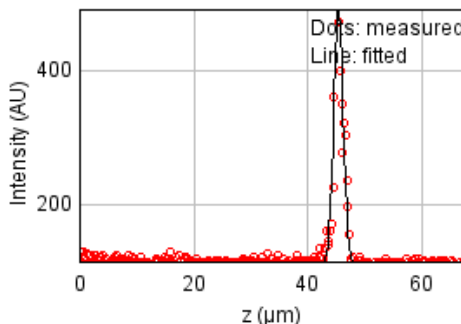
b = 0.151 px

c = 0.208 px

xc = 5.359 px

yc = 5.612 px

Z profile & fitting parameters:



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

Sum of residuals squared: 71340.9013

Standard deviation: 15.24404

R^2 : 0.92679

Parameters:

a = 113.78863

b = 494.98006

c = 45.41418

d = 0.80542

Bead 2041

Date : Mon Oct 17 13:29:25 PDT 2022

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

Frame size : 10 pixels

Coordinates : 60.6 μm (x), 66.4 μm (y), 46.4 μm (z)

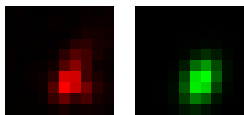
Corresponding bead : Not found



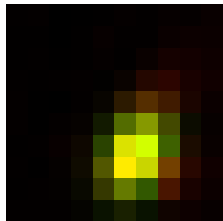
FWHM	Non corrected	Corrected	Theoretical
min	474 nm	490 nm	223 nm
max	672 nm	695 nm	223 nm
z	1.74 μm	1.75 μm	885 nm
Asymmetry	0.705		
Theta	65.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 908.063$ (brightness)

$B = 130.150$ (background)

$a = 0.547$ px

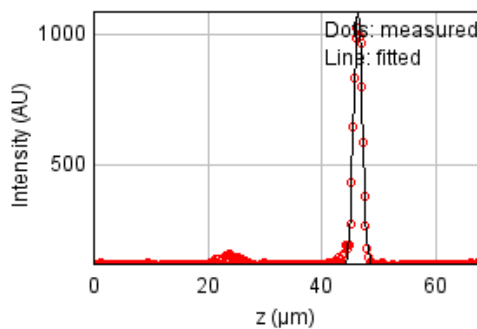
$b = 0.112$ px

$c = 0.347$ px

$x_c = 5.536$ px

$y_c = 6.386$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 64077.8254

Standard deviation: 14.44723

$R^2: 0.98831$

Parameters:

$a = 114.85410$

$b = 1088.32072$

$c = 46.39032$

$d = 0.73813$

Bead 2042

Date : Mon Oct 17 13:29:25 PDT 2022

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

Frame size : 10 pixels

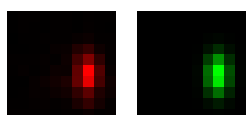
Coordinates : -20.5 μm (x), 56.0 μm (y), 29.7 μm (z)

Corresponding bead : Not found

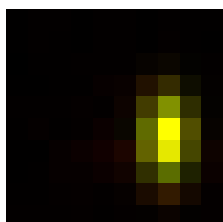
FWHM	Non corrected	Corrected	Theoretical
min	362 nm	374 nm	223 nm
max	637 nm	659 nm	223 nm
z	1.08 μm	1.08 μm	885 nm
Asymmetry	0.568		
Theta	89.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1475.346 (brightness)

B = 125.597 (background)

a = 1.025 px

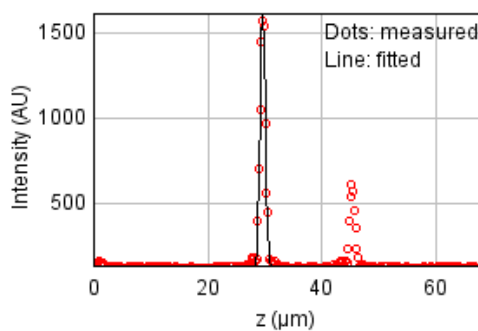
b = 0.005 px

c = 0.330 px

xc = 6.921 px

yc = 5.356 px

Z profile & fitting parameters:



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

Sum of residuals squared: 994670.166

Standard deviation: 56.92072

R^2 : 0.88925

Parameters:

a = 126.84877

b = 1617.89827

c = 29.68887

d = 0.45681

Bead 2043

Date : Mon Oct 17 13:29:25 PDT 2022

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

Frame size : 10 pixels

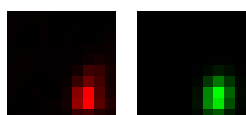
Coordinates : 84.0 μm (x), 42.2 μm (y), 61.9 μm (z)

Corresponding bead : Not found

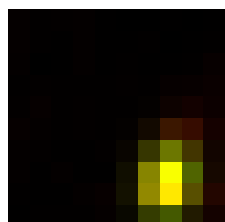
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	421 nm	223 nm
max	566 nm	585 nm	223 nm
z	1.24 μm	1.25 μm	885 nm
Asymmetry	0.719		
Theta	80.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1450.483$ (brightness)

$B = 131.749$ (background)

$a = 0.798$ px

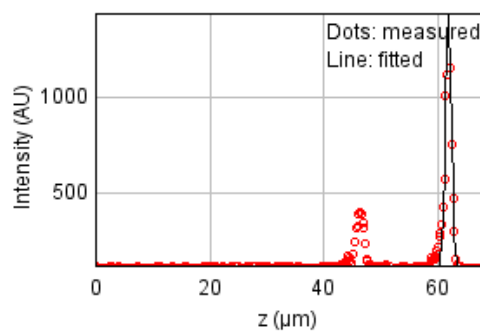
$b = 0.067$ px

$c = 0.431$ px

$x_c = 6.877$ px

$y_c = 7.405$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 630871.748

Standard deviation: 45.33163

$R^2: 0.91857$

Parameters:

$a = 126.34717$

$b = 1437.83797$

$c = 61.87864$

$d = 0.52815$

Bead 2044

Date : Mon Oct 17 13:29:25 PDT 2022

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

Frame size : 10 pixels

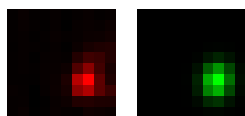
Coordinates : 75.2 um (x), 39.4 um (y), 46.4 um (z)

Corresponding bead : Not found

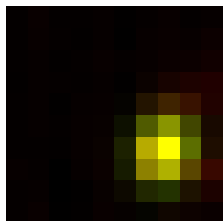
FWHM	Non corrected	Corrected	Theoretical
min	460 nm	476 nm	223 nm
max	550 nm	569 nm	223 nm
z	1.3 um	1.3 um	885 nm
Asymmetry	0.836		
Theta	76.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 952.901 (brightness)

B = 122.560 (background)

a = 0.624 px

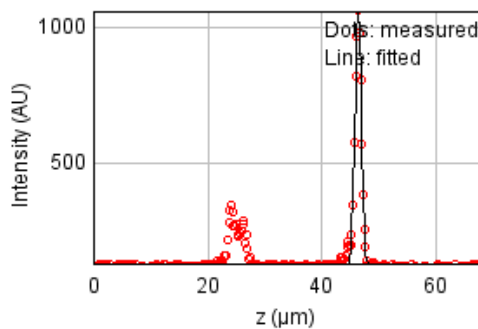
b = 0.042 px

c = 0.453 px

xc = 6.815 px

yc = 6.114 px

Z profile & fitting parameters:



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

Sum of residuals squared: 425129.774

Standard deviation: 37.21273

R^2 : 0.89879

Parameters:

a = 124.02870

b = 1060.71042

c = 46.42259

d = 0.54994

Bead 2045

Date : Mon Oct 17 13:29:25 PDT 2022

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

Frame size : 10 pixels

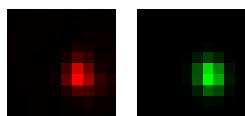
Coordinates : 18.7 μm (x), 15.0 μm (y), 46.2 μm (z)

Corresponding bead : Not found

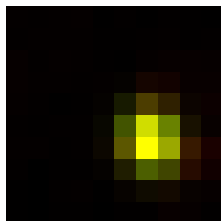
FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	492 nm	508 nm	223 nm
z	1.41 μm	1.42 μm	885 nm
Asymmetry	0.853		
Theta	-74.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1601.340 (brightness)

B = 138.997 (background)

a = 0.747 px

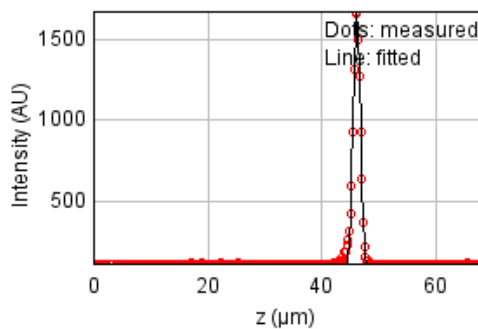
b = -0.054 px

c = 0.571 px

xc = 6.192 px

yc = 5.646 px

Z profile & fitting parameters:



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

Sum of residuals squared: 66589.0433

Standard deviation: 14.72761

R^2 : 0.99415

Parameters:

a = 115.86977

b = 1670.37061

c = 46.18301

d = 0.59973

Bead 2046

Date : Mon Oct 17 13:29:25 PDT 2022

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

Frame size : 10 pixels

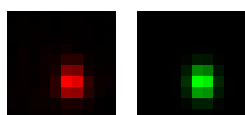
Coordinates : -142 μm (x), 5.7 μm (y), 45.8 μm (z)

Corresponding bead : Not found

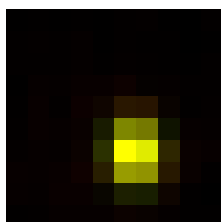
FWHM	Non corrected	Corrected	Theoretical
min	394 nm	407 nm	223 nm
max	488 nm	504 nm	223 nm
z	1.14 μm	1.15 μm	885 nm
Asymmetry	0.808		
Theta	-87.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1416.442 (brightness)

B = 123.893 (background)

a = 0.864 px

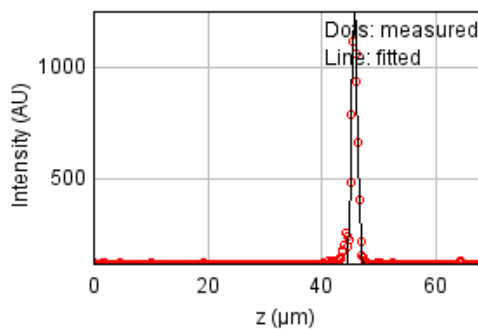
b = -0.011 px

c = 0.565 px

$x_c = 5.451$ px

$y_c = 6.073$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 93784.7215

Standard deviation: 17.47821

R^2 : 0.98166

Parameters:

a = 112.09521

b = 1259.12280

c = 45.80896

d = 0.48594

Bead 2047

Date : Mon Oct 17 13:29:25 PDT 2022

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

Frame size : 10 pixels

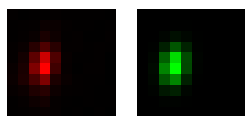
Coordinates : -44.7 μm (x), -21.5 μm (y), 45.5 μm (z)

Corresponding bead : Not found

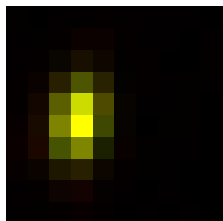
FWHM	Non corrected	Corrected	Theoretical
min	371 nm	384 nm	223 nm
max	591 nm	611 nm	223 nm
z	1.05 μm	1.06 μm	885 nm
Asymmetry	0.628		
Theta	81.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1808.954 (brightness)

B = 130.286 (background)

a = 0.961 px

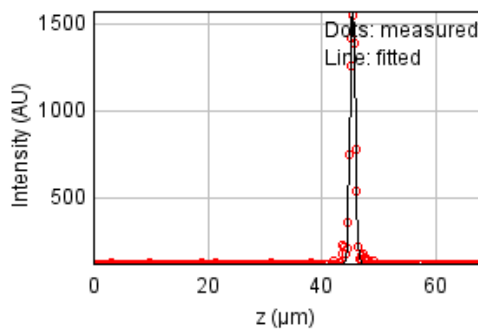
b = 0.088 px

c = 0.398 px

$x_c = 2.869$ px

$y_c = 4.720$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 90852.2627

Standard deviation: 17.20278

R^2 : 0.98831

Parameters:

a = 114.19343

b = 1591.83802

c = 45.46188

d = 0.44722

Bead 2048

Date : Mon Oct 17 13:29:25 PDT 2022

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

Frame size : 10 pixels

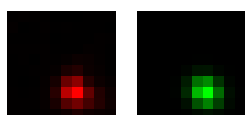
Coordinates : 5.89 μm (x), -34.3 μm (y), 45.9 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	438 nm	453 nm	223 nm
max	490 nm	506 nm	223 nm
z	1.2 μm	1.21 μm	885 nm
Asymmetry	0.895		
Theta	-34.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1962.221 (brightness)

B = 129.277 (background)

a = 0.604 px

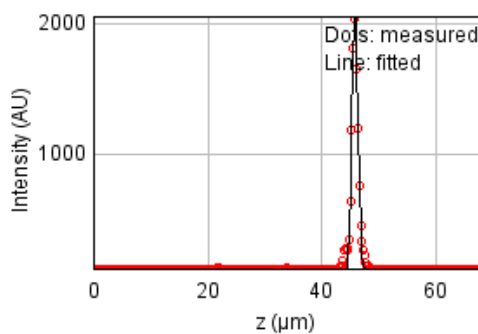
b = -0.065 px

c = 0.654 px

$x_c = 5.768$ px

$y_c = 6.954$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 156233.761

Standard deviation: 22.55892

R^2 : 0.99019

Parameters:

a = 116.41648

b = 2101.04302

c = 45.87460

d = 0.51086

Bead 2049

Date : Mon Oct 17 13:29:26 PDT 2022

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

Frame size : 10 pixels

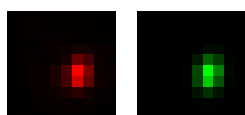
Coordinates : -133 μm (x), -41.6 μm (y), 45.3 μm (z)

Corresponding bead : Not found

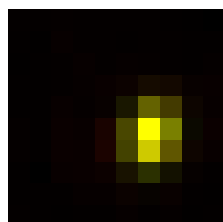
FWHM	Non corrected	Corrected	Theoretical
min	366 nm	378 nm	223 nm
max	480 nm	496 nm	223 nm
z	1.17 μm	1.17 μm	885 nm
Asymmetry	0.762		
Theta	78.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1082.820 (brightness)

B = 121.569 (background)

a = 0.987 px

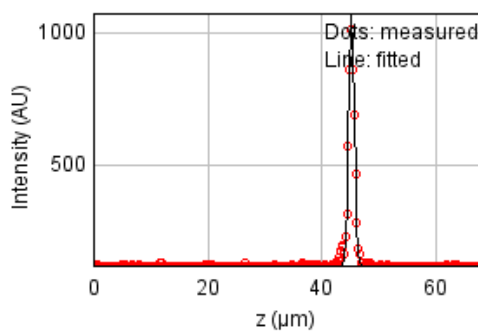
b = 0.082 px

c = 0.599 px

xc = 6.126 px

yc = 5.284 px

Z profile & fitting parameters:



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

Sum of residuals squared: 43082.7582

Standard deviation: 11.84630

R^2 : 0.98835

Parameters:

a = 112.29526

b = 1081.30634

c = 45.25721

d = 0.49581

Bead 2050

Date : Mon Oct 17 13:29:26 PDT 2022

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

Frame size : 10 pixels

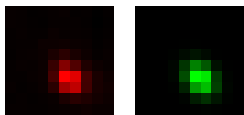
Coordinates : 146 μm (x), -66.9 μm (y), 45.7 μm (z)

Corresponding bead : Not found

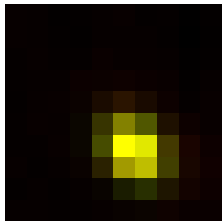
FWHM	Non corrected	Corrected	Theoretical
min	414 nm	428 nm	223 nm
max	535 nm	553 nm	223 nm
z	1.29 μm	1.3 μm	885 nm
Asymmetry	0.775		
Theta	-50.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1325.968 (brightness)

B = 124.045 (background)

a = 0.655 px

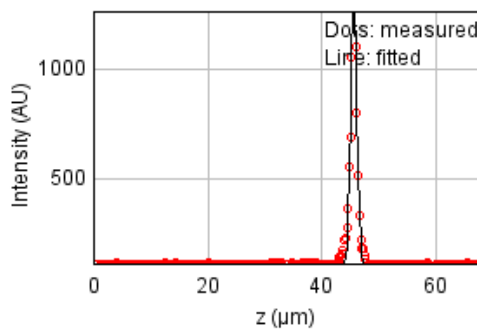
b = -0.153 px

c = 0.595 px

$x_c = 5.472$ px

$y_c = 6.194$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 71274.4495

Standard deviation: 15.23694

R^2 : 0.98789

Parameters:

a = 113.10028

b = 1276.74914

c = 45.65937

d = 0.54864

Bead 2051

Date : Mon Oct 17 13:29:26 PDT 2022

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

Frame size : 10 pixels

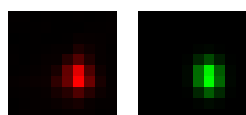
Coordinates : -85.1 μm (x), -86.8 μm (y), 45.8 μm (z)

Corresponding bead : Not found

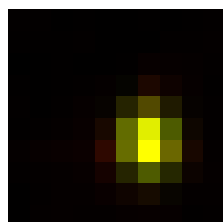
FWHM	Non corrected	Corrected	Theoretical
min	390 nm	403 nm	223 nm
max	493 nm	510 nm	223 nm
z	1.34 μm	1.35 μm	885 nm
Asymmetry	0.791		
Theta	-84.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1801.326 (brightness)

B = 135.668 (background)

a = 0.880 px

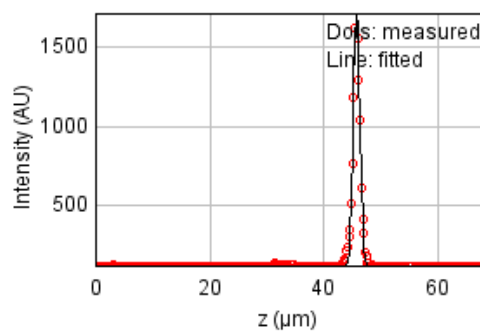
b = -0.030 px

c = 0.555 px

$x_c = 5.971$ px

$y_c = 5.564$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 105939.342

Standard deviation: 18.57631

R^2 : 0.99081

Parameters:

a = 115.64289

b = 1716.45410

c = 45.80174

d = 0.56998

Bead 2052

Date : Mon Oct 17 13:29:26 PDT 2022

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

Frame size : 10 pixels

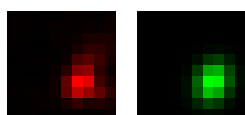
Coordinates : 73.8 μm (x), 68.0 μm (y), 46.1 μm (z)

Corresponding bead : Not found

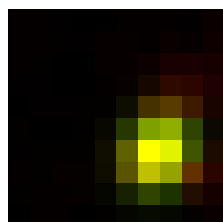
FWHM	Non corrected	Corrected	Theoretical
min	504 nm	521 nm	223 nm
max	620 nm	641 nm	223 nm
z	1.68 μm	1.69 μm	885 nm
Asymmetry	0.814		
Theta	68.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 787.703$ (brightness)

$B = 123.672$ (background)

$a = 0.503$ px

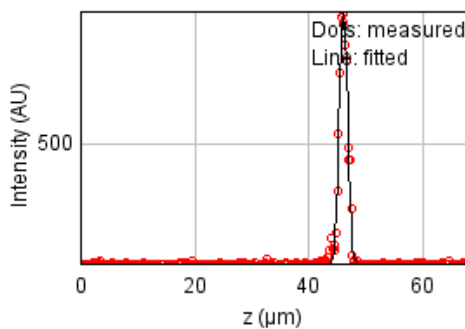
$b = 0.062$ px

$c = 0.374$ px

$x_c = 6.446$ px

$y_c = 6.043$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 73215.3727

Standard deviation: 15.44301

$R^2: 0.98063$

Parameters:

$a = 113.63849$

$b = 932.52648$

$c = 46.12852$

$d = 0.71277$

Bead 2053

Date : Mon Oct 17 13:29:26 PDT 2022

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

Frame size : 10 pixels

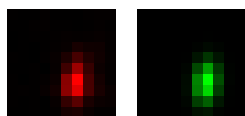
Coordinates : -13.9 μm (x), 63.5 μm (y), 46.2 μm (z)

Corresponding bead : Not found

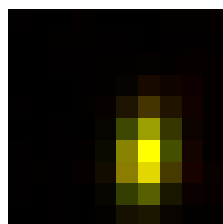
FWHM	Non corrected	Corrected	Theoretical
min	379 nm	391 nm	223 nm
max	651 nm	673 nm	223 nm
z	1.07 μm	1.07 μm	885 nm
Asymmetry	0.582		
Theta	84.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1786.562 (brightness)

B = 129.724 (background)

a = 0.930 px

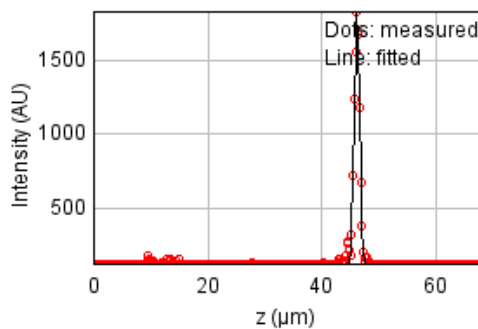
b = 0.064 px

c = 0.324 px

$x_c = 5.843$ px

$y_c = 6.263$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 117782.156

Standard deviation: 19.58712

R^2 : 0.98878

Parameters:

a = 119.37700

b = 1827.33354

c = 46.20218

d = 0.45231

Bead 2054

Date : Mon Oct 17 13:29:26 PDT 2022

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

Frame size : 10 pixels

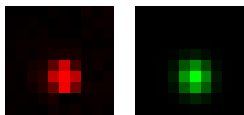
Coordinates : -161 μm (x), 41.6 μm (y), 45.7 μm (z)

Corresponding bead : Not found

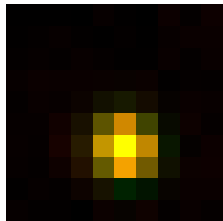
FWHM	Non corrected	Corrected	Theoretical
min	474 nm	490 nm	223 nm
max	504 nm	521 nm	223 nm
z	1.66 μm	1.66 μm	885 nm
Asymmetry	0.941		
Theta	-64.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.944$



Parameters:

A = 492.402 (brightness)

B = 110.763 (background)

a = 0.584 px

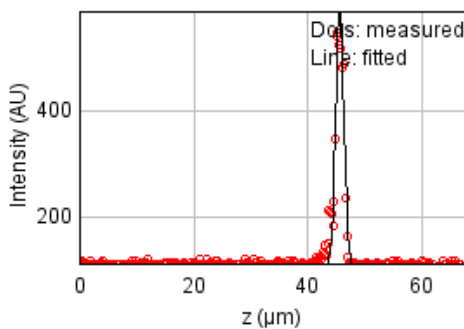
b = -0.027 px

c = 0.542 px

$x_c = 4.959$ px

$y_c = 6.078$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 70658.3401

Standard deviation: 15.17094

R^2 : 0.94653

Parameters:

a = 110.84491

b = 589.61466

c = 45.66182

d = 0.70317

Bead 2055

Date : Mon Oct 17 13:29:27 PDT 2022

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

Frame size : 10 pixels

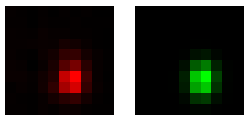
Coordinates : -133 μm (x), 37.6 μm (y), 46.0 μm (z)

Corresponding bead : Not found

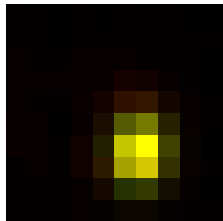
FWHM	Non corrected	Corrected	Theoretical
min	409 nm	422 nm	223 nm
max	524 nm	542 nm	223 nm
z	1.23 μm	1.24 μm	885 nm
Asymmetry	0.779		
Theta	86.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1287.188 (brightness)

B = 126.719 (background)

a = 0.803 px

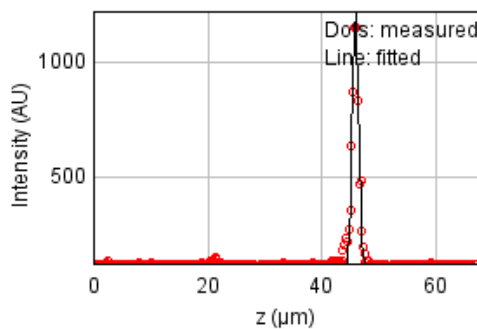
b = 0.022 px

c = 0.490 px

$x_c = 5.652$ 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: 94874.0082

Standard deviation: 17.57942

R^2 : 0.98165

Parameters:

a = 113.96758

b = 1226.12793

c = 45.96341

d = 0.52369

Bead 2056

Date : Mon Oct 17 13:29:27 PDT 2022

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

Frame size : 10 pixels

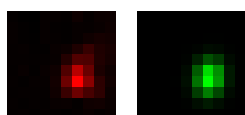
Coordinates : 92.0 μm (x), 37.0 μm (y), 45.9 μm (z)

Corresponding bead : Not found

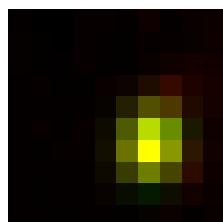
FWHM	Non corrected	Corrected	Theoretical
min	448 nm	463 nm	223 nm
max	560 nm	579 nm	223 nm
z	1.44 μm	1.45 μm	885 nm
Asymmetry	0.799		
Theta	80.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 833.336 (brightness)

B = 125.419 (background)

a = 0.663 px

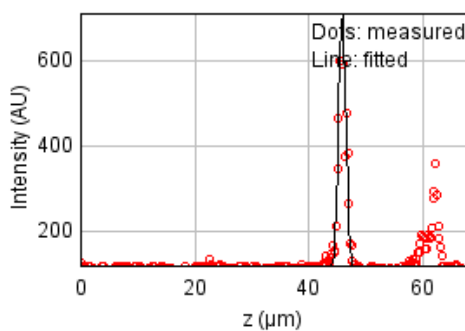
b = 0.039 px

c = 0.434 px

$x_c = 6.130$ px

$y_c = 5.661$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 296795.427

Standard deviation: 31.09277

R^2 : 0.84917

Parameters:

a = 120.61197

b = 712.24010

c = 45.91968

d = 0.61216

Bead 2057

Date : Mon Oct 17 13:29:27 PDT 2022

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

Frame size : 10 pixels

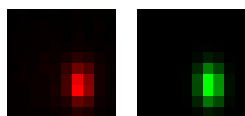
Coordinates : -137 μm (x), 25.2 μm (y), 46.0 μm (z)

Corresponding bead : Not found

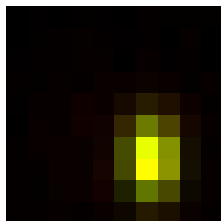
FWHM	Non corrected	Corrected	Theoretical
min	389 nm	402 nm	223 nm
max	599 nm	619 nm	223 nm
z	1.08 μm	1.09 μm	885 nm
Asymmetry	0.649		
Theta	-88.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1232.718 (brightness)

B = 131.624 (background)

a = 0.888 px

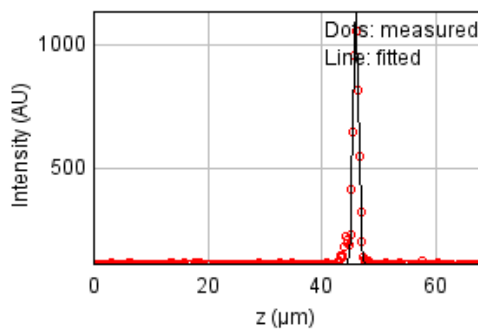
b = -0.018 px

c = 0.375 px

$x_c = 6.193$ px

$y_c = 6.495$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 59022.4553

Standard deviation: 13.86562

R^2 : 0.98489

Parameters:

a = 113.44823

b = 1144.80946

c = 46.03724

d = 0.46012

Bead 2058

Date : Mon Oct 17 13:29:27 PDT 2022

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

Frame size : 10 pixels

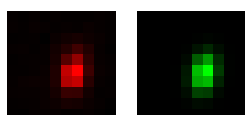
Coordinates : -126 μm (x), -30.6 μm (y), 45.5 μm (z)

Corresponding bead : Not found

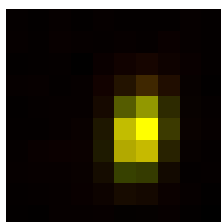
FWHM	Non corrected	Corrected	Theoretical
min	383 nm	396 nm	223 nm
max	580 nm	600 nm	223 nm
z	1.16 μm	1.16 μm	885 nm
Asymmetry	0.66		
Theta	78.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1016.304 (brightness)

B = 123.322 (background)

a = 0.894 px

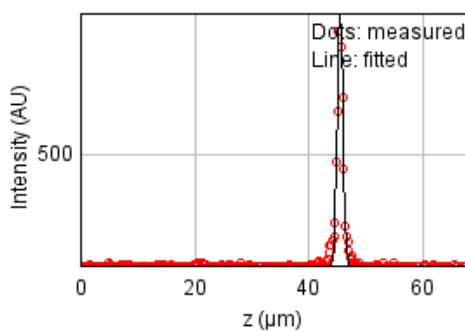
b = 0.101 px

c = 0.419 px

xc = 5.644 px

yc = 5.208 px

Z profile & fitting parameters:



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

Sum of residuals squared: 50392.2477

Standard deviation: 12.81187

R^2 : 0.98321

Parameters:

a = 112.90511

b = 986.84421

c = 45.53698

d = 0.49212

Bead 2059

Date : Mon Oct 17 13:29:27 PDT 2022

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

Frame size : 10 pixels

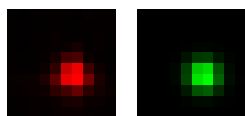
Coordinates : -59.5 μm (x), -52.9 μm (y), 45.9 μm (z)

Corresponding bead : Not found

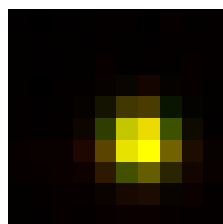
FWHM	Non corrected	Corrected	Theoretical
min	481 nm	497 nm	223 nm
max	500 nm	517 nm	223 nm
z	1.48 μm	1.49 μm	885 nm
Asymmetry	0.961		
Theta	-18.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1371.262$ (brightness)

$B = 123.152$ (background)

$a = 0.541$ px

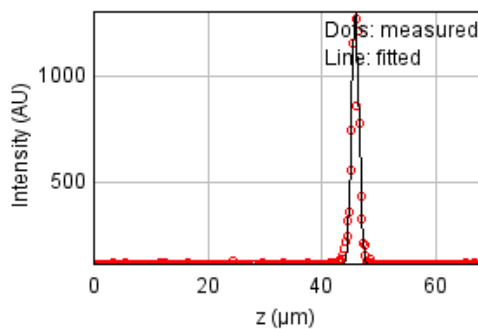
$b = -0.014$ px

$c = 0.576$ px

$x_c = 5.604$ px

$y_c = 5.625$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 278036.980

Standard deviation: 30.09415

$R^2: 0.96172$

Parameters:

$a = 113.40423$

$b = 1306.40035$

$c = 45.92430$

$d = 0.62993$

Bead 2060

Date : Mon Oct 17 13:29:27 PDT 2022

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

Frame size : 10 pixels

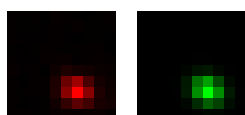
Coordinates : 164 μm (x), -58.0 μm (y), 45.9 μm (z)

Corresponding bead : Not found

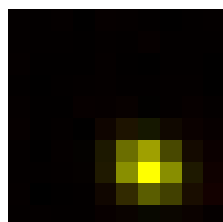
FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	502 nm	519 nm	223 nm
z	1.55 μm	1.56 μm	885 nm
Asymmetry	0.82		
Theta	-26.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 741.518 (brightness)

B = 114.052 (background)

a = 0.582 px

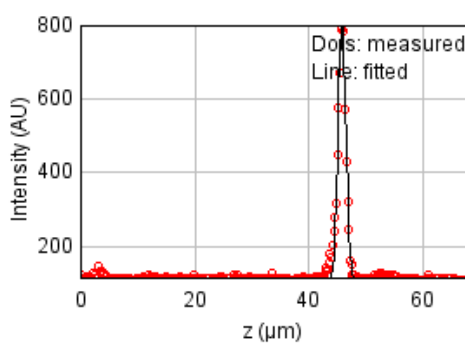
b = -0.102 px

c = 0.741 px

xc = 5.965 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: 50171.0011

Standard deviation: 12.78372

R^2 : 0.98028

Parameters:

a = 112.26881

b = 809.81246

c = 45.87416

d = 0.65909

Bead 2061

Date : Mon Oct 17 13:29:27 PDT 2022

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

Frame size : 10 pixels

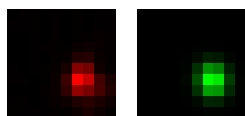
Coordinates : 15.9 μm (x), -70.4 μm (y), 45.9 μm (z)

Corresponding bead : Not found

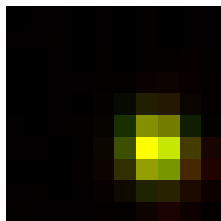
FWHM	Non corrected	Corrected	Theoretical
min	457 nm	473 nm	223 nm
max	508 nm	525 nm	223 nm
z	1.29 μm	1.3 μm	885 nm
Asymmetry	0.9		
Theta	-79.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1463.292 (brightness)

B = 126.281 (background)

a = 0.637 px

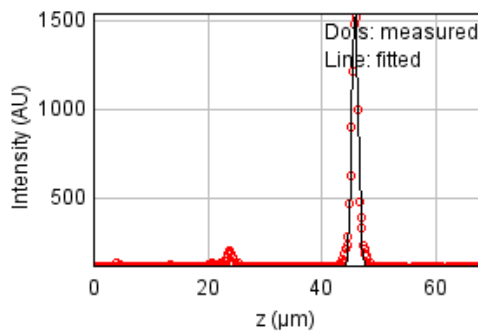
b = -0.022 px

c = 0.524 px

xc = 6.424 px

yc = 6.064 px

Z profile & fitting parameters:



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

Sum of residuals squared: 198715.791

Standard deviation: 25.44175

R^2 : 0.97801

Parameters:

a = 119.44866

b = 1553.91561

c = 45.89115

d = 0.54881

Bead 2062

Date : Mon Oct 17 13:29:27 PDT 2022

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

Frame size : 10 pixels

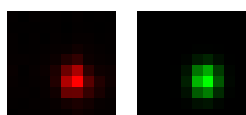
Coordinates : 74.3 μm (x), -85.1 μm (y), 46.0 μm (z)

Corresponding bead : Not found

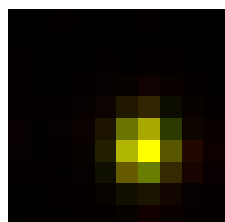
FWHM	Non corrected	Corrected	Theoretical
min	433 nm	448 nm	223 nm
max	488 nm	505 nm	223 nm
z	1.16 μm	1.16 μm	885 nm
Asymmetry	0.888		
Theta	84.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1328.995 (brightness)

B = 126.826 (background)

a = 0.714 px

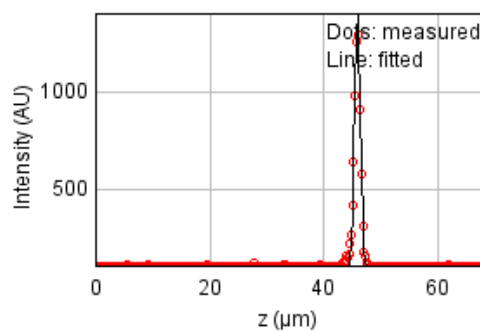
b = 0.015 px

c = 0.565 px

$x_c = 5.744$ px

$y_c = 5.872$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 38598.3584

Standard deviation: 11.21283

R^2 : 0.99395

Parameters:

a = 113.19446

b = 1395.67808

c = 45.95711

d = 0.49151

Bead 2063

Date : Mon Oct 17 13:29:28 PDT 2022

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

Frame size : 10 pixels

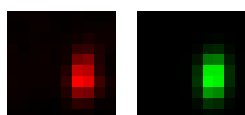
Coordinates : -13.1 μm (x), 86.5 μm (y), 46.7 μm (z)

Corresponding bead : Not found

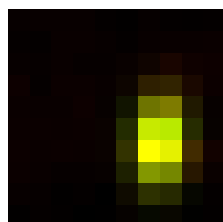
FWHM	Non corrected	Corrected	Theoretical
min	401 nm	414 nm	223 nm
max	664 nm	687 nm	223 nm
z	1.51 μm	1.52 μm	885 nm
Asymmetry	0.603		
Theta	86.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1433.455 (brightness)

B = 147.154 (background)

a = 0.835 px

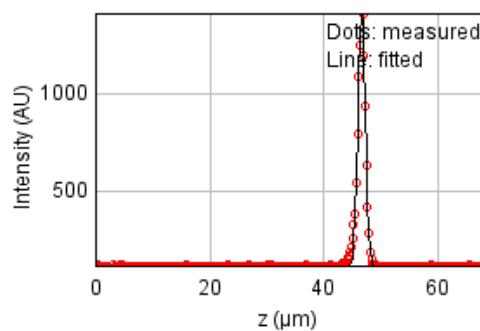
b = 0.030 px

c = 0.306 px

$x_c = 6.480$ px

$y_c = 5.601$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 51173.4539

Standard deviation: 12.91080

R^2 : 0.99393

Parameters:

a = 114.49161

b = 1408.53279

c = 46.68617

d = 0.64220

Bead 2064

Date : Mon Oct 17 13:29:28 PDT 2022

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

Frame size : 10 pixels

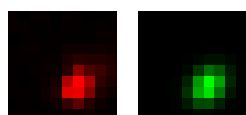
Coordinates : 162 μm (x), 68.6 μm (y), 46.1 μm (z)

Corresponding bead : Not found

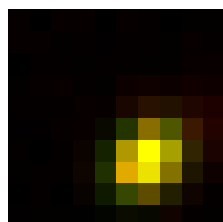
FWHM	Non corrected	Corrected	Theoretical
min	471 nm	487 nm	223 nm
max	598 nm	618 nm	223 nm
z	1.55 μm	1.56 μm	885 nm
Asymmetry	0.788		
Theta	45.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 682.788 (brightness)

B = 114.913 (background)

a = 0.491 px

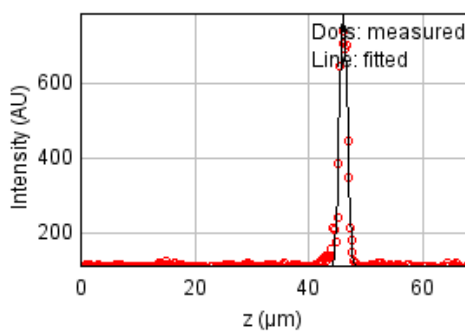
b = 0.115 px

c = 0.488 px

xc = 5.933 px

yc = 6.390 px

Z profile & fitting parameters:



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

Sum of residuals squared: 76401.9633

Standard deviation: 15.77550

R^2 : 0.96889

Parameters:

a = 111.14259

b = 792.10081

c = 46.11448

d = 0.65966

Bead 2065 (Rejected)

Date : Mon Oct 17 13:29:28 PDT 2022

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

Frame size : 10 pixels

Coordinates : 76.1 μm (x), 62.5 μm (y), 61.3 μm (z)

Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.34 μm	1.35 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

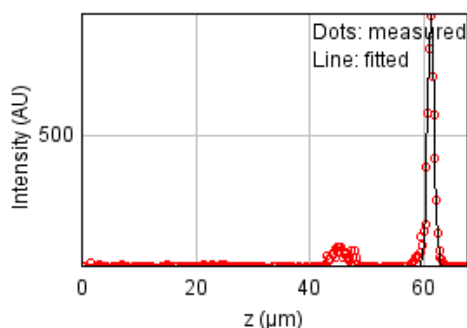
XY profile & fitting parameters :

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



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

Z profile & fitting parameters:



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

Sum of residuals squared: 84427.7679

Standard deviation: 16.58340

R²: 0.96772

Parameters:

a = 117.47849

b = 870.74713

c = 61.26169

d = 0.57076

Bead 2066

Date : Mon Oct 17 13:29:28 PDT 2022

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

Frame size : 10 pixels

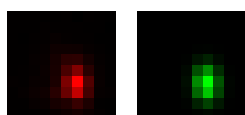
Coordinates : -85.2 μm (x), 41.8 μm (y), 46.3 μm (z)

Corresponding bead : Not found

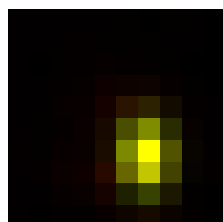
FWHM	Non corrected	Corrected	Theoretical
min	392 nm	405 nm	223 nm
max	560 nm	579 nm	223 nm
z	1.25 μm	1.25 μm	885 nm
Asymmetry	0.699		
Theta	-87.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1711.540 (brightness)

B = 135.563 (background)

a = 0.874 px

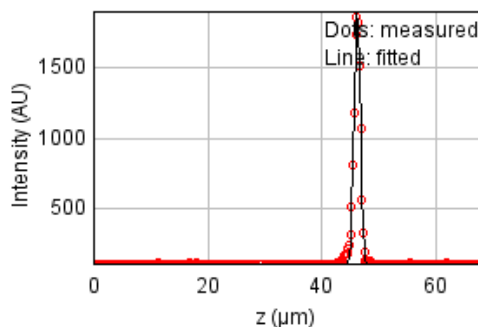
b = -0.019 px

c = 0.429 px

xc = 5.859 px

yc = 6.194 px

Z profile & fitting parameters:



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

Sum of residuals squared: 69610.4137

Standard deviation: 15.05802

R^2 : 0.99478

Parameters:

a = 113.40858

b = 1901.26011

c = 46.25381

d = 0.52931

Bead 2067

Date : Mon Oct 17 13:29:28 PDT 2022

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

Frame size : 10 pixels

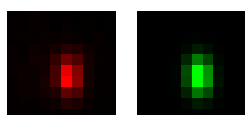
Coordinates : -137 μm (x), 25.2 μm (y), 46.0 μm (z)

Corresponding bead : Not found

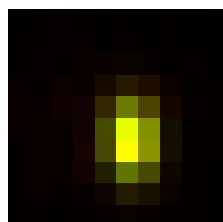
FWHM	Non corrected	Corrected	Theoretical
min	388 nm	401 nm	223 nm
max	597 nm	617 nm	223 nm
z	1.08 μm	1.09 μm	885 nm
Asymmetry	0.65		
Theta	-87.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1233.415 (brightness)

B = 133.161 (background)

a = 0.892 px

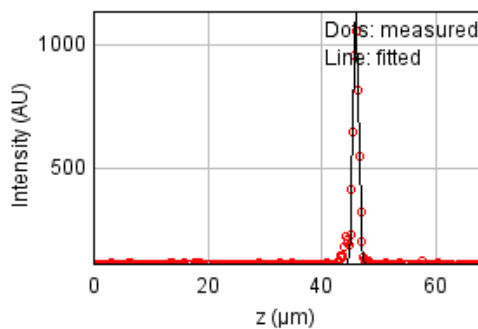
b = -0.019 px

c = 0.378 px

$x_c = 5.193$ px

$y_c = 5.495$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 59022.4553

Standard deviation: 13.86562

R^2 : 0.98489

Parameters:

a = 113.44823

b = 1144.80946

c = 46.03724

d = 0.46012

Bead 2068

Date : Mon Oct 17 13:29:28 PDT 2022

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

Frame size : 10 pixels

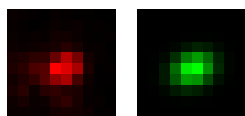
Coordinates : -96.0 μm (x), 15.0 μm (y), 20.0 μm (z)

Corresponding bead : Not found

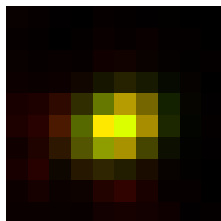
FWHM	Non corrected	Corrected	Theoretical
min	492 nm	508 nm	223 nm
max	656 nm	678 nm	223 nm
z	2.18 μm	2.18 μm	885 nm
Asymmetry	0.75		
Theta	21.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 436.348 (brightness)

B = 121.516 (background)

a = 0.345 px

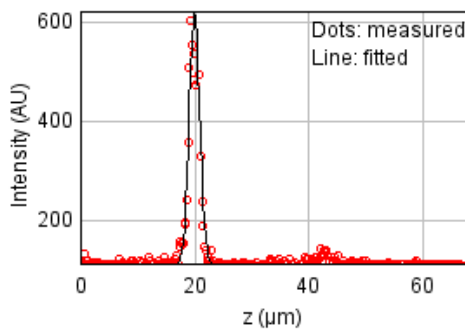
b = 0.083 px

c = 0.522 px

xc = 4.632 px

yc = 5.028 px

Z profile & fitting parameters:



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

Sum of residuals squared: 143564.025

Standard deviation: 21.62488

R^2 : 0.92661

Parameters:

a = 113.97809

b = 619.77209

c = 20.03689

d = 0.92414

Bead 2069

Date : Mon Oct 17 13:29:28 PDT 2022

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

Frame size : 10 pixels

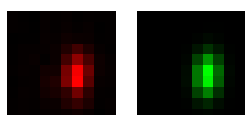
Coordinates : -99.9 μm (x), 10.0 μm (y), 45.8 μm (z)

Corresponding bead : Not found

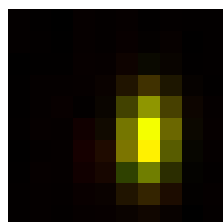
FWHM	Non corrected	Corrected	Theoretical
min	399 nm	412 nm	223 nm
max	676 nm	699 nm	223 nm
z	1.17 μm	1.17 μm	885 nm
Asymmetry	0.59		
Theta	87.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1010.527 (brightness)

B = 125.821 (background)

a = 0.842 px

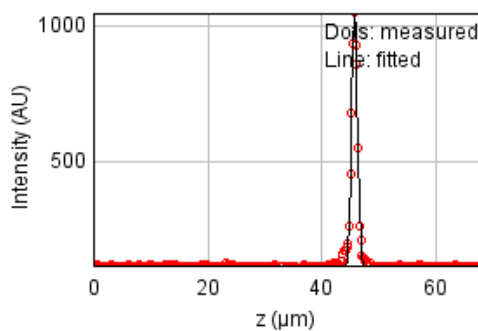
b = 0.028 px

c = 0.295 px

$x_c = 5.947$ px

$y_c = 5.403$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 39450.4510

Standard deviation: 11.33592

R^2 : 0.98860

Parameters:

a = 113.17859

b = 1051.26642

c = 45.80086

d = 0.49521

Bead 2070

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

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

Frame size : 10 pixels

Coordinates : -143 μm (x), 3.75 μm (y), 46.1 μm (z)

Corresponding bead : Not found

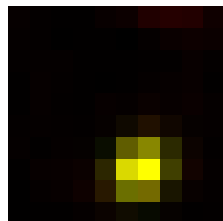
FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	448 nm	463 nm	223 nm
z	1.36 μm	1.37 μm	885 nm
Asymmetry	0.872		
Theta	48.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1029.588 (brightness)

B = 125.351 (background)

a = 0.785 px

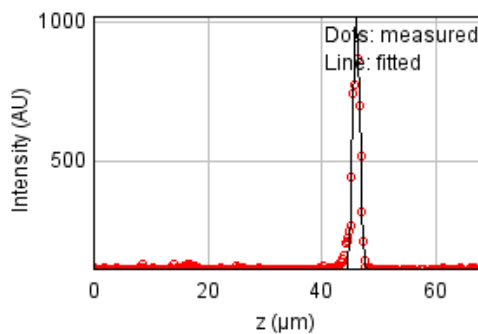
b = 0.105 px

c = 0.761 px

xc = 5.609 px

yc = 6.974 px

Z profile & fitting parameters:



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

Sum of residuals squared: 71840.3995

Standard deviation: 15.29731

R^2 : 0.98155

Parameters:

a = 113.60111

b = 1032.98666

c = 46.10323

d = 0.57868

Bead 2071

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

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

Frame size : 10 pixels

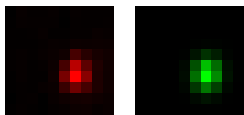
Coordinates : 111 μm (x), -23.7 μm (y), 45.9 μm (z)

Corresponding bead : Not found

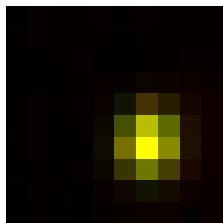
FWHM	Non corrected	Corrected	Theoretical
min	430 nm	444 nm	223 nm
max	504 nm	521 nm	223 nm
z	1.29 μm	1.29 μm	885 nm
Asymmetry	0.852		
Theta	85.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 887.376 (brightness)

B = 119.379 (background)

a = 0.725 px

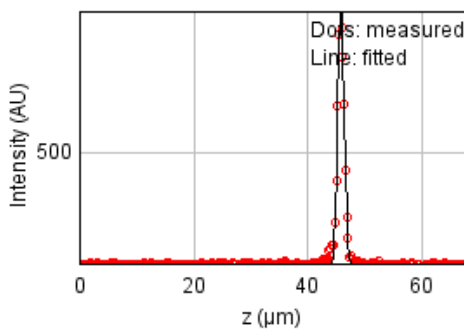
b = 0.017 px

c = 0.529 px

xc = 6.081 px

yc = 5.776 px

Z profile & fitting parameters:



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

Sum of residuals squared: 35105.9441

Standard deviation: 10.69353

R^2 : 0.98990

Parameters:

a = 112.76571

b = 1008.86874

c = 45.86376

d = 0.54762

Bead 2072

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

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

Frame size : 10 pixels

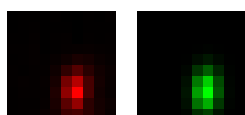
Coordinates : -12.4 μm (x), -37.8 μm (y), 46.1 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	672 nm	695 nm	223 nm
z	1.15 μm	1.16 μm	885 nm
Asymmetry	0.613		
Theta	86.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1604.786$ (brightness)

$B = 134.297$ (background)

$a = 0.788$ px

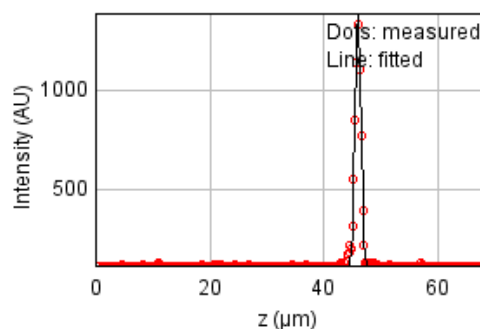
$b = 0.028$ px

$c = 0.299$ px

$x_c = 5.814$ px

$y_c = 6.869$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 50424.0882

Standard deviation: 12.81592

$R^2: 0.99213$

Parameters:

$a = 114.57582$

$b = 1399.50505$

$c = 46.05865$

$d = 0.49048$

Bead 2073

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

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

Frame size : 10 pixels

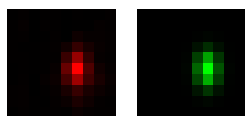
Coordinates : -12.1 μm (x), -57.4 μm (y), 46.0 μm (z)

Corresponding bead : Not found

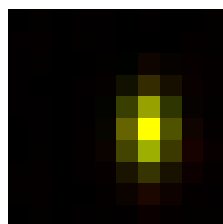
FWHM	Non corrected	Corrected	Theoretical
min	360 nm	372 nm	223 nm
max	566 nm	585 nm	223 nm
z	1.13 μm	1.13 μm	885 nm
Asymmetry	0.637		
Theta	89.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1535.932 (brightness)

B = 131.255 (background)

a = 1.034 px

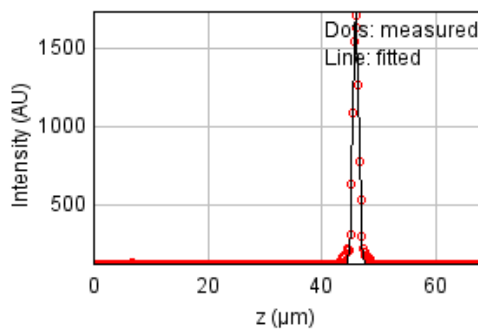
b = 0.001 px

c = 0.419 px

xc = 5.956 px

yc = 5.046 px

Z profile & fitting parameters:



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

Sum of residuals squared: 71264.5666

Standard deviation: 15.23588

R^2 : 0.99295

Parameters:

a = 115.88777

b = 1747.90405

c = 46.02648

d = 0.48000

Bead 2074

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

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

Frame size : 10 pixels

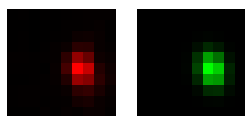
Coordinates : -7.18 μm (x), -65.6 μm (y), 46.0 μm (z)

Corresponding bead : Not found

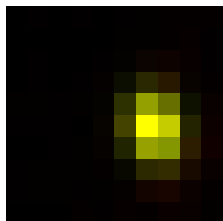
FWHM	Non corrected	Corrected	Theoretical
min	411 nm	425 nm	223 nm
max	549 nm	568 nm	223 nm
z	1.32 μm	1.32 μm	885 nm
Asymmetry	0.749		
Theta	-77.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1565.793 (brightness)

B = 126.219 (background)

a = 0.778 px

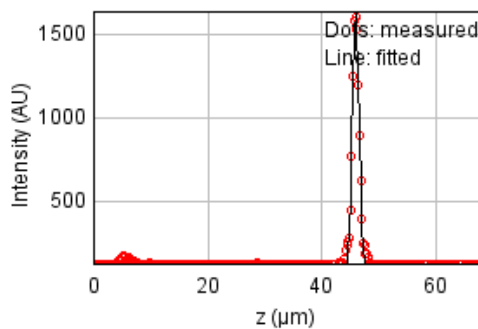
b = -0.073 px

c = 0.461 px

$x_c = 6.364$ px

$y_c = 5.064$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 101718.996

Standard deviation: 18.20253

R^2 : 0.99007

Parameters:

a = 116.77411

b = 1640.49370

c = 46.00239

d = 0.55876

Bead 2075

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

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

Frame size : 10 pixels

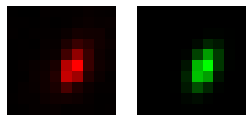
Coordinates : -154 μm (x), -67.1 μm (y), 46.2 μm (z)

Corresponding bead : Not found

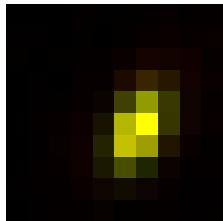
FWHM	Non corrected	Corrected	Theoretical
min	354 nm	366 nm	223 nm
max	609 nm	629 nm	223 nm
z	1.16 μm	1.16 μm	885 nm
Asymmetry	0.582		
Theta	65.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1483.867$ (brightness)

$B = 131.678$ (background)

$a = 0.945$ px

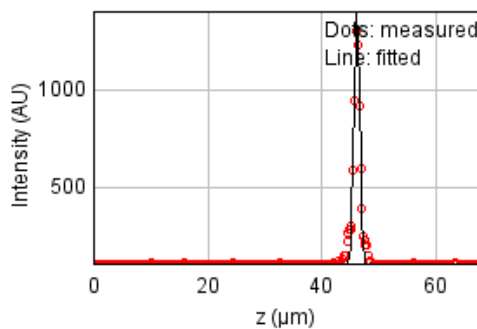
$b = 0.270$ px

$c = 0.487$ px

$x_c = 5.620$ px

$y_c = 5.215$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 132586.546

Standard deviation: 20.78167

$R^2: 0.97957$

Parameters:

$a = 114.06031$

$b = 1397.16835$

$c = 46.19636$

$d = 0.49198$

Bead 2076

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

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

Frame size : 10 pixels

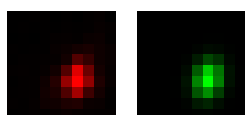
Coordinates : -140 μm (x), -75.4 μm (y), 46.2 μm (z)

Corresponding bead : Not found

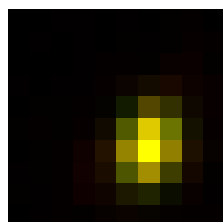
FWHM	Non corrected	Corrected	Theoretical
min	439 nm	454 nm	223 nm
max	584 nm	603 nm	223 nm
z	1.5 μm	1.51 μm	885 nm
Asymmetry	0.752		
Theta	75.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1263.065 (brightness)

B = 125.170 (background)

a = 0.679 px

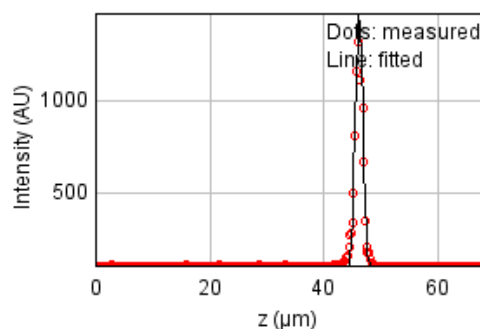
b = 0.072 px

c = 0.413 px

$x_c = 6.010$ px

$y_c = 5.785$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 335168.925

Standard deviation: 33.04172

R^2 : 0.96445

Parameters:

a = 112.25264

b = 1466.30659

c = 46.23748

d = 0.63672

Bead 2077

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

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

Frame size : 10 pixels

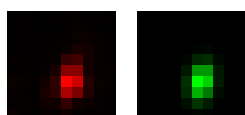
Coordinates : -127 μm (x), -88.0 μm (y), 46.0 μm (z)

Corresponding bead : Not found

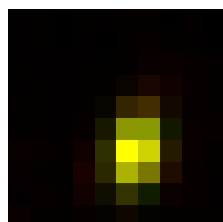
FWHM	Non corrected	Corrected	Theoretical
min	374 nm	386 nm	223 nm
max	562 nm	581 nm	223 nm
z	1.3 μm	1.31 μm	885 nm
Asymmetry	0.665		
Theta	79.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1426.356 (brightness)

B = 126.229 (background)

a = 0.941 px

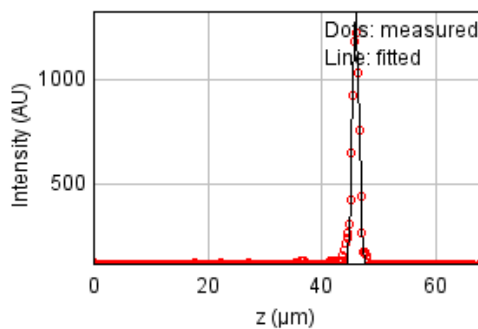
b = 0.100 px

c = 0.445 px

xc = 5.394 px

yc = 6.002 px

Z profile & fitting parameters:



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

Sum of residuals squared: 71354.0177

Standard deviation: 15.24544

R^2 : 0.98894

Parameters:

a = 114.14840

b = 1328.45877

c = 46.00507

d = 0.55331

Bead 2078

Date : Mon Oct 17 13:29:30 PDT 2022

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

Frame size : 10 pixels

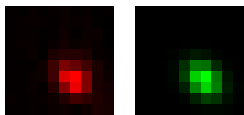
Coordinates : 159 μm (x), -94.9 μm (y), 45.8 μm (z)

Corresponding bead : Not found

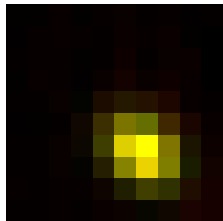
FWHM	Non corrected	Corrected	Theoretical
min	458 nm	474 nm	223 nm
max	601 nm	621 nm	223 nm
z	1.57 μm	1.58 μm	885 nm
Asymmetry	0.763		
Theta	-43.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 652.913 (brightness)

B = 114.404 (background)

a = 0.497 px

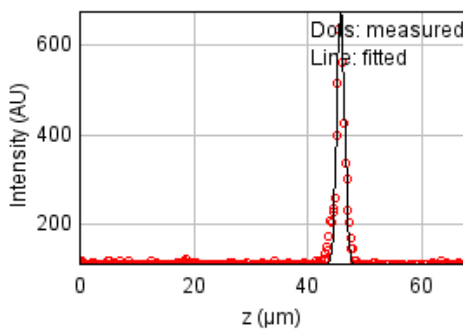
b = -0.134 px

c = 0.514 px

xc = 5.780 px

yc = 6.259 px

Z profile & fitting parameters:



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

Sum of residuals squared: 53769.4364

Standard deviation: 13.23423

R^2 : 0.96878

Parameters:

a = 110.66144

b = 677.19658

c = 45.82083

d = 0.66868

Bead 2079

Date : Mon Oct 17 13:29:30 PDT 2022

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

Frame size : 10 pixels

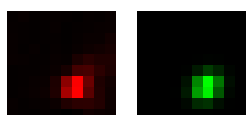
Coordinates : 130 μm (x), 52.9 μm (y), 46.6 μm (z)

Corresponding bead : Not found

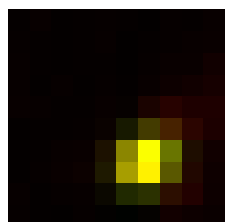
FWHM	Non corrected	Corrected	Theoretical
min	396 nm	409 nm	223 nm
max	465 nm	480 nm	223 nm
z	1.34 μm	1.35 μm	885 nm
Asymmetry	0.853		
Theta	39.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1137.975$ (brightness)

$B = 127.531$ (background)

$a = 0.716$ px

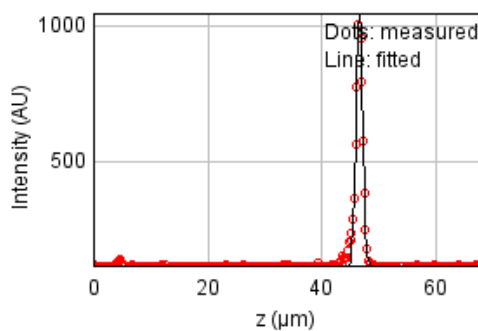
$b = 0.115$ px

$c = 0.761$ px

$x_c = 5.877$ px

$y_c = 6.480$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 45191.6538

Standard deviation: 12.13277

$R^2: 0.98849$

Parameters:

$a = 112.56247$

$b = 1046.07832$

$c = 46.63375$

$d = 0.57001$

Bead 2080

Date : Mon Oct 17 13:29:30 PDT 2022

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

Frame size : 10 pixels

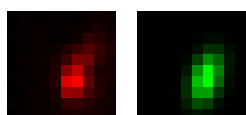
Coordinates : 88.2 μm (x), 43.4 μm (y), 46.3 μm (z)

Corresponding bead : Not found

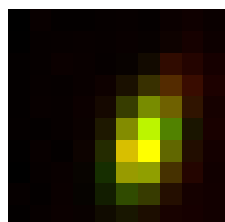
FWHM	Non corrected	Corrected	Theoretical
min	457 nm	472 nm	223 nm
max	797 nm	824 nm	223 nm
z	1.51 μm	1.51 μm	885 nm
Asymmetry	0.573		
Theta	70.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 572.091 (brightness)

B = 123.828 (background)

a = 0.597 px

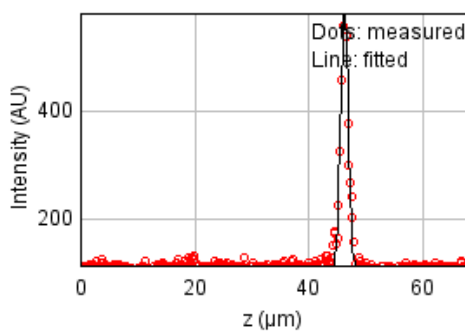
b = 0.134 px

c = 0.258 px

xc = 5.816 px

yc = 5.674 px

Z profile & fitting parameters:



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

Sum of residuals squared: 38524.8174

Standard deviation: 11.20214

R^2 : 0.96656

Parameters:

a = 113.22638

b = 585.78626

c = 46.30051

d = 0.64044

Bead 2081

Date : Mon Oct 17 13:29:30 PDT 2022

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

Frame size : 10 pixels

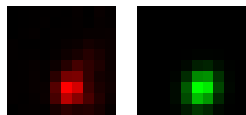
Coordinates : 76.4 μm (x), 25.3 μm (y), 47.2 μm (z)

Corresponding bead : Not found

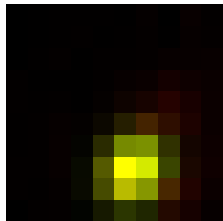
FWHM	Non corrected	Corrected	Theoretical
min	474 nm	490 nm	223 nm
max	558 nm	577 nm	223 nm
z	1.35 μm	1.36 μm	885 nm
Asymmetry	0.85		
Theta	64.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1105.306 (brightness)

B = 131.897 (background)

a = 0.565 px

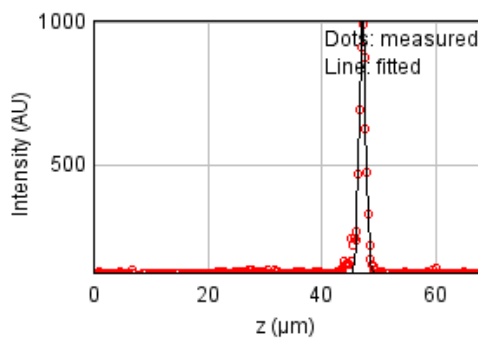
b = 0.065 px

c = 0.463 px

$x_c = 5.410$ px

$y_c = 7.105$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 65547.9302

Standard deviation: 14.61202

R^2 : 0.98236

Parameters:

a = 116.32540

b = 1018.83731

c = 47.17481

d = 0.57355

Bead 2082

Date : Mon Oct 17 13:29:30 PDT 2022

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

Frame size : 10 pixels

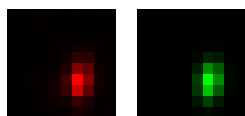
Coordinates : -46.2 μm (x), 18.9 μm (y), 46.5 μm (z)

Corresponding bead : Not found

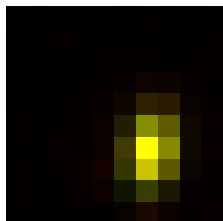
FWHM	Non corrected	Corrected	Theoretical
min	358 nm	370 nm	223 nm
max	567 nm	586 nm	223 nm
z	1.14 μm	1.15 μm	885 nm
Asymmetry	0.63		
Theta	82.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1589.413 (brightness)

B = 125.810 (background)

a = 1.038 px

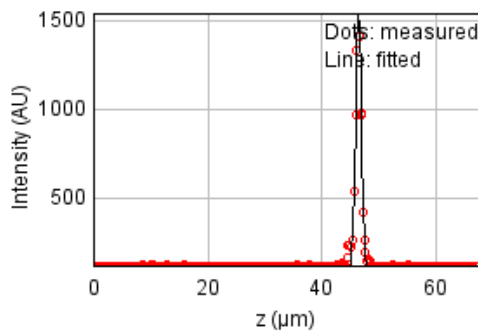
b = 0.086 px

c = 0.429 px

$x_c = 6.191$ px

$y_c = 6.144$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 152654.191

Standard deviation: 22.29899

R^2 : 0.98103

Parameters:

a = 114.76604

b = 1553.20643

c = 46.47835

d = 0.48593

Bead 2083

Date : Mon Oct 17 13:29:31 PDT 2022

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

Frame size : 10 pixels

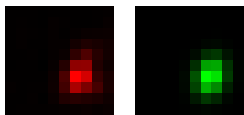
Coordinates : 65.6 μm (x), 14.3 μm (y), 46.9 μm (z)

Corresponding bead : Not found

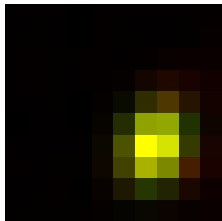
FWHM	Non corrected	Corrected	Theoretical
min	454 nm	469 nm	223 nm
max	590 nm	610 nm	223 nm
z	1.45 μm	1.46 μm	885 nm
Asymmetry	0.769		
Theta	72.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1661.363 (brightness)

B = 129.043 (background)

a = 0.628 px

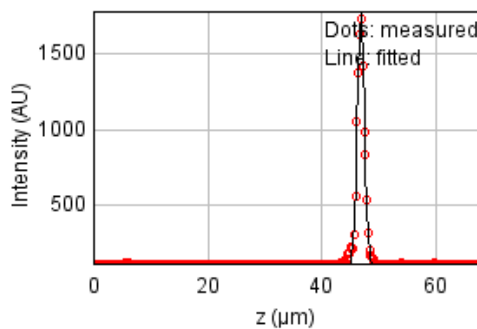
b = 0.076 px

c = 0.409 px

$x_c = 6.408$ px

$y_c = 5.980$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 202533.751

Standard deviation: 25.68500

R^2 : 0.98498

Parameters:

a = 114.57847

b = 1777.89189

c = 46.89978

d = 0.61567

Bead 2084 (Rejected)

Date : Mon Oct 17 13:29:31 PDT 2022

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

Frame size : 10 pixels

Coordinates : 42.2 μm (x), 8.14 μm (y), 9.24 μm (z)

Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	263 nm	264 nm	885 nm
Asymmetry	0.0		
Theta	0.0°		

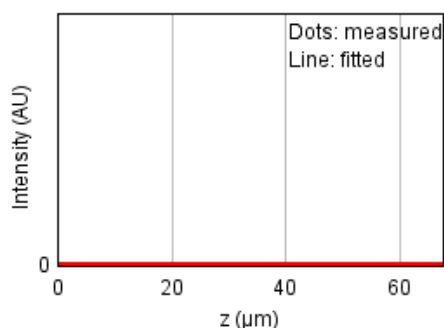
XY profile & fitting parameters :

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



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

Z profile & fitting parameters:



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

Sum of residuals squared: 0.00000E0

Standard deviation: 0.00000E0

R²: 0.00000

Parameters:

a = 0.00000E0

b = 0.00000E0

c = -0.11115

d = 0.11151

Bead 2085

Date : Mon Oct 17 13:29:31 PDT 2022

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

Frame size : 10 pixels

Coordinates : -159 μm (x), 5.98 μm (y), 46.5 μm (z)

Corresponding bead : Not found

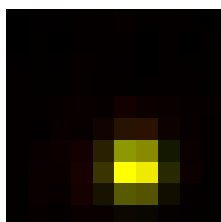
FWHM	Non corrected	Corrected	Theoretical
min	403 nm	417 nm	223 nm
max	414 nm	428 nm	223 nm
z	1.2 μm	1.2 μm	885 nm
Asymmetry	0.973		
Theta	-87.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1126.809 (brightness)

B = 121.503 (background)

a = 0.826 px

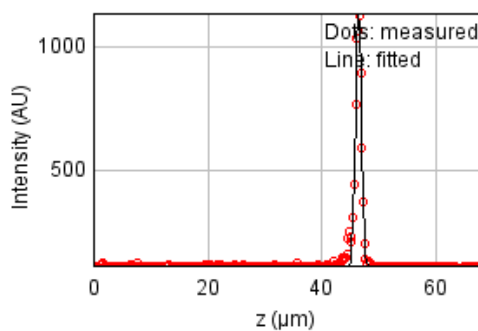
b = -0.002 px

c = 0.782 px

$x_c = 5.446$ px

$y_c = 6.835$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 74192.1341

Standard deviation: 15.54568

R^2 : 0.98256

Parameters:

a = 113.20073

b = 1136.54961

c = 46.47032

d = 0.50894

Bead 2086

Date : Mon Oct 17 13:29:31 PDT 2022

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

Frame size : 10 pixels

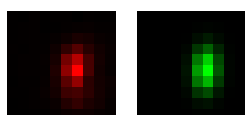
Coordinates : -12.4 μm (x), -37.8 μm (y), 46.1 μm (z)

Corresponding bead : Not found

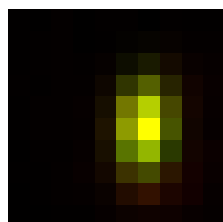
FWHM	Non corrected	Corrected	Theoretical
min	408 nm	421 nm	223 nm
max	697 nm	721 nm	223 nm
z	1.15 μm	1.16 μm	885 nm
Asymmetry	0.585		
Theta	87.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1569.045 (brightness)

B = 145.650 (background)

a = 0.807 px

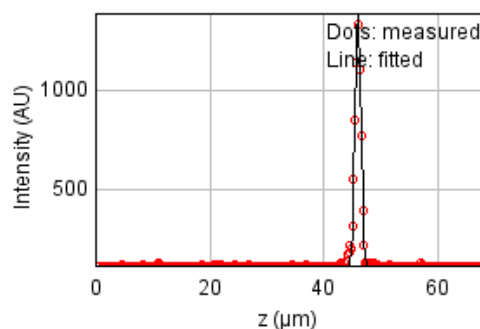
b = 0.025 px

c = 0.277 px

xc = 5.813 px

yc = 4.901 px

Z profile & fitting parameters:



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

Sum of residuals squared: 50424.0882

Standard deviation: 12.81592

R^2 : 0.99213

Parameters:

a = 114.57582

b = 1399.50505

c = 46.05865

d = 0.49048

Bead 2087

Date : Mon Oct 17 13:29:31 PDT 2022

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

Frame size : 10 pixels

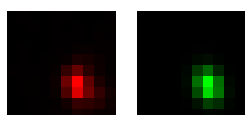
Coordinates : 48.4 μm (x), -46.1 μm (y), 46.8 μm (z)

Corresponding bead : Not found

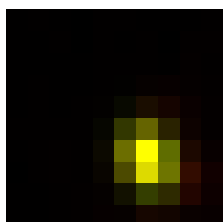
FWHM	Non corrected	Corrected	Theoretical
min	388 nm	401 nm	223 nm
max	514 nm	531 nm	223 nm
z	1.19 μm	1.2 μm	885 nm
Asymmetry	0.755		
Theta	-70.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2495.828 (brightness)

B = 137.169 (background)

a = 0.850 px

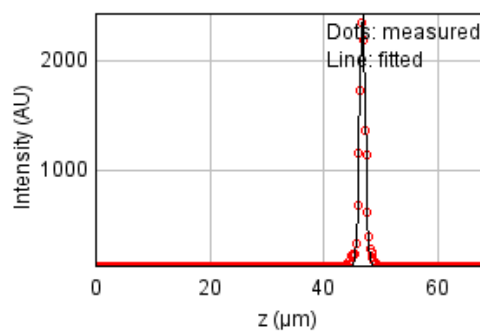
b = -0.118 px

c = 0.549 px

$x_c = 6.047$ px

$y_c = 6.365$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 192511.897

Standard deviation: 25.04146

R^2 : 0.99115

Parameters:

a = 115.82758

b = 2445.02632

c = 46.82826

d = 0.50693

Bead 2088

Date : Mon Oct 17 13:29:31 PDT 2022

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

Frame size : 10 pixels

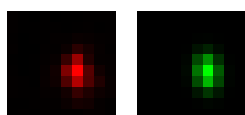
Coordinates : -15.9 μm (x), -61.4 μm (y), 46.4 μm (z)

Corresponding bead : Not found

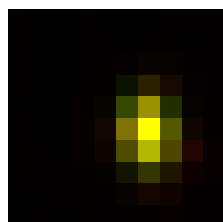
FWHM	Non corrected	Corrected	Theoretical
min	379 nm	392 nm	223 nm
max	547 nm	565 nm	223 nm
z	1.24 μm	1.24 μm	885 nm
Asymmetry	0.693		
Theta	-84.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1905.900 (brightness)

B = 126.750 (background)

a = 0.932 px

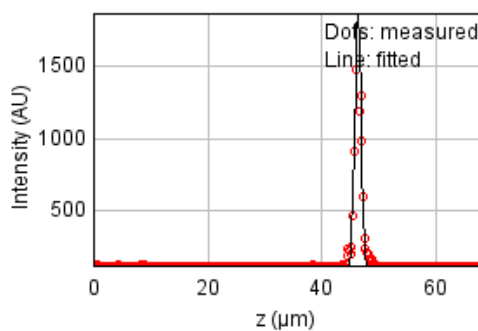
b = -0.043 px

c = 0.453 px

xc = 5.936 px

yc = 5.127 px

Z profile & fitting parameters:



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

Sum of residuals squared: 434616.985

Standard deviation: 37.62566

R^2 : 0.96694

Parameters:

a = 116.51829

b = 1873.47279

c = 46.37861

d = 0.52564

Bead 2089

Date : Mon Oct 17 13:29:32 PDT 2022

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

Frame size : 10 pixels

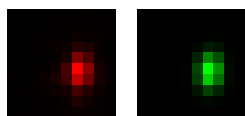
Coordinates : -53.9 μm (x), -78.2 μm (y), 45.8 μm (z)

Corresponding bead : Not found

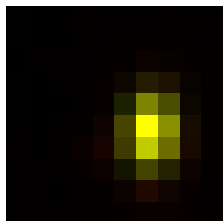
FWHM	Non corrected	Corrected	Theoretical
min	378 nm	391 nm	223 nm
max	551 nm	570 nm	223 nm
z	1.19 μm	1.2 μm	885 nm
Asymmetry	0.686		
Theta	87.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1683.627 (brightness)

B = 127.556 (background)

a = 0.936 px

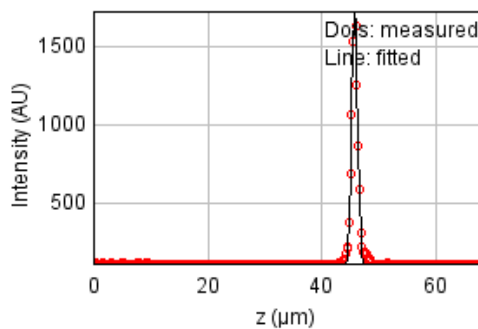
b = 0.026 px

c = 0.443 px

xc = 6.187 px

yc = 5.235 px

Z profile & fitting parameters:



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

Sum of residuals squared: 62775.4184

Standard deviation: 14.29966

R^2 : 0.99393

Parameters:

a = 114.91385

b = 1725.66082

c = 45.81422

d = 0.50552

Bead 2090 (Rejected)

Date : Mon Oct 17 13:29:32 PDT 2022

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

Frame size : 10 pixels

Coordinates : 150 μm (x), -86.4 μm (y), 46.0 μm (z)

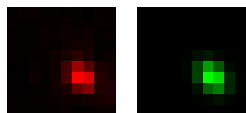
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

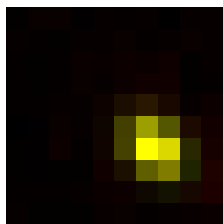
FWHM	Non corrected	Corrected	Theoretical
min	373 nm	385 nm	223 nm
max	503 nm	520 nm	223 nm
z	1.52 μm	1.52 μm	885 nm
Asymmetry	0.741		
Theta	-47.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 645.161 (brightness)

B = 112.698 (background)

a = 0.767 px

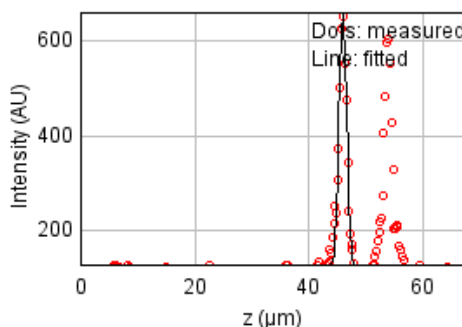
b = -0.217 px

c = 0.730 px

xc = 6.371 px

yc = 5.933 px

Z profile & fitting parameters:



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

Sum of residuals squared: 1453249.55

Standard deviation: 68.80198

R^2 : 0.49578

Parameters:

a = 127.54526

b = 661.30280

c = 46.02328

d = 0.64426

Bead 2091

Date : Mon Oct 17 13:29:32 PDT 2022

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

Frame size : 10 pixels

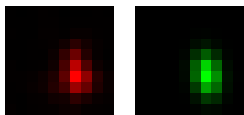
Coordinates : -71.0 μm (x), -89.1 μm (y), 46.6 μm (z)

Corresponding bead : Not found

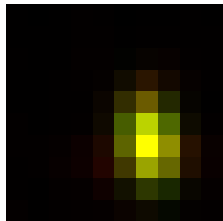
FWHM	Non corrected	Corrected	Theoretical
min	416 nm	430 nm	223 nm
max	655 nm	678 nm	223 nm
z	1.19 μm	1.19 μm	885 nm
Asymmetry	0.635		
Theta	-82.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1943.999 (brightness)

B = 136.391 (background)

a = 0.766 px

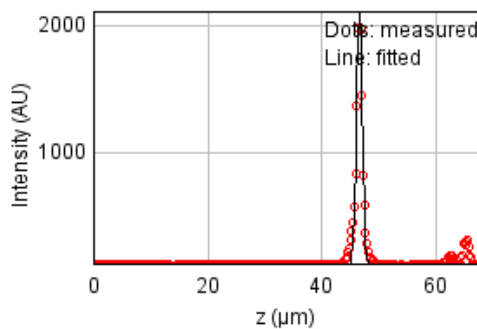
b = -0.061 px

c = 0.321 px

xc = 6.102 px

yc = 5.823 px

Z profile & fitting parameters:



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

Sum of residuals squared: 448223.189

Standard deviation: 38.21008

R^2 : 0.97227

Parameters:

a = 123.76859

b = 2116.06567

c = 46.64148

d = 0.50486

Bead 2092

Date : Mon Oct 17 13:29:32 PDT 2022

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

Frame size : 10 pixels

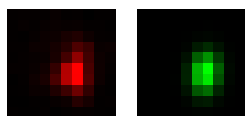
Coordinates : -86.5 μm (x), 91.9 μm (y), 46.9 μm (z)

Corresponding bead : Not found

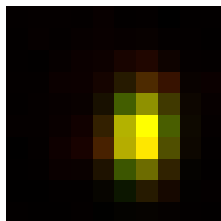
FWHM	Non corrected	Corrected	Theoretical
min	442 nm	457 nm	223 nm
max	639 nm	660 nm	223 nm
z	1.44 μm	1.45 μm	885 nm
Asymmetry	0.693		
Theta	84.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1068.286 (brightness)

B = 130.631 (background)

a = 0.682 px

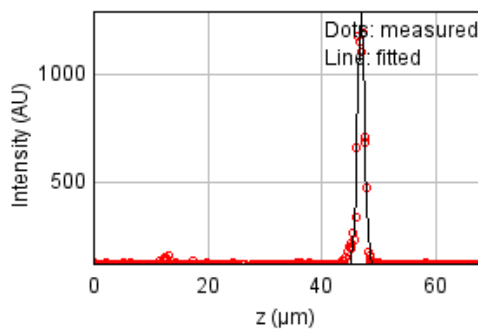
b = 0.035 px

c = 0.332 px

xc = 5.745 px

yc = 5.376 px

Z profile & fitting parameters:



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

Sum of residuals squared: 231644.102

Standard deviation: 27.46891

R^2 : 0.96639

Parameters:

a = 116.22002

b = 1297.97093

c = 46.93025

d = 0.61162

Bead 2093

Date : Mon Oct 17 13:29:32 PDT 2022

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

Frame size : 10 pixels

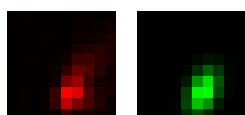
Coordinates : 107 um (x), 90.9 um (y), 46.7 um (z)

Corresponding bead : Not found

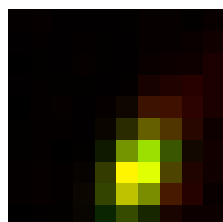
FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	694 nm	717 nm	223 nm
z	1.84 um	1.85 um	885 nm
Asymmetry	0.602		
Theta	65.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.903$



Parameters:

A = 798.358 (brightness)

B = 128.563 (background)

a = 0.686 px

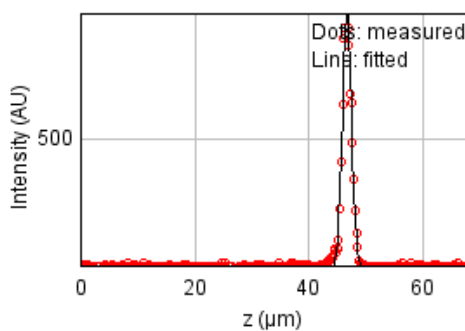
b = 0.184 px

c = 0.362 px

xc = 5.556 px

yc = 6.906 px

Z profile & fitting parameters:



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

Sum of residuals squared: 46056.7950

Standard deviation: 12.24835

R^2 : 0.98760

Parameters:

a = 112.71308

b = 891.69433

c = 46.74817

d = 0.78219

Bead 2094

Date : Mon Oct 17 13:29:32 PDT 2022

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

Frame size : 10 pixels

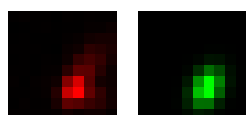
Coordinates : 90.2 μm (x), 69.0 μm (y), 47.0 μm (z)

Corresponding bead : Not found

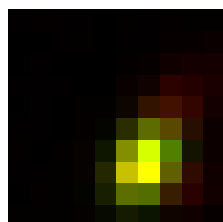
FWHM	Non corrected	Corrected	Theoretical
min	433 nm	447 nm	223 nm
max	618 nm	639 nm	223 nm
z	1.44 μm	1.44 μm	885 nm
Asymmetry	0.7		
Theta	62.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1147.617$ (brightness)

$B = 139.161$ (background)

$a = 0.640$ px

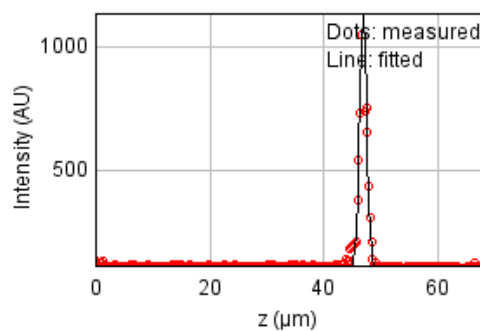
$b = 0.149$ px

$c = 0.428$ px

$x_c = 5.823$ px

$y_c = 6.566$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 157961.018

Standard deviation: 22.68328

$R^2: 0.96966$

Parameters:

$a = 114.95727$

$b = 1144.59634$

$c = 46.96278$

$d = 0.61051$

Bead 2095

Date : Mon Oct 17 13:29:32 PDT 2022

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

Frame size : 10 pixels

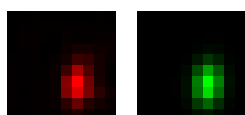
Coordinates : -440 nm (x), 54.9 um (y), 46.8 um (z)

Corresponding bead : Not found

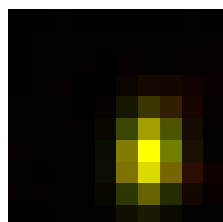
FWHM	Non corrected	Corrected	Theoretical
min	434 nm	448 nm	223 nm
max	656 nm	678 nm	223 nm
z	1.24 um	1.24 um	885 nm
Asymmetry	0.661		
Theta	84.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1390.347 (brightness)

B = 124.365 (background)

a = 0.710 px

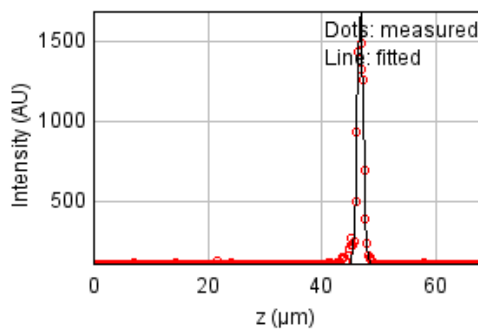
b = 0.036 px

c = 0.315 px

xc = 6.000 px

yc = 6.256 px

Z profile & fitting parameters:



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

Sum of residuals squared: 214495.410

Standard deviation: 26.43260

R^2 : 0.97955

Parameters:

a = 115.37369

b = 1695.88317

c = 46.78194

d = 0.52498

Bead 2096

Date : Mon Oct 17 13:29:32 PDT 2022

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

Frame size : 10 pixels

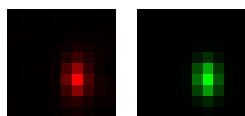
Coordinates : -3.76 μm (x), 30.2 μm (y), 46.7 μm (z)

Corresponding bead : Not found

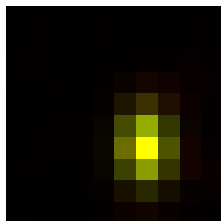
FWHM	Non corrected	Corrected	Theoretical
min	369 nm	381 nm	223 nm
max	549 nm	568 nm	223 nm
z	1.1 μm	1.11 μm	885 nm
Asymmetry	0.672		
Theta	-88.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1619.509 (brightness)

B = 130.401 (background)

a = 0.985 px

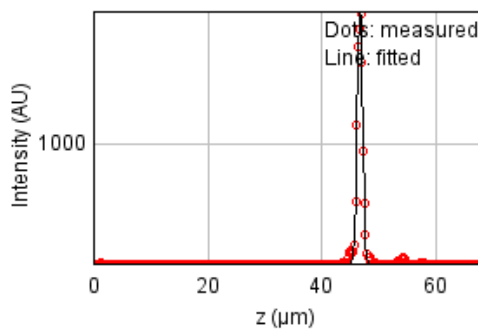
b = -0.011 px

c = 0.445 px

xc = 5.931 px

yc = 5.942 px

Z profile & fitting parameters:



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

Sum of residuals squared: 109380.345

Standard deviation: 18.87559

R^2 : 0.99178

Parameters:

a = 117.99139

b = 2012.15221

c = 46.73162

d = 0.46797

Bead 2097

Date : Mon Oct 17 13:29:33 PDT 2022

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

Frame size : 10 pixels

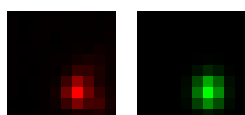
Coordinates : 52.2 μm (x), 25.3 μm (y), 47.4 μm (z)

Corresponding bead : Not found

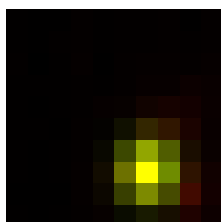
FWHM	Non corrected	Corrected	Theoretical
min	436 nm	451 nm	223 nm
max	506 nm	523 nm	223 nm
z	1.41 μm	1.42 μm	885 nm
Asymmetry	0.861		
Theta	87.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1412.965$ (brightness)

$B = 134.454$ (background)

$a = 0.706$ px

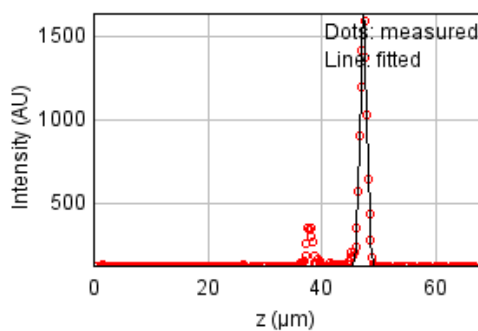
$b = 0.009$ px

$c = 0.524$ px

$x_c = 6.077$ px

$y_c = 6.912$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 313691.094

Standard deviation: 31.96553

$R^2: 0.97176$

Parameters:

$a = 121.01544$

$b = 1639.95135$

$c = 47.35029$

$d = 0.59945$

Bead 2098

Date : Mon Oct 17 13:29:33 PDT 2022

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

Frame size : 10 pixels

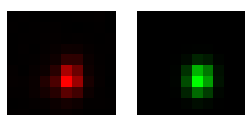
Coordinates : -98.1 μm (x), -23.7 μm (y), 46.9 μm (z)

Corresponding bead : Not found

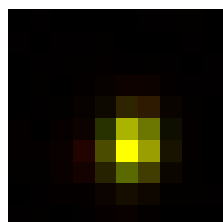
FWHM	Non corrected	Corrected	Theoretical
min	397 nm	410 nm	223 nm
max	468 nm	484 nm	223 nm
z	1.12 μm	1.12 μm	885 nm
Asymmetry	0.847		
Theta	80.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2154.438 (brightness)

B = 136.148 (background)

a = 0.846 px

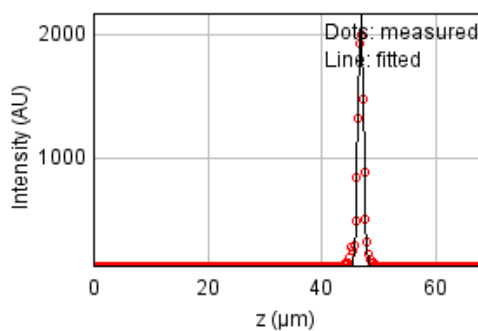
b = 0.040 px

c = 0.618 px

$x_c = 5.225$ px

$y_c = 5.775$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 113389.421

Standard deviation: 19.21839

R^2 : 0.99290

Parameters:

a = 115.60625

b = 2178.62613

c = 46.87759

d = 0.47428

Bead 2099

Date : Mon Oct 17 13:29:33 PDT 2022

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

Frame size : 10 pixels

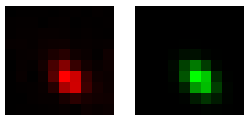
Coordinates : 151 μm (x), -61.7 μm (y), 46.4 μm (z)

Corresponding bead : Not found

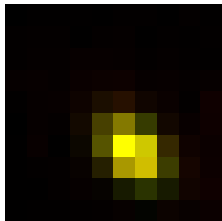
FWHM	Non corrected	Corrected	Theoretical
min	388 nm	401 nm	223 nm
max	565 nm	584 nm	223 nm
z	1.4 μm	1.4 μm	885 nm
Asymmetry	0.687		
Theta	-47.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1031.626 (brightness)

B = 121.278 (background)

a = 0.680 px

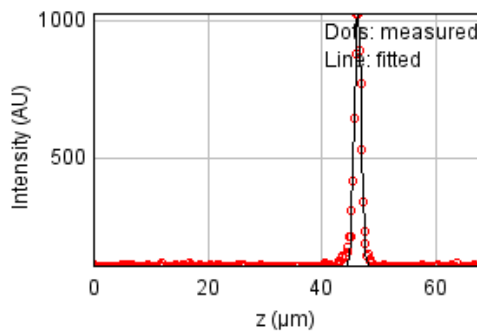
b = -0.234 px

c = 0.632 px

$x_c = 5.400$ px

$y_c = 6.238$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 38024.6773

Standard deviation: 11.12919

R^2 : 0.99038

Parameters:

a = 111.19081

b = 1030.41718

c = 46.35339

d = 0.59314

Bead 2100

Date : Mon Oct 17 13:29:33 PDT 2022

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

Frame size : 10 pixels

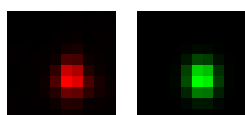
Coordinates : -11.3 μm (x), -81.6 μm (y), 46.7 μm (z)

Corresponding bead : Not found

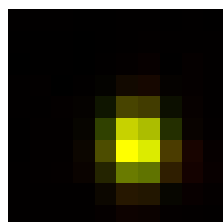
FWHM	Non corrected	Corrected	Theoretical
min	458 nm	473 nm	223 nm
max	537 nm	555 nm	223 nm
z	1.37 μm	1.37 μm	885 nm
Asymmetry	0.852		
Theta	-86.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1966.231 (brightness)

B = 126.709 (background)

a = 0.640 px

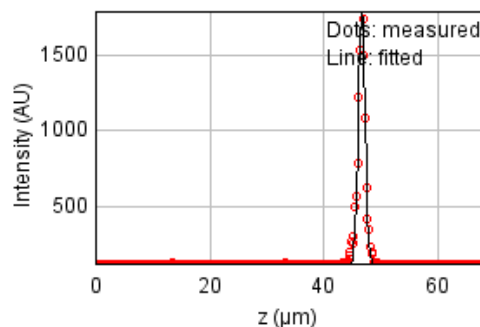
b = -0.011 px

c = 0.466 px

$x_c = 5.430$ px

$y_c = 5.721$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 156148.309

Standard deviation: 22.55275

R^2 : 0.98798

Parameters:

a = 116.30364

b = 1797.04594

c = 46.70174

d = 0.58144