

Bead 201

Date : Mon Oct 17 13:50:41 PDT 2022

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

Frame size : 12 pixels

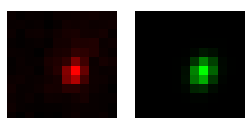
Coordinates : -111 μm (x), -56.0 μm (y), 4.67 μm (z)

Corresponding bead : Not found

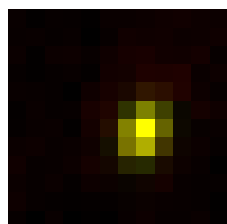
FWHM	Non corrected	Corrected	Theoretical
min	395 nm	411 nm	270 nm
max	526 nm	547 nm	270 nm
z	2.21 μm	2.22 μm	1.3 μm
Asymmetry	0.751		
Theta	68.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 349.610$ (brightness)

$B = 118.434$ (background)

$a = 0.813$ px

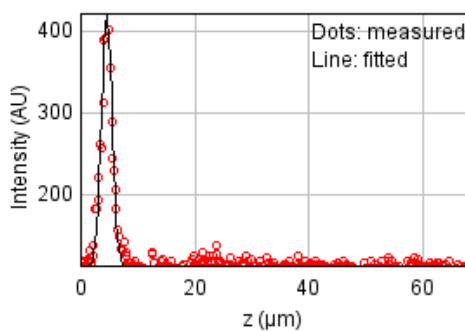
$b = 0.126$ px

$c = 0.535$ px

$x_c = 6.889$ px

$y_c = 6.170$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 26597.5993

Standard deviation: 9.30791

$R^2: 0.96245$

Parameters:

$a = 113.52250$

$b = 421.35366$

$c = 4.66638$

$d = 0.93919$

Bead 202 (Rejected)

Date : Mon Oct 17 13:50:42 PDT 2022

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

Frame size : 12 pixels

Coordinates : 20.9 μm (x), -95.6 μm (y), 2.58 μm (z)

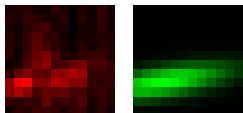
Corresponding bead : Not found

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

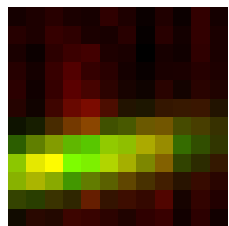
FWHM	Non corrected	Corrected	Theoretical
min	555 nm	578 nm	270 nm
max	2.44 μm	2.54 μm	270 nm
z	1.51 μm	1.51 μm	1.3 μm
Asymmetry	0.227		
Theta	9.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.693$



Parameters:

A = 94.388 (brightness)

B = 123.259 (background)

a = 0.034 px

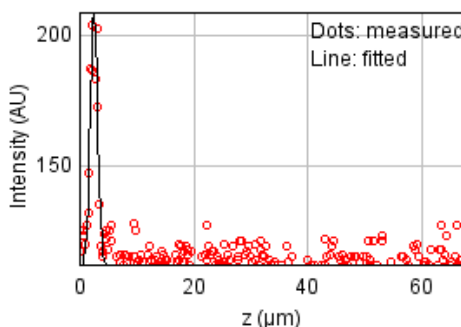
b = 0.068 px

c = 0.425 px

xc = 2.894 px

yc = 7.906 px

Z profile & fitting parameters:



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

Sum of residuals squared: 11411.5139

Standard deviation: 6.09681

R^2 : 0.80229

Parameters:

a = 112.55976

b = 208.99082

c = 2.58429

d = 0.63948

Bead 203

Date : Mon Oct 17 13:50:42 PDT 2022

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

Frame size : 12 pixels

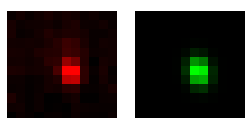
Coordinates : -96.3 μm (x), 79.3 μm (y), 5.35 μm (z)

Corresponding bead : Not found

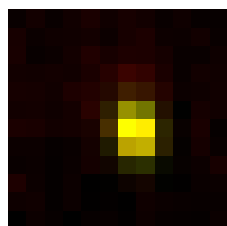
FWHM	Non corrected	Corrected	Theoretical
min	387 nm	403 nm	270 nm
max	522 nm	544 nm	270 nm
z	2.2 μm	2.21 μm	1.3 μm
Asymmetry	0.74		
Theta	-79.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 365.747$ (brightness)

$B = 121.272$ (background)

$a = 0.885$ px

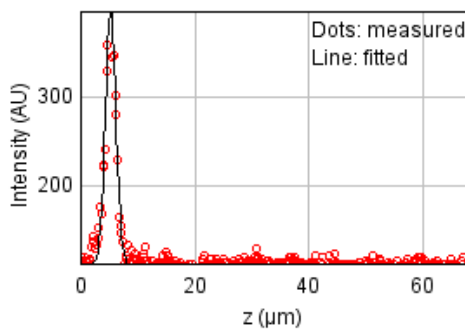
$b = -0.071$ px

$c = 0.505$ px

$x_c = 6.468$ px

$y_c = 6.124$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 22044.0518

Standard deviation: 8.47377

$R^2: 0.96303$

Parameters:

$a = 112.73813$

$b = 396.07026$

$c = 5.34649$

$d = 0.93354$

Bead 204

Date : Mon Oct 17 13:50:42 PDT 2022

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

Frame size : 12 pixels

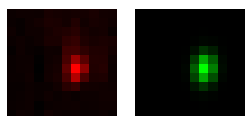
Coordinates : 66.7 μm (x), 38.2 μm (y), 5.66 μm (z)

Corresponding bead : Not found

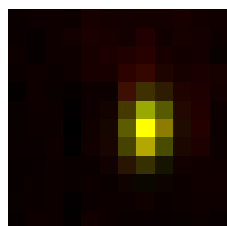
FWHM	Non corrected	Corrected	Theoretical
min	394 nm	410 nm	270 nm
max	570 nm	594 nm	270 nm
z	2.21 μm	2.22 μm	1.3 μm
Asymmetry	0.691		
Theta	85.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 404.065 (brightness)

B = 123.048 (background)

a = 0.863 px

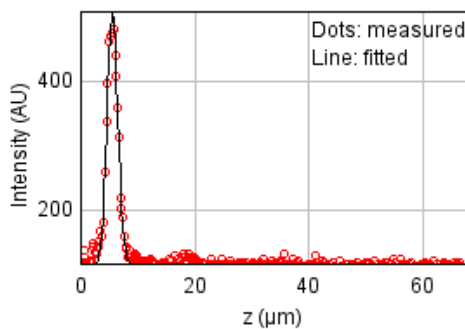
b = 0.039 px

c = 0.417 px

xc = 7.087 px

yc = 5.989 px

Z profile & fitting parameters:



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

Sum of residuals squared: 24984.6923

Standard deviation: 9.02127

R^2 : 0.97834

Parameters:

a = 114.09647

b = 510.54935

c = 5.66322

d = 0.93717

Bead 205

Date : Mon Oct 17 13:50:42 PDT 2022

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

Frame size : 12 pixels

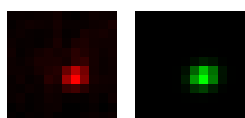
Coordinates : -66.4 μm (x), 14.9 μm (y), 5.25 μm (z)

Corresponding bead : Not found

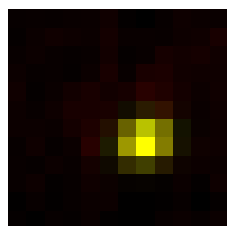
FWHM	Non corrected	Corrected	Theoretical
min	394 nm	410 nm	270 nm
max	477 nm	496 nm	270 nm
z	2.12 μm	2.13 μm	1.3 μm
Asymmetry	0.826		
Theta	18.0°		

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:

$A = 402.620$ (brightness)

$B = 121.856$ (background)

$a = 0.617$ px

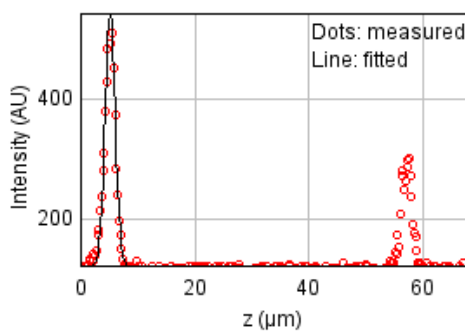
$b = 0.081$ px

$c = 0.840$ px

$x_c = 6.961$ px

$y_c = 6.667$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 276866.071

Standard deviation: 30.03072

$R^2: 0.81611$

Parameters:

$a = 120.61104$

$b = 542.19186$

$c = 5.25001$

$d = 0.90057$

Bead 206

Date : Mon Oct 17 13:50:42 PDT 2022

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

Frame size : 12 pixels

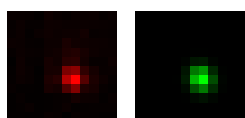
Coordinates : -37.0 μm (x), -967 nm (y), 5.51 μm (z)

Corresponding bead : Not found

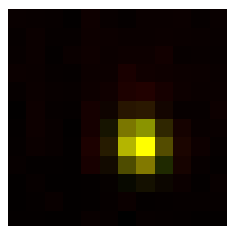
FWHM	Non corrected	Corrected	Theoretical
min	409 nm	426 nm	270 nm
max	465 nm	485 nm	270 nm
z	2.01 μm	2.02 μm	1.3 μm
Asymmetry	0.879		
Theta	-67.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 590.876$ (brightness)

$B = 124.674$ (background)

$a = 0.777$ px

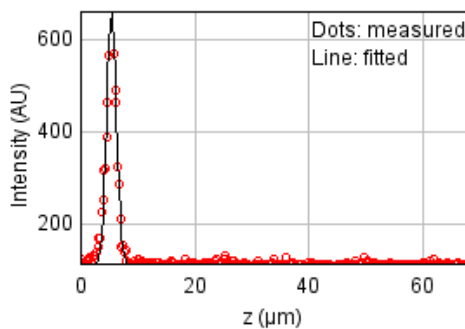
$b = -0.064$ px

$c = 0.646$ px

$x_c = 6.711$ px

$y_c = 6.895$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 35619.4261

Standard deviation: 10.77145

$R^2: 0.98217$

Parameters:

$a = 112.61858$

$b = 658.74163$

$c = 5.50844$

$d = 0.85473$

Bead 207 (Rejected)

Date : Mon Oct 17 13:50:43 PDT 2022

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

Frame size : 12 pixels

Coordinates : 116 um (x), -95.8 um (y), 4.97 um (z)

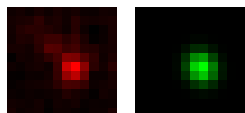
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

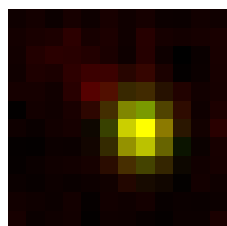
FWHM	Non corrected	Corrected	Theoretical
min	525 nm	547 nm	270 nm
max	598 nm	623 nm	270 nm
z	2.29 um	2.3 um	1.3 um
Asymmetry	0.878		
Theta	-68.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.878$



Parameters:

A = 213.788 (brightness)

B = 120.619 (background)

a = 0.471 px

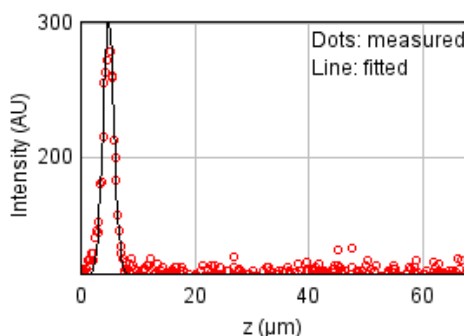
b = -0.038 px

c = 0.391 px

xc = 6.730 px

yc = 6.122 px

Z profile & fitting parameters:



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

Sum of residuals squared: 13226.6338

Standard deviation: 6.56380

R^2 : 0.95317

Parameters:

a = 112.32127

b = 302.53668

c = 4.96790

d = 0.97314

Bead 208

Date : Mon Oct 17 13:50:43 PDT 2022

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

Frame size : 12 pixels

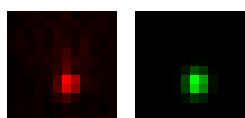
Coordinates : 83.4 um (x), 83.6 um (y), 5.34 um (z)

Corresponding bead : Not found

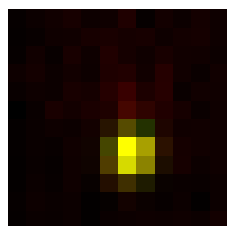
FWHM	Non corrected	Corrected	Theoretical
min	390 nm	406 nm	270 nm
max	443 nm	461 nm	270 nm
z	1.99 um	2.0 um	1.3 um
Asymmetry	0.88		
Theta	84.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 424.171 (brightness)

B = 123.518 (background)

a = 0.881 px

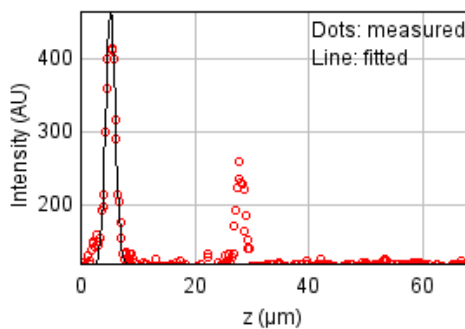
b = 0.019 px

c = 0.686 px

xc = 6.227 px

yc = 7.378 px

Z profile & fitting parameters:



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

Sum of residuals squared: 130910.572

Standard deviation: 20.64991

R^2 : 0.85733

Parameters:

a = 118.41413

b = 466.22150

c = 5.33516

d = 0.84446

Bead 209

Date : Mon Oct 17 13:50:43 PDT 2022

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

Frame size : 12 pixels

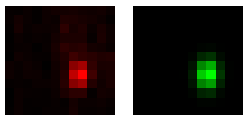
Coordinates : 61.7 μm (x), 54.5 μm (y), 5.28 μm (z)

Corresponding bead : Not found

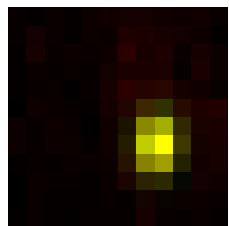
FWHM	Non corrected	Corrected	Theoretical
min	391 nm	407 nm	270 nm
max	558 nm	581 nm	270 nm
z	2.46 μm	2.47 μm	1.3 μm
Asymmetry	0.7		
Theta	88.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 352.238$ (brightness)

$B = 121.706$ (background)

$a = 0.879$ px

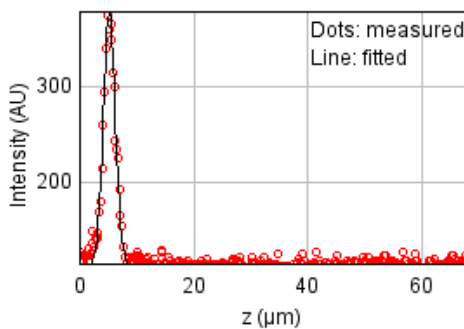
$b = 0.014$ px

$c = 0.431$ px

$x_c = 7.628$ px

$y_c = 6.953$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 18359.9015

Standard deviation: 7.73332

$R^2: 0.96791$

Parameters:

$a = 113.58546$

$b = 377.59576$

$c = 5.27879$

$d = 1.04309$

Bead 210

Date : Mon Oct 17 13:50:43 PDT 2022

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

Frame size : 12 pixels

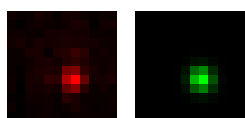
Coordinates : -141 μm (x), 36.9 μm (y), 5.48 μm (z)

Corresponding bead : Not found

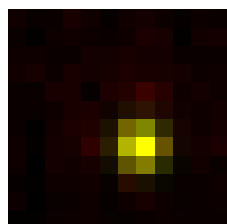
FWHM	Non corrected	Corrected	Theoretical
min	422 nm	440 nm	270 nm
max	448 nm	467 nm	270 nm
z	2.76 μm	2.78 μm	1.3 μm
Asymmetry	0.942		
Theta	-72.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 290.434 (brightness)

B = 117.141 (background)

a = 0.744 px

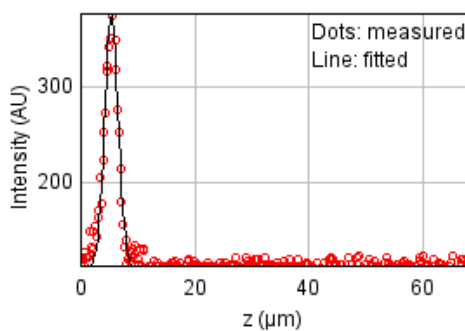
b = -0.025 px

c = 0.676 px

xc = 6.729 px

yc = 6.960 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22212.0701

Standard deviation: 8.50600

R^2 : 0.96571

Parameters:

a = 111.66934

b = 377.12581

c = 5.48139

d = 1.17401

Bead 211 (Rejected)

Date : Mon Oct 17 13:50:44 PDT 2022

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

Frame size : 12 pixels

Coordinates : 135 μm (x), 199 nm (y), 5.16 μm (z)

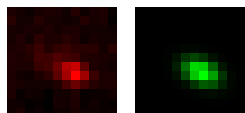
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

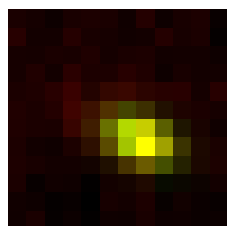
FWHM	Non corrected	Corrected	Theoretical
min	437 nm	455 nm	270 nm
max	686 nm	715 nm	270 nm
z	3.03 μm	3.04 μm	1.3 μm
Asymmetry	0.637		
Theta	-24.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 211.230 (brightness)

B = 122.302 (background)

a = 0.358 px

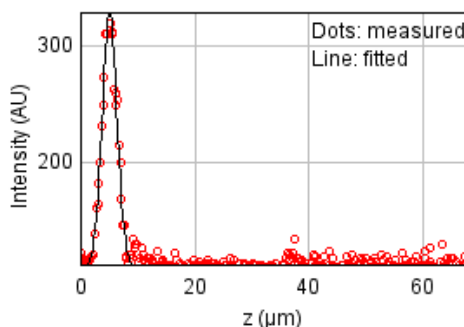
b = -0.158 px

c = 0.630 px

xc = 6.678 px

yc = 6.594 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16459.9047

Standard deviation: 7.32225

R^2 : 0.96505

Parameters:

a = 111.61723

b = 328.50000

c = 5.15794

d = 1.28564

Bead 212

Date : Mon Oct 17 13:50:44 PDT 2022

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

Frame size : 12 pixels

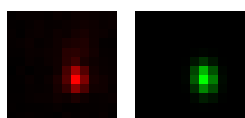
Coordinates : -17.1 μm (x), -6.68 μm (y), 5.77 μm (z)

Corresponding bead : Not found

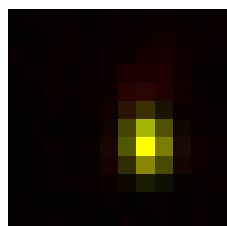
FWHM	Non corrected	Corrected	Theoretical
min	386 nm	402 nm	270 nm
max	529 nm	551 nm	270 nm
z	2.02 μm	2.02 μm	1.3 μm
Asymmetry	0.73		
Theta	-83.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 780.738$ (brightness)

$B = 128.046$ (background)

$a = 0.894$ px

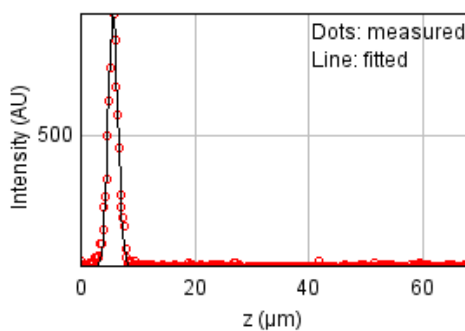
$b = -0.046$ px

$c = 0.484$ px

$x_c = 7.091$ px

$y_c = 6.861$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 42524.6495

Standard deviation: 11.76931

$R^2: 0.98852$

Parameters:

$a = 114.84840$

$b = 860.30778$

$c = 5.77295$

$d = 0.85614$

Bead 213 (Rejected)

Date : Mon Oct 17 13:50:44 PDT 2022

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

Frame size : 12 pixels

Coordinates : 136 μm (x), -29.8 μm (y), 5.03 μm (z)

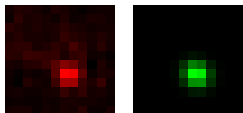
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

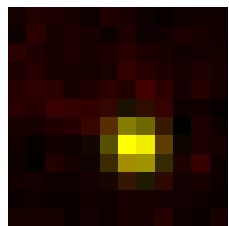
FWHM	Non corrected	Corrected	Theoretical
min	442 nm	460 nm	270 nm
max	485 nm	505 nm	270 nm
z	2.91 μm	2.93 μm	1.3 μm
Asymmetry	0.911		
Theta	-38.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.882$



Parameters:

A = 184.945 (brightness)

B = 119.567 (background)

a = 0.615 px

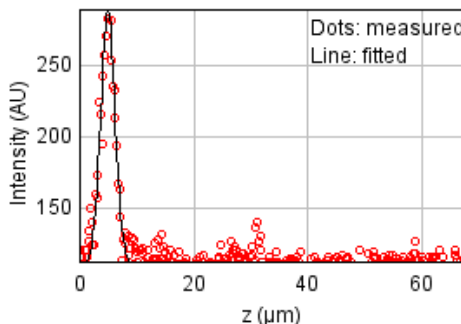
b = -0.057 px

c = 0.642 px

xc = 6.444 px

yc = 7.088 px

Z profile & fitting parameters:



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

Sum of residuals squared: 21849.7792

Standard deviation: 8.43635

R^2 : 0.92995

Parameters:

a = 112.27940

b = 288.64129

c = 5.03318

d = 1.23766

Bead 214

Date : Mon Oct 17 13:50:45 PDT 2022

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

Frame size : 12 pixels

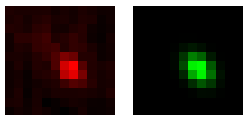
Coordinates : 122 μm (x), -34.7 μm (y), 5.27 μm (z)

Corresponding bead : Not found

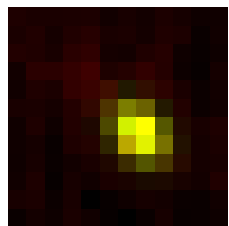
FWHM	Non corrected	Corrected	Theoretical
min	440 nm	458 nm	270 nm
max	597 nm	622 nm	270 nm
z	3.01 μm	3.02 μm	1.3 μm
Asymmetry	0.737		
Theta	-51.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.912$



Parameters:

A = 268.055 (brightness)

B = 121.729 (background)

a = 0.568 px

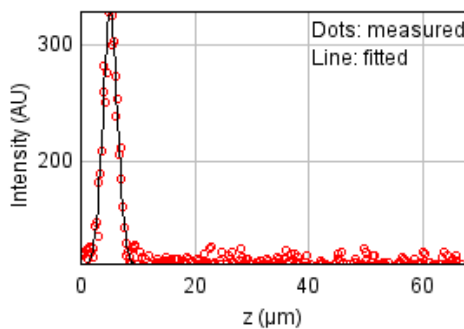
b = -0.155 px

c = 0.502 px

$x_c = 6.643$ px

$y_c = 6.339$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 17847.0908

Standard deviation: 7.62456

R^2 : 0.96215

Parameters:

a = 111.29941

b = 328.69568

c = 5.27030

d = 1.27690

Bead 215

Date : Mon Oct 17 13:50:45 PDT 2022

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

Frame size : 12 pixels

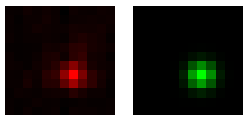
Coordinates : -64.9 μm (x), -43.0 μm (y), 5.61 μm (z)

Corresponding bead : Not found

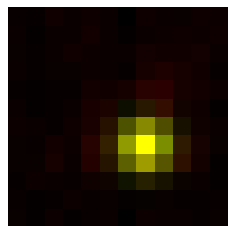
FWHM	Non corrected	Corrected	Theoretical
min	489 nm	509 nm	270 nm
max	499 nm	520 nm	270 nm
z	2.23 μm	2.24 μm	1.3 μm
Asymmetry	0.98		
Theta	31.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 459.969 (brightness)

B = 124.988 (background)

a = 0.545 px

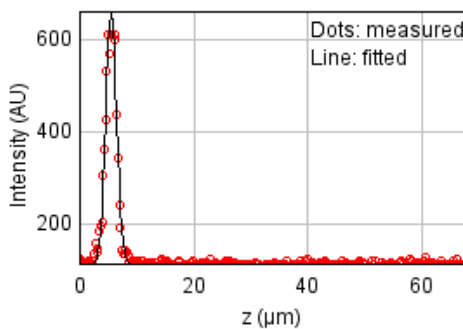
b = 0.010 px

c = 0.555 px

xc = 6.959 px

yc = 7.054 px

Z profile & fitting parameters:



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

Sum of residuals squared: 42896.6483

Standard deviation: 11.82068

R^2 : 0.98077

Parameters:

a = 113.02218

b = 661.78680

c = 5.61286

d = 0.94893

Bead 216 (Rejected)

Date : Mon Oct 17 13:50:45 PDT 2022

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

Frame size : 12 pixels

Coordinates : 111 μm (x), -73.4 μm (y), 3.42 μm (z)

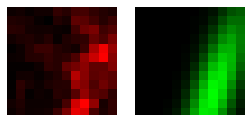
Corresponding bead : Not found

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

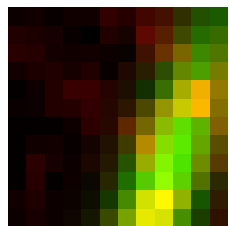
FWHM	Non corrected	Corrected	Theoretical
min	774 nm	806 nm	270 nm
max	3.47 μm	3.62 μm	270 nm
z	3.96 μm	3.97 μm	1.3 μm
Asymmetry	0.223		
Theta	71.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.673$



Parameters:

A = 92.057 (brightness)

B = 115.936 (background)

a = 0.203 px

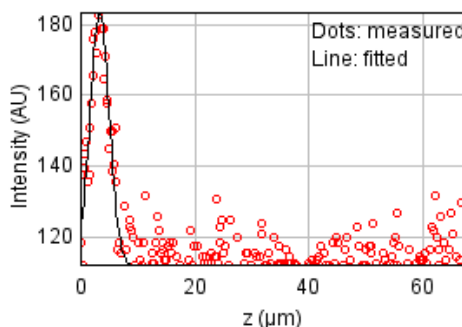
b = 0.063 px

c = 0.032 px

xc = 7.978 px

yc = 9.136 px

Z profile & fitting parameters:



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

Sum of residuals squared: 14304.0363

Standard deviation: 6.82590

R^2 : 0.81439

Parameters:

a = 112.13810

b = 183.37362

c = 3.42078

d = 1.68011

Bead 217

Date : Mon Oct 17 13:50:45 PDT 2022

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

Frame size : 12 pixels

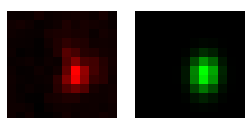
Coordinates : 66.0 μm (x), -75.0 μm (y), 5.16 μm (z)

Corresponding bead : Not found

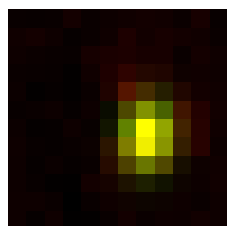
FWHM	Non corrected	Corrected	Theoretical
min	492 nm	512 nm	270 nm
max	656 nm	683 nm	270 nm
z	2.26 μm	2.27 μm	1.3 μm
Asymmetry	0.749		
Theta	86.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 290.918$ (brightness)

$B = 118.726$ (background)

$a = 0.554$ px

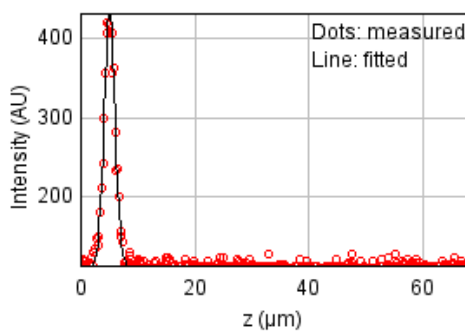
$b = 0.016$ px

$c = 0.313$ px

$x_c = 7.096$ px

$y_c = 6.385$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 15704.6610

Standard deviation: 7.15229

$R^2: 0.97946$

Parameters:

$a = 113.14140$

$b = 432.15004$

$c = 5.15755$

$d = 0.96169$

Bead 218 (Rejected)

Date : Mon Oct 17 13:50:46 PDT 2022

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

Frame size : 12 pixels

Coordinates : -161 μm (x), -86.6 μm (y), 3.97 μm (z)

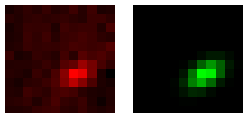
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

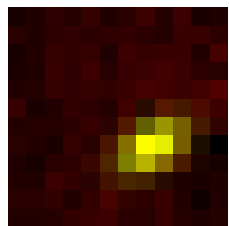
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	424 nm	270 nm
max	695 nm	724 nm	270 nm
z	2.38 μm	2.39 μm	1.3 μm
Asymmetry	0.586		
Theta	32.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.850$



Parameters:

A = 109.133 (brightness)

B = 114.598 (background)

a = 0.435 px

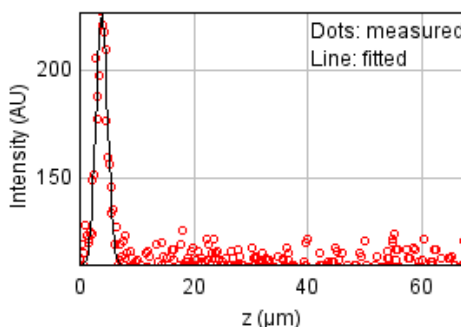
b = 0.243 px

c = 0.654 px

xc = 7.392 px

yc = 7.085 px

Z profile & fitting parameters:



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

Sum of residuals squared: 14523.7413

Standard deviation: 6.87813

R^2 : 0.87667

Parameters:

a = 110.30657

b = 226.06485

c = 3.96663

d = 1.00962

Bead 219

Date : Mon Oct 17 13:50:46 PDT 2022

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

Frame size : 12 pixels

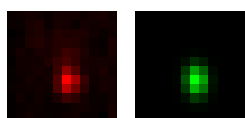
Coordinates : 72.0 μm (x), 71.2 μm (y), 5.54 μm (z)

Corresponding bead : Not found

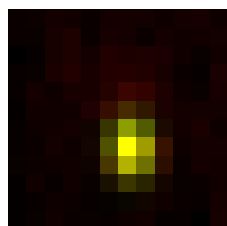
FWHM	Non corrected	Corrected	Theoretical
min	406 nm	423 nm	270 nm
max	566 nm	590 nm	270 nm
z	2.15 μm	2.16 μm	1.3 μm
Asymmetry	0.717		
Theta	-86.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 329.259$ (brightness)

$B = 122.748$ (background)

$a = 0.813$ px

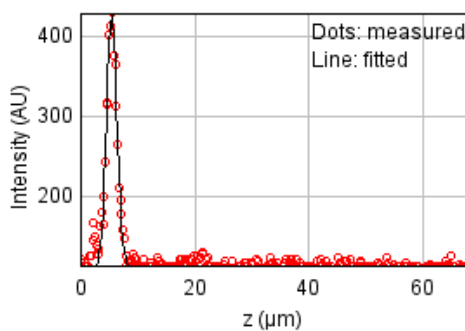
$b = -0.022$ px

$c = 0.420$ px

$x_c = 6.198$ px

$y_c = 7.082$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 25496.8494

Standard deviation: 9.11327

$R^2: 0.96441$

Parameters:

$a = 113.90931$

$b = 428.11338$

$c = 5.53880$

$d = 0.91228$

Bead 220 (Rejected)

Date : Mon Oct 17 13:50:46 PDT 2022

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

Frame size : 12 pixels

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

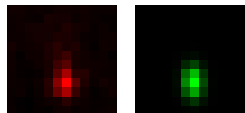
Corresponding bead : Not found

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

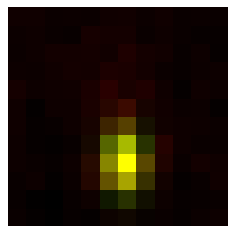
FWHM	Non corrected	Corrected	Theoretical
min	374 nm	390 nm	270 nm
max	596 nm	620 nm	270 nm
z	1.65 μm	1.66 μm	1.3 μm
Asymmetry	0.628		
Theta	-87.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 397.477 (brightness)

B = 120.755 (background)

a = 0.958 px

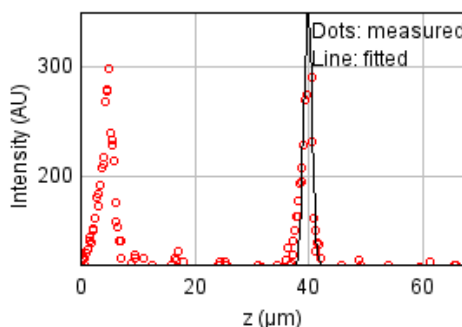
b = -0.022 px

c = 0.379 px

xc = 5.834 px

yc = 7.908 px

Z profile & fitting parameters:



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

Sum of residuals squared: 256599.746

Standard deviation: 28.91072

R^2 : 0.52738

Parameters:

a = 120.48247

b = 349.99653

c = 39.91084

d = 0.70034

Bead 221 (Rejected)

Date : Mon Oct 17 13:50:46 PDT 2022

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

Frame size : 12 pixels

Coordinates : 145 um (x), 55.8 um (y), 5.21 um (z)

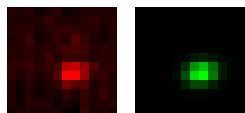
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

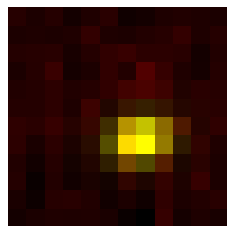
FWHM	Non corrected	Corrected	Theoretical
min	413 nm	430 nm	270 nm
max	560 nm	583 nm	270 nm
z	3.3 um	3.31 um	1.3 um
Asymmetry	0.737		
Theta	11.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.881$



Parameters:

A = 182.544 (brightness)

B = 117.404 (background)

a = 0.442 px

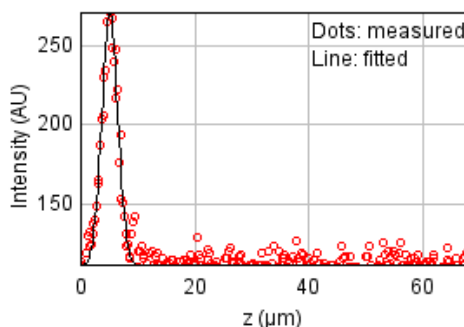
b = 0.068 px

c = 0.775 px

xc = 6.714 px

yc = 6.700 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15446.5231

Standard deviation: 7.09326

R^2 : 0.94558

Parameters:

a = 111.12283

b = 271.39135

c = 5.20569

d = 1.39938

Bead 222

Date : Mon Oct 17 13:50:47 PDT 2022

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

Frame size : 12 pixels

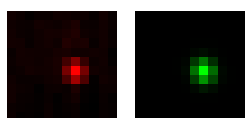
Coordinates : -104 μm (x), 51.8 μm (y), 6.15 μm (z)

Corresponding bead : Not found

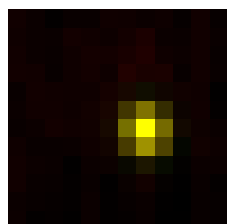
FWHM	Non corrected	Corrected	Theoretical
min	394 nm	411 nm	270 nm
max	446 nm	464 nm	270 nm
z	2.22 μm	2.23 μm	1.3 μm
Asymmetry	0.884		
Theta	-78.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 462.636 (brightness)

B = 122.383 (background)

a = 0.855 px

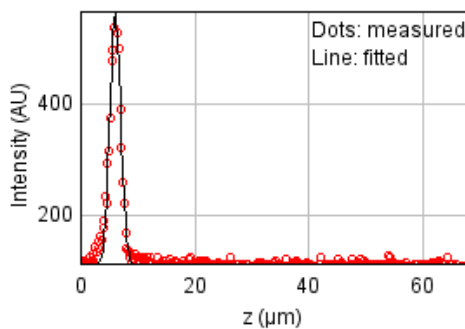
b = -0.037 px

c = 0.683 px

xc = 6.988 px

yc = 6.088 px

Z profile & fitting parameters:



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

Sum of residuals squared: 28970.1667

Standard deviation: 9.71418

R^2 : 0.98051

Parameters:

a = 113.57728

b = 562.83178

c = 6.15196

d = 0.94286

Bead 223

Date : Mon Oct 17 13:50:47 PDT 2022

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

Frame size : 12 pixels

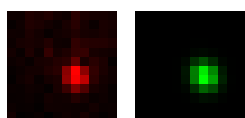
Coordinates : 109 um (x), 46.0 um (y), 5.39 um (z)

Corresponding bead : Not found

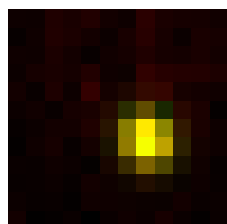
FWHM	Non corrected	Corrected	Theoretical
min	465 nm	484 nm	270 nm
max	522 nm	543 nm	270 nm
z	2.61 um	2.62 um	1.3 um
Asymmetry	0.892		
Theta	-61.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 248.048 (brightness)

B = 117.321 (background)

a = 0.592 px

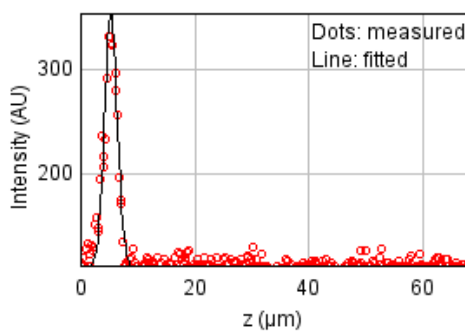
b = -0.053 px

c = 0.521 px

xc = 7.083 px

yc = 6.594 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29755.5179

Standard deviation: 9.84497

R^2 : 0.94337

Parameters:

a = 112.17289

b = 354.82547

c = 5.38757

d = 1.10924

Bead 224 (Rejected)

Date : Mon Oct 17 13:50:47 PDT 2022

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

Frame size : 12 pixels

Coordinates : 17.9 μm (x), 32.6 μm (y), 2.5 μm (z)

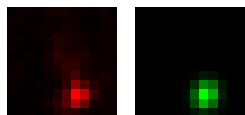
Corresponding bead : Not found

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

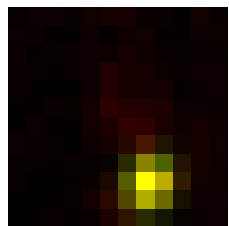
FWHM	Non corrected	Corrected	Theoretical
min	429 nm	447 nm	270 nm
max	510 nm	532 nm	270 nm
z	3.07 μm	3.09 μm	1.3 μm
Asymmetry	0.841		
Theta	73.7°		

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 = 399.192 (brightness)

B = 123.300 (background)

a = 0.712 px

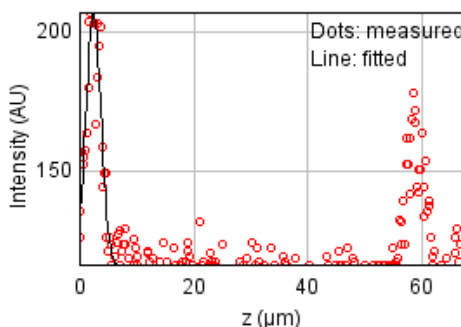
b = 0.057 px

c = 0.532 px

xc = 7.211 px

yc = 9.112 px

Z profile & fitting parameters:



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

Sum of residuals squared: 46847.0072

Standard deviation: 12.35298

R^2 : 0.63051

Parameters:

a = 116.46517

b = 206.74382

c = 2.50402

d = 1.30559

Bead 225 (Rejected)

Date : Mon Oct 17 13:50:47 PDT 2022

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

Frame size : 12 pixels

Coordinates : 17.9 μm (x), 32.6 μm (y), 2.5 μm (z)

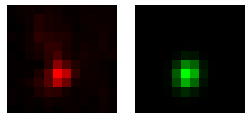
Corresponding bead : Not found

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

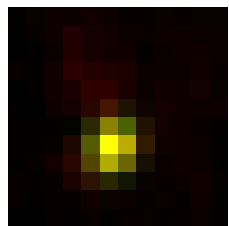
FWHM	Non corrected	Corrected	Theoretical
min	428 nm	446 nm	270 nm
max	508 nm	530 nm	270 nm
z	3.07 μm	3.09 μm	1.3 μm
Asymmetry	0.843		
Theta	73.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 399.727 (brightness)

B = 123.604 (background)

a = 0.714 px

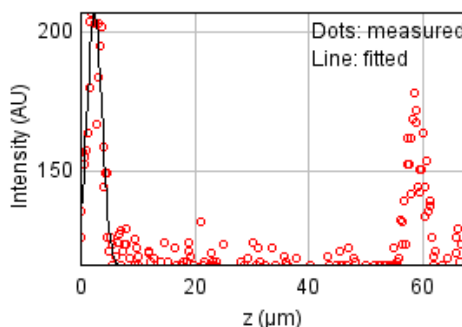
b = 0.058 px

c = 0.536 px

xc = 5.212 px

yc = 7.112 px

Z profile & fitting parameters:



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

Sum of residuals squared: 46847.0072

Standard deviation: 12.35298

R^2 : 0.63051

Parameters:

a = 116.46517

b = 206.74382

c = 2.50402

d = 1.30559

Bead 226

Date : Mon Oct 17 13:50:48 PDT 2022

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

Frame size : 12 pixels

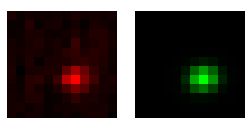
Coordinates : -144 μm (x), 19.7 μm (y), 5.11 μm (z)

Corresponding bead : Not found

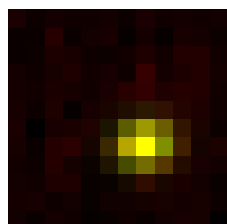
FWHM	Non corrected	Corrected	Theoretical
min	439 nm	457 nm	270 nm
max	520 nm	541 nm	270 nm
z	2.55 μm	2.56 μm	1.3 μm
Asymmetry	0.845		
Theta	11.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 205.844$ (brightness)

$B = 117.472$ (background)

$a = 0.505$ px

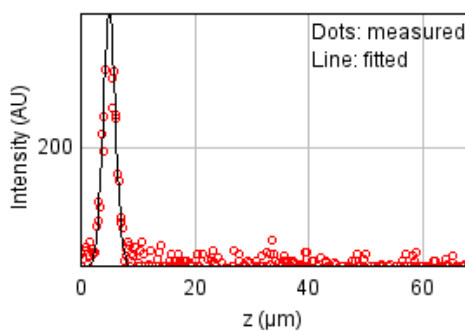
$b = 0.039$ px

$c = 0.688$ px

$x_c = 6.939$ px

$y_c = 6.872$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 20305.1860

Standard deviation: 8.13269

$R^2: 0.93554$

Parameters:

$a = 110.80226$

$b = 299.94870$

$c = 5.10693$

$d = 1.08390$

Bead 227

Date : Mon Oct 17 13:50:48 PDT 2022

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

Frame size : 12 pixels

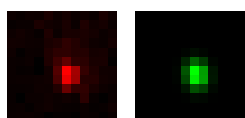
Coordinates : 53.7 μm (x), 8.59 μm (y), 5.3 μm (z)

Corresponding bead : Not found

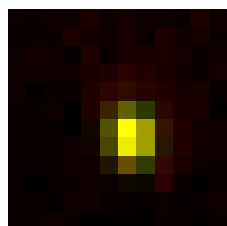
FWHM	Non corrected	Corrected	Theoretical
min	408 nm	425 nm	270 nm
max	514 nm	535 nm	270 nm
z	2.68 μm	2.69 μm	1.3 μm
Asymmetry	0.793		
Theta	-81.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 282.879$ (brightness)

$B = 121.662$ (background)

$a = 0.799$ px

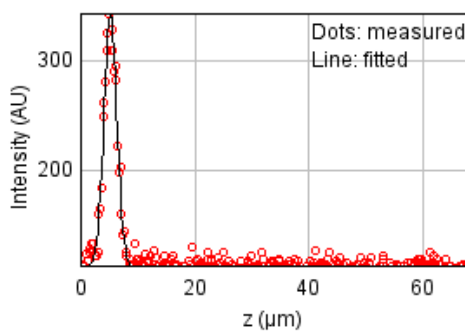
$b = -0.046$ px

$c = 0.515$ px

$x_c = 6.224$ px

$y_c = 6.450$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 16816.5134

Standard deviation: 7.40114

$R^2: 0.96439$

Parameters:

$a = 113.17823$

$b = 343.02432$

$c = 5.29616$

$d = 1.13758$

Bead 228

Date : Mon Oct 17 13:50:48 PDT 2022

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

Frame size : 12 pixels

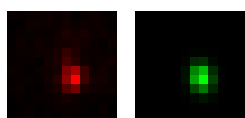
Coordinates : -22.9 μm (x), -1.6 μm (y), 5.97 μm (z)

Corresponding bead : Not found

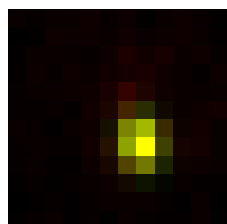
FWHM	Non corrected	Corrected	Theoretical
min	382 nm	398 nm	270 nm
max	503 nm	524 nm	270 nm
z	1.96 μm	1.97 μm	1.3 μm
Asymmetry	0.76		
Theta	-80.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 515.795 (brightness)

B = 124.885 (background)

a = 0.909 px

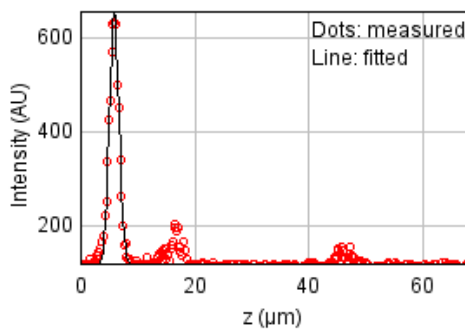
b = -0.062 px

c = 0.540 px

xc = 6.733 px

yc = 6.768 px

Z profile & fitting parameters:



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

Sum of residuals squared: 81490.4067

Standard deviation: 16.29236

R^2 : 0.95725

Parameters:

a = 120.90779

b = 654.47765

c = 5.96839

d = 0.83173

Bead 229

Date : Mon Oct 17 13:50:48 PDT 2022

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

Frame size : 12 pixels

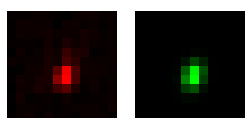
Coordinates : -83.2 μm (x), -9.26 μm (y), 5.47 μm (z)

Corresponding bead : Not found

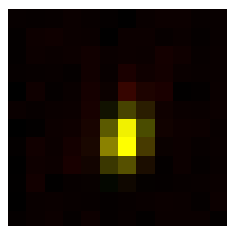
FWHM	Non corrected	Corrected	Theoretical
min	346 nm	361 nm	270 nm
max	489 nm	509 nm	270 nm
z	2.29 μm	2.3 μm	1.3 μm
Asymmetry	0.709		
Theta	72.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 473.668$ (brightness)

$B = 122.588$ (background)

$a = 1.070$ px

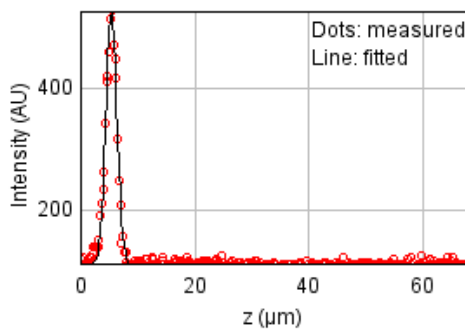
$b = 0.157$ px

$c = 0.610$ px

$x_c = 5.876$ px

$y_c = 6.579$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 23592.6534

Standard deviation: 8.76636

$R^2: 0.98169$

Parameters:

$a = 112.40028$

$b = 524.71840$

$c = 5.47314$

$d = 0.97294$

Bead 230 (Rejected)

Date : Mon Oct 17 13:50:48 PDT 2022

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

Frame size : 12 pixels

Coordinates : 38.8 μm (x), -21.7 μm (y), 3.08 μm (z)

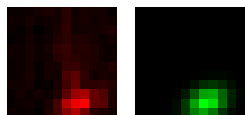
Corresponding bead : Not found

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

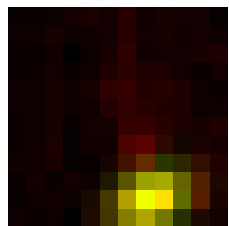
FWHM	Non corrected	Corrected	Theoretical
min	521 nm	543 nm	270 nm
max	733 nm	764 nm	270 nm
z	2.71 μm	2.72 μm	1.3 μm
Asymmetry	0.711		
Theta	25.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.873$



Parameters:

A = 231.559 (brightness)

B = 120.502 (background)

a = 0.295 px

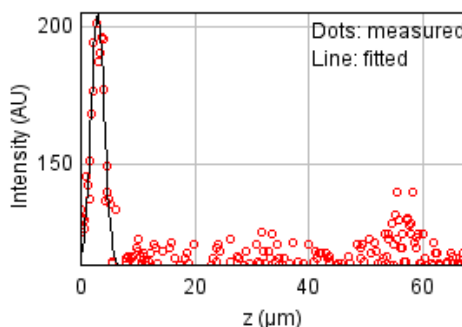
b = 0.095 px

c = 0.448 px

xc = 7.293 px

yc = 9.947 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15827.0810

Standard deviation: 7.18011

R^2 : 0.82338

Parameters:

a = 113.32025

b = 205.37579

c = 3.07606

d = 1.14952

Bead 231

Date : Mon Oct 17 13:50:48 PDT 2022

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

Frame size : 12 pixels

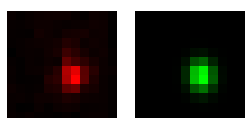
Coordinates : 11.8 μm (x), -26.6 μm (y), 5.85 μm (z)

Corresponding bead : Not found

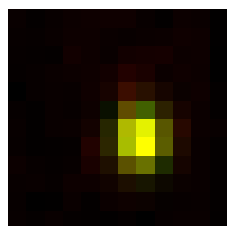
FWHM	Non corrected	Corrected	Theoretical
min	453 nm	471 nm	270 nm
max	556 nm	580 nm	270 nm
z	1.9 μm	1.9 μm	1.3 μm
Asymmetry	0.813		
Theta	-85.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 549.063$ (brightness)

$B = 123.767$ (background)

$a = 0.654$ px

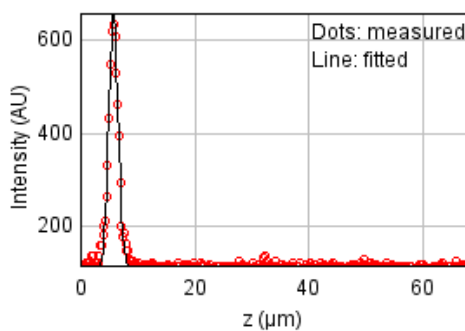
$b = -0.016$ px

$c = 0.435$ px

$x_c = 6.720$ px

$y_c = 6.552$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 27665.9316

Standard deviation: 9.49300

$R^2: 0.98534$

Parameters:

$a = 114.25192$

$b = 661.33431$

$c = 5.84683$

$d = 0.80509$

Bead 232 (Rejected)

Date : Mon Oct 17 13:50:48 PDT 2022

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

Frame size : 12 pixels

Coordinates : -31.2 μm (x), -47.0 μm (y), 2.58 μm (z)

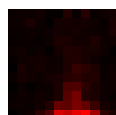
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	4.45 μm	4.47 μm	1.3 μm
Asymmetry	0.0		
Theta	0.0°		

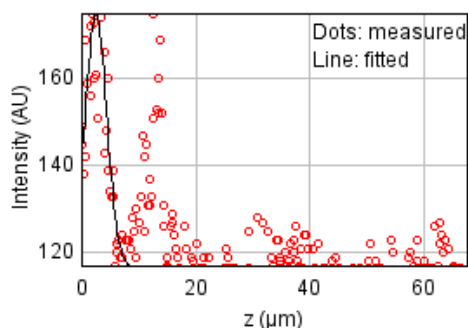
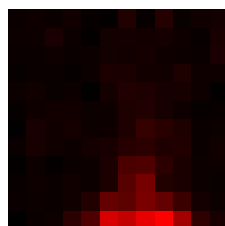
XY profile & fitting parameters :

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



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

Z profile & fitting parameters:



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

Sum of residuals squared: 37248.5897

Standard deviation: 11.01503

R²: 0.55303

Parameters:

a = 116.63700

b = 174.80595

c = 2.58179

d = 1.89153

Bead 233 (Rejected)

Date : Mon Oct 17 13:50:49 PDT 2022

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

Frame size : 12 pixels

Coordinates : 18.5 μm (x), -67.4 μm (y), 6.42 μm (z)

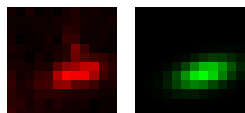
Corresponding bead : Not found

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

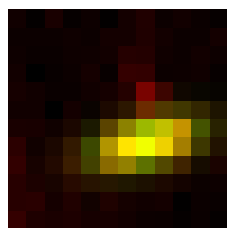
FWHM	Non corrected	Corrected	Theoretical
min	473 nm	493 nm	270 nm
max	1.04 μm	1.09 μm	270 nm
z	3.68 μm	3.7 μm	1.3 μm
Asymmetry	0.453		
Theta	14.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.893$



Parameters:

A = 279.506 (brightness)

B = 127.684 (background)

a = 0.155 px

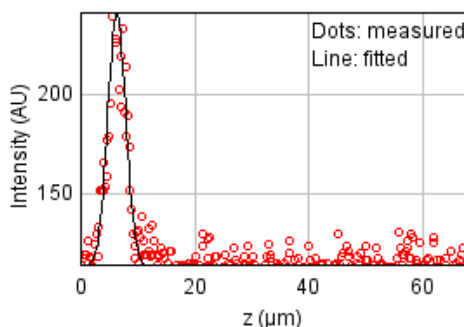
b = 0.118 px

c = 0.568 px

xc = 7.034 px

yc = 6.773 px

Z profile & fitting parameters:



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

Sum of residuals squared: 23793.9962

Standard deviation: 8.80369

R^2 : 0.88584

Parameters:

a = 114.26869

b = 240.63829

c = 6.41740

d = 1.56288

Bead 234 (Rejected)

Date : Mon Oct 17 13:50:49 PDT 2022

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

Frame size : 12 pixels

Coordinates : 17.8 μm (x), -69.9 μm (y), 5.81 μm (z)

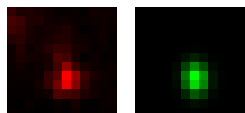
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

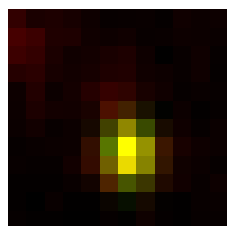
FWHM	Non corrected	Corrected	Theoretical
min	450 nm	468 nm	270 nm
max	584 nm	609 nm	270 nm
z	2.1 μm	2.11 μm	1.3 μm
Asymmetry	0.77		
Theta	-85.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.848$



Parameters:

A = 393.178 (brightness)

B = 135.530 (background)

a = 0.662 px

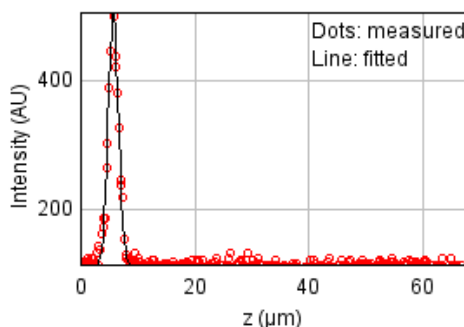
b = -0.023 px

c = 0.395 px

xc = 6.092 px

yc = 7.309 px

Z profile & fitting parameters:



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

Sum of residuals squared: 21928.9643

Standard deviation: 8.45162

R^2 : 0.97991

Parameters:

a = 113.75959

b = 509.05657

c = 5.81489

d = 0.89123

Bead 235 (Rejected)

Date : Mon Oct 17 13:50:49 PDT 2022

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

Frame size : 12 pixels

Coordinates : 96.4 μm (x), -87.1 μm (y), 3.85 μm (z)

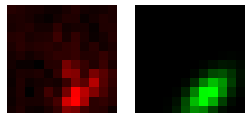
Corresponding bead : Not found

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

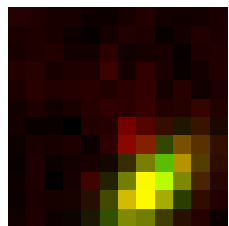
FWHM	Non corrected	Corrected	Theoretical
min	506 nm	527 nm	270 nm
max	978 nm	1.02 μm	270 nm
z	3.8 μm	3.81 μm	1.3 μm
Asymmetry	0.518		
Theta	43.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.773$



Parameters:

A = 149.349 (brightness)

B = 121.668 (background)

a = 0.324 px

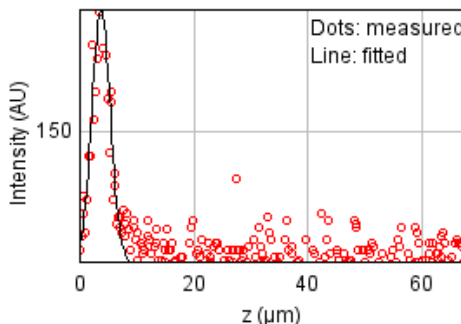
b = 0.192 px

c = 0.340 px

xc = 7.351 px

yc = 9.302 px

Z profile & fitting parameters:



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

Sum of residuals squared: 13933.8894

Standard deviation: 6.73701

R^2 : 0.82819

Parameters:

a = 111.17985

b = 186.26436

c = 3.84994

d = 1.61345

Bead 236 (Rejected)

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

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

Frame size : 12 pixels

Coordinates : -115 μm (x), -91.4 μm (y), 6.18 μm (z)

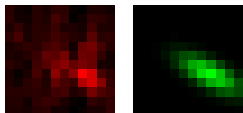
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	469 nm	488 nm	270 nm
max	1.22 μm	1.27 μm	270 nm
z	2.45 μm	2.46 μm	1.3 μm
Asymmetry	0.384		
Theta	-28.5°		

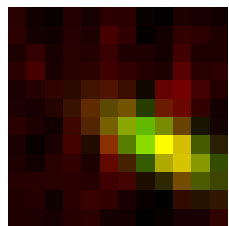
XY profile & fitting parameters :

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



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

$R^2 = 0.660$



Parameters:

$A = 76.538$ (brightness)

$B = 116.540$ (background)

$a = 0.209$ px

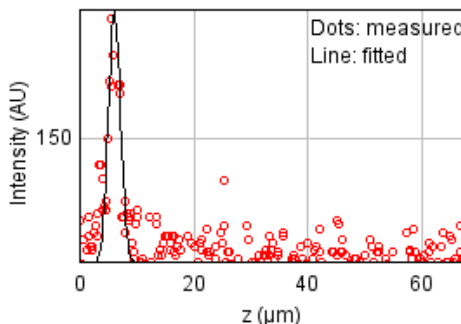
$b = -0.219$ px

$c = 0.493$ px

$xc = 7.873$ px

$yc = 7.043$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 17056.2883

Standard deviation: 7.45372

$R^2: 0.73805$

Parameters:

$a = 111.71032$

$b = 189.56500$

$c = 6.18299$

$d = 1.04077$

Bead 237 (Rejected)

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

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

Frame size : 12 pixels

Coordinates : -148 μm (x), -92.4 μm (y), 10.0 μm (z)

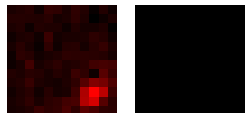
Corresponding bead : Not found

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

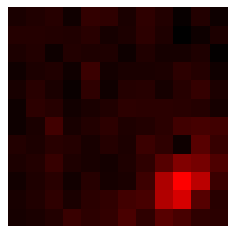
FWHM	Non corrected	Corrected	Theoretical
min	4.21 μm	4.39 μm	270 nm
max	6.75 μm	7.03 μm	270 nm
z	2.55 μm	2.56 μm	1.3 μm
Asymmetry	0.624		
Theta	0.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.368$



Parameters:

A = -68.345 (brightness)

B = 181.614 (background)

a = 0.001 px

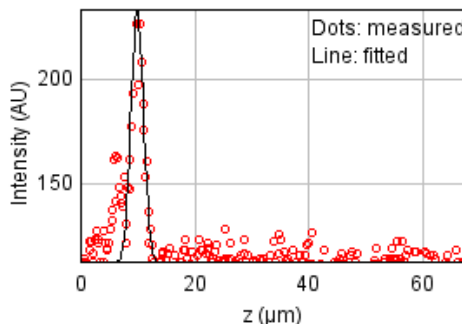
b = 0.005 px

c = 0.004 px

xc = 3.870 px

yc = 2.707 px

Z profile & fitting parameters:



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

Sum of residuals squared: 30772.4336

Standard deviation: 10.01179

R^2 : 0.79744

Parameters:

a = 112.56229

b = 233.89256

c = 10.00120

d = 1.08276

Bead 238 (Rejected)

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

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

Frame size : 12 pixels

Coordinates : 35.6 μm (x), 60.5 μm (y), 6.98 μm (z)

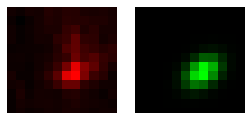
Corresponding bead : Not found

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

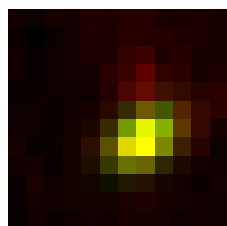
FWHM	Non corrected	Corrected	Theoretical
min	472 nm	491 nm	270 nm
max	680 nm	709 nm	270 nm
z	3.04 μm	3.05 μm	1.3 μm
Asymmetry	0.693		
Theta	37.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.852$



Parameters:

A = 282.255 (brightness)

B = 122.409 (background)

a = 0.404 px

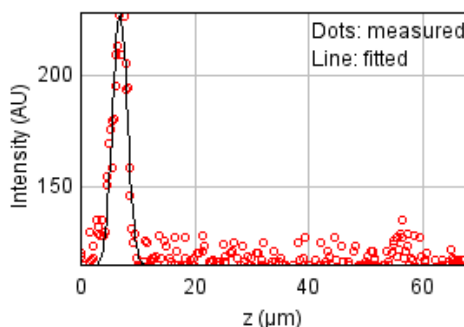
b = 0.151 px

c = 0.489 px

xc = 6.873 px

yc = 6.578 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17633.4660

Standard deviation: 7.57879

R^2 : 0.87762

Parameters:

a = 114.29162

b = 228.50455

c = 6.98314

d = 1.29037

Bead 239

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

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

Frame size : 12 pixels

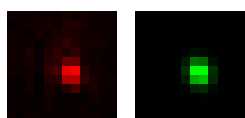
Coordinates : -78.2 μm (x), 59.2 μm (y), 6.26 μm (z)

Corresponding bead : Not found

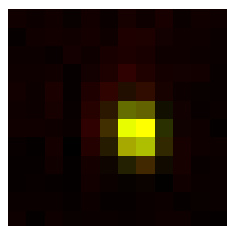
FWHM	Non corrected	Corrected	Theoretical
min	395 nm	412 nm	270 nm
max	468 nm	488 nm	270 nm
z	2.25 μm	2.26 μm	1.3 μm
Asymmetry	0.845		
Theta	-76.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 472.956$ (brightness)

$B = 125.214$ (background)

$a = 0.845$ px

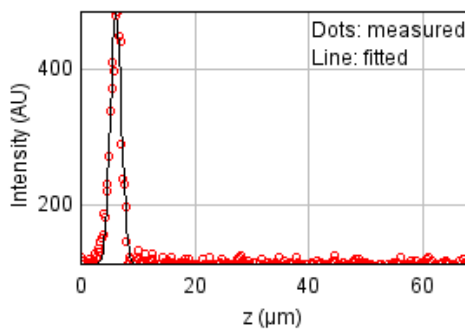
$b = -0.056$ px

$c = 0.626$ px

$x_c = 6.520$ px

$y_c = 6.221$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 32450.4299

Standard deviation: 10.28113

$R^2: 0.96910$

Parameters:

$a = 113.25532$

$b = 486.48522$

$c = 6.26406$

$d = 0.95435$

Bead 240 (Rejected)

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

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

Frame size : 12 pixels

Coordinates : -162 μm (x), 56.7 μm (y), 5.09 μm (z)

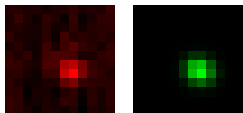
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

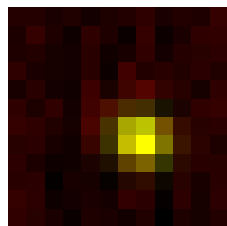
FWHM	Non corrected	Corrected	Theoretical
min	461 nm	480 nm	270 nm
max	521 nm	543 nm	270 nm
z	3.25 μm	3.27 μm	1.3 μm
Asymmetry	0.884		
Theta	-29.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.829$



Parameters:

A = 125.768 (brightness)

B = 116.163 (background)

a = 0.527 px

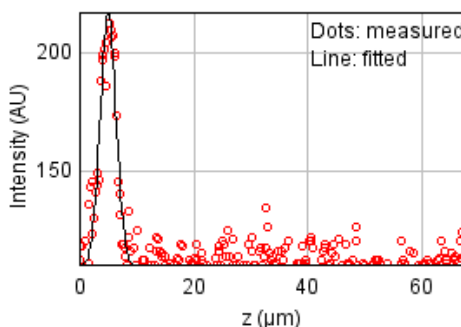
b = -0.059 px

c = 0.599 px

xc = 6.731 px

yc = 6.689 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16407.1977

Standard deviation: 7.31052

R^2 : 0.87757

Parameters:

a = 110.59995

b = 217.29737

c = 5.08610

d = 1.38223

Bead 241

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

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

Frame size : 12 pixels

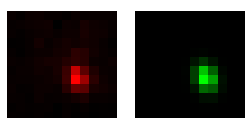
Coordinates : -35.4 μm (x), 21.5 μm (y), 6.02 μm (z)

Corresponding bead : Not found

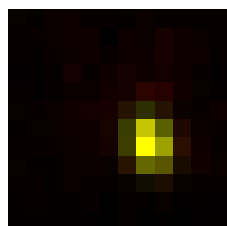
FWHM	Non corrected	Corrected	Theoretical
min	369 nm	385 nm	270 nm
max	500 nm	521 nm	270 nm
z	2.12 μm	2.13 μm	1.3 μm
Asymmetry	0.739		
Theta	-72.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 542.295$ (brightness)

$B = 124.881$ (background)

$a = 0.941$ px

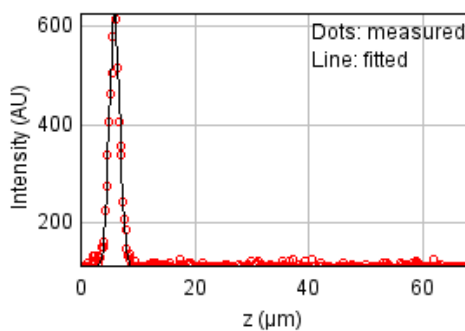
$b = -0.131$ px

$c = 0.580$ px

$x_c = 7.225$ px

$y_c = 6.779$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 24962.3153

Standard deviation: 9.01723

$R^2 = 0.98643$

Parameters:

$a = 113.60274$

$b = 625.79761$

$c = 6.02364$

$d = 0.90122$

Bead 242 (Rejected)

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

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

Frame size : 12 pixels

Coordinates : 8.32 μm (x), 6.22 μm (y), 3.01 μm (z)

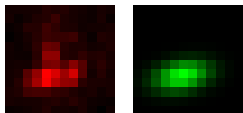
Corresponding bead : Not found

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

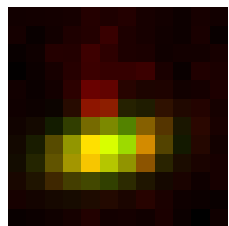
FWHM	Non corrected	Corrected	Theoretical
min	545 nm	567 nm	270 nm
max	1.02 μm	1.06 μm	270 nm
z	1.76 μm	1.76 μm	1.3 μm
Asymmetry	0.535		
Theta	11.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.801$



Parameters:

A = 198.502 (brightness)

B = 120.099 (background)

a = 0.142 px

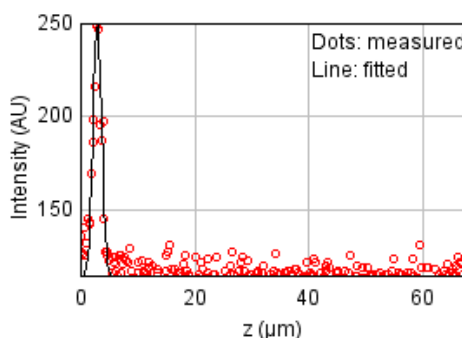
b = 0.063 px

c = 0.440 px

xc = 4.837 px

yc = 7.236 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16807.3347

Standard deviation: 7.39912

R^2 : 0.86542

Parameters:

a = 113.96026

b = 250.80281

c = 3.01220

d = 0.74544

Bead 243 (Rejected)

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

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

Frame size : 12 pixels

Coordinates : 138 μm (x), -14.4 μm (y), 5.54 μm (z)

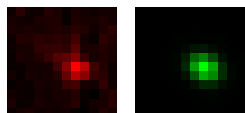
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

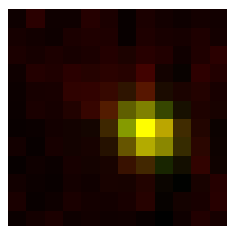
FWHM	Non corrected	Corrected	Theoretical
min	469 nm	488 nm	270 nm
max	581 nm	605 nm	270 nm
z	2.82 μm	2.83 μm	1.3 μm
Asymmetry	0.807		
Theta	-33.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.863$



Parameters:

A = 165.591 (brightness)

B = 116.485 (background)

a = 0.461 px

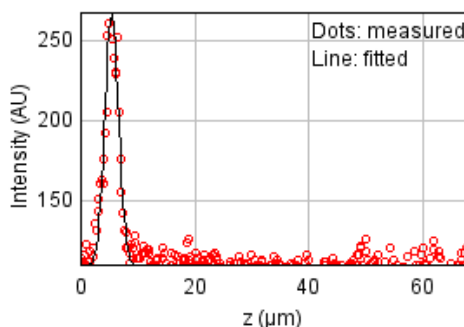
b = -0.097 px

c = 0.548 px

xc = 7.068 px

yc = 6.141 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16819.4594

Standard deviation: 7.40179

R^2 : 0.93047

Parameters:

a = 110.31614

b = 268.00688

c = 5.53689

d = 1.19867

Bead 244

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

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

Frame size : 12 pixels

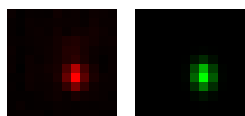
Coordinates : -24.6 μm (x), -15.5 μm (y), 5.99 μm (z)

Corresponding bead : Not found

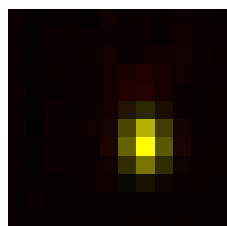
FWHM	Non corrected	Corrected	Theoretical
min	366 nm	381 nm	270 nm
max	485 nm	505 nm	270 nm
z	1.97 μm	1.98 μm	1.3 μm
Asymmetry	0.756		
Theta	-87.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 614.267 (brightness)

B = 123.895 (background)

a = 1.000 px

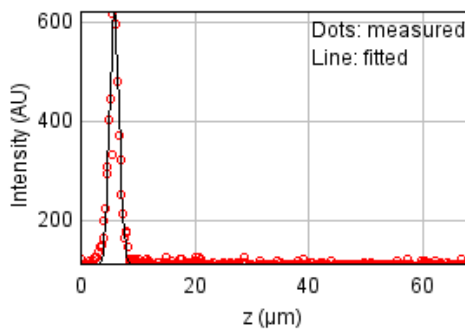
b = -0.021 px

c = 0.573 px

xc = 6.971 px

yc = 6.812 px

Z profile & fitting parameters:



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

Sum of residuals squared: 88712.3569

Standard deviation: 16.99898

R^2 : 0.94910

Parameters:

a = 114.15819

b = 621.09953

c = 5.99430

d = 0.83541

Bead 245 (Rejected)

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

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

Frame size : 12 pixels

Coordinates : 80.8 μm (x), -22.8 μm (y), 3.4 μm (z)

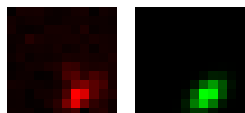
Corresponding bead : Not found

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

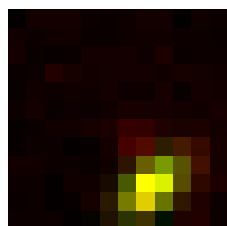
FWHM	Non corrected	Corrected	Theoretical
min	400 nm	417 nm	270 nm
max	663 nm	690 nm	270 nm
z	2.74 μm	2.76 μm	1.3 μm
Asymmetry	0.603		
Theta	42.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.898$



Parameters:

A = 279.053 (brightness)

B = 123.741 (background)

a = 0.549 px

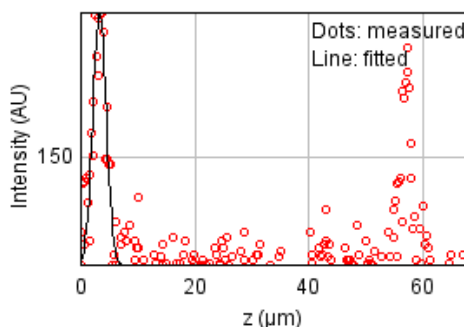
b = 0.266 px

c = 0.595 px

xc = 7.374 px

yc = 9.160 px

Z profile & fitting parameters:



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

Sum of residuals squared: 43569.3438

Standard deviation: 11.91300

R^2 : 0.56153

Parameters:

a = 116.25026

b = 195.79536

c = 3.40028

d = 1.16545

Bead 246 (Rejected)

Date : Mon Oct 17 13:50:52 PDT 2022

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

Frame size : 12 pixels

Coordinates : 162 μm (x), -27.0 μm (y), 6.41 μm (z)

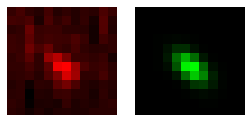
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

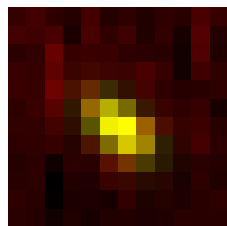
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	424 nm	270 nm
max	721 nm	751 nm	270 nm
z	5.14 μm	5.16 μm	1.3 μm
Asymmetry	0.565		
Theta	-42.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.814$



Parameters:

A = 145.409 (brightness)

B = 120.310 (background)

a = 0.510 px

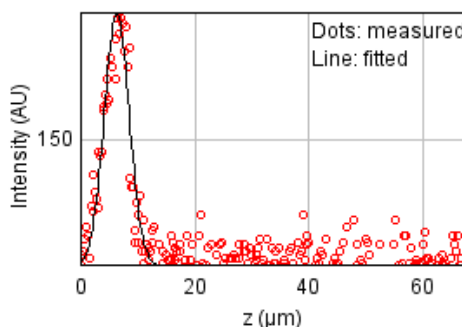
b = -0.274 px

c = 0.557 px

xc = 5.597 px

yc = 6.082 px

Z profile & fitting parameters:



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

Sum of residuals squared: 14237.9367

Standard deviation: 6.81011

R^2 : 0.88061

Parameters:

a = 109.19987

b = 191.27218

c = 6.40534

d = 2.18406

Bead 247 (Rejected)

Date : Mon Oct 17 13:50:52 PDT 2022

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

Frame size : 12 pixels

Coordinates : 164 μm (x), -39.2 μm (y), 5.23 μm (z)

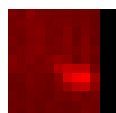
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	2.86 μm	2.87 μm	1.3 μm
Asymmetry	0.0		
Theta	0.0°		

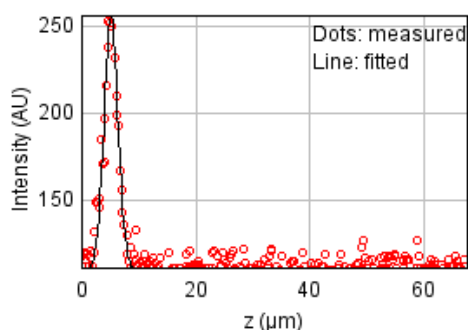
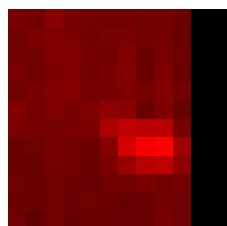
XY profile & fitting parameters :

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



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

Z profile & fitting parameters:



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

Sum of residuals squared: 13954.4800

Standard deviation: 6.74198

R²: 0.93367

Parameters:

a = 110.25890

b = 256.65139

c = 5.23356

d = 1.21482

Bead 248 (Rejected)

Date : Mon Oct 17 13:50:52 PDT 2022

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

Frame size : 12 pixels

Coordinates : 64.9 μm (x), -39.0 μm (y), 7.03 μm (z)

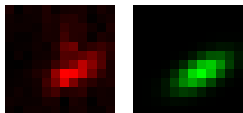
Corresponding bead : Not found

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

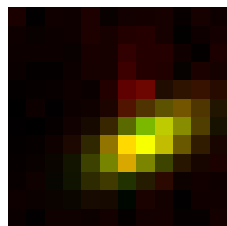
FWHM	Non corrected	Corrected	Theoretical
min	477 nm	497 nm	270 nm
max	1.03 μm	1.08 μm	270 nm
z	3.59 μm	3.6 μm	1.3 μm
Asymmetry	0.462		
Theta	28.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.867$



Parameters:

A = 229.391 (brightness)

B = 122.150 (background)

a = 0.232 px

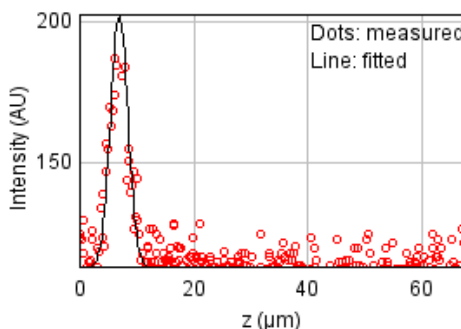
b = 0.195 px

c = 0.484 px

xc = 6.995 px

yc = 6.833 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16142.5096

Standard deviation: 7.25131

R^2 : 0.84774

Parameters:

a = 113.06092

b = 202.26933

c = 7.03098

d = 1.52323

Bead 249 (Rejected)

Date : Mon Oct 17 13:50:52 PDT 2022

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

Frame size : 12 pixels

Coordinates : 5.03 μm (x), -59.9 μm (y), 3.95 μm (z)

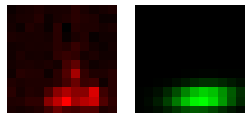
Corresponding bead : Not found

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

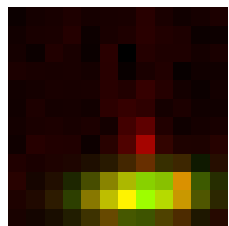
FWHM	Non corrected	Corrected	Theoretical
min	452 nm	471 nm	270 nm
max	1.16 μm	1.21 μm	270 nm
z	2.86 μm	2.87 μm	1.3 μm
Asymmetry	0.389		
Theta	4.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 154.354 (brightness)

B = 121.007 (background)

a = 0.102 px

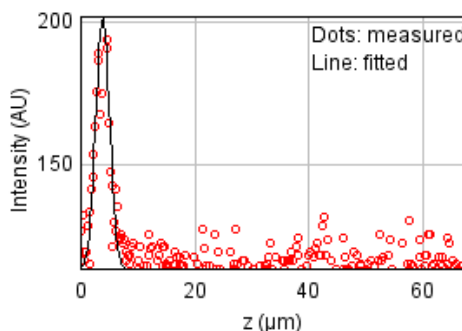
b = 0.040 px

c = 0.653 px

xc = 6.864 px

yc = 9.661 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15828.7789

Standard deviation: 7.18050

R^2 : 0.81795

Parameters:

a = 113.58269

b = 201.68249

c = 3.94847

d = 1.21443

Bead 250 (Rejected)

Date : Mon Oct 17 13:50:52 PDT 2022

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

Frame size : 12 pixels

Coordinates : -108 μm (x), -67.4 μm (y), 2.74 μm (z)

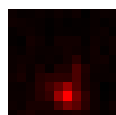
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	3.99 μm	4.0 μm	1.3 μm
Asymmetry	0.0		
Theta	0.0°		

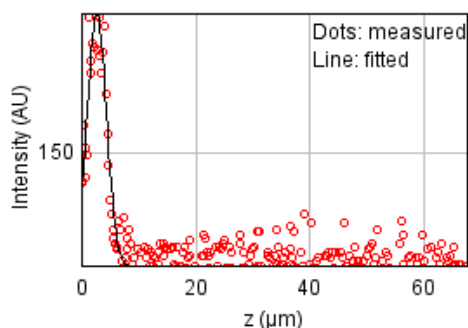
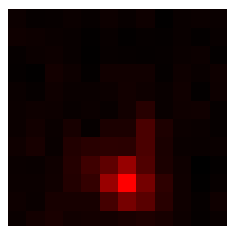
XY profile & fitting parameters :

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



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

Z profile & fitting parameters:



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

Sum of residuals squared: 14991.5602

Standard deviation: 6.98802

R²: 0.86346

Parameters:

a = 110.93702

b = 198.29391

c = 2.73991

d = 1.69287

Bead 251

Date : Mon Oct 17 13:50:52 PDT 2022

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

Frame size : 12 pixels

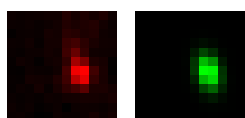
Coordinates : 42.3 μm (x), -75.6 μm (y), 5.81 μm (z)

Corresponding bead : Not found

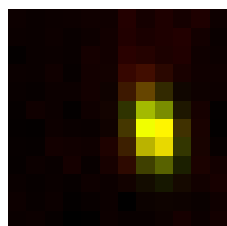
FWHM	Non corrected	Corrected	Theoretical
min	406 nm	423 nm	270 nm
max	659 nm	687 nm	270 nm
z	2.9 μm	2.91 μm	1.3 μm
Asymmetry	0.616		
Theta	-76.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 376.904 (brightness)

B = 119.363 (background)

a = 0.785 px

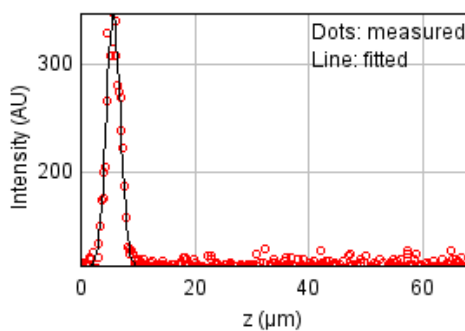
b = -0.116 px

c = 0.337 px

xc = 7.495 px

yc = 6.143 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19048.0074

Standard deviation: 7.87690

R^2 : 0.96441

Parameters:

a = 112.20288

b = 348.00962

c = 5.81150

d = 1.23143

Bead 252 (Rejected)

Date : Mon Oct 17 13:50:53 PDT 2022

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

Frame size : 12 pixels

Coordinates : 154 μm (x), -78.7 μm (y), 3.69 μm (z)

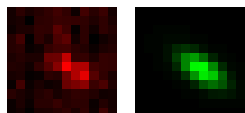
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

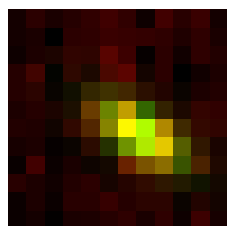
FWHM	Non corrected	Corrected	Theoretical
min	453 nm	472 nm	270 nm
max	927 nm	966 nm	270 nm
z	3.26 μm	3.28 μm	1.3 μm
Asymmetry	0.488		
Theta	-34.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.758$



Parameters:

A = 73.583 (brightness)

B = 113.431 (background)

a = 0.313 px

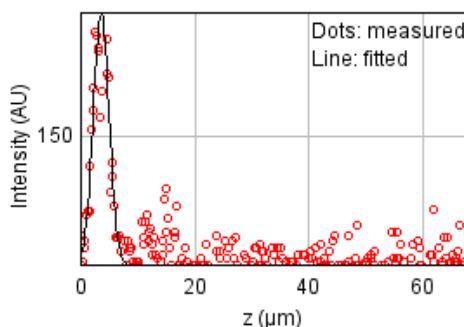
b = -0.231 px

c = 0.497 px

xc = 6.741 px

yc = 6.311 px

Z profile & fitting parameters:



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

Sum of residuals squared: 14096.5391

Standard deviation: 6.77621

R^2 : 0.81340

Parameters:

a = 110.50141

b = 187.50716

c = 3.69045

d = 1.38622

Bead 253 (Rejected)

Date : Mon Oct 17 13:50:53 PDT 2022

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

Frame size : 12 pixels

Coordinates : -90.6 μm (x), 87.2 μm (y), 2.84 μm (z)

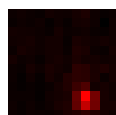
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	4.31 μm	4.33 μm	1.3 μm
Asymmetry	0.0		
Theta	0.0°		

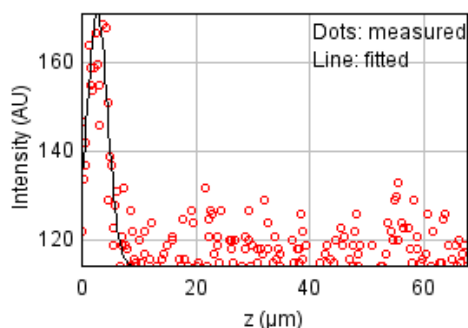
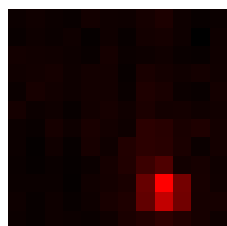
XY profile & fitting parameters :

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



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

Z profile & fitting parameters:



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

Sum of residuals squared: 16630.8012

Standard deviation: 7.36016

R²: 0.72180

Parameters:

a = 114.07290

b = 171.00511

c = 2.83810

d = 1.82993

Bead 254 (Rejected)

Date : Mon Oct 17 13:50:53 PDT 2022

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

Frame size : 12 pixels

Coordinates : -124 μm (x), 79.2 μm (y), 5.53 μm (z)

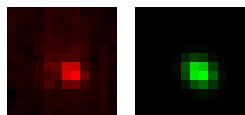
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

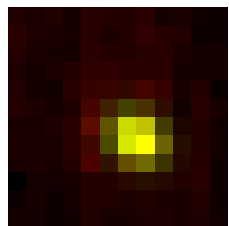
FWHM	Non corrected	Corrected	Theoretical
min	452 nm	470 nm	270 nm
max	551 nm	574 nm	270 nm
z	2.44 μm	2.45 μm	1.3 μm
Asymmetry	0.82		
Theta	-39.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.883$



Parameters:

A = 223.748 (brightness)

B = 117.023 (background)

a = 0.527 px

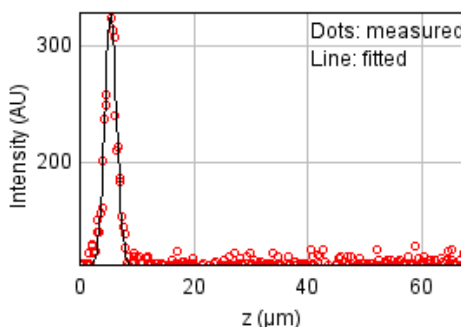
b = -0.105 px

c = 0.572 px

xc = 6.522 px

yc = 6.648 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16141.5572

Standard deviation: 7.25109

R^2 : 0.95831

Parameters:

a = 111.18780

b = 327.84391

c = 5.53102

d = 1.03752

Bead 255 (Rejected)

Date : Mon Oct 17 13:50:53 PDT 2022

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

Frame size : 12 pixels

Coordinates : 158 μm (x), 54.4 μm (y), 47.5 μm (z)

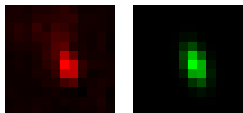
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

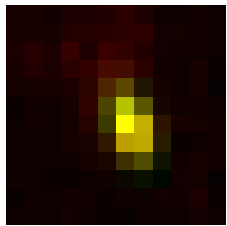
FWHM	Non corrected	Corrected	Theoretical
min	367 nm	382 nm	270 nm
max	672 nm	700 nm	270 nm
z	1.61 μm	1.62 μm	1.3 μm
Asymmetry	0.546		
Theta	-71.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 422.556 (brightness)

B = 122.662 (background)

a = 0.927 px

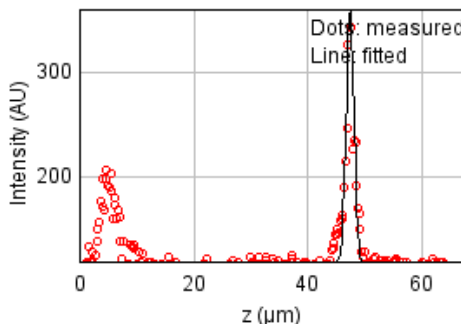
b = -0.212 px

c = 0.369 px

xc = 6.307 px

yc = 6.044 px

Z profile & fitting parameters:



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

Sum of residuals squared: 113086.635

Standard deviation: 19.19272

R^2 : 0.73919

Parameters:

a = 116.70044

b = 362.28198

c = 47.45270

d = 0.68413

Bead 256 (Rejected)

Date : Mon Oct 17 13:50:53 PDT 2022

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

Frame size : 12 pixels

Coordinates : -4.24 μm (x), 5.12 μm (y), 6.47 μm (z)

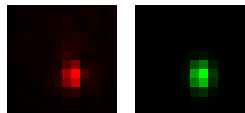
Corresponding bead : Not found

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

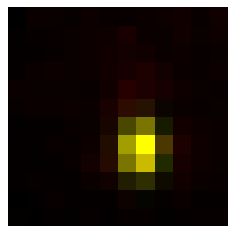
FWHM	Non corrected	Corrected	Theoretical
min	367 nm	382 nm	270 nm
max	495 nm	515 nm	270 nm
z	3.84 μm	3.86 μm	1.3 μm
Asymmetry	0.741		
Theta	89.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 609.959 (brightness)

B = 126.814 (background)

a = 0.998 px

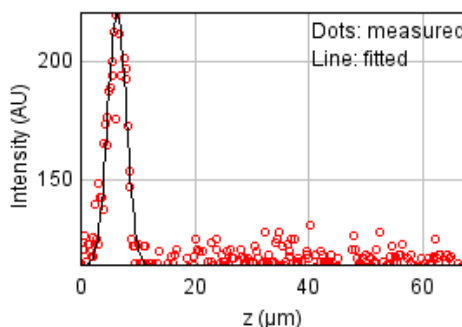
b = 0.006 px

c = 0.548 px

xc = 6.737 px

yc = 7.218 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16787.2664

Standard deviation: 7.39470

R^2 : 0.89062

Parameters:

a = 113.92404

b = 220.53324

c = 6.46887

d = 1.63207

Bead 257 (Rejected)

Date : Mon Oct 17 13:50:53 PDT 2022

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

Frame size : 12 pixels

Coordinates : 29.8 μm (x), -15.9 μm (y), 7.45 μm (z)

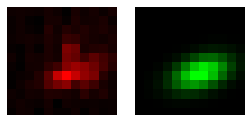
Corresponding bead : Not found

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

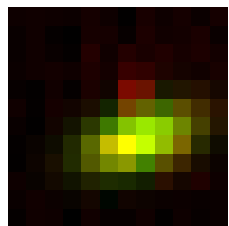
FWHM	Non corrected	Corrected	Theoretical
min	567 nm	591 nm	270 nm
max	1.05 μm	1.09 μm	270 nm
z	3.89 μm	3.91 μm	1.3 μm
Asymmetry	0.541		
Theta	18.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.842$



Parameters:

A = 184.710 (brightness)

B = 120.827 (background)

a = 0.151 px

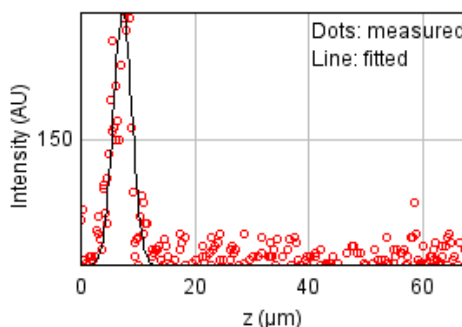
b = 0.087 px

c = 0.388 px

xc = 6.672 px

yc = 6.692 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18141.1911

Standard deviation: 7.68712

R^2 : 0.78441

Parameters:

a = 113.37467

b = 187.06172

c = 7.45150

d = 1.65156

Bead 258

Date : Mon Oct 17 13:50:54 PDT 2022

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

Frame size : 12 pixels

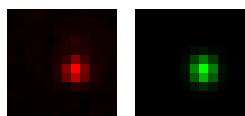
Coordinates : -35.6 μm (x), -20.8 μm (y), 6.57 μm (z)

Corresponding bead : Not found

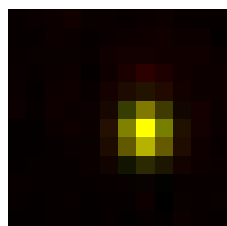
FWHM	Non corrected	Corrected	Theoretical
min	440 nm	458 nm	270 nm
max	492 nm	512 nm	270 nm
z	2.03 μm	2.04 μm	1.3 μm
Asymmetry	0.894		
Theta	-86.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 614.376 (brightness)

B = 123.876 (background)

a = 0.693 px

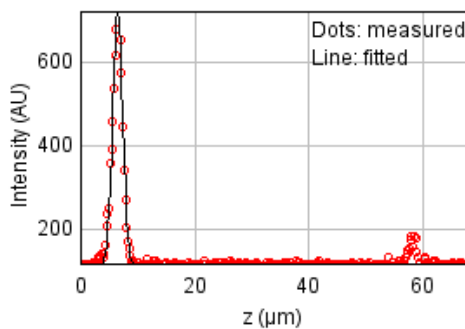
b = -0.009 px

c = 0.555 px

xc = 6.996 px

yc = 6.178 px

Z profile & fitting parameters:



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

Sum of residuals squared: 57810.4073

Standard deviation: 13.72252

R^2 : 0.97653

Parameters:

a = 116.58384

b = 718.79411

c = 6.57306

d = 0.86224

Bead 259 (Rejected)

Date : Mon Oct 17 13:50:54 PDT 2022

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

Frame size : 12 pixels

Coordinates : 124 μm (x), -21.1 μm (y), 5.88 μm (z)

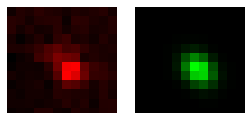
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

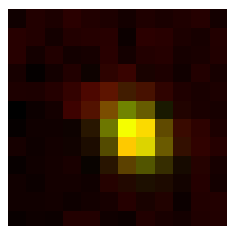
FWHM	Non corrected	Corrected	Theoretical
min	490 nm	510 nm	270 nm
max	625 nm	651 nm	270 nm
z	3.28 μm	3.29 μm	1.3 μm
Asymmetry	0.784		
Theta	-46.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 166.665 (brightness)

B = 116.186 (background)

a = 0.458 px

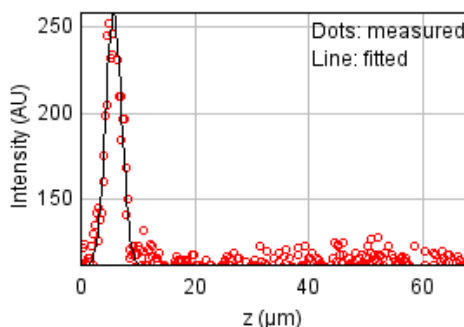
b = -0.108 px

c = 0.444 px

xc = 6.405 px

yc = 6.331 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16581.0303

Standard deviation: 7.34914

R^2 : 0.93129

Parameters:

a = 111.48754

b = 258.44379

c = 5.87613

d = 1.39326

Bead 260 (Rejected)

Date : Mon Oct 17 13:50:54 PDT 2022

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

Frame size : 12 pixels

Coordinates : 132 μm (x), -37.9 μm (y), 5.92 μm (z)

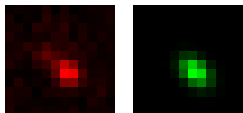
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	433 nm	270 nm
max	607 nm	632 nm	270 nm
z	3.14 μm	3.15 μm	1.3 μm
Asymmetry	0.686		
Theta	-43.6°		

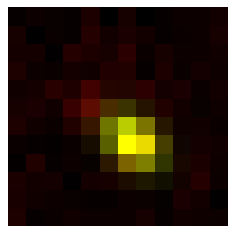
XY profile & fitting parameters :

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



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

$R^2 = 0.894$



Parameters:

A = 207.091 (brightness)

B = 124.629 (background)

a = 0.560 px

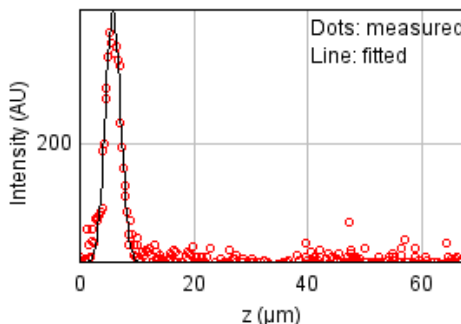
b = -0.205 px

c = 0.579 px

xc = 6.283 px

yc = 6.788 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15433.1120

Standard deviation: 7.09018

R^2 : 0.95775

Parameters:

a = 111.88297

b = 299.07075

c = 5.92462

d = 1.33209

Bead 261 (Rejected)

Date : Mon Oct 17 13:50:54 PDT 2022

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

Frame size : 12 pixels

Coordinates : 90.7 μm (x), -78.0 μm (y), 2.89 μm (z)

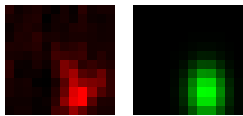
Corresponding bead : Not found

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

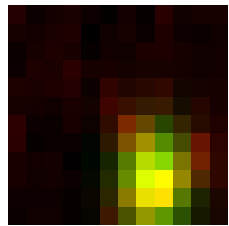
FWHM	Non corrected	Corrected	Theoretical
min	664 nm	692 nm	270 nm
max	993 nm	1.03 μm	270 nm
z	3.46 μm	3.48 μm	1.3 μm
Asymmetry	0.668		
Theta	-88.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.846$



Parameters:

A = 179.099 (brightness)

B = 121.065 (background)

a = 0.304 px

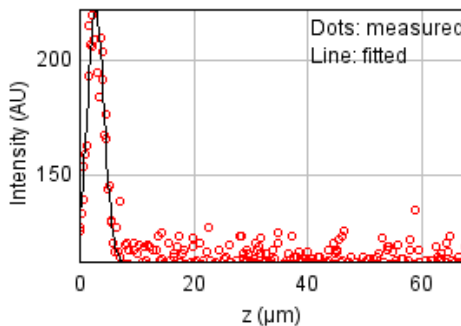
b = -0.003 px

c = 0.136 px

xc = 7.481 px

yc = 9.055 px

Z profile & fitting parameters:



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

Sum of residuals squared: 13729.7619

Standard deviation: 6.68748

R^2 : 0.90544

Parameters:

a = 112.14233

b = 221.71151

c = 2.89146

d = 1.47056

Bead 262

Date : Mon Oct 17 13:50:54 PDT 2022

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

Frame size : 12 pixels

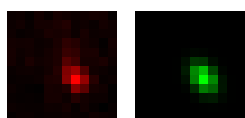
Coordinates : -82.3 μm (x), 93.4 μm (y), 6.04 μm (z)

Corresponding bead : Not found

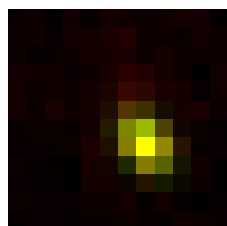
FWHM	Non corrected	Corrected	Theoretical
min	408 nm	425 nm	270 nm
max	590 nm	615 nm	270 nm
z	2.1 μm	2.11 μm	1.3 μm
Asymmetry	0.692		
Theta	-55.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 261.717$ (brightness)

$B = 120.066$ (background)

$a = 0.672$ px

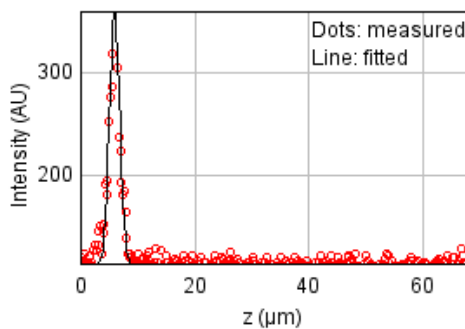
$b = -0.195$ px

$c = 0.517$ px

$x_c = 6.967$ px

$y_c = 6.787$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 25675.3253

Standard deviation: 9.14511

$R^2: 0.94302$

Parameters:

$a = 113.07473$

$b = 361.96477$

$c = 6.03734$

$d = 0.89322$

Bead 263

Date : Mon Oct 17 13:50:54 PDT 2022

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

Frame size : 12 pixels

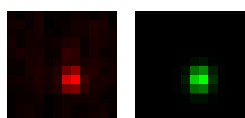
Coordinates : -74.4 μm (x), 53.8 μm (y), 5.74 μm (z)

Corresponding bead : Not found

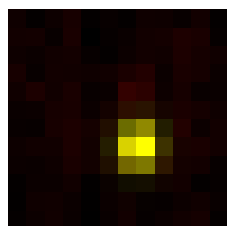
FWHM	Non corrected	Corrected	Theoretical
min	385 nm	400 nm	270 nm
max	442 nm	460 nm	270 nm
z	1.94 μm	1.94 μm	1.3 μm
Asymmetry	0.87		
Theta	84.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 314.939 (brightness)

B = 119.208 (background)

a = 0.905 px

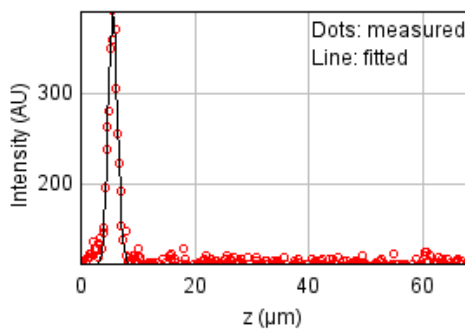
b = 0.022 px

c = 0.689 px

xc = 6.608 px

yc = 6.965 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18639.6346

Standard deviation: 7.79201

R^2 : 0.96292

Parameters:

a = 112.96052

b = 389.30436

c = 5.73639

d = 0.82200

Bead 264 (Rejected)

Date : Mon Oct 17 13:50:55 PDT 2022

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

Frame size : 12 pixels

Coordinates : 140 μm (x), 32.2 μm (y), 5.52 μm (z)

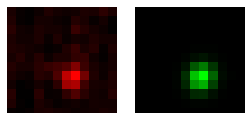
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

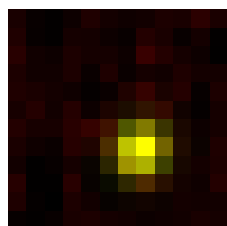
FWHM	Non corrected	Corrected	Theoretical
min	463 nm	482 nm	270 nm
max	505 nm	525 nm	270 nm
z	2.48 μm	2.49 μm	1.3 μm
Asymmetry	0.918		
Theta	63.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 147.057 (brightness)

B = 115.366 (background)

a = 0.606 px

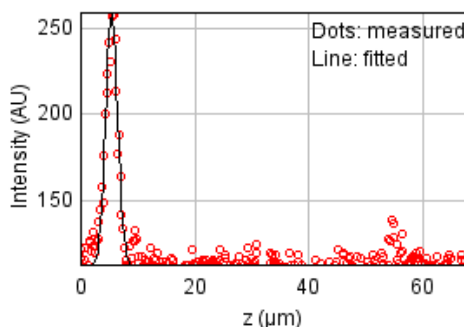
b = 0.040 px

c = 0.547 px

xc = 6.705 px

yc = 7.192 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16548.3495

Standard deviation: 7.34189

R^2 : 0.91232

Parameters:

a = 112.13102

b = 258.81626

c = 5.51706

d = 1.05107

Bead 265 (Rejected)

Date : Mon Oct 17 13:50:55 PDT 2022

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

Frame size : 12 pixels

Coordinates : -154 μm (x), 14.9 μm (y), 5.7 μm (z)

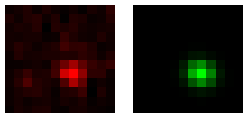
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

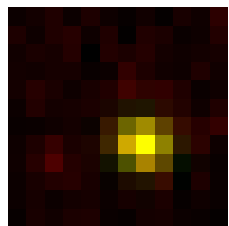
FWHM	Non corrected	Corrected	Theoretical
min	455 nm	474 nm	270 nm
max	507 nm	528 nm	270 nm
z	3.15 μm	3.16 μm	1.3 μm
Asymmetry	0.899		
Theta	-22.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.862$



Parameters:

A = 144.830 (brightness)

B = 117.070 (background)

a = 0.541 px

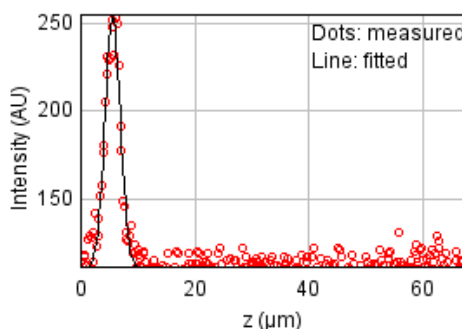
b = -0.043 px

c = 0.630 px

xc = 6.868 px

yc = 6.969 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16084.0985

Standard deviation: 7.23818

R^2 : 0.92891

Parameters:

a = 110.57441

b = 255.38338

c = 5.69631

d = 1.33770

Bead 266 (Rejected)

Date : Mon Oct 17 13:50:55 PDT 2022

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

Frame size : 12 pixels

Coordinates : 164 μm (x), 9.57 μm (y), 4.48 μm (z)

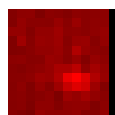
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	3.07 μm	3.08 μm	1.3 μm
Asymmetry	0.0		
Theta	0.0°		

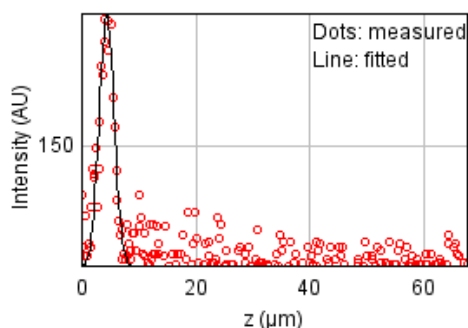
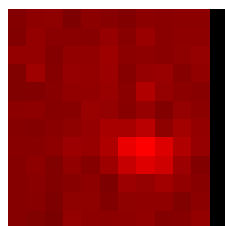
XY profile & fitting parameters :

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



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

Z profile & fitting parameters:



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

Sum of residuals squared: 15755.4658

Standard deviation: 7.16385

R²: 0.82166

Parameters:

a = 109.26366

b = 195.39580

c = 4.47901

d = 1.30334

Bead 267

Date : Mon Oct 17 13:50:55 PDT 2022

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

Frame size : 12 pixels

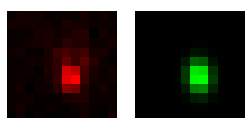
Coordinates : 62.6 μm (x), 3.71 μm (y), 5.93 μm (z)

Corresponding bead : Not found

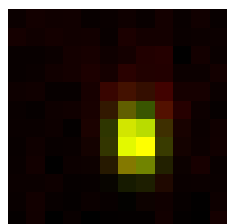
FWHM	Non corrected	Corrected	Theoretical
min	424 nm	442 nm	270 nm
max	582 nm	606 nm	270 nm
z	2.68 μm	2.69 μm	1.3 μm
Asymmetry	0.729		
Theta	-84.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 265.578$ (brightness)

$B = 121.665$ (background)

$a = 0.742$ px

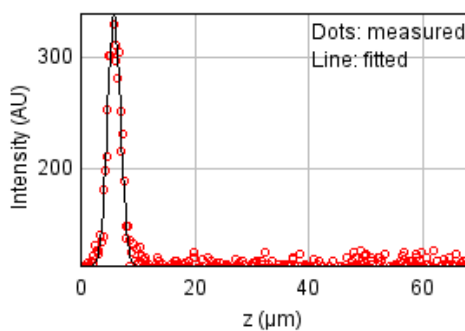
$b = -0.033$ px

$c = 0.400$ px

$x_c = 6.500$ px

$y_c = 6.642$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 18706.9801

Standard deviation: 7.80607

$R^2: 0.95933$

Parameters:

$a = 112.96112$

$b = 339.31420$

$c = 5.93290$

$d = 1.13647$

Bead 268 (Rejected)

Date : Mon Oct 17 13:50:55 PDT 2022

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

Frame size : 12 pixels

Coordinates : -44.2 μm (x), 1.87 μm (y), 3.78 μm (z)

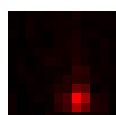
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	3.92 μm	3.93 μm	1.3 μm
Asymmetry	0.0		
Theta	0.0°		

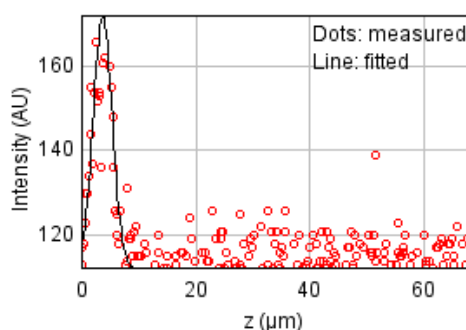
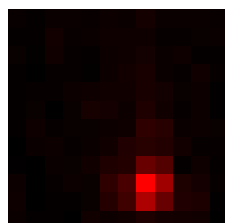
XY profile & fitting parameters :

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



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

Z profile & fitting parameters:



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

Sum of residuals squared: 15933.0763

Standard deviation: 7.20411

R²: 0.73437

Parameters:

a = 111.96269

b = 171.92761

c = 3.78278

d = 1.66326

Bead 269 (Rejected)

Date : Mon Oct 17 13:50:55 PDT 2022

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

Frame size : 12 pixels

Coordinates : 146 μm (x), -3.5 μm (y), 6.12 μm (z)

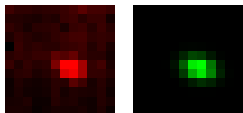
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

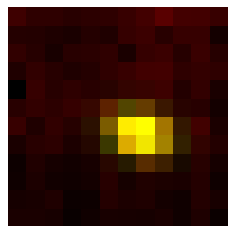
FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	582 nm	606 nm	270 nm
z	3.69 μm	3.7 μm	1.3 μm
Asymmetry	0.704		
Theta	-15.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.859$



Parameters:

A = 208.776 (brightness)

B = 120.959 (background)

a = 0.425 px

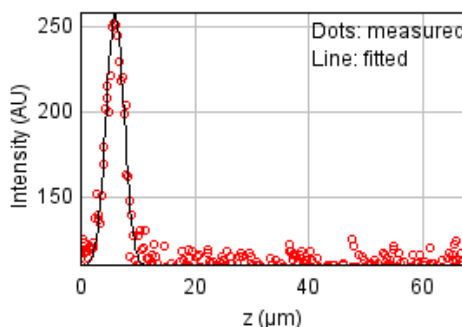
b = -0.105 px

c = 0.769 px

xc = 6.688 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: 17674.2202

Standard deviation: 7.58754

R^2 : 0.93496

Parameters:

a = 110.08357

b = 258.18800

c = 6.11845

d = 1.56587

Bead 270 (Rejected)

Date : Mon Oct 17 13:50:55 PDT 2022

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

Frame size : 12 pixels

Coordinates : 162 μm (x), -27.0 μm (y), 6.41 μm (z)

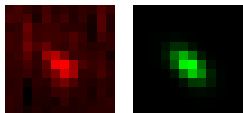
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

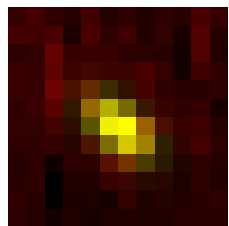
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	424 nm	270 nm
max	721 nm	751 nm	270 nm
z	5.14 μm	5.16 μm	1.3 μm
Asymmetry	0.565		
Theta	-42.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.814$



Parameters:

A = 145.409 (brightness)

B = 120.310 (background)

a = 0.510 px

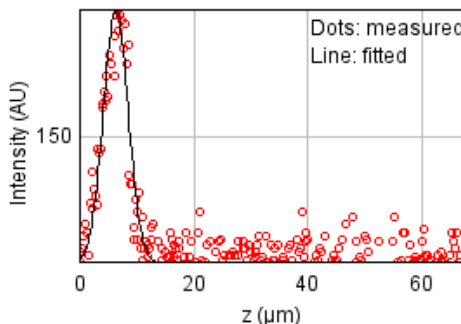
b = -0.274 px

c = 0.557 px

xc = 5.597 px

yc = 6.082 px

Z profile & fitting parameters:



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

Sum of residuals squared: 14237.9367

Standard deviation: 6.81011

R^2 : 0.88061

Parameters:

a = 109.19987

b = 191.27218

c = 6.40534

d = 2.18406

Bead 271 (Rejected)

Date : Mon Oct 17 13:50:56 PDT 2022

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

Frame size : 12 pixels

Coordinates : 145 um (x), -38.5 um (y), 5.95 um (z)

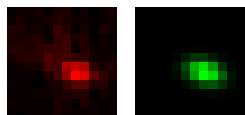
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

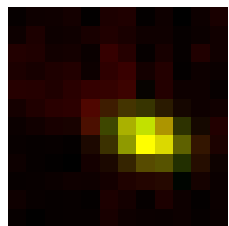
FWHM	Non corrected	Corrected	Theoretical
min	435 nm	453 nm	270 nm
max	688 nm	716 nm	270 nm
z	3.03 um	3.05 um	1.3 um
Asymmetry	0.632		
Theta	-18.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.872$



Parameters:

A = 176.408 (brightness)

B = 117.544 (background)

a = 0.327 px

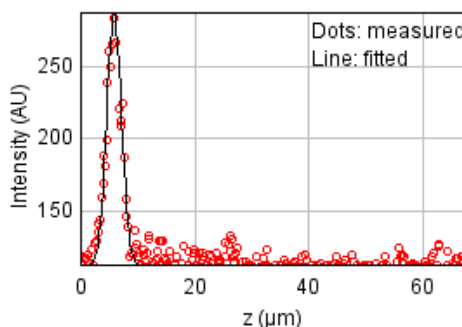
b = -0.128 px

c = 0.668 px

xc = 7.110 px

yc = 6.614 px

Z profile & fitting parameters:



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

Sum of residuals squared: 20271.2777

Standard deviation: 8.12590

R^2 : 0.93647

Parameters:

a = 111.87141

b = 287.54171

c = 5.94864

d = 1.28881

Bead 272

Date : Mon Oct 17 13:50:56 PDT 2022

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

Frame size : 12 pixels

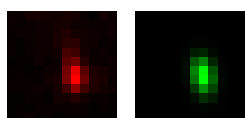
Coordinates : 20.7 μm (x), -41.6 μm (y), 6.42 μm (z)

Corresponding bead : Not found

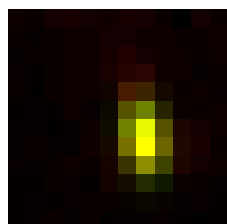
FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	674 nm	702 nm	270 nm
z	2.13 μm	2.14 μm	1.3 μm
Asymmetry	0.577		
Theta	-81.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 513.201 (brightness)

B = 122.547 (background)

a = 0.873 px

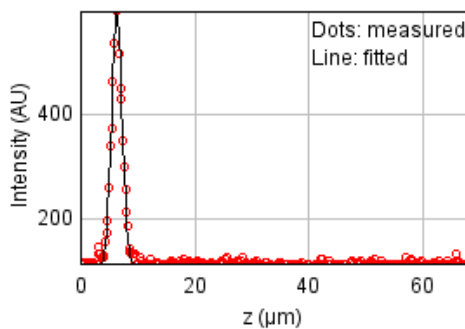
b = -0.091 px

c = 0.310 px

xc = 6.918 px

yc = 6.519 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22181.0551

Standard deviation: 8.50006

R^2 : 0.98639

Parameters:

a = 114.04716

b = 595.06955

c = 6.42492

d = 0.90545

Bead 273 (Rejected)

Date : Mon Oct 17 13:50:56 PDT 2022

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

Frame size : 12 pixels

Coordinates : -89.1 μm (x), -46.0 μm (y), 7.23 μm (z)

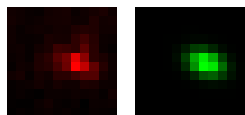
Corresponding bead : Not found

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

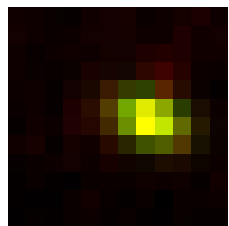
FWHM	Non corrected	Corrected	Theoretical
min	454 nm	473 nm	270 nm
max	674 nm	702 nm	270 nm
z	3.55 μm	3.56 μm	1.3 μm
Asymmetry	0.674		
Theta	-20.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 295.349 (brightness)

B = 121.364 (background)

a = 0.340 px

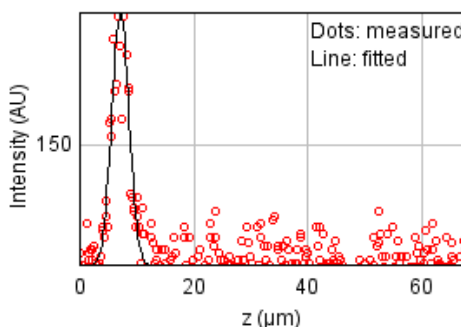
b = -0.118 px

c = 0.605 px

xc = 7.215 px

yc = 5.609 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15000.4545

Standard deviation: 6.99009

R^2 : 0.81818

Parameters:

a = 112.99277

b = 190.66454

c = 7.23468

d = 1.50765

Bead 274

Date : Mon Oct 17 13:50:56 PDT 2022

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

Frame size : 12 pixels

Coordinates : -11.6 μm (x), -50.4 μm (y), 6.3 μm (z)

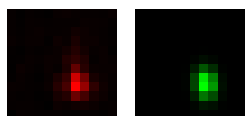
Corresponding bead : Not found



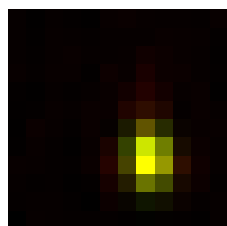
FWHM	Non corrected	Corrected	Theoretical
min	379 nm	395 nm	270 nm
max	549 nm	571 nm	270 nm
z	2.04 μm	2.05 μm	1.3 μm
Asymmetry	0.691		
Theta	-85.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 740.225$ (brightness)

$B = 125.232$ (background)

$a = 0.931$ px

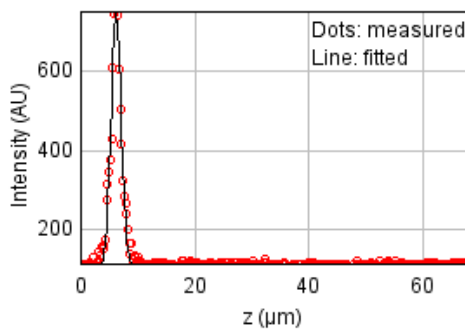
$b = -0.042$ px

$c = 0.450$ px

$x_c = 7.204$ px

$y_c = 7.636$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 67333.4360

Standard deviation: 14.80970

$R^2: 0.97586$

Parameters:

$a = 114.32251$

$b = 753.31842$

$c = 6.29518$

$d = 0.86664$

Bead 275 (Rejected)

Date : Mon Oct 17 13:50:56 PDT 2022

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

Frame size : 12 pixels

Coordinates : 52.0 μm (x), -60.6 μm (y), 6.99 μm (z)

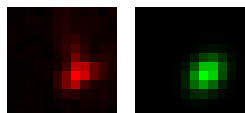
Corresponding bead : Not found

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

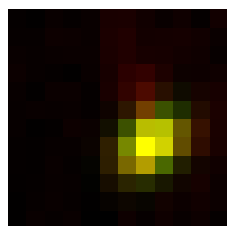
FWHM	Non corrected	Corrected	Theoretical
min	511 nm	533 nm	270 nm
max	676 nm	704 nm	270 nm
z	3.3 μm	3.31 μm	1.3 μm
Asymmetry	0.756		
Theta	47.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.913$



Parameters:

A = 416.963 (brightness)

B = 122.711 (background)

a = 0.413 px

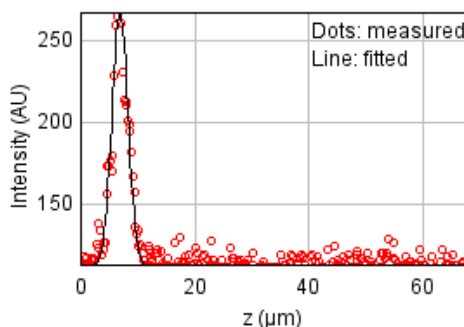
b = 0.109 px

c = 0.393 px

xc = 7.319 px

yc = 6.792 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19703.1861

Standard deviation: 8.01123

R^2 : 0.92718

Parameters:

a = 112.12136

b = 267.00337

c = 6.98846

d = 1.40060

Bead 276

Date : Mon Oct 17 13:50:56 PDT 2022

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

Frame size : 12 pixels

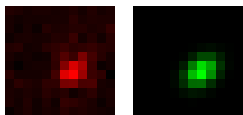
Coordinates : -144 μm (x), -65.8 μm (y), 5.34 μm (z)

Corresponding bead : Not found

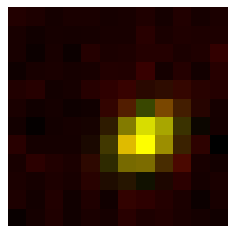
FWHM	Non corrected	Corrected	Theoretical
min	466 nm	486 nm	270 nm
max	644 nm	671 nm	270 nm
z	2.42 μm	2.43 μm	1.3 μm
Asymmetry	0.724		
Theta	39.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 141.614$ (brightness)

$B = 114.772$ (background)

$a = 0.442$ px

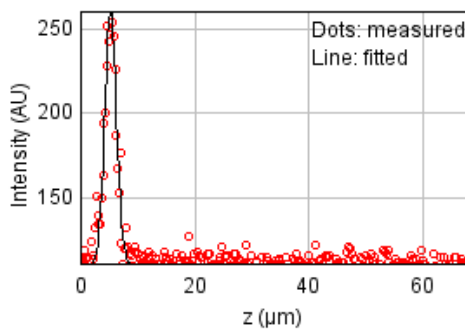
$b = 0.144$ px

$c = 0.498$ px

$x_c = 6.960$ px

$y_c = 6.648$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 13142.3268

Standard deviation: 6.54285

$R^2: 0.92993$

Parameters:

$a = 110.88409$

$b = 260.04658$

$c = 5.33663$

$d = 1.02835$

Bead 277 (Rejected)

Date : Mon Oct 17 13:50:56 PDT 2022

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

Frame size : 12 pixels

Coordinates : -106 μm (x), -72.2 μm (y), 7.23 μm (z)

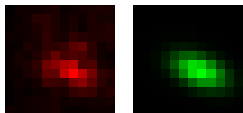
Corresponding bead : Not found

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

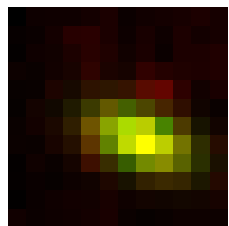
FWHM	Non corrected	Corrected	Theoretical
min	536 nm	558 nm	270 nm
max	984 nm	1.02 μm	270 nm
z	3.5 μm	3.52 μm	1.3 μm
Asymmetry	0.544		
Theta	-22.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.873$



Parameters:

A = 194.649 (brightness)

B = 119.476 (background)

a = 0.185 px

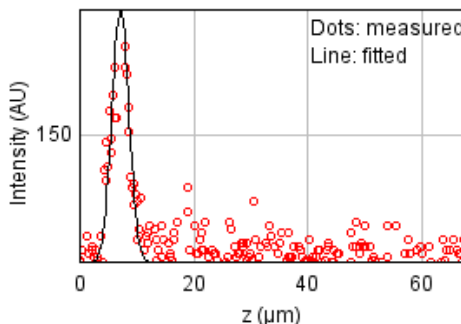
b = -0.114 px

c = 0.421 px

xc = 6.729 px

yc = 6.691 px

Z profile & fitting parameters:



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

Sum of residuals squared: 12926.7889

Standard deviation: 6.48898

R^2 : 0.82040

Parameters:

a = 113.12714

b = 186.22274

c = 7.23480

d = 1.48750

Bead 278

Date : Mon Oct 17 13:50:56 PDT 2022

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

Frame size : 12 pixels

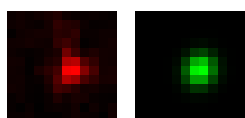
Coordinates : 42.4 μm (x), -75.6 μm (y), 6.11 μm (z)

Corresponding bead : Not found

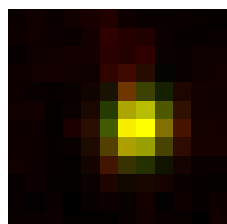
FWHM	Non corrected	Corrected	Theoretical
min	538 nm	561 nm	270 nm
max	602 nm	627 nm	270 nm
z	2.68 μm	2.69 μm	1.3 μm
Asymmetry	0.894		
Theta	69.4°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.912$



Parameters:

$A = 302.888$ (brightness)

$B = 121.082$ (background)

$a = 0.452$ px

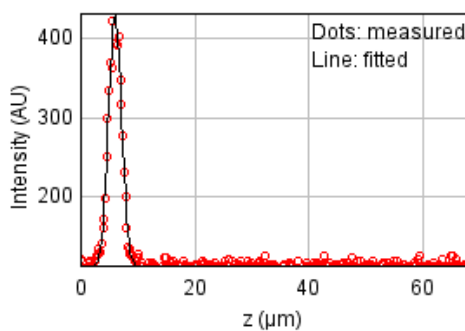
$b = 0.031$ px

$c = 0.381$ px

$x_c = 6.581$ 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: 17287.7638

Standard deviation: 7.50413

$R^2: 0.98075$

Parameters:

$a = 111.89611$

$b = 431.64662$

$c = 6.11263$

$d = 1.13720$

Bead 279

Date : Mon Oct 17 13:50:56 PDT 2022

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

Frame size : 12 pixels

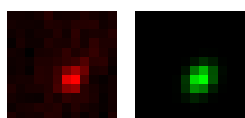
Coordinates : -151 μm (x), -88.1 μm (y), 5.58 μm (z)

Corresponding bead : Not found

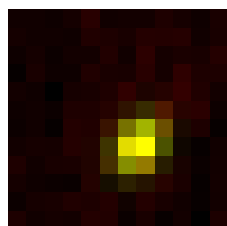
FWHM	Non corrected	Corrected	Theoretical
min	423 nm	441 nm	270 nm
max	561 nm	585 nm	270 nm
z	2.25 μm	2.26 μm	1.3 μm
Asymmetry	0.754		
Theta	53.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 178.072$ (brightness)

$B = 115.517$ (background)

$a = 0.634$ px

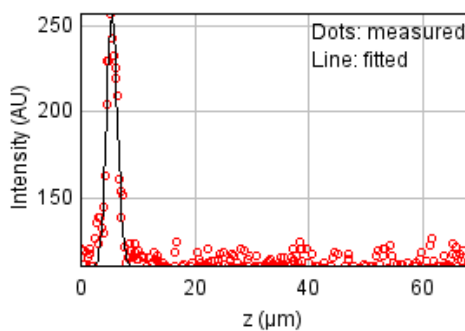
$b = 0.155$ px

$c = 0.540$ px

$x_c = 6.635$ px

$y_c = 6.921$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 16151.1440

Standard deviation: 7.25325

$R^2: 0.90732$

Parameters:

$a = 110.56059$

$b = 257.63151$

$c = 5.58445$

$d = 0.95503$

Bead 280 (Rejected)

Date : Mon Oct 17 13:50:57 PDT 2022

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

Frame size : 12 pixels

Coordinates : 50.5 μm (x), 93.6 μm (y), 6.42 μm (z)

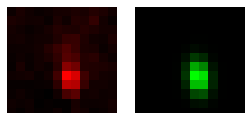
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

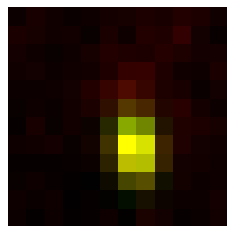
FWHM	Non corrected	Corrected	Theoretical
min	393 nm	409 nm	270 nm
max	623 nm	649 nm	270 nm
z	2.51 μm	2.52 μm	1.3 μm
Asymmetry	0.631		
Theta	-83.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.895$



Parameters:

A = 280.585 (brightness)

B = 121.250 (background)

a = 0.862 px

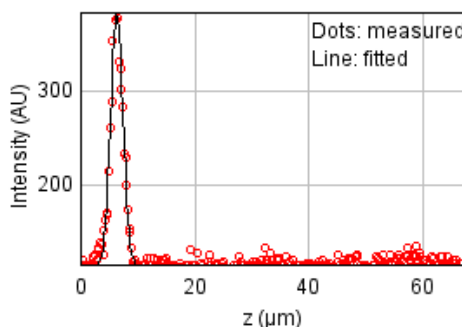
b = -0.061 px

c = 0.353 px

xc = 6.441 px

yc = 7.153 px

Z profile & fitting parameters:



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

Sum of residuals squared: 20966.3312

Standard deviation: 8.26403

R^2 : 0.96544

Parameters:

a = 114.43110

b = 383.25848

c = 6.41504

d = 1.06538

Bead 281 (Rejected)

Date : Mon Oct 17 13:50:57 PDT 2022

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

Frame size : 12 pixels

Coordinates : -66.8 μm (x), 71.7 μm (y), 6.57 μm (z)

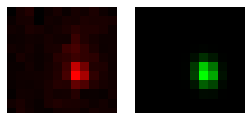
Corresponding bead : Not found

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

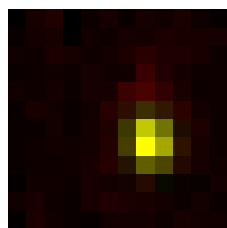
FWHM	Non corrected	Corrected	Theoretical
min	379 nm	394 nm	270 nm
max	471 nm	490 nm	270 nm
z	4.37 μm	4.39 μm	1.3 μm
Asymmetry	0.805		
Theta	-79.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.897$



Parameters:

A = 258.951 (brightness)

B = 119.036 (background)

a = 0.924 px

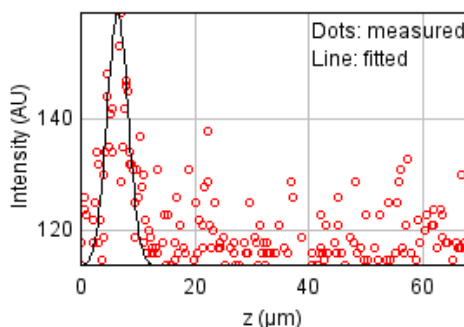
b = -0.061 px

c = 0.618 px

xc = 7.247 px

yc = 6.715 px

Z profile & fitting parameters:



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

Sum of residuals squared: 20378.6981

Standard deviation: 8.14740

R^2 : 0.57447

Parameters:

a = 113.75535

b = 158.89860

c = 6.56769

d = 1.85574

Bead 282 (Rejected)

Date : Mon Oct 17 13:50:57 PDT 2022

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

Frame size : 12 pixels

Coordinates : 7.0 μm (x), 71.3 μm (y), 7.12 μm (z)

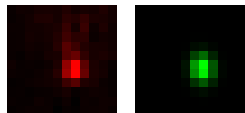
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

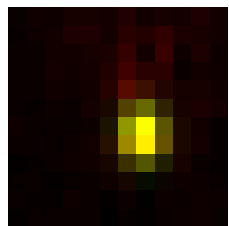
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	424 nm	270 nm
max	531 nm	553 nm	270 nm
z	1.86 μm	1.87 μm	1.3 μm
Asymmetry	0.767		
Theta	-86.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 451.045 (brightness)

B = 129.803 (background)

a = 0.808 px

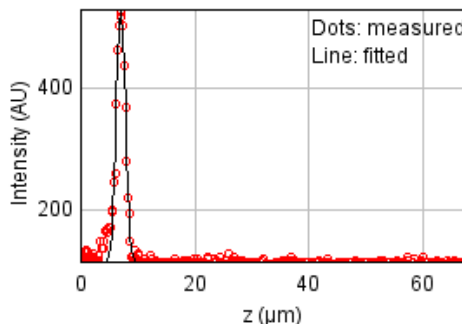
b = -0.020 px

c = 0.477 px

xc = 6.829 px

yc = 6.420 px

Z profile & fitting parameters:



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

Sum of residuals squared: 31154.4863

Standard deviation: 10.07375

R^2 : 0.97139

Parameters:

a = 114.66291

b = 531.26040

c = 7.12284

d = 0.78895

Bead 283 (Rejected)

Date : Mon Oct 17 13:50:57 PDT 2022

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

Frame size : 12 pixels

Coordinates : 158 um (x), 54.4 um (y), 47.5 um (z)

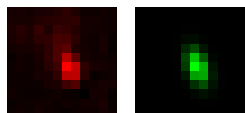
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

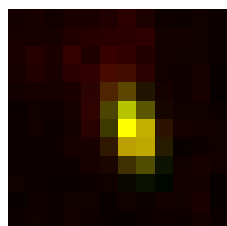
FWHM	Non corrected	Corrected	Theoretical
min	367 nm	382 nm	270 nm
max	672 nm	700 nm	270 nm
z	1.61 um	1.62 um	1.3 um
Asymmetry	0.546		
Theta	-71.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 422.556 (brightness)

B = 122.662 (background)

a = 0.927 px

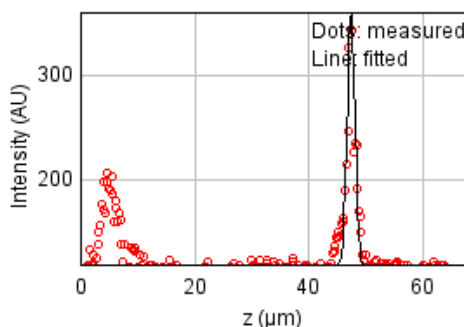
b = -0.212 px

c = 0.369 px

xc = 6.307 px

yc = 6.044 px

Z profile & fitting parameters:



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

Sum of residuals squared: 113086.635

Standard deviation: 19.19272

R^2 : 0.73919

Parameters:

a = 116.70044

b = 362.28198

c = 47.45270

d = 0.68413

Bead 284 (Rejected)

Date : Mon Oct 17 13:50:58 PDT 2022

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

Frame size : 12 pixels

Coordinates : 10.6 μm (x), 45.5 μm (y), 3.96 μm (z)

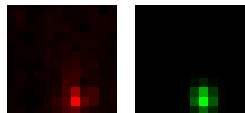
Corresponding bead : Not found

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

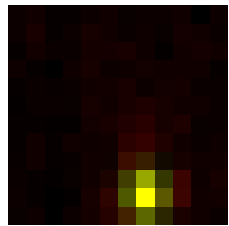
FWHM	Non corrected	Corrected	Theoretical
min	355 nm	370 nm	270 nm
max	452 nm	471 nm	270 nm
z	3.57 μm	3.59 μm	1.3 μm
Asymmetry	0.786		
Theta	-85.3°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.861$



Parameters:

A = 305.484 (brightness)

B = 123.285 (background)

a = 1.060 px

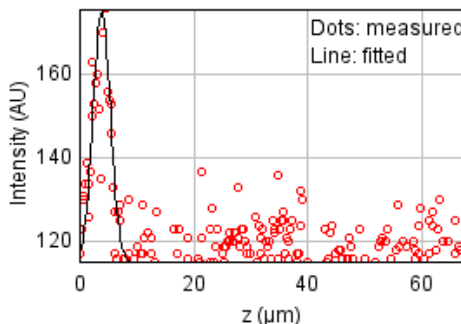
b = -0.033 px

c = 0.660 px

xc = 6.992 px

yc = 9.816 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18300.1351

Standard deviation: 7.72072

R^2 : 0.69293

Parameters:

a = 114.87869

b = 175.42482

c = 3.95578

d = 1.51803

Bead 285 (Rejected)

Date : Mon Oct 17 13:50:58 PDT 2022

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

Frame size : 12 pixels

Coordinates : -120 μm (x), 35.9 μm (y), 5.65 μm (z)

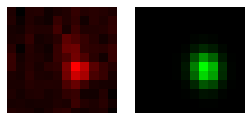
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

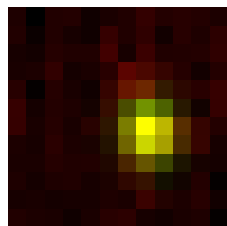
FWHM	Non corrected	Corrected	Theoretical
min	504 nm	524 nm	270 nm
max	609 nm	634 nm	270 nm
z	2.08 μm	2.09 μm	1.3 μm
Asymmetry	0.827		
Theta	-80.3°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.819$



Parameters:

A = 121.348 (brightness)

B = 115.161 (background)

a = 0.524 px

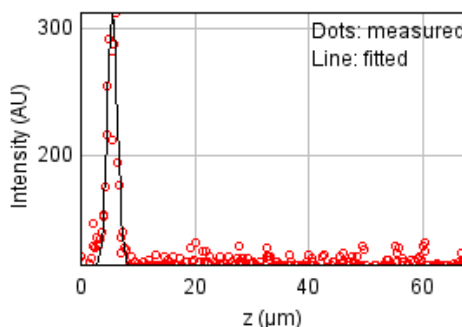
b = -0.028 px

c = 0.367 px

xc = 7.190 px

yc = 6.274 px

Z profile & fitting parameters:



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

Sum of residuals squared: 45126.7810

Standard deviation: 12.12406

R^2 : 0.85714

Parameters:

a = 112.89838

b = 312.41768

c = 5.65338

d = 0.88520

Bead 286

Date : Mon Oct 17 13:50:58 PDT 2022

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

Frame size : 12 pixels

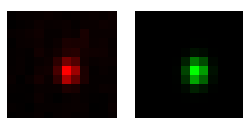
Coordinates : -96.7 μm (x), 3.6 μm (y), 6.67 μm (z)

Corresponding bead : Not found

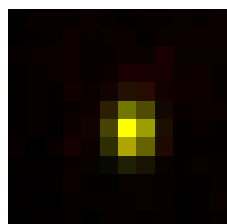
FWHM	Non corrected	Corrected	Theoretical
min	386 nm	402 nm	270 nm
max	473 nm	493 nm	270 nm
z	2.07 μm	2.08 μm	1.3 μm
Asymmetry	0.815		
Theta	88.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 507.309 (brightness)

B = 119.752 (background)

a = 0.902 px

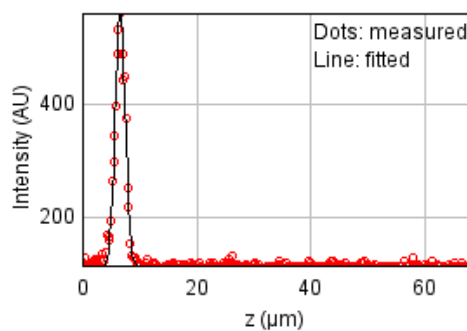
b = 0.010 px

c = 0.600 px

xc = 6.230 px

yc = 6.131 px

Z profile & fitting parameters:



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

Sum of residuals squared: 25283.6837

Standard deviation: 9.07509

R^2 : 0.98190

Parameters:

a = 113.42526

b = 563.69395

c = 6.67234

d = 0.88008

Bead 287 (Rejected)

Date : Mon Oct 17 13:50:58 PDT 2022

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

Frame size : 12 pixels

Coordinates : 26.7 μm (x), -17.4 μm (y), 3.85 μm (z)

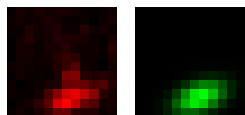
Corresponding bead : Not found

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

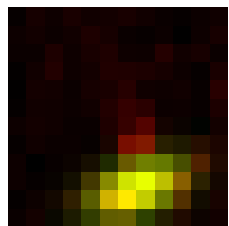
FWHM	Non corrected	Corrected	Theoretical
min	516 nm	537 nm	270 nm
max	940 nm	979 nm	270 nm
z	3.51 μm	3.52 μm	1.3 μm
Asymmetry	0.549		
Theta	21.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.873$



Parameters:

A = 199.289 (brightness)

B = 120.119 (background)

a = 0.199 px

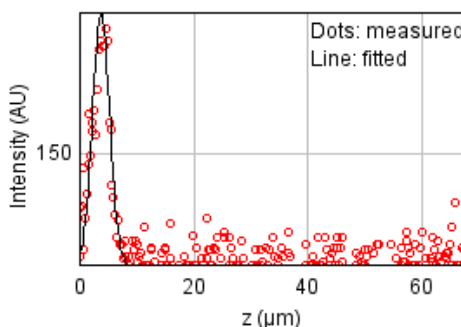
b = 0.120 px

c = 0.457 px

xc = 6.543 px

yc = 9.381 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16408.7536

Standard deviation: 7.31086

R^2 : 0.83169

Parameters:

a = 112.54453

b = 198.09076

c = 3.85464

d = 1.49065

Bead 288

Date : Mon Oct 17 13:50:59 PDT 2022

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

Frame size : 12 pixels

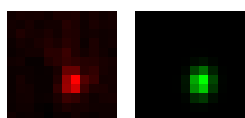
Coordinates : 83.1 μm (x), -18.9 μm (y), 6.8 μm (z)

Corresponding bead : Not found

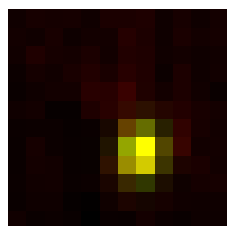
FWHM	Non corrected	Corrected	Theoretical
min	394 nm	410 nm	270 nm
max	500 nm	520 nm	270 nm
z	2.15 μm	2.16 μm	1.3 μm
Asymmetry	0.788		
Theta	84.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 314.704$ (brightness)

$B = 124.183$ (background)

$a = 0.862$ px

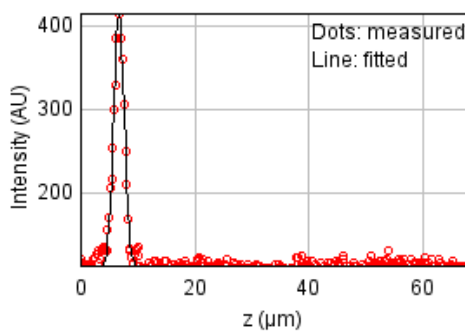
$b = 0.033$ px

$c = 0.541$ px

$x_c = 6.737$ px

$y_c = 7.305$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 16389.7671

Standard deviation: 7.30663

$R^2: 0.97505$

Parameters:

$a = 113.49352$

$b = 415.66303$

$c = 6.79836$

$d = 0.91436$

Bead 289 (Rejected)

Date : Mon Oct 17 13:50:59 PDT 2022

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

Frame size : 12 pixels

Coordinates : 31.0 μm (x), -24.7 μm (y), 7.58 μm (z)

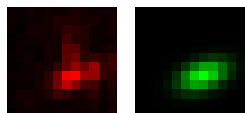
Corresponding bead : Not found

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

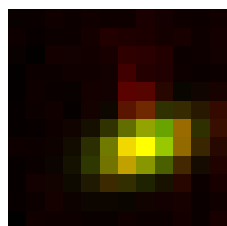
FWHM	Non corrected	Corrected	Theoretical
min	507 nm	528 nm	270 nm
max	916 nm	954 nm	270 nm
z	3.32 μm	3.33 μm	1.3 μm
Asymmetry	0.553		
Theta	19.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 278.435 (brightness)

B = 120.764 (background)

a = 0.202 px

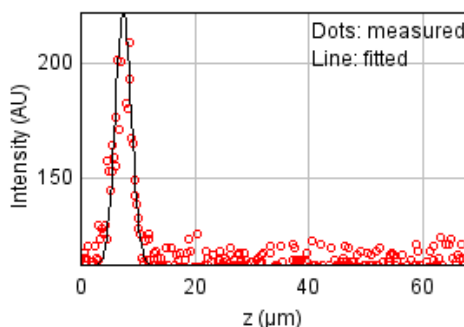
b = 0.116 px

c = 0.480 px

xc = 6.927 px

yc = 6.973 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18000.9995

Standard deviation: 7.65736

R^2 : 0.87622

Parameters:

a = 112.37012

b = 222.41786

c = 7.57824

d = 1.41005

Bead 290 (Rejected)

Date : Mon Oct 17 13:50:59 PDT 2022

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

Frame size : 12 pixels

Coordinates : 20.7 μm (x), -39.3 μm (y), 2.94 μm (z)

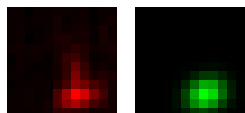
Corresponding bead : Not found

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

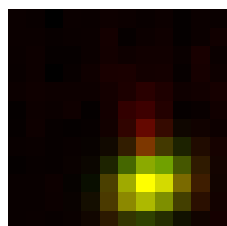
FWHM	Non corrected	Corrected	Theoretical
min	589 nm	614 nm	270 nm
max	724 nm	754 nm	270 nm
z	3.16 μm	3.17 μm	1.3 μm
Asymmetry	0.814		
Theta	25.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.885$



Parameters:

A = 325.628 (brightness)

B = 122.547 (background)

a = 0.281 px

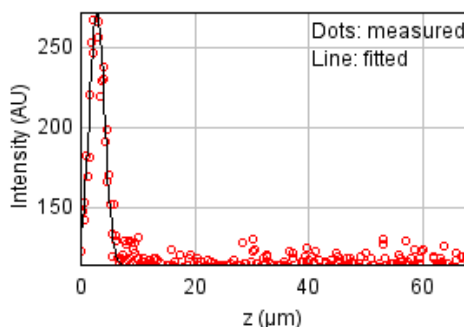
b = 0.051 px

c = 0.362 px

xc = 7.212 px

yc = 9.030 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16786.5296

Standard deviation: 7.39454

R^2 : 0.93814

Parameters:

a = 113.61343

b = 272.73733

c = 2.94220

d = 1.34063

Bead 291 (Rejected)

Date : Mon Oct 17 13:50:59 PDT 2022

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

Frame size : 12 pixels

Coordinates : 56.9 μm (x), -69.2 μm (y), 3.86 μm (z)

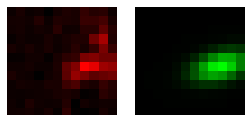
Corresponding bead : Not found

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

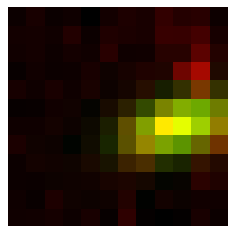
FWHM	Non corrected	Corrected	Theoretical
min	525 nm	547 nm	270 nm
max	1.04 μm	1.09 μm	270 nm
z	2.22 μm	2.23 μm	1.3 μm
Asymmetry	0.503		
Theta	15.4°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.746$



Parameters:

A = 144.291 (brightness)

B = 118.469 (background)

a = 0.149 px

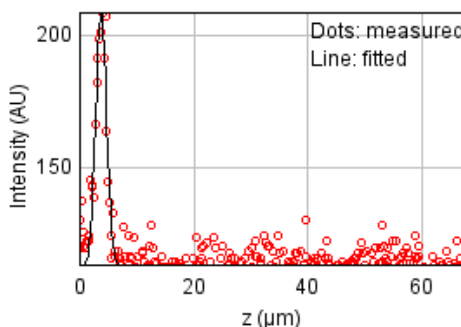
b = 0.093 px

c = 0.461 px

xc = 8.832 px

yc = 5.949 px

Z profile & fitting parameters:



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

Sum of residuals squared: 12590.5428

Standard deviation: 6.40403

R^2 : 0.84093

Parameters:

a = 113.24340

b = 209.27294

c = 3.85605

d = 0.94234

Bead 292

Date : Mon Oct 17 13:50:59 PDT 2022

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

Frame size : 12 pixels

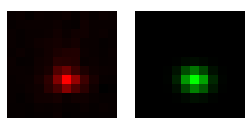
Coordinates : -20.9 μm (x), -70.7 μm (y), 41.3 μm (z)

Corresponding bead : Not found

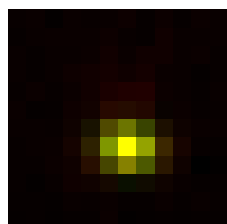
FWHM	Non corrected	Corrected	Theoretical
min	425 nm	443 nm	270 nm
max	526 nm	548 nm	270 nm
z	2.08 μm	2.09 μm	1.3 μm
Asymmetry	0.808		
Theta	-9.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 647.819$ (brightness)

$B = 124.457$ (background)

$a = 0.491$ px

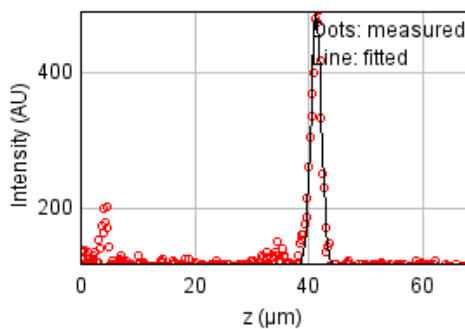
$b = -0.041$ px

$c = 0.736$ px

$x_c = 6.044$ px

$y_c = 7.037$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 64683.5452

Standard deviation: 14.51536

$R^2: 0.93607$

Parameters:

$a = 117.62350$

$b = 490.74323$

$c = 41.34368$

$d = 0.88538$

Bead 293 (Rejected)

Date : Mon Oct 17 13:50:59 PDT 2022

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

Frame size : 12 pixels

Coordinates : 81.5 μm (x), 93.9 μm (y), 4.16 μm (z)

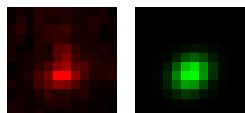
Corresponding bead : Not found

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

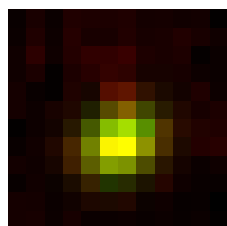
FWHM	Non corrected	Corrected	Theoretical
min	593 nm	617 nm	270 nm
max	722 nm	752 nm	270 nm
z	1.84 μm	1.85 μm	1.3 μm
Asymmetry	0.821		
Theta	34.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.862$



Parameters:

A = 158.929 (brightness)

B = 118.968 (background)

a = 0.296 px

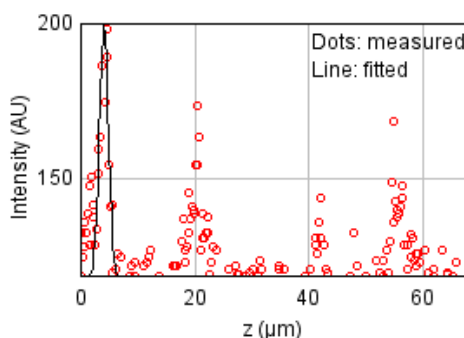
b = 0.058 px

c = 0.343 px

xc = 5.614 px

yc = 6.765 px

Z profile & fitting parameters:



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

Sum of residuals squared: 42312.7701

Standard deviation: 11.73996

R^2 : 0.48874

Parameters:

a = 118.37357

b = 200.19449

c = 4.16364

d = 0.78192

Bead 294

Date : Mon Oct 17 13:51:00 PDT 2022

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

Frame size : 12 pixels

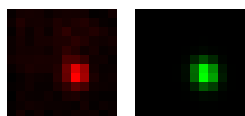
Coordinates : -85.3 μm (x), 86.0 μm (y), 6.58 μm (z)

Corresponding bead : Not found

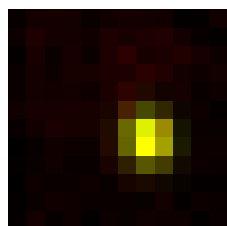
FWHM	Non corrected	Corrected	Theoretical
min	434 nm	452 nm	270 nm
max	490 nm	510 nm	270 nm
z	2.19 μm	2.2 μm	1.3 μm
Asymmetry	0.886		
Theta	-71.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 341.053$ (brightness)

$B = 122.264$ (background)

$a = 0.696$ px

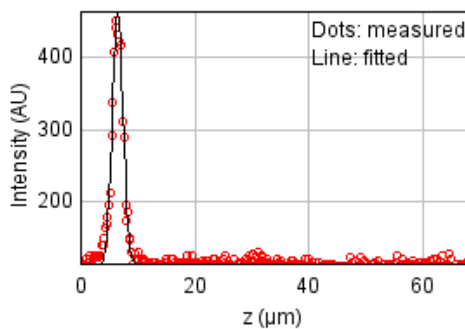
$b = -0.047$ px

$c = 0.575$ px

$x_c = 7.141$ px

$y_c = 6.561$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 26559.6132

Standard deviation: 9.30126

$R^2 = 0.97039$

Parameters:

$a = 113.57032$

$b = 462.65654$

$c = 6.57598$

$d = 0.93210$

Bead 295

Date : Mon Oct 17 13:51:00 PDT 2022

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

Frame size : 12 pixels

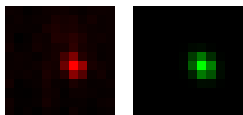
Coordinates : -110 μm (x), 65.7 μm (y), 6.98 μm (z)

Corresponding bead : Not found

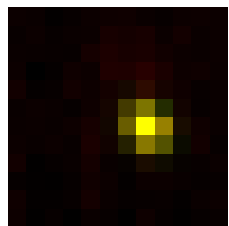
FWHM	Non corrected	Corrected	Theoretical
min	374 nm	389 nm	270 nm
max	455 nm	474 nm	270 nm
z	2.16 μm	2.17 μm	1.3 μm
Asymmetry	0.821		
Theta	-52.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 342.737$ (brightness)

$B = 118.729$ (background)

$a = 0.844$ px

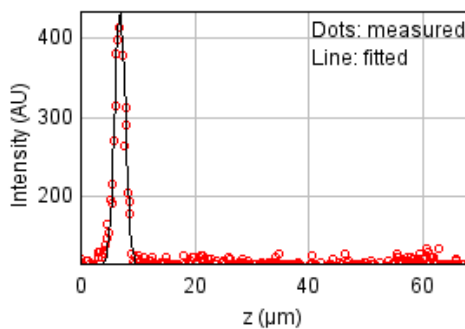
$b = -0.152$ px

$c = 0.765$ px

$x_c = 7.099$ px

$y_c = 6.027$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 31104.7219

Standard deviation: 10.06570

$R^2 = 0.95883$

Parameters:

$a = 114.07787$

$b = 434.69349$

$c = 6.98454$

$d = 0.91897$

Bead 296

Date : Mon Oct 17 13:51:00 PDT 2022

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

Frame size : 12 pixels

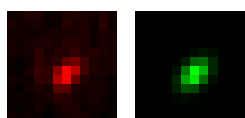
Coordinates : 136 μm (x), 64.5 μm (y), 6.5 μm (z)

Corresponding bead : Not found

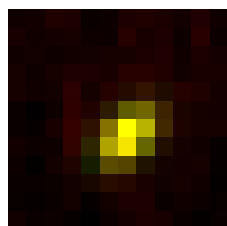
FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	628 nm	654 nm	270 nm
z	3.1 μm	3.11 μm	1.3 μm
Asymmetry	0.653		
Theta	46.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 251.876 (brightness)

B = 118.446 (background)

a = 0.580 px

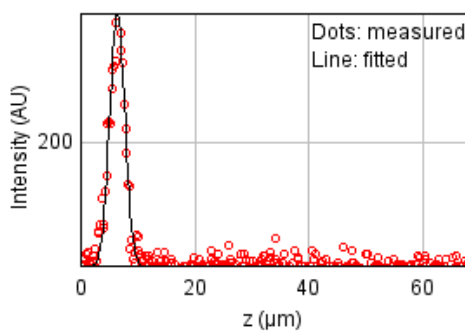
b = 0.230 px

c = 0.561 px

xc = 6.034 px

yc = 6.393 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17730.2105

Standard deviation: 7.59955

R^2 : 0.94885

Parameters:

a = 110.84660

b = 293.34811

c = 6.50121

d = 1.31638

Bead 297 (Rejected)

Date : Mon Oct 17 13:51:00 PDT 2022

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

Frame size : 12 pixels

Coordinates : -65.4 μm (x), 42.4 μm (y), 7.81 μm (z)

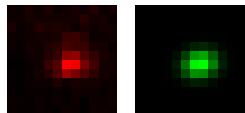
Corresponding bead : Not found

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

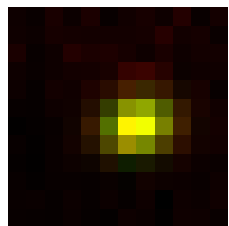
FWHM	Non corrected	Corrected	Theoretical
min	498 nm	519 nm	270 nm
max	614 nm	639 nm	270 nm
z	5.38 μm	5.41 μm	1.3 μm
Asymmetry	0.812		
Theta	15.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 284.031 (brightness)

B = 121.117 (background)

a = 0.369 px

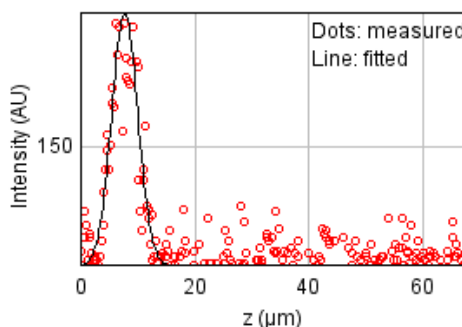
b = 0.046 px

c = 0.528 px

xc = 6.565 px

yc = 5.937 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19249.4916

Standard deviation: 7.91845

R^2 : 0.83930

Parameters:

a = 113.14497

b = 191.88513

c = 7.81494

d = 2.28601

Bead 298 (Rejected)

Date : Mon Oct 17 13:51:00 PDT 2022

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

Frame size : 12 pixels

Coordinates : 113 um (x), 16.1 um (y), 12.9 um (z)

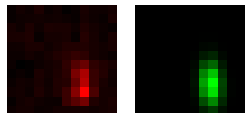
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

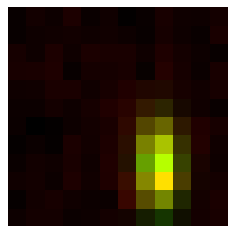
FWHM	Non corrected	Corrected	Theoretical
min	385 nm	401 nm	270 nm
max	830 nm	865 nm	270 nm
z	2.66 um	2.67 um	1.3 um
Asymmetry	0.464		
Theta	-88.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.884$



Parameters:

A = 211.915 (brightness)

B = 118.713 (background)

a = 0.904 px

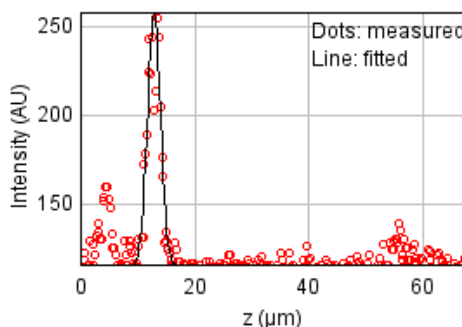
b = -0.023 px

c = 0.195 px

xc = 7.760 px

yc = 8.151 px

Z profile & fitting parameters:



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

Sum of residuals squared: 41507.9538

Standard deviation: 11.62777

R^2 : 0.80862

Parameters:

a = 115.39108

b = 258.45963

c = 12.93410

d = 1.13033

Bead 299

Date : Mon Oct 17 13:51:00 PDT 2022

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

Frame size : 12 pixels

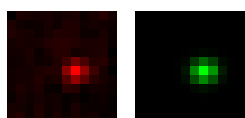
Coordinates : -158 μm (x), 13.5 μm (y), 6.43 μm (z)

Corresponding bead : Not found

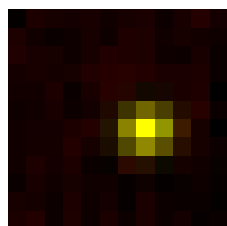
FWHM	Non corrected	Corrected	Theoretical
min	414 nm	431 nm	270 nm
max	473 nm	493 nm	270 nm
z	2.73 μm	2.74 μm	1.3 μm
Asymmetry	0.875		
Theta	3.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 190.606 (brightness)

B = 115.349 (background)

a = 0.599 px

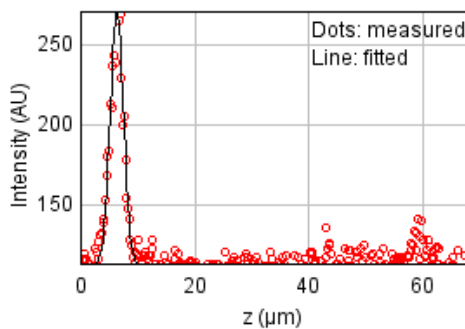
b = 0.012 px

c = 0.782 px

xc = 7.054 px

yc = 6.094 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19827.2341

Standard deviation: 8.03641

R^2 : 0.91634

Parameters:

a = 113.24511

b = 270.48848

c = 6.42835

d = 1.16070

Bead 300 (Rejected)

Date : Mon Oct 17 13:51:00 PDT 2022

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

Frame size : 12 pixels

Coordinates : 124 um (x), 3.27 um (y), 6.51 um (z)

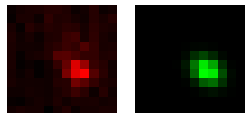
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

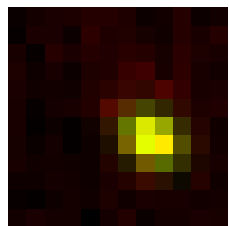
FWHM	Non corrected	Corrected	Theoretical
min	449 nm	468 nm	270 nm
max	575 nm	599 nm	270 nm
z	2.83 um	2.84 um	1.3 um
Asymmetry	0.781		
Theta	-38.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.872$



Parameters:

A = 187.839 (brightness)

B = 119.734 (background)

a = 0.507 px

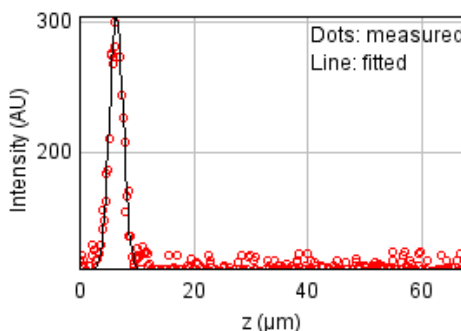
b = -0.127 px

c = 0.564 px

xc = 7.332 px

yc = 6.657 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18276.3839

Standard deviation: 7.71571

R^2 : 0.94905

Parameters:

a = 111.24199

b = 304.94165

c = 6.51052

d = 1.20186