

Bead 3001

Date : Mon Oct 17 13:53:55 PDT 2022

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

Frame size : 12 pixels

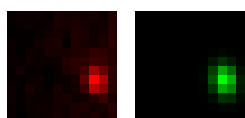
Coordinates : 113 μm (x), 82.2 μm (y), 15.1 μm (z)

Corresponding bead : Not found

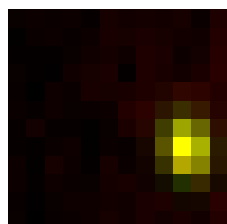
FWHM	Non corrected	Corrected	Theoretical
min	422 nm	439 nm	270 nm
max	570 nm	593 nm	270 nm
z	2.19 μm	2.2 μm	1.3 μm
Asymmetry	0.74		
Theta	-79.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.911$



Parameters:

$A = 273.741$ (brightness)

$B = 123.028$ (background)

$a = 0.744$ px

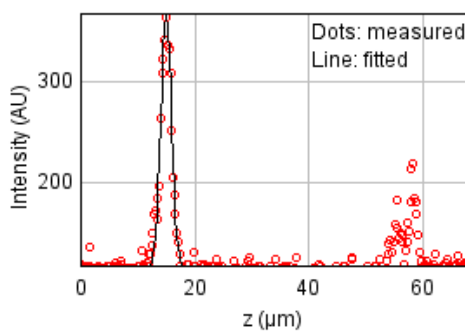
$b = -0.060$ px

$c = 0.425$ px

$x_c = 9.254$ px

$y_c = 7.040$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 76800.4468

Standard deviation: 15.81658

$R^2: 0.85604$

Parameters:

$a = 116.65331$

$b = 369.96376$

$c = 15.05618$

$d = 0.92849$

Bead 3002 (Rejected)

Date : Mon Oct 17 13:53:55 PDT 2022

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

Frame size : 12 pixels

Coordinates : 112 um (x), 80.2 um (y), 56.2 um (z)

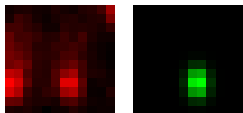
Corresponding bead : Not found

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

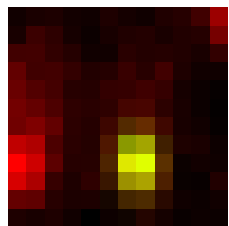
FWHM	Non corrected	Corrected	Theoretical
min	388 nm	404 nm	270 nm
max	551 nm	574 nm	270 nm
z	2.56 um	2.58 um	1.3 um
Asymmetry	0.705		
Theta	-88.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.483$



Parameters:

A = 248.578 (brightness)

B = 164.019 (background)

a = 0.891 px

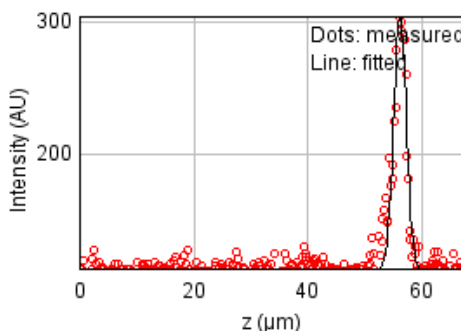
b = -0.009 px

c = 0.443 px

xc = 6.554 px

yc = 7.981 px

Z profile & fitting parameters:



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

Sum of residuals squared: 24454.6701

Standard deviation: 8.92507

R^2 : 0.92579

Parameters:

a = 112.78995

b = 304.80612

c = 56.20844

d = 1.08909

Bead 3003

Date : Mon Oct 17 13:53:56 PDT 2022

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

Frame size : 12 pixels

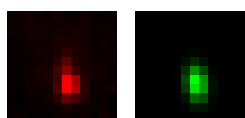
Coordinates : 117 μm (x), 72.2 μm (y), 57.3 μm (z)

Corresponding bead : Not found

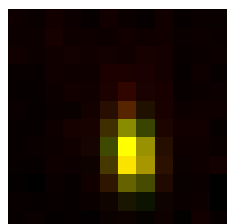
FWHM	Non corrected	Corrected	Theoretical
min	382 nm	398 nm	270 nm
max	619 nm	644 nm	270 nm
z	1.93 μm	1.94 μm	1.3 μm
Asymmetry	0.617		
Theta	-82.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 475.596$ (brightness)

$B = 124.103$ (background)

$a = 0.910$ px

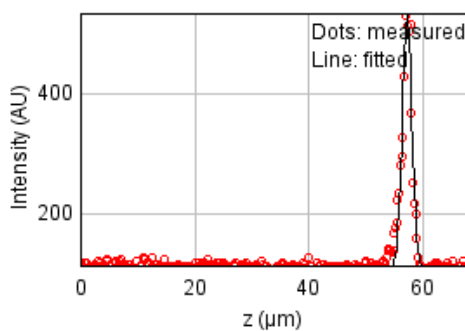
$b = -0.075$ px

$c = 0.361$ px

$x_c = 6.220$ px

$y_c = 7.385$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 41030.1179

Standard deviation: 11.56065

$R^2: 0.96508$

Parameters:

$a = 112.92492$

$b = 536.76337$

$c = 57.27900$

$d = 0.81860$

Bead 3004

Date : Mon Oct 17 13:53:56 PDT 2022

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

Frame size : 12 pixels

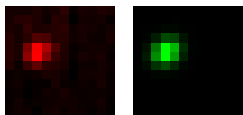
Coordinates : 158 um (x), 67.8 um (y), 7.67 um (z)

Corresponding bead : Not found

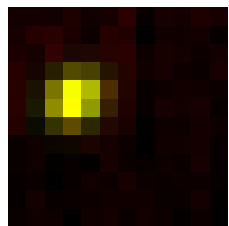
FWHM	Non corrected	Corrected	Theoretical
min	444 nm	462 nm	270 nm
max	523 nm	545 nm	270 nm
z	2.82 um	2.83 um	1.3 um
Asymmetry	0.848		
Theta	35.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 239.669 (brightness)

B = 114.373 (background)

a = 0.554 px

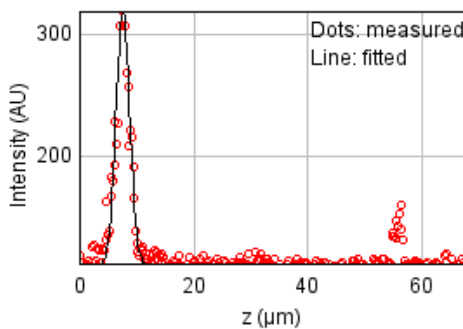
b = 0.091 px

c = 0.618 px

xc = 3.132 px

yc = 4.486 px

Z profile & fitting parameters:



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

Sum of residuals squared: 32978.9870

Standard deviation: 10.36453

R^2 : 0.92142

Parameters:

a = 111.54147

b = 318.22707

c = 7.66990

d = 1.19886

Bead 3005 (Rejected)

Date : Mon Oct 17 13:53:56 PDT 2022

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

Frame size : 12 pixels

Coordinates : 104 µm (x), 64.5 µm (y), 57.3 µm (z)

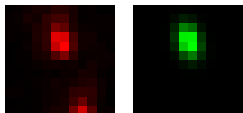
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

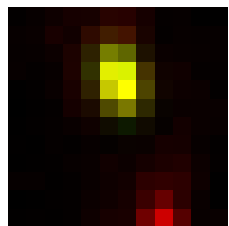
FWHM	Non corrected	Corrected	Theoretical
min	406 nm	423 nm	270 nm
max	599 nm	623 nm	270 nm
z	2.25 µm	2.26 µm	1.3 µm
Asymmetry	0.678		
Theta	-74.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.725$



Parameters:

A = 753.265 (brightness)

B = 154.757 (background)

a = 0.782 px

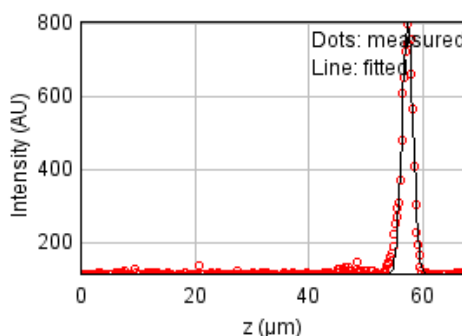
b = -0.115 px

c = 0.407 px

xc = 5.574 px

yc = 3.446 px

Z profile & fitting parameters:



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

Sum of residuals squared: 64966.8820

Standard deviation: 14.54711

R^2 : 0.98172

Parameters:

a = 114.97693

b = 805.41672

c = 57.34893

d = 0.95645

Bead 3006 (Rejected)

Date : Mon Oct 17 13:53:56 PDT 2022

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

Frame size : 12 pixels

Coordinates : -18.4 μm (x), 60.3 μm (y), 57.0 μm (z)

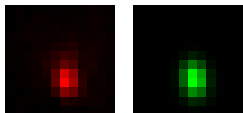
Corresponding bead : Not found

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

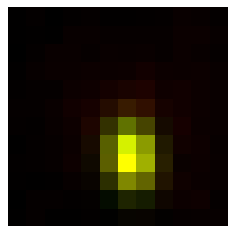
FWHM	Non corrected	Corrected	Theoretical
min	443 nm	461 nm	270 nm
max	626 nm	652 nm	270 nm
z	2.72 μm	2.73 μm	1.3 μm
Asymmetry	0.707		
Theta	-84.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1014.599 (brightness)

B = 146.544 (background)

a = 0.680 px

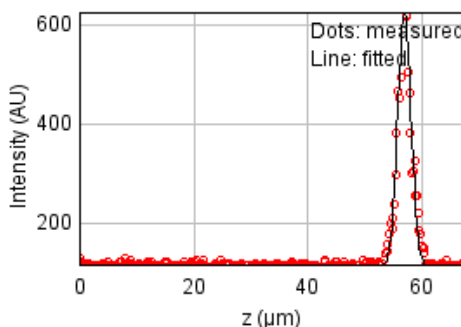
b = -0.035 px

c = 0.346 px

xc = 6.205 px

yc = 7.604 px

Z profile & fitting parameters:



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

Sum of residuals squared: 57922.0634

Standard deviation: 13.73576

R^2 : 0.97519

Parameters:

a = 114.28925

b = 624.35026

c = 56.97222

d = 1.15614

Bead 3007 (Rejected)

Date : Mon Oct 17 13:53:56 PDT 2022

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

Frame size : 12 pixels

Coordinates : 159 um (x), 47.4 um (y), 49.0 um (z)

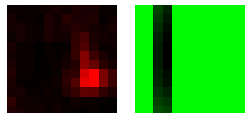
Corresponding bead : Not found

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

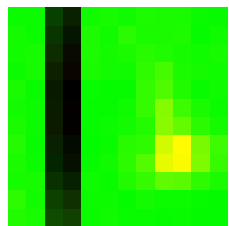
FWHM	Non corrected	Corrected	Theoretical
min	143 nm	149 nm	270 nm
max	4.28 um	4.46 um	270 nm
z	4.14 um	4.15 um	1.3 um
Asymmetry	0.033		
Theta	90.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.166$



Parameters:

A = -225.984 (brightness)

B = 156.966 (background)

a = 6.588 px

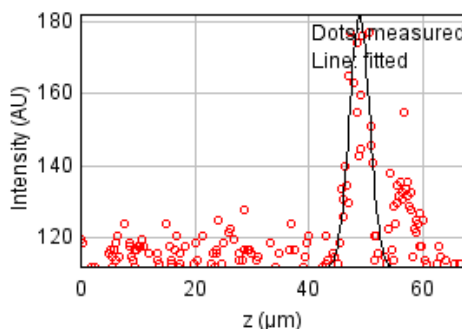
b = 0.003 px

c = 0.007 px

xc = 2.509 px

yc = 4.840 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29856.2558

Standard deviation: 9.86162

R^2 : 0.67751

Parameters:

a = 111.96668

b = 181.82525

c = 48.95166

d = 1.75672

Bead 3008

Date : Mon Oct 17 13:53:56 PDT 2022

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

Frame size : 12 pixels

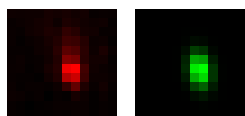
Coordinates : 162 um (x), 37.9 um (y), 57.6 um (z)

Corresponding bead : Not found

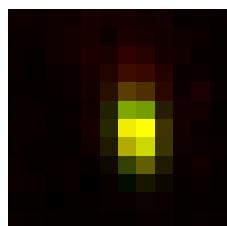
FWHM	Non corrected	Corrected	Theoretical
min	395 nm	411 nm	270 nm
max	646 nm	673 nm	270 nm
z	2.27 um	2.28 um	1.3 um
Asymmetry	0.611		
Theta	-81.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 612.043 (brightness)

B = 124.827 (background)

a = 0.849 px

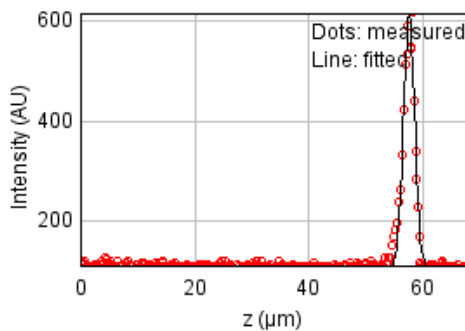
b = -0.077 px

c = 0.332 px

xc = 6.564 px

yc = 6.152 px

Z profile & fitting parameters:



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

Sum of residuals squared: 55458.5010

Standard deviation: 13.44048

R^2 : 0.97103

Parameters:

a = 111.16176

b = 613.54100

c = 57.61715

d = 0.96282

Bead 3009 (Rejected)

Date : Mon Oct 17 13:53:57 PDT 2022

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

Frame size : 12 pixels

Coordinates : 130 μm (x), -6.49 μm (y), 58.5 μm (z)

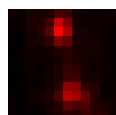
Corresponding bead : Not found

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	2.09 μm	2.1 μm	1.3 μm
Asymmetry	0.0		
Theta	0.0°		

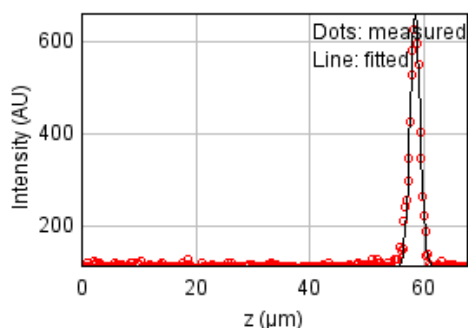
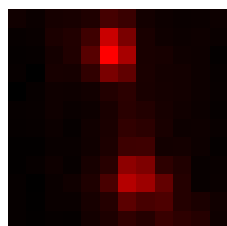
XY profile & fitting parameters :

(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: 25884.1672

Standard deviation: 9.18222

R^2 : 0.98761

Parameters:

$a = 111.15303$

$b = 661.54156$

$c = 58.49832$

$d = 0.88660$

Bead 3010

Date : Mon Oct 17 13:53:57 PDT 2022

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

Frame size : 12 pixels

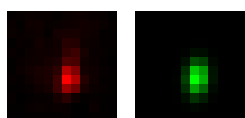
Coordinates : 96.9 μm (x), -14.4 μm (y), 57.5 μm (z)

Corresponding bead : Not found

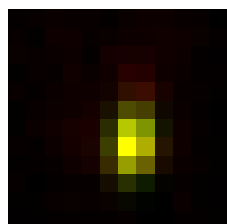
FWHM	Non corrected	Corrected	Theoretical
min	387 nm	404 nm	270 nm
max	611 nm	636 nm	270 nm
z	2.15 μm	2.16 μm	1.3 μm
Asymmetry	0.634		
Theta	85.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 765.964 (brightness)

B = 130.690 (background)

a = 0.890 px

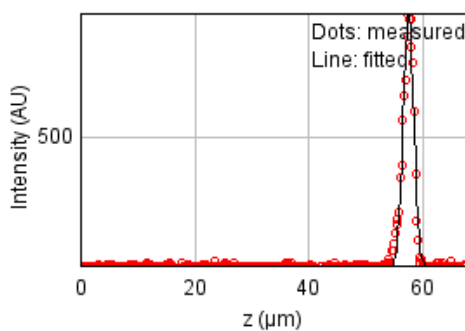
b = 0.044 px

c = 0.363 px

xc = 6.292 px

yc = 6.801 px

Z profile & fitting parameters:



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

Sum of residuals squared: 71195.6840

Standard deviation: 15.22852

R^2 : 0.98296

Parameters:

a = 112.99525

b = 878.78307

c = 57.52022

d = 0.91293

Bead 3011

Date : Mon Oct 17 13:53:57 PDT 2022

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

Frame size : 12 pixels

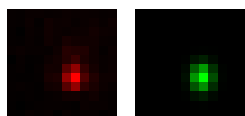
Coordinates : -75.9 μm (x), -19.2 μm (y), 57.1 μm (z)

Corresponding bead : Not found

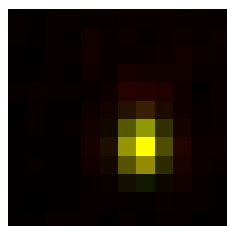
FWHM	Non corrected	Corrected	Theoretical
min	393 nm	410 nm	270 nm
max	494 nm	514 nm	270 nm
z	1.94 μm	1.95 μm	1.3 μm
Asymmetry	0.797		
Theta	89.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 691.519 (brightness)

B = 126.091 (background)

a = 0.868 px

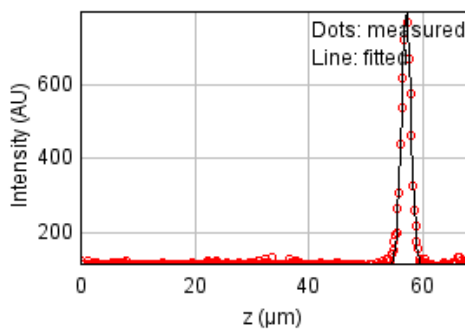
b = 0.006 px

c = 0.551 px

$x_c = 6.813$ px

$y_c = 6.956$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 20320.1520

Standard deviation: 8.13569

R^2 : 0.99331

Parameters:

a = 112.81193

b = 802.41432

c = 57.12259

d = 0.82319

Bead 3012

Date : Mon Oct 17 13:53:57 PDT 2022

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

Frame size : 12 pixels

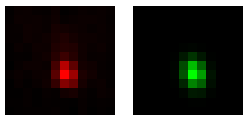
Coordinates : -31.2 μm (x), -32.9 μm (y), 57.3 μm (z)

Corresponding bead : Not found

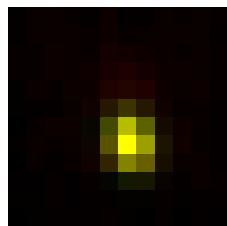
FWHM	Non corrected	Corrected	Theoretical
min	403 nm	420 nm	270 nm
max	536 nm	558 nm	270 nm
z	2.22 μm	2.23 μm	1.3 μm
Asymmetry	0.753		
Theta	-75.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 826.659 (brightness)

B = 129.750 (background)

a = 0.803 px

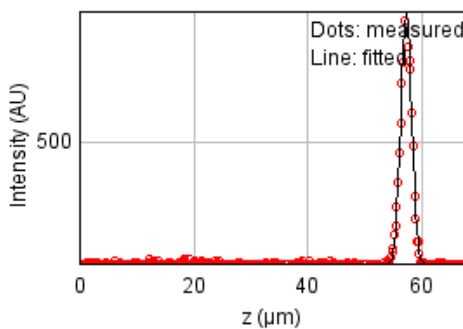
b = -0.086 px

c = 0.489 px

$x_c = 6.183$ px

$y_c = 6.847$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 28891.5815

Standard deviation: 9.70100

R^2 : 0.99378

Parameters:

a = 116.05072

b = 915.51522

c = 57.30257

d = 0.94274

Bead 3013 (Rejected)

Date : Mon Oct 17 13:53:57 PDT 2022

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

Frame size : 12 pixels

Coordinates : 82.3 μm (x), -48.1 μm (y), 54.2 μm (z)

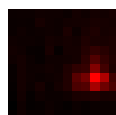
Corresponding bead : Not found

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	1.94 μm	1.95 μm	1.3 μm
Asymmetry	0.0		
Theta	0.0°		

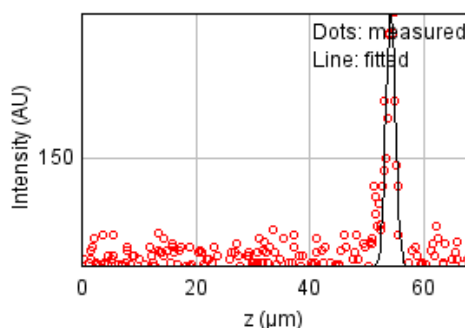
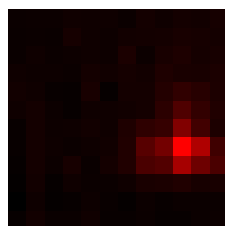
XY profile & fitting parameters :

(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: 13802.9164

Standard deviation: 6.70527

R²: 0.77483

Parameters:

a = 113.23760

b = 199.70660

c = 54.23945

d = 0.82401

Bead 3014

Date : Mon Oct 17 13:53:57 PDT 2022

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

Frame size : 12 pixels

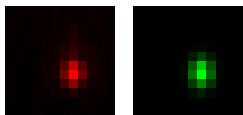
Coordinates : -63.1 μm (x), -77.7 μm (y), 57.3 μm (z)

Corresponding bead : Not found

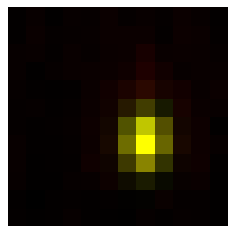
FWHM	Non corrected	Corrected	Theoretical
min	388 nm	404 nm	270 nm
max	541 nm	563 nm	270 nm
z	1.91 μm	1.92 μm	1.3 μm
Asymmetry	0.717		
Theta	88.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 799.224 (brightness)

B = 125.764 (background)

a = 0.892 px

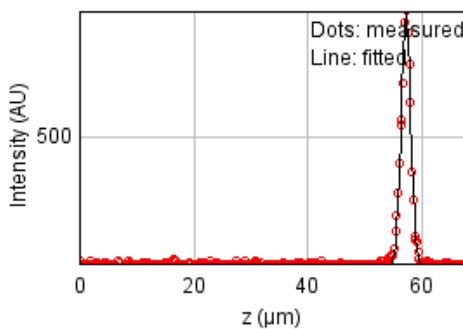
b = 0.008 px

c = 0.459 px

xc = 6.978 px

yc = 6.778 px

Z profile & fitting parameters:



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

Sum of residuals squared: 52528.1857

Standard deviation: 13.08058

R^2 : 0.98618

Parameters:

a = 113.96334

b = 887.73457

c = 57.25620

d = 0.81184

Bead 3015 (Rejected)

Date : Mon Oct 17 13:53:57 PDT 2022

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

Frame size : 12 pixels

Coordinates : 150 μm (x), 95.8 μm (y), 56.2 μm (z)

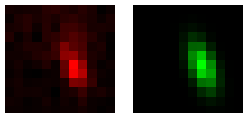
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

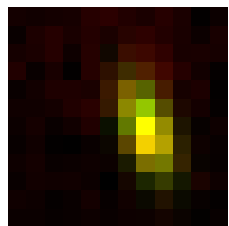
FWHM	Non corrected	Corrected	Theoretical
min	428 nm	446 nm	270 nm
max	912 nm	950 nm	270 nm
z	1.99 μm	2.0 μm	1.3 μm
Asymmetry	0.469		
Theta	-71.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 174.135 (brightness)

B = 116.123 (background)

a = 0.672 px

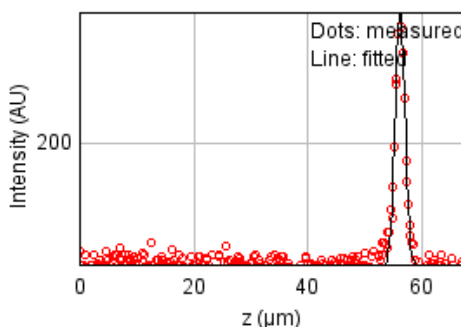
b = -0.175 px

c = 0.221 px

xc = 7.077 px

yc = 6.114 px

Z profile & fitting parameters:



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

Sum of residuals squared: 12275.2844

Standard deviation: 6.32334

R^2 : 0.94919

Parameters:

a = 110.14569

b = 297.81172

c = 56.21376

d = 0.84562

Bead 3016

Date : Mon Oct 17 13:53:58 PDT 2022

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

Frame size : 12 pixels

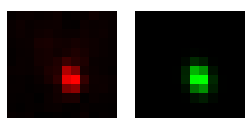
Coordinates : 50.3 μm (x), 91.9 μm (y), 57.5 μm (z)

Corresponding bead : Not found

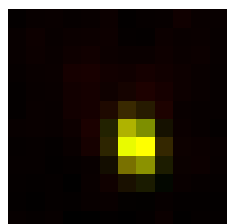
FWHM	Non corrected	Corrected	Theoretical
min	369 nm	385 nm	270 nm
max	501 nm	521 nm	270 nm
z	1.88 μm	1.89 μm	1.3 μm
Asymmetry	0.738		
Theta	-73.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 884.346 (brightness)

B = 130.883 (background)

a = 0.948 px

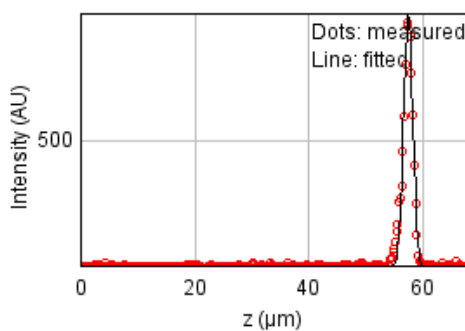
b = -0.121 px

c = 0.571 px

xc = 6.497 px

yc = 6.905 px

Z profile & fitting parameters:



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

Sum of residuals squared: 56966.2093

Standard deviation: 13.62196

R^2 : 0.98497

Parameters:

a = 114.18100

b = 892.13037

c = 57.47383

d = 0.79890

Bead 3017

Date : Mon Oct 17 13:53:58 PDT 2022

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

Frame size : 12 pixels

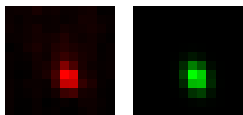
Coordinates : 93.8 μm (x), 92.0 μm (y), 57.2 μm (z)

Corresponding bead : Not found

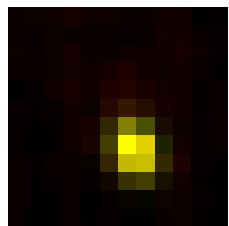
FWHM	Non corrected	Corrected	Theoretical
min	398 nm	415 nm	270 nm
max	533 nm	555 nm	270 nm
z	1.82 μm	1.83 μm	1.3 μm
Asymmetry	0.748		
Theta	-70.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 528.540$ (brightness)

$B = 123.372$ (background)

$a = 0.804$ px

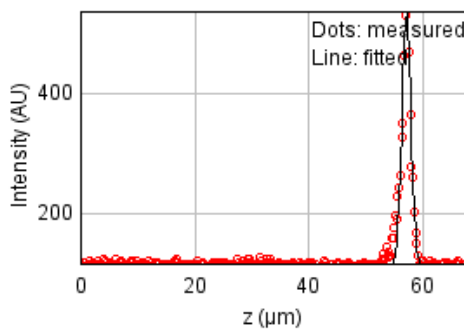
$b = -0.117$ px

$c = 0.514$ px

$x_c = 6.415$ px

$y_c = 7.280$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 42467.5829

Standard deviation: 11.76142

$R^2: 0.96223$

Parameters:

$a = 113.58833$

$b = 539.24816$

$c = 57.16417$

$d = 0.77235$

Bead 3018

Date : Mon Oct 17 13:53:58 PDT 2022

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

Frame size : 12 pixels

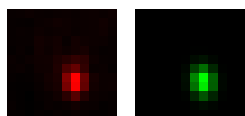
Coordinates : 52.8 μm (x), 91.3 μm (y), 57.5 μm (z)

Corresponding bead : Not found

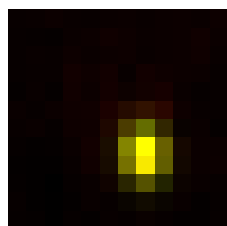
FWHM	Non corrected	Corrected	Theoretical
min	405 nm	421 nm	270 nm
max	534 nm	556 nm	270 nm
z	1.83 μm	1.83 μm	1.3 μm
Asymmetry	0.758		
Theta	-84.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 790.636 (brightness)

B = 129.042 (background)

a = 0.817 px

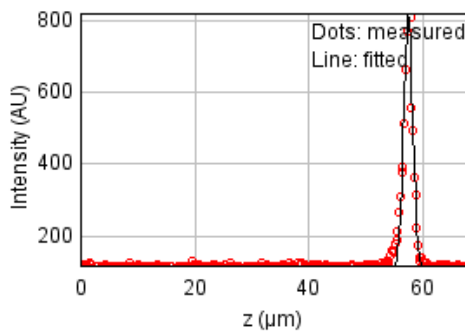
b = -0.034 px

c = 0.475 px

xc = 6.917 px

yc = 7.397 px

Z profile & fitting parameters:



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

Sum of residuals squared: 60281.5198

Standard deviation: 14.01273

R^2 : 0.98013

Parameters:

a = 115.72512

b = 820.17441

c = 57.47177

d = 0.77516

Bead 3019

Date : Mon Oct 17 13:53:58 PDT 2022

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

Frame size : 12 pixels

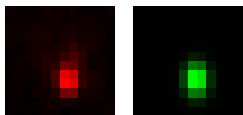
Coordinates : 71.1 μm (x), 90.9 μm (y), 57.3 μm (z)

Corresponding bead : Not found

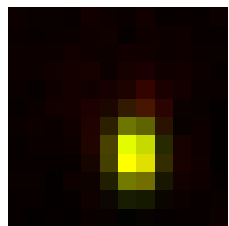
FWHM	Non corrected	Corrected	Theoretical
min	422 nm	440 nm	270 nm
max	599 nm	624 nm	270 nm
z	2.27 μm	2.28 μm	1.3 μm
Asymmetry	0.704		
Theta	-88.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 608.056$ (brightness)

$B = 129.233$ (background)

$a = 0.753$ px

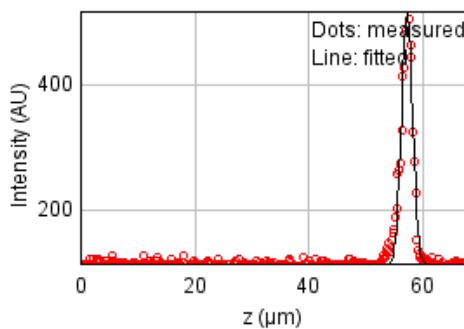
$b = -0.010$ px

$c = 0.374$ px

$x_c = 6.408$ px

$y_c = 7.526$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 31773.8676

Standard deviation: 10.17339

$R^2: 0.97450$

Parameters:

$a = 113.23241$

$b = 518.99757$

$c = 57.27435$

$d = 0.96393$

Bead 3020 (Rejected)

Date : Mon Oct 17 13:53:58 PDT 2022

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

Frame size : 12 pixels

Coordinates : 140 μm (x), 90.5 μm (y), 55.3 μm (z)

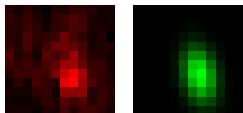
Corresponding bead : Not found

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

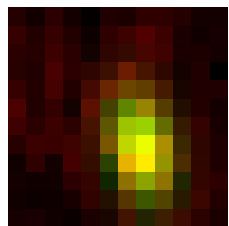
FWHM	Non corrected	Corrected	Theoretical
min	596 nm	620 nm	270 nm
max	1.03 μm	1.07 μm	270 nm
z	2.77 μm	2.78 μm	1.3 μm
Asymmetry	0.579		
Theta	-78.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.804$



Parameters:

A = 111.323 (brightness)

B = 122.849 (background)

a = 0.367 px

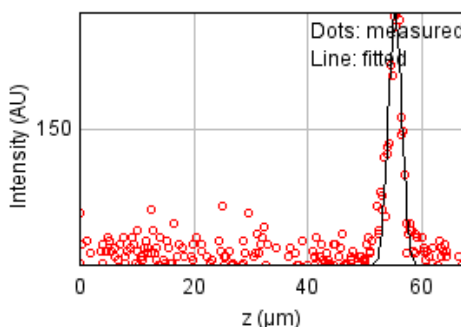
b = -0.051 px

c = 0.138 px

xc = 6.749 px

yc = 7.114 px

Z profile & fitting parameters:



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

Sum of residuals squared: 13012.9903

Standard deviation: 6.51058

R^2 : 0.78806

Parameters:

a = 110.43953

b = 184.25907

c = 55.34359

d = 1.17423

Bead 3021

Date : Mon Oct 17 13:53:58 PDT 2022

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

Frame size : 12 pixels

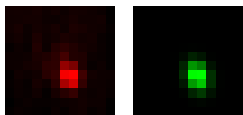
Coordinates : 83.5 μm (x), 89.0 μm (y), 57.4 μm (z)

Corresponding bead : Not found

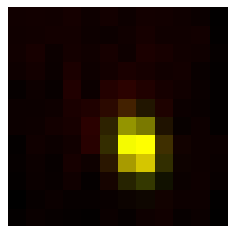
FWHM	Non corrected	Corrected	Theoretical
min	390 nm	406 nm	270 nm
max	536 nm	559 nm	270 nm
z	1.94 μm	1.95 μm	1.3 μm
Asymmetry	0.727		
Theta	-73.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 534.461 (brightness)

B = 126.832 (background)

a = 0.850 px

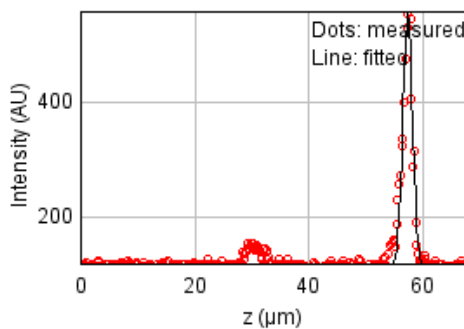
b = -0.112 px

c = 0.499 px

xc = 6.529 px

yc = 7.139 px

Z profile & fitting parameters:



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

Sum of residuals squared: 68989.1907

Standard deviation: 14.99068

R^2 : 0.94798

Parameters:

a = 116.35244

b = 560.79777

c = 57.37539

d = 0.82574

Bead 3022

Date : Mon Oct 17 13:53:59 PDT 2022

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

Frame size : 12 pixels

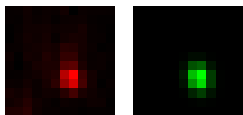
Coordinates : 78.5 μm (x), 86.7 μm (y), 57.4 μm (z)

Corresponding bead : Not found

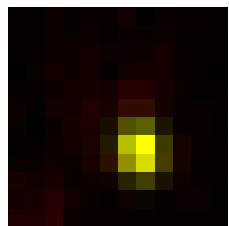
FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	493 nm	513 nm	270 nm
z	2.14 μm	2.15 μm	1.3 μm
Asymmetry	0.789		
Theta	-78.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 547.918$ (brightness)

$B = 133.501$ (background)

$a = 0.875$ px

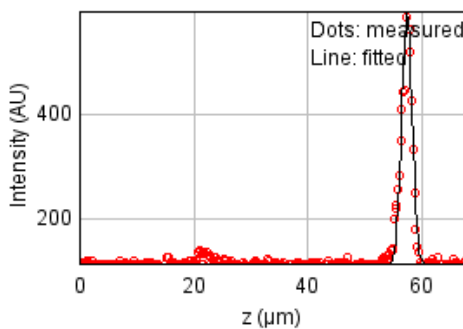
$b = -0.065$ px

$c = 0.566$ px

$x_c = 6.693$ px

$y_c = 7.328$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 49735.5023

Standard deviation: 12.72811

$R^2: 0.96997$

Parameters:

$a = 114.68781$

$b = 594.59435$

$c = 57.42047$

$d = 0.90896$

Bead 3023

Date : Mon Oct 17 13:53:59 PDT 2022

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

Frame size : 12 pixels

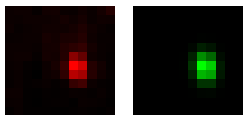
Coordinates : 77.3 μm (x), 85.2 μm (y), 57.5 μm (z)

Corresponding bead : Not found

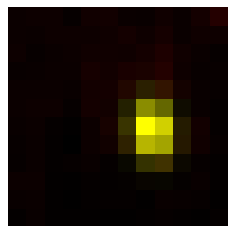
FWHM	Non corrected	Corrected	Theoretical
min	384 nm	400 nm	270 nm
max	539 nm	561 nm	270 nm
z	1.86 μm	1.87 μm	1.3 μm
Asymmetry	0.712		
Theta	-82.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 717.512 (brightness)

B = 129.682 (background)

a = 0.904 px

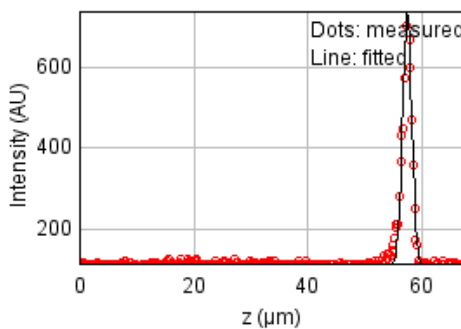
b = -0.056 px

c = 0.470 px

xc = 7.395 px

yc = 6.177 px

Z profile & fitting parameters:



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

Sum of residuals squared: 46316.0215

Standard deviation: 12.28277

R^2 : 0.98078

Parameters:

a = 115.27107

b = 737.24660

c = 57.46915

d = 0.79100

Bead 3024

Date : Mon Oct 17 13:53:59 PDT 2022

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

Frame size : 12 pixels

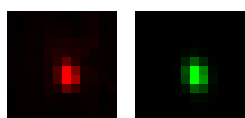
Coordinates : -63.1 μm (x), 84.5 μm (y), 57.2 μm (z)

Corresponding bead : Not found

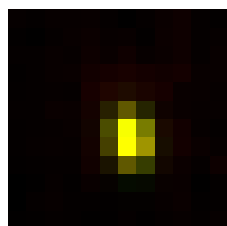
FWHM	Non corrected	Corrected	Theoretical
min	370 nm	386 nm	270 nm
max	510 nm	531 nm	270 nm
z	1.99 μm	2.0 μm	1.3 μm
Asymmetry	0.726		
Theta	-78.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 853.861 (brightness)

B = 127.378 (background)

a = 0.961 px

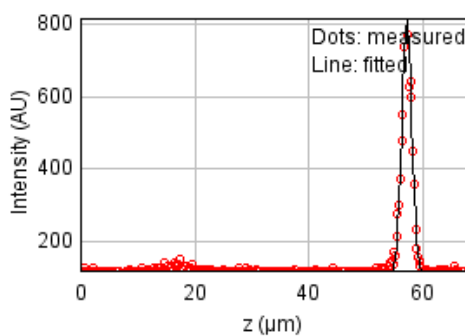
b = -0.088 px

c = 0.533 px

xc = 6.175 px

yc = 6.530 px

Z profile & fitting parameters:



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

Sum of residuals squared: 55018.9403

Standard deviation: 13.38711

R^2 : 0.98311

Parameters:

a = 115.74625

b = 816.59260

c = 57.23393

d = 0.84658

Bead 3025 (Rejected)

Date : Mon Oct 17 13:53:59 PDT 2022

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

Frame size : 12 pixels

Coordinates : 88.7 μm (x), 83.9 μm (y), 56.5 μm (z)

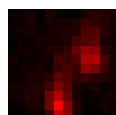
Corresponding bead : Not found

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	2.4 μm	2.41 μm	1.3 μm
Asymmetry	0.0		
Theta	0.0°		

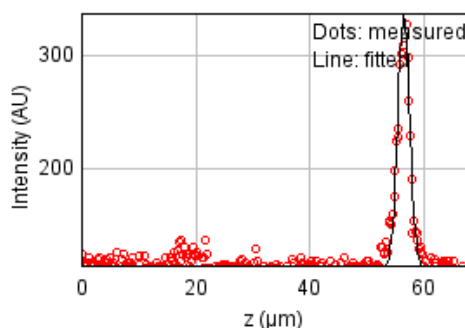
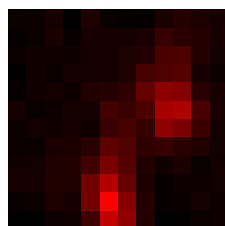
XY profile & fitting parameters :

(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: 26714.7395

Standard deviation: 9.32838

R²: 0.93508

Parameters:

a = 113.88087

b = 336.19162

c = 56.50428

d = 1.02082

Bead 3026 (Rejected)

Date : Mon Oct 17 13:53:59 PDT 2022

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

Frame size : 12 pixels

Coordinates : 41.0 μm (x), 82.9 μm (y), 57.3 μm (z)

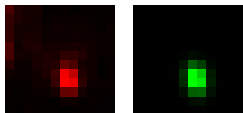
Corresponding bead : Not found

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

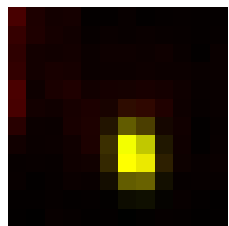
FWHM	Non corrected	Corrected	Theoretical
min	370 nm	385 nm	270 nm
max	520 nm	542 nm	270 nm
z	4.4 μm	4.42 μm	1.3 μm
Asymmetry	0.71		
Theta	-81.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 964.642 (brightness)

B = 147.171 (background)

a = 0.970 px

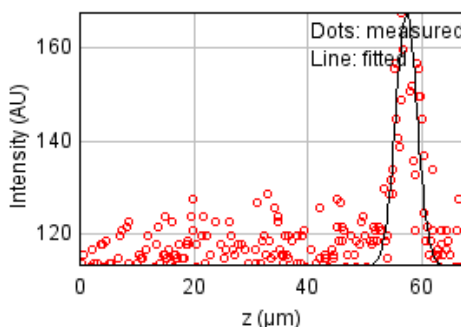
b = -0.074 px

c = 0.507 px

xc = 6.418 px

yc = 7.564 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17343.5368

Standard deviation: 7.51622

R^2 : 0.69766

Parameters:

a = 113.42311

b = 167.70340

c = 57.34168

d = 1.86866

Bead 3027

Date : Mon Oct 17 13:54:00 PDT 2022

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

Frame size : 12 pixels

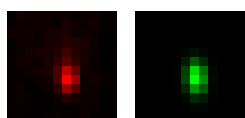
Coordinates : 92.4 μm (x), 80.7 μm (y), 57.3 μm (z)

Corresponding bead : Not found

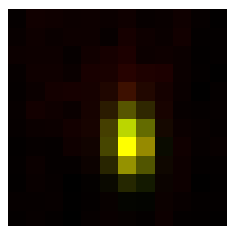
FWHM	Non corrected	Corrected	Theoretical
min	374 nm	390 nm	270 nm
max	604 nm	629 nm	270 nm
z	1.94 μm	1.95 μm	1.3 μm
Asymmetry	0.62		
Theta	-86.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 525.317$ (brightness)

$B = 125.024$ (background)

$a = 0.956$ px

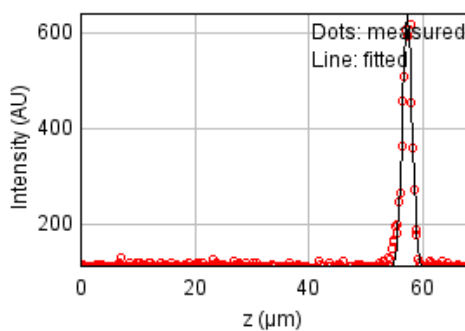
$b = -0.038$ px

$c = 0.371$ px

$x_c = 6.168$ px

$y_c = 6.760$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 35931.6452

Standard deviation: 10.81856

$R^2 = 0.98028$

Parameters:

$a = 113.54447$

$b = 643.79541$

$c = 57.30958$

$d = 0.82384$

Bead 3028

Date : Mon Oct 17 13:54:00 PDT 2022

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

Frame size : 12 pixels

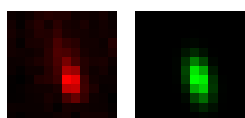
Coordinates : 149 um (x), 78.9 um (y), 56.7 um (z)

Corresponding bead : Not found

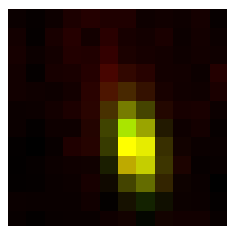
FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	779 nm	811 nm	270 nm
z	2.1 um	2.11 um	1.3 um
Asymmetry	0.526		
Theta	-76.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 288.093 (brightness)

B = 120.661 (background)

a = 0.768 px

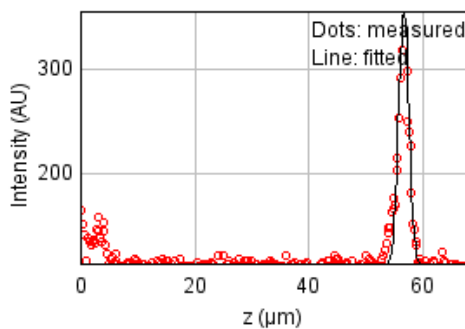
b = -0.131 px

c = 0.253 px

xc = 6.441 px

yc = 6.936 px

Z profile & fitting parameters:



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

Sum of residuals squared: 43254.4536

Standard deviation: 11.86988

R^2 : 0.90189

Parameters:

a = 113.67975

b = 354.75539

c = 56.68704

d = 0.89074

Bead 3029

Date : Mon Oct 17 13:54:00 PDT 2022

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

Frame size : 12 pixels

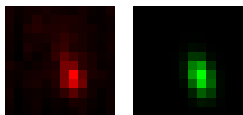
Coordinates : 152 μm (x), 79.1 μm (y), 56.9 μm (z)

Corresponding bead : Not found

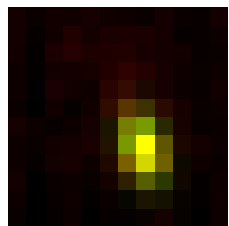
FWHM	Non corrected	Corrected	Theoretical
min	399 nm	416 nm	270 nm
max	681 nm	710 nm	270 nm
z	1.68 μm	1.69 μm	1.3 μm
Asymmetry	0.586		
Theta	-73.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 326.989 (brightness)

B = 122.112 (background)

a = 0.800 px

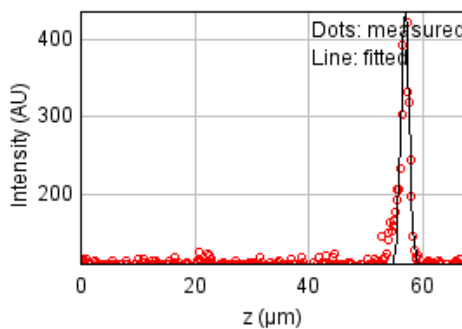
b = -0.147 px

c = 0.332 px

xc = 6.853 px

yc = 7.177 px

Z profile & fitting parameters:



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

Sum of residuals squared: 34564.7929

Standard deviation: 10.61079

R^2 : 0.94405

Parameters:

a = 111.27652

b = 435.70167

c = 56.92599

d = 0.71443

Bead 3030

Date : Mon Oct 17 13:54:00 PDT 2022

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

Frame size : 12 pixels

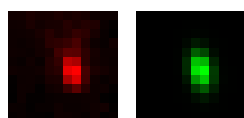
Coordinates : 129 μm (x), 78.2 μm (y), 57.1 μm (z)

Corresponding bead : Not found

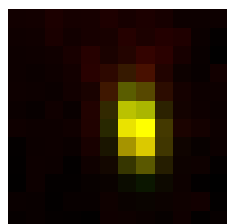
FWHM	Non corrected	Corrected	Theoretical
min	402 nm	419 nm	270 nm
max	697 nm	726 nm	270 nm
z	2.15 μm	2.15 μm	1.3 μm
Asymmetry	0.577		
Theta	-80.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 331.425 (brightness)

B = 117.480 (background)

a = 0.814 px

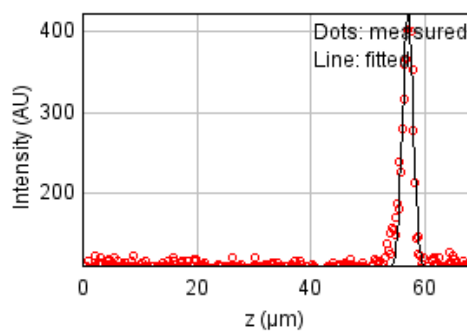
b = -0.092 px

c = 0.291 px

xc = 6.568 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: 30880.5717

Standard deviation: 10.02937

R^2 : 0.95643

Parameters:

a = 111.31176

b = 422.67997

c = 57.06994

d = 0.91130

Bead 3031

Date : Mon Oct 17 13:54:00 PDT 2022

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

Frame size : 12 pixels

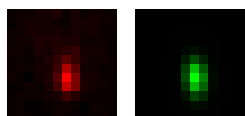
Coordinates : 115 um (x), 78.0 um (y), 57.1 um (z)

Corresponding bead : Not found

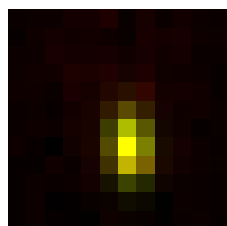
FWHM	Non corrected	Corrected	Theoretical
min	374 nm	389 nm	270 nm
max	646 nm	673 nm	270 nm
z	2.1 um	2.11 um	1.3 um
Asymmetry	0.578		
Theta	-86.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 431.016 (brightness)

B = 124.471 (background)

a = 0.958 px

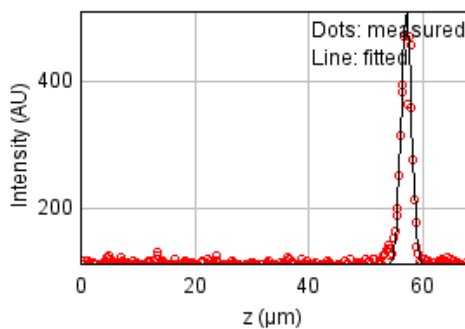
b = -0.044 px

c = 0.324 px

xc = 6.137 px

yc = 6.981 px

Z profile & fitting parameters:



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

Sum of residuals squared: 42214.4133

Standard deviation: 11.72631

R^2 : 0.96271

Parameters:

a = 112.20616

b = 510.79961

c = 57.13721

d = 0.89321

Bead 3032

Date : Mon Oct 17 13:54:00 PDT 2022

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

Frame size : 12 pixels

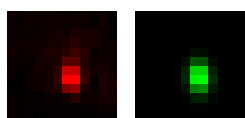
Coordinates : 85.7 μm (x), 75.0 μm (y), 57.4 μm (z)

Corresponding bead : Not found

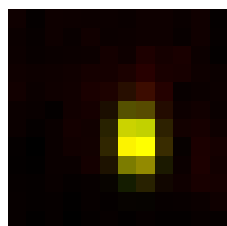
FWHM	Non corrected	Corrected	Theoretical
min	385 nm	401 nm	270 nm
max	575 nm	599 nm	270 nm
z	2.15 μm	2.16 μm	1.3 μm
Asymmetry	0.669		
Theta	-86.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 686.660 (brightness)

B = 130.619 (background)

a = 0.906 px

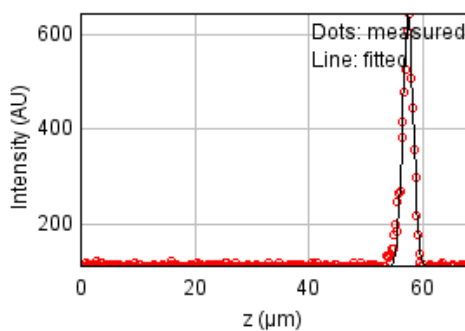
b = -0.029 px

c = 0.407 px

$x_c = 6.518$ px

$y_c = 6.711$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 40374.8967

Standard deviation: 11.46797

$R^2 = 0.97985$

Parameters:

a = 113.44989

b = 642.71565

c = 57.43341

d = 0.91362

Bead 3033

Date : Mon Oct 17 13:54:00 PDT 2022

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

Frame size : 12 pixels

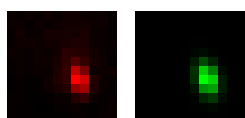
Coordinates : 112 μm (x), 73.8 μm (y), 57.2 μm (z)

Corresponding bead : Not found

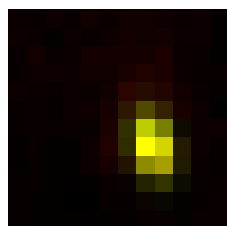
FWHM	Non corrected	Corrected	Theoretical
min	365 nm	380 nm	270 nm
max	602 nm	627 nm	270 nm
z	2.02 μm	2.02 μm	1.3 μm
Asymmetry	0.606		
Theta	-75.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 574.275 (brightness)

B = 125.125 (background)

a = 0.969 px

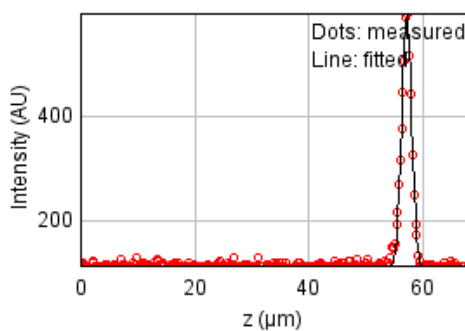
b = -0.154 px

c = 0.410 px

$x_c = 7.393$ px

$y_c = 6.915$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 20396.3958

Standard deviation: 8.15094

R^2 : 0.98688

Parameters:

a = 112.31498

b = 594.83412

c = 57.20949

d = 0.85599

Bead 3034

Date : Mon Oct 17 13:54:00 PDT 2022

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

Frame size : 12 pixels

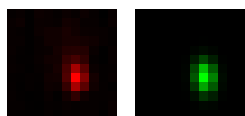
Coordinates : 99.0 μm (x), 72.9 μm (y), 57.5 μm (z)

Corresponding bead : Not found

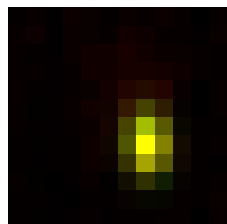
FWHM	Non corrected	Corrected	Theoretical
min	388 nm	404 nm	270 nm
max	601 nm	626 nm	270 nm
z	1.93 μm	1.94 μm	1.3 μm
Asymmetry	0.646		
Theta	-86.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 611.268 (brightness)

B = 122.356 (background)

a = 0.890 px

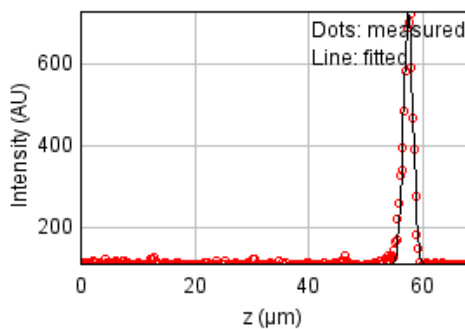
b = -0.034 px

c = 0.374 px

$x_c = 7.111$ px

$y_c = 6.912$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 44275.9888

Standard deviation: 12.00922

R^2 : 0.98175

Parameters:

a = 112.77814

b = 726.06824

c = 57.47151

d = 0.82135

Bead 3035

Date : Mon Oct 17 13:54:01 PDT 2022

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

Frame size : 12 pixels

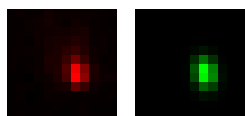
Coordinates : 75.5 μm (x), 72.8 μm (y), 57.7 μm (z)

Corresponding bead : Not found

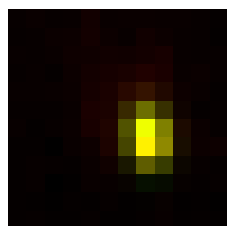
FWHM	Non corrected	Corrected	Theoretical
min	383 nm	398 nm	270 nm
max	553 nm	576 nm	270 nm
z	1.86 μm	1.87 μm	1.3 μm
Asymmetry	0.692		
Theta	-82.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 820.773$ (brightness)

$B = 129.117$ (background)

$a = 0.908$ px

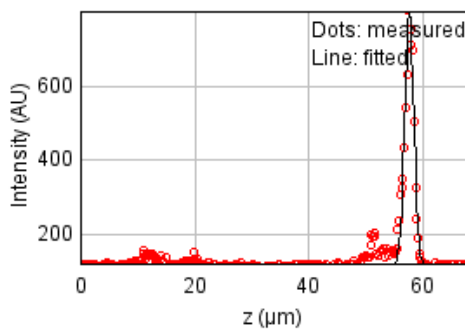
$b = -0.065$ px

$c = 0.448$ px

$x_c = 7.150$ px

$y_c = 6.457$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 135772.350

Standard deviation: 21.02986

$R^2: 0.95382$

Parameters:

$a = 121.30127$

$b = 799.67682$

$c = 57.65769$

$d = 0.78885$

Bead 3036

Date : Mon Oct 17 13:54:01 PDT 2022

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

Frame size : 12 pixels

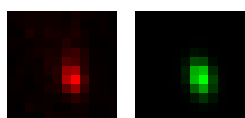
Coordinates : 104 μm (x), 67.7 μm (y), 57.4 μm (z)

Corresponding bead : Not found

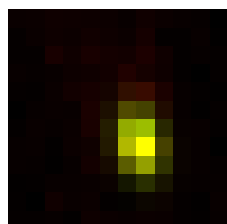
FWHM	Non corrected	Corrected	Theoretical
min	393 nm	409 nm	270 nm
max	614 nm	640 nm	270 nm
z	2.08 μm	2.09 μm	1.3 μm
Asymmetry	0.64		
Theta	-77.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 563.922 (brightness)

B = 126.321 (background)

a = 0.845 px

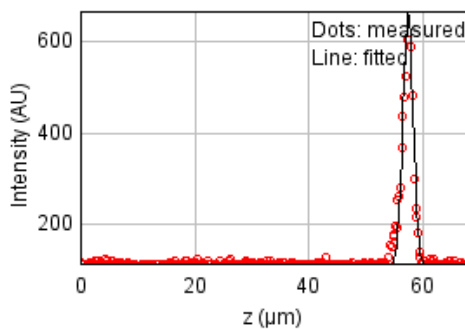
b = -0.111 px

c = 0.381 px

$x_c = 6.666$ px

$y_c = 6.792$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 60452.1302

Standard deviation: 14.03255

R^2 : 0.97161

Parameters:

a = 113.09400

b = 665.57310

c = 57.44063

d = 0.88200

Bead 3037 (Rejected)

Date : Mon Oct 17 13:54:01 PDT 2022

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

Frame size : 12 pixels

Coordinates : 108 μm (x), 68.5 μm (y), 12.1 μm (z)

Corresponding bead : Not found

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

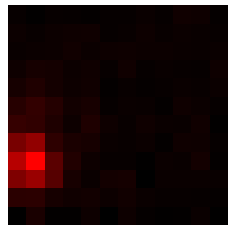
FWHM	Non corrected	Corrected	Theoretical
min	101 nm	105 nm	270 nm
max	173 nm	180 nm	270 nm
z	2.58 μm	2.59 μm	1.3 μm
Asymmetry	0.583		
Theta	64.1°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.022$



Parameters:

A = -4.405 (brightness)

B = 130.639 (background)

a = 11.543 px

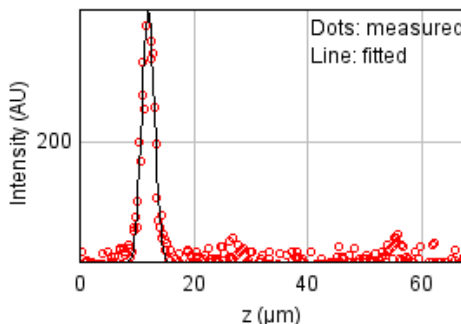
b = 3.418 px

c = 6.151 px

xc = -2.229 px

yc = 4.257 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19356.0545

Standard deviation: 7.94034

R^2 : 0.93410

Parameters:

a = 113.35938

b = 295.05308

c = 12.08865

d = 1.09426

Bead 3038

Date : Mon Oct 17 13:54:01 PDT 2022

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

Frame size : 12 pixels

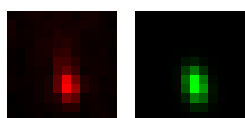
Coordinates : 128 μm (x), 65.3 μm (y), 57.4 μm (z)

Corresponding bead : Not found

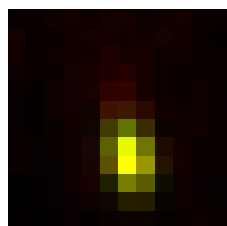
FWHM	Non corrected	Corrected	Theoretical
min	394 nm	410 nm	270 nm
max	626 nm	652 nm	270 nm
z	1.84 μm	1.85 μm	1.3 μm
Asymmetry	0.629		
Theta	-77.3°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.940$



Parameters:

$A = 491.219$ (brightness)

$B = 124.132$ (background)

$a = 0.840$ px

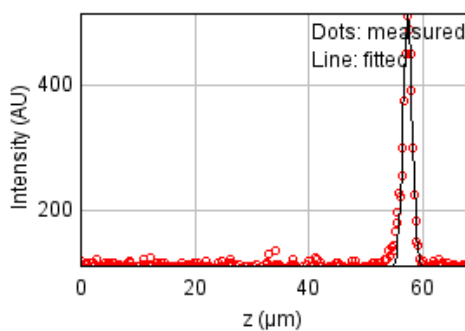
$b = -0.112$ px

$c = 0.367$ px

$x_c = 6.126$ px

$y_c = 7.567$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 34120.6616

Standard deviation: 10.54240

$R^2: 0.96624$

Parameters:

$a = 111.87277$

$b = 513.91530$

$c = 57.37564$

$d = 0.78200$

Bead 3039

Date : Mon Oct 17 13:54:01 PDT 2022

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

Frame size : 12 pixels

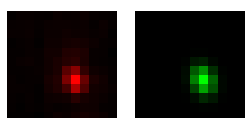
Coordinates : 73.0 μm (x), 65.0 μm (y), 57.8 μm (z)

Corresponding bead : Not found

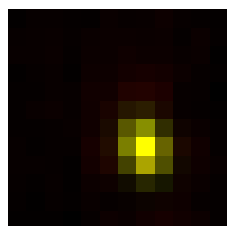
FWHM	Non corrected	Corrected	Theoretical
min	396 nm	412 nm	270 nm
max	529 nm	551 nm	270 nm
z	1.99 μm	2.0 μm	1.3 μm
Asymmetry	0.749		
Theta	-72.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 836.897$ (brightness)

$B = 137.763$ (background)

$a = 0.823$ px

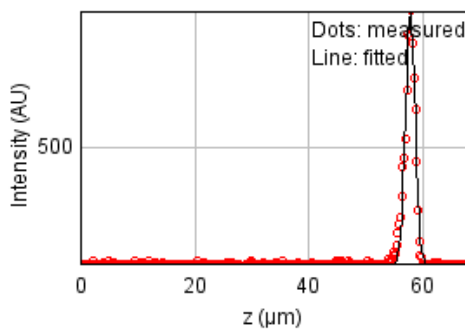
$b = -0.107$ px

$c = 0.513$ px

$x_c = 6.933$ px

$y_c = 7.054$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 70920.9823

Standard deviation: 15.19911

$R^2: 0.98481$

Parameters:

$a = 113.51087$

$b = 953.46996$

$c = 57.83022$

$d = 0.84654$

Bead 3040 (Rejected)

Date : Mon Oct 17 13:54:01 PDT 2022

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

Frame size : 12 pixels

Coordinates : 163 um (x), 64.6 um (y), 57.1 um (z)

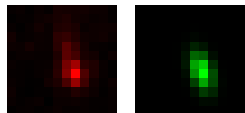
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	375 nm	391 nm	270 nm
max	708 nm	737 nm	270 nm
z	1.81 um	1.81 um	1.3 um
Asymmetry	0.53		
Theta	-74.1°		

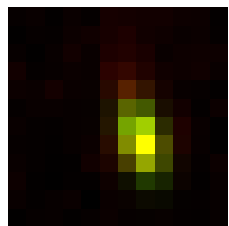
XY profile & fitting parameters :

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



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

$R^2 = 0.899$



Parameters:

A = 387.519 (brightness)

B = 119.971 (background)

a = 0.903 px

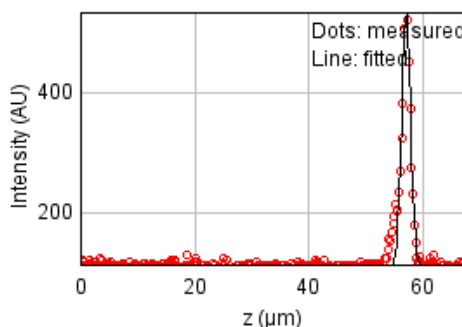
b = -0.181 px

c = 0.320 px

xc = 6.769 px

yc = 6.693 px

Z profile & fitting parameters:



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

Sum of residuals squared: 45751.9786

Standard deviation: 12.20775

R^2 : 0.95885

Parameters:

a = 111.51744

b = 535.40267

c = 57.11223

d = 0.76727

Bead 3041

Date : Mon Oct 17 13:54:01 PDT 2022

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

Frame size : 12 pixels

Coordinates : 119 um (x), 65.1 um (y), 25.1 um (z)

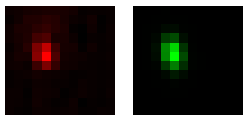
Corresponding bead : Not found



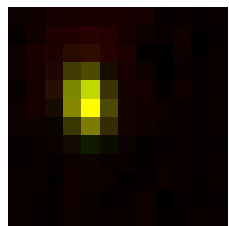
FWHM	Non corrected	Corrected	Theoretical
min	373 nm	389 nm	270 nm
max	561 nm	584 nm	270 nm
z	1.92 um	1.93 um	1.3 um
Asymmetry	0.665		
Theta	-79.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 424.516 (brightness)

B = 117.476 (background)

a = 0.945 px

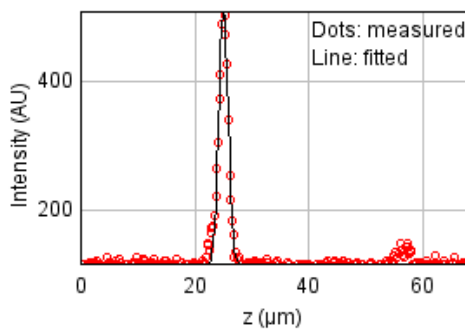
b = -0.100 px

c = 0.446 px

xc = 3.805 px

yc = 4.653 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29128.8859

Standard deviation: 9.74076

R^2 : 0.97101

Parameters:

a = 114.66655

b = 508.45512

c = 25.11987

d = 0.81567

Bead 3042

Date : Mon Oct 17 13:54:01 PDT 2022

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

Frame size : 12 pixels

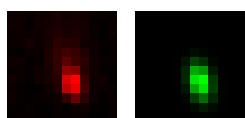
Coordinates : 156 μm (x), 59.0 μm (y), 57.3 μm (z)

Corresponding bead : Not found

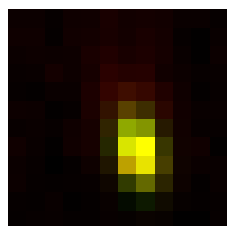
FWHM	Non corrected	Corrected	Theoretical
min	396 nm	413 nm	270 nm
max	668 nm	696 nm	270 nm
z	2.05 μm	2.06 μm	1.3 μm
Asymmetry	0.593		
Theta	-77.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 538.396$ (brightness)

$B = 124.617$ (background)

$a = 0.827$ px

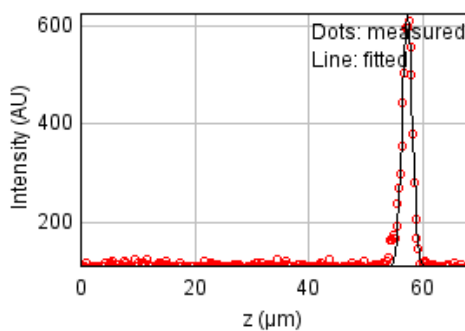
$b = -0.119$ px

$c = 0.327$ px

$x_c = 6.592$ px

$y_c = 7.175$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 34895.5278

Standard deviation: 10.66144

$R^2 = 0.98090$

Parameters:

$a = 111.10752$

$b = 628.13018$

$c = 57.30931$

$d = 0.87201$

Bead 3043 (Rejected)

Date : Mon Oct 17 13:54:01 PDT 2022

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

Frame size : 12 pixels

Coordinates : 99.2 um (x), 55.6 um (y), 57.5 um (z)

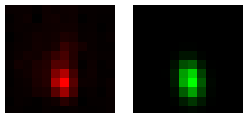
Corresponding bead : Not found

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

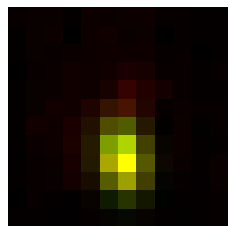
FWHM	Non corrected	Corrected	Theoretical
min	422 nm	439 nm	270 nm
max	651 nm	678 nm	270 nm
z	3.71 um	3.73 um	1.3 um
Asymmetry	0.648		
Theta	-81.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.931$



Parameters:

A = 608.693 (brightness)

B = 129.538 (background)

a = 0.745 px

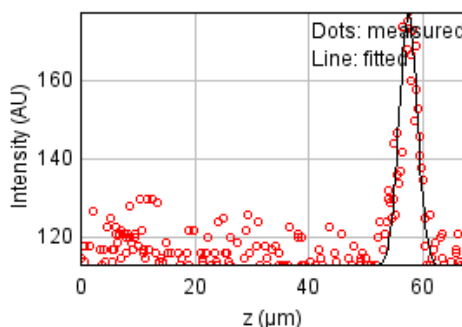
b = -0.064 px

c = 0.326 px

xc = 5.761 px

yc = 7.742 px

Z profile & fitting parameters:



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

Sum of residuals squared: 14601.0104

Standard deviation: 6.89640

R^2 : 0.76773

Parameters:

a = 112.88725

b = 177.24995

c = 57.47962

d = 1.57599

Bead 3044 (Rejected)

Date : Mon Oct 17 13:54:01 PDT 2022

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

Frame size : 12 pixels

Coordinates : 151 um (x), 53.3 um (y), 40.1 um (z)

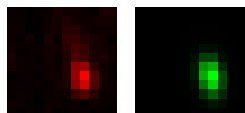
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

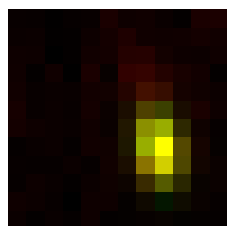
FWHM	Non corrected	Corrected	Theoretical
min	398 nm	415 nm	270 nm
max	687 nm	715 nm	270 nm
z	1.85 um	1.86 um	1.3 um
Asymmetry	0.58		
Theta	-79.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 269.605 (brightness)

B = 114.472 (background)

a = 0.827 px

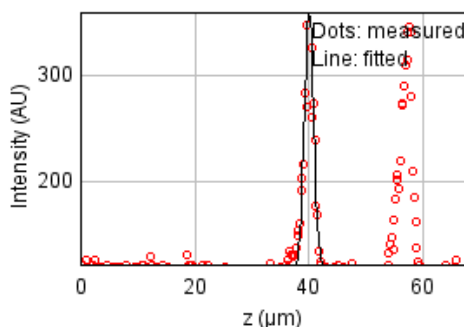
b = -0.098 px

c = 0.302 px

xc = 7.740 px

yc = 7.065 px

Z profile & fitting parameters:



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

Sum of residuals squared: 419174.232

Standard deviation: 36.95116

R^2 : 0.45417

Parameters:

a = 121.02835

b = 360.60038

c = 40.10792

d = 0.78665

Bead 3045

Date : Mon Oct 17 13:54:01 PDT 2022

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

Frame size : 12 pixels

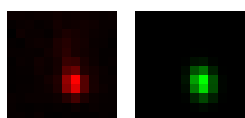
Coordinates : 122 μm (x), 51.7 μm (y), 57.8 μm (z)

Corresponding bead : Not found

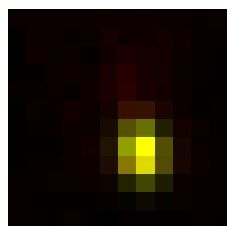
FWHM	Non corrected	Corrected	Theoretical
min	401 nm	418 nm	270 nm
max	531 nm	553 nm	270 nm
z	1.88 μm	1.89 μm	1.3 μm
Asymmetry	0.756		
Theta	-80.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 646.772$ (brightness)

$B = 124.658$ (background)

$a = 0.823$ px

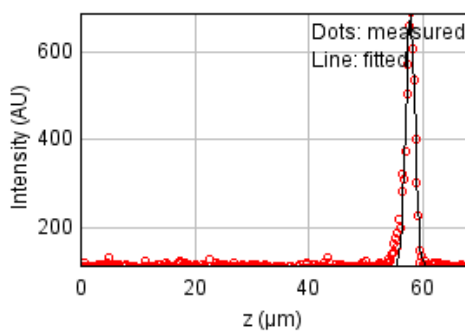
$b = -0.060$ px

$c = 0.487$ px

$x_c = 6.810$ px

$y_c = 7.312$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 59938.5421

Standard deviation: 13.97281

$R^2: 0.97146$

Parameters:

$a = 112.01457$

$b = 687.13889$

$c = 57.83519$

$d = 0.79897$

Bead 3046

Date : Mon Oct 17 13:54:01 PDT 2022

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

Frame size : 12 pixels

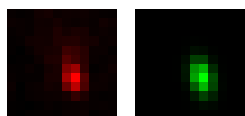
Coordinates : 144 um (x), 43.0 um (y), 57.6 um (z)

Corresponding bead : Not found

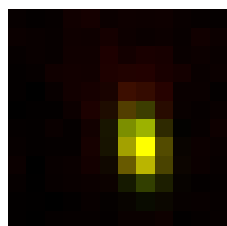
FWHM	Non corrected	Corrected	Theoretical
min	392 nm	408 nm	270 nm
max	641 nm	668 nm	270 nm
z	1.96 um	1.97 um	1.3 um
Asymmetry	0.611		
Theta	-77.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 507.692 (brightness)

B = 120.186 (background)

a = 0.847 px

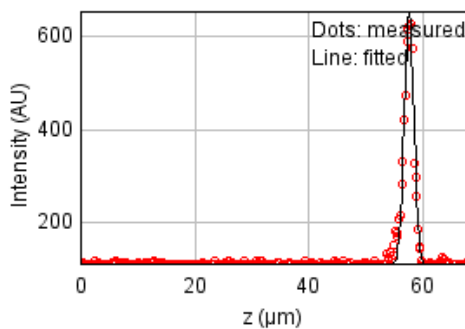
b = -0.120 px

c = 0.354 px

xc = 6.762 px

yc = 6.932 px

Z profile & fitting parameters:



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

Sum of residuals squared: 44492.2296

Standard deviation: 12.03851

R^2 : 0.97703

Parameters:

a = 110.66827

b = 654.19962

c = 57.62149

d = 0.83131

Bead 3047

Date : Mon Oct 17 13:54:01 PDT 2022

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

Frame size : 12 pixels

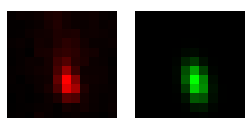
Coordinates : 160 μm (x), 42.3 μm (y), 57.5 μm (z)

Corresponding bead : Not found

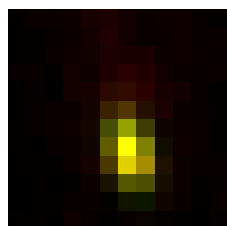
FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	679 nm	707 nm	270 nm
z	2.07 μm	2.08 μm	1.3 μm
Asymmetry	0.573		
Theta	-75.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 495.160$ (brightness)

$B = 122.083$ (background)

$a = 0.852$ px

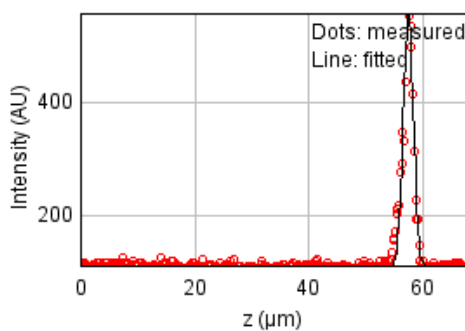
$b = -0.142$ px

$c = 0.327$ px

$x_c = 6.144$ px

$y_c = 7.251$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 46396.9221

Standard deviation: 12.29350

$R^2: 0.96716$

Parameters:

$a = 110.76297$

$b = 560.07242$

$c = 57.49214$

$d = 0.88078$

Bead 3048 (Rejected)

Date : Mon Oct 17 13:54:01 PDT 2022

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

Frame size : 12 pixels

Coordinates : 9.6 μm (x), 35.4 μm (y), 53.8 μm (z)

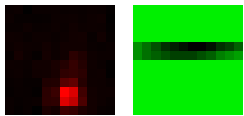
Corresponding bead : Not found

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

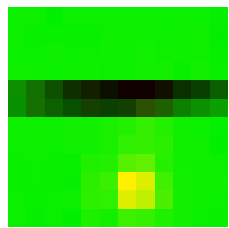
FWHM	Non corrected	Corrected	Theoretical
min	140 nm	145 nm	270 nm
max	2.37 μm	2.47 μm	270 nm
z	3.19 μm	3.21 μm	1.3 μm
Asymmetry	0.059		
Theta	0.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.010$



Parameters:

A = -71.732 (brightness)

B = 146.059 (background)

a = -0.024 px

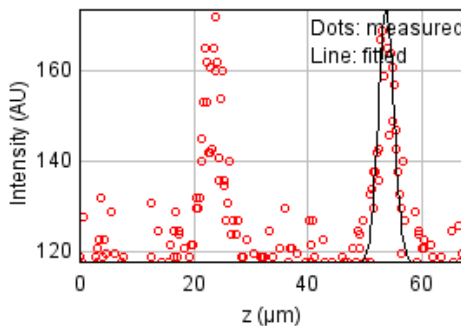
b = 0.030 px

c = 6.883 px

xc = 5.616 px

yc = 4.478 px

Z profile & fitting parameters:



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

Sum of residuals squared: 42049.4059

Standard deviation: 11.70336

R^2 : 0.42729

Parameters:

a = 117.80904

b = 173.41384

c = 53.79501

d = 1.35557

Bead 3049

Date : Mon Oct 17 13:54:01 PDT 2022

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

Frame size : 12 pixels

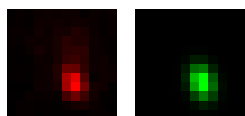
Coordinates : 159 μm (x), 31.2 μm (y), 57.5 μm (z)

Corresponding bead : Not found

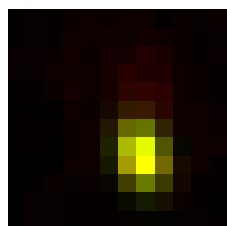
FWHM	Non corrected	Corrected	Theoretical
min	431 nm	449 nm	270 nm
max	617 nm	642 nm	270 nm
z	2.02 μm	2.03 μm	1.3 μm
Asymmetry	0.699		
Theta	-74.7°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.940$



Parameters:

A = 654.614 (brightness)

B = 126.715 (background)

a = 0.696 px

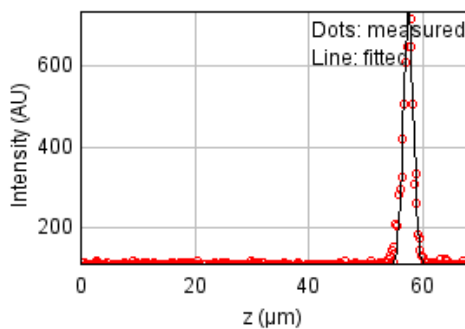
b = -0.094 px

c = 0.378 px

$x_c = 6.782$ px

$y_c = 7.462$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 53663.6642

Standard deviation: 13.22120

R^2 : 0.97968

Parameters:

a = 110.46543

b = 736.66972

c = 57.50201

d = 0.85758

Bead 3050

Date : Mon Oct 17 13:54:02 PDT 2022

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

Frame size : 12 pixels

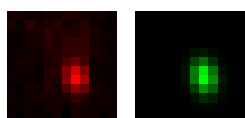
Coordinates : 150 μm (x), 27.5 μm (y), 56.6 μm (z)

Corresponding bead : Not found

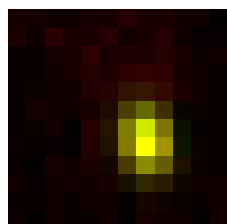
FWHM	Non corrected	Corrected	Theoretical
min	451 nm	470 nm	270 nm
max	636 nm	662 nm	270 nm
z	2.02 μm	2.03 μm	1.3 μm
Asymmetry	0.709		
Theta	-78.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 272.796 (brightness)

B = 116.680 (background)

a = 0.647 px

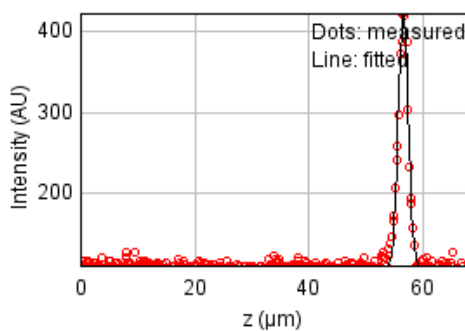
b = -0.064 px

c = 0.345 px

$x_c = 7.033$ px

$y_c = 6.651$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 18108.6322

Standard deviation: 7.68022

R^2 : 0.97263

Parameters:

a = 110.22364

b = 422.55066

c = 56.61047

d = 0.85740

Bead 3051

Date : Mon Oct 17 13:54:02 PDT 2022

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

Frame size : 12 pixels

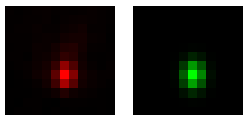
Coordinates : 34.3 μm (x), 22.3 μm (y), 58.1 μm (z)

Corresponding bead : Not found

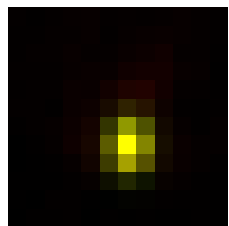
FWHM	Non corrected	Corrected	Theoretical
min	400 nm	417 nm	270 nm
max	525 nm	546 nm	270 nm
z	1.98 μm	1.99 μm	1.3 μm
Asymmetry	0.763		
Theta	87.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1812.116 (brightness)

B = 143.600 (background)

a = 0.837 px

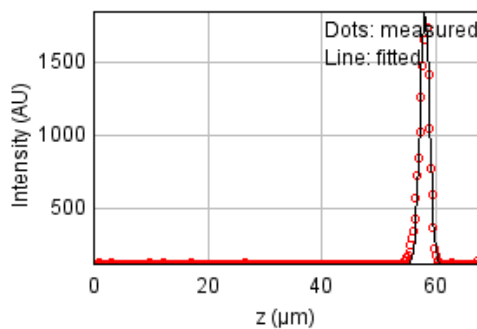
b = 0.017 px

c = 0.488 px

xc = 6.110 px

yc = 7.023 px

Z profile & fitting parameters:



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

Sum of residuals squared: 247326.367

Standard deviation: 28.38350

R^2 : 0.98750

Parameters:

a = 114.62002

b = 1851.67305

c = 58.08472

d = 0.84092

Bead 3052 (Rejected)

Date : Mon Oct 17 13:54:02 PDT 2022

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

Frame size : 12 pixels

Coordinates : -97.3 μm (x), 8.35 μm (y), 50.5 μm (z)

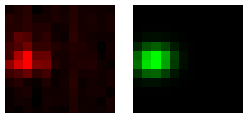
Corresponding bead : Not found

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

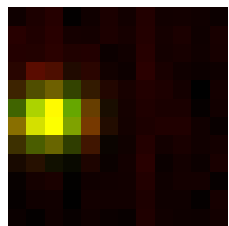
FWHM	Non corrected	Corrected	Theoretical
min	531 nm	553 nm	270 nm
max	683 nm	711 nm	270 nm
z	3.24 μm	3.25 μm	1.3 μm
Asymmetry	0.778		
Theta	7.2°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.870$



Parameters:

A = 222.917 (brightness)

B = 117.272 (background)

a = 0.291 px

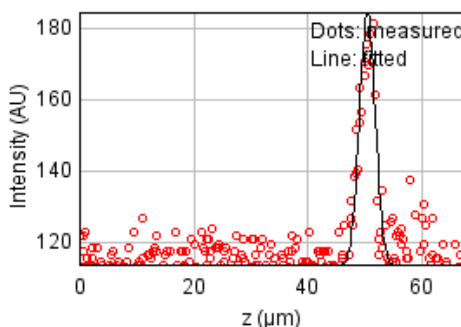
b = 0.023 px

c = 0.472 px

xc = 1.754 px

yc = 5.530 px

Z profile & fitting parameters:



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

Sum of residuals squared: 14969.8360

Standard deviation: 6.98296

R^2 : 0.77650

Parameters:

a = 113.66263

b = 184.75497

c = 50.49943

d = 1.37642

Bead 3053 (Rejected)

Date : Mon Oct 17 13:54:02 PDT 2022

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

Frame size : 12 pixels

Coordinates : 73.6 μm (x), -36.9 μm (y), 53.7 μm (z)

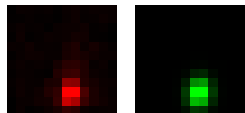
Corresponding bead : Not found

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

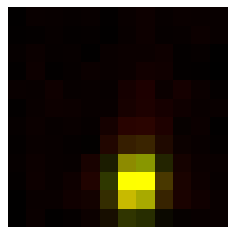
FWHM	Non corrected	Corrected	Theoretical
min	419 nm	436 nm	270 nm
max	542 nm	564 nm	270 nm
z	3.5 μm	3.51 μm	1.3 μm
Asymmetry	0.773		
Theta	81.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 527.992 (brightness)

B = 124.429 (background)

a = 0.758 px

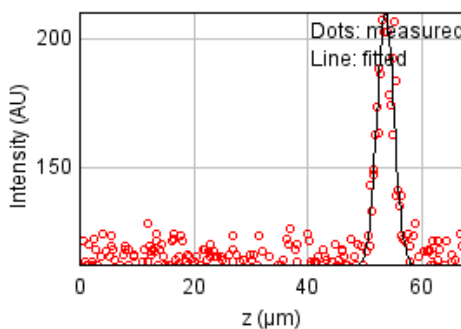
b = 0.043 px

c = 0.464 px

xc = 6.494 px

yc = 9.110 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16350.9569

Standard deviation: 7.29798

R^2 : 0.86559

Parameters:

a = 112.45574

b = 210.15471

c = 53.68702

d = 1.48463

Bead 3054

Date : Mon Oct 17 13:54:02 PDT 2022

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

Frame size : 12 pixels

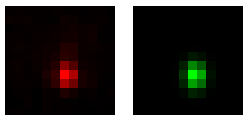
Coordinates : -13.4 μm (x), -44.6 μm (y), 57.4 μm (z)

Corresponding bead : Not found

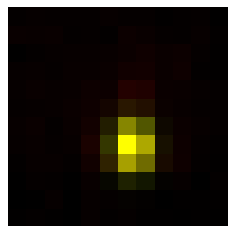
FWHM	Non corrected	Corrected	Theoretical
min	370 nm	386 nm	270 nm
max	490 nm	511 nm	270 nm
z	2.07 μm	2.08 μm	1.3 μm
Asymmetry	0.756		
Theta	-88.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 798.137 (brightness)

B = 126.926 (background)

a = 0.978 px

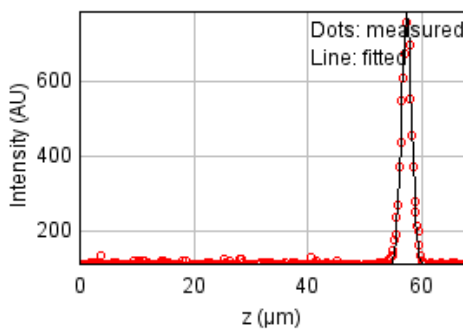
b = -0.008 px

c = 0.559 px

$x_c = 6.286$ px

$y_c = 7.085$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 33829.1654

Standard deviation: 10.49727

R^2 : 0.98910

Parameters:

a = 113.70756

b = 787.55502

c = 57.35873

d = 0.87970

Bead 3055

Date : Mon Oct 17 13:54:02 PDT 2022

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

Frame size : 12 pixels

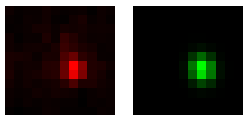
Coordinates : -11.2 μm (x), -67.5 μm (y), 57.2 μm (z)

Corresponding bead : Not found

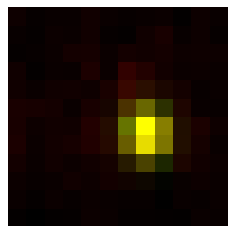
FWHM	Non corrected	Corrected	Theoretical
min	422 nm	440 nm	270 nm
max	506 nm	527 nm	270 nm
z	1.83 μm	1.84 μm	1.3 μm
Asymmetry	0.834		
Theta	-81.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 517.857$ (brightness)

$B = 129.871$ (background)

$a = 0.747$ px

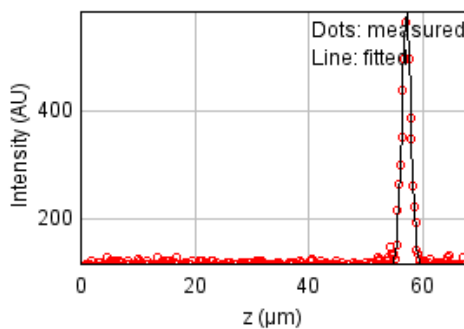
$b = -0.034$ px

$c = 0.528$ px

$x_c = 7.046$ px

$y_c = 6.363$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 21375.6883

Standard deviation: 8.34432

$R^2: 0.98433$

Parameters:

$a = 114.32116$

$b = 587.09875$

$c = 57.16501$

$d = 0.77748$

Bead 3056

Date : Mon Oct 17 13:54:02 PDT 2022

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

Frame size : 12 pixels

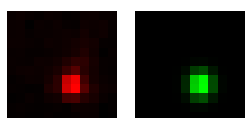
Coordinates : 51.2 μm (x), -75.2 μm (y), 57.8 μm (z)

Corresponding bead : Not found

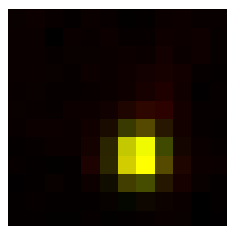
FWHM	Non corrected	Corrected	Theoretical
min	429 nm	447 nm	270 nm
max	469 nm	489 nm	270 nm
z	2.05 μm	2.06 μm	1.3 μm
Asymmetry	0.915		
Theta	88.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 862.185$ (brightness)

$B = 127.416$ (background)

$a = 0.728$ px

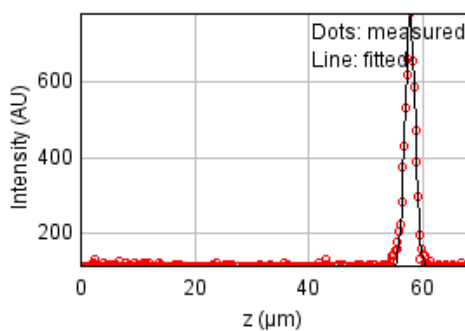
$b = 0.002$ px

$c = 0.609$ px

$x_c = 6.653$ px

$y_c = 7.518$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 33007.3952

Standard deviation: 10.36899

$R^2: 0.98913$

Parameters:

$a = 113.29676$

$b = 783.10294$

$c = 57.79060$

$d = 0.87067$

Bead 3057

Date : Mon Oct 17 13:54:02 PDT 2022

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

Frame size : 12 pixels

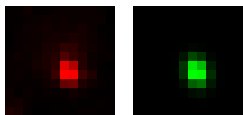
Coordinates : 47.2 um (x), 93.5 um (y), 57.5 um (z)

Corresponding bead : Not found

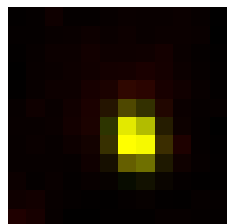
FWHM	Non corrected	Corrected	Theoretical
min	393 nm	409 nm	270 nm
max	512 nm	533 nm	270 nm
z	2.04 um	2.05 um	1.3 um
Asymmetry	0.767		
Theta	-74.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 808.189 (brightness)

B = 135.608 (background)

a = 0.845 px

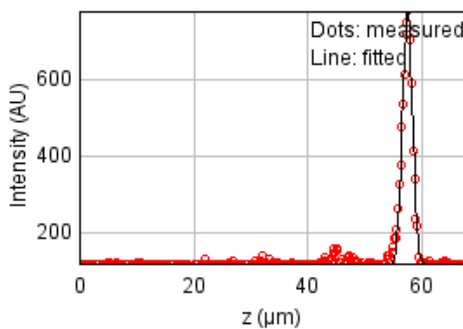
b = -0.092 px

c = 0.538 px

xc = 6.447 px

yc = 6.664 px

Z profile & fitting parameters:



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

Sum of residuals squared: 52000.9679

Standard deviation: 13.01477

R^2 : 0.98264

Parameters:

a = 115.98341

b = 780.03942

c = 57.51837

d = 0.86797

Bead 3058

Date : Mon Oct 17 13:54:02 PDT 2022

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

Frame size : 12 pixels

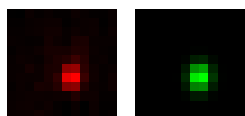
Coordinates : 54.2 μm (x), 93.6 μm (y), 57.5 μm (z)

Corresponding bead : Not found

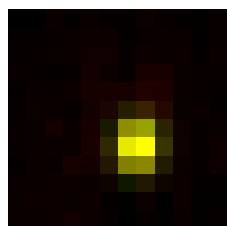
FWHM	Non corrected	Corrected	Theoretical
min	402 nm	418 nm	270 nm
max	495 nm	515 nm	270 nm
z	2.04 μm	2.05 μm	1.3 μm
Asymmetry	0.812		
Theta	86.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 642.655$ (brightness)

$B = 129.574$ (background)

$a = 0.830$ px

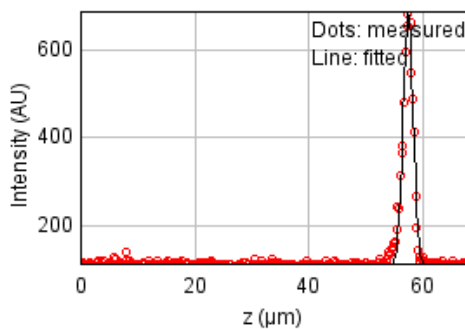
$b = 0.019$ px

$c = 0.550$ px

$x_c = 6.556$ px

$y_c = 6.934$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 43153.7997

Standard deviation: 11.85606

$R^2: 0.98061$

Parameters:

$a = 114.01542$

$b = 686.36918$

$c = 57.45720$

$d = 0.86597$

Bead 3059 (Rejected)

Date : Mon Oct 17 13:54:02 PDT 2022

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

Frame size : 12 pixels

Coordinates : 7.54 μm (x), 92.3 μm (y), 57.7 μm (z)

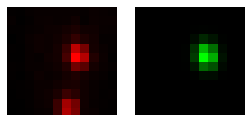
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

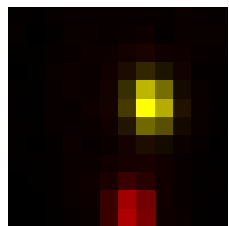
FWHM	Non corrected	Corrected	Theoretical
min	377 nm	393 nm	270 nm
max	470 nm	489 nm	270 nm
z	1.98 μm	1.99 μm	1.3 μm
Asymmetry	0.802		
Theta	-80.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.628$



Parameters:

A = 1161.434 (brightness)

B = 166.344 (background)

a = 0.934 px

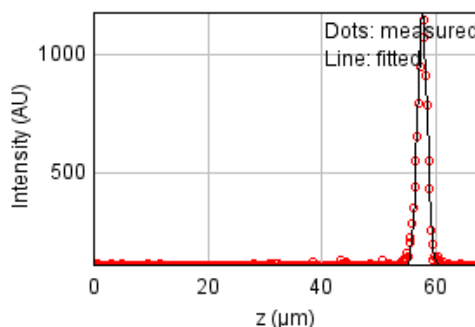
b = -0.058 px

c = 0.618 px

xc = 7.278 px

yc = 4.801 px

Z profile & fitting parameters:



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

Sum of residuals squared: 64104.8260

Standard deviation: 14.45028

R^2 : 0.99133

Parameters:

a = 114.55120

b = 1177.77923

c = 57.66763

d = 0.84168

Bead 3060

Date : Mon Oct 17 13:54:02 PDT 2022

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

Frame size : 12 pixels

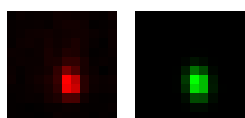
Coordinates : 74.7 μm (x), 84.5 μm (y), 57.4 μm (z)

Corresponding bead : Not found

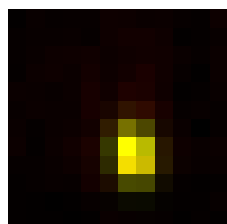
FWHM	Non corrected	Corrected	Theoretical
min	380 nm	396 nm	270 nm
max	534 nm	557 nm	270 nm
z	1.74 μm	1.75 μm	1.3 μm
Asymmetry	0.711		
Theta	-81.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 790.124 (brightness)

B = 129.252 (background)

a = 0.919 px

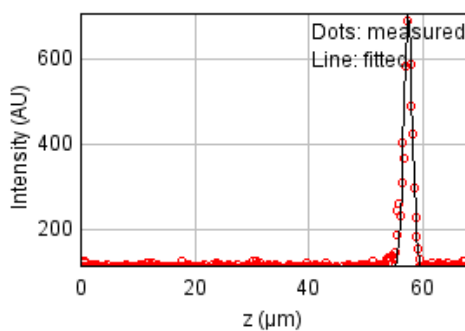
b = -0.070 px

c = 0.480 px

xc = 6.359 px

yc = 7.405 px

Z profile & fitting parameters:



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

Sum of residuals squared: 63369.2146

Standard deviation: 14.36713

R^2 : 0.96932

Parameters:

a = 114.02551

b = 705.49045

c = 57.44114

d = 0.73885

Bead 3061

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

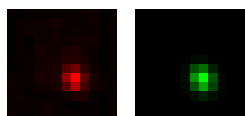
Coordinates : 72.6 μm (x), 80.6 μm (y), 57.6 μm (z)

Corresponding bead : Not found

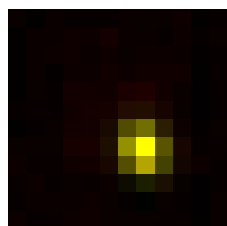
FWHM	Non corrected	Corrected	Theoretical
min	392 nm	408 nm	270 nm
max	475 nm	495 nm	270 nm
z	2.01 μm	2.02 μm	1.3 μm
Asymmetry	0.824		
Theta	-68.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 654.649 (brightness)

B = 129.825 (background)

a = 0.838 px

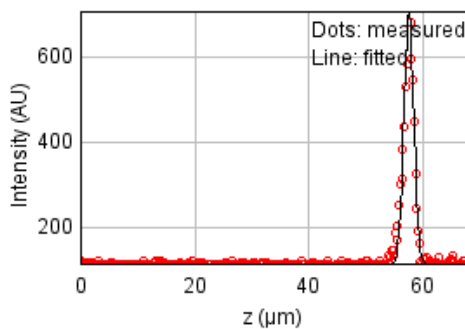
b = -0.095 px

c = 0.632 px

$x_c = 6.852$ px

$y_c = 7.137$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 44869.7012

Standard deviation: 12.08947

R^2 : 0.98097

Parameters:

a = 113.78351

b = 707.33410

c = 57.58045

d = 0.85300

Bead 3062

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

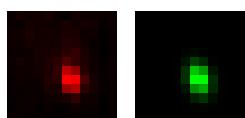
Coordinates : 84.8 μm (x), 80.4 μm (y), 57.4 μm (z)

Corresponding bead : Not found

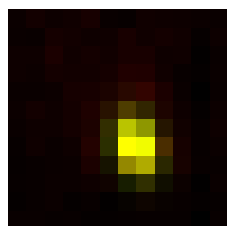
FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	570 nm	593 nm	270 nm
z	2.12 μm	2.13 μm	1.3 μm
Asymmetry	0.683		
Theta	-74.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 598.875 (brightness)

B = 126.610 (background)

a = 0.852 px

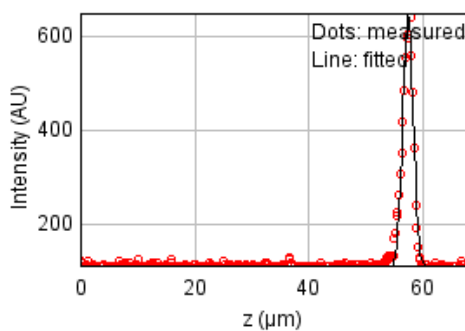
b = -0.122 px

c = 0.447 px

xc = 6.482 px

yc = 6.929 px

Z profile & fitting parameters:



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

Sum of residuals squared: 44899.7407

Standard deviation: 12.09352

R^2 : 0.97778

Parameters:

a = 112.81546

b = 647.10979

c = 57.43390

d = 0.90147

Bead 3063

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

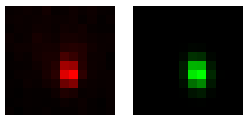
Coordinates : 51.2 um (x), 76.3 um (y), 57.7 um (z)

Corresponding bead : Not found

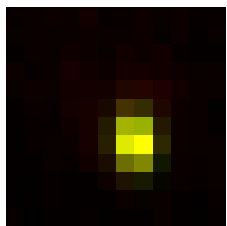
FWHM	Non corrected	Corrected	Theoretical
min	370 nm	385 nm	270 nm
max	517 nm	539 nm	270 nm
z	1.98 um	1.99 um	1.3 um
Asymmetry	0.715		
Theta	-83.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 732.534 (brightness)

B = 125.752 (background)

a = 0.974 px

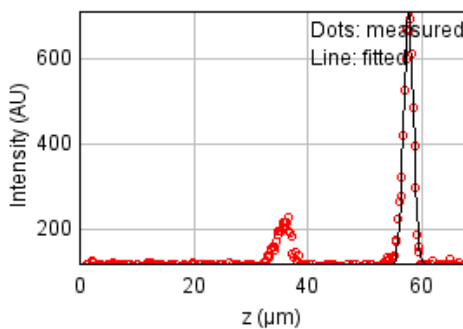
b = -0.051 px

c = 0.507 px

xc = 6.537 px

yc = 6.819 px

Z profile & fitting parameters:



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

Sum of residuals squared: 143945.802

Standard deviation: 21.65361

R^2 : 0.94051

Parameters:

a = 119.13429

b = 711.74091

c = 57.70056

d = 0.84132

Bead 3064

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

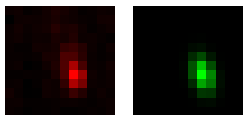
Coordinates : 136 μm (x), 75.6 μm (y), 57.1 μm (z)

Corresponding bead : Not found

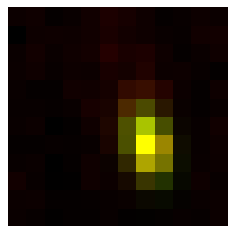
FWHM	Non corrected	Corrected	Theoretical
min	379 nm	395 nm	270 nm
max	650 nm	677 nm	270 nm
z	1.78 μm	1.79 μm	1.3 μm
Asymmetry	0.583		
Theta	-76.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 311.577$ (brightness)

$B = 116.961$ (background)

$a = 0.902$ px

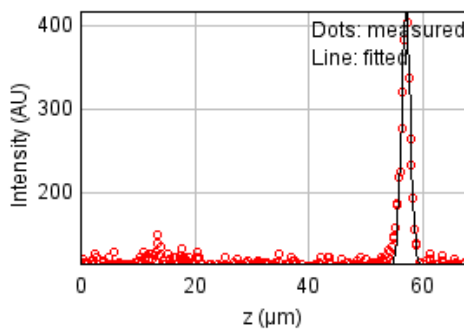
$b = -0.139$ px

$c = 0.351$ px

$x_c = 7.130$ px

$y_c = 6.930$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 25687.1537

Standard deviation: 9.14721

$R^2: 0.95522$

Parameters:

$a = 113.56739$

$b = 419.79817$

$c = 57.07291$

$d = 0.75499$

Bead 3065

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

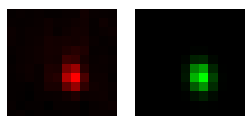
Coordinates : 81.3 μm (x), 74.9 μm (y), 57.5 μm (z)

Corresponding bead : Not found

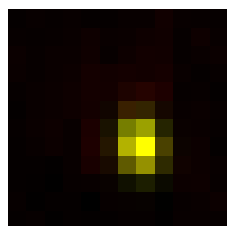
FWHM	Non corrected	Corrected	Theoretical
min	392 nm	408 nm	270 nm
max	517 nm	538 nm	270 nm
z	2.03 μm	2.04 μm	1.3 μm
Asymmetry	0.759		
Theta	-80.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 666.232 (brightness)

B = 125.850 (background)

a = 0.863 px

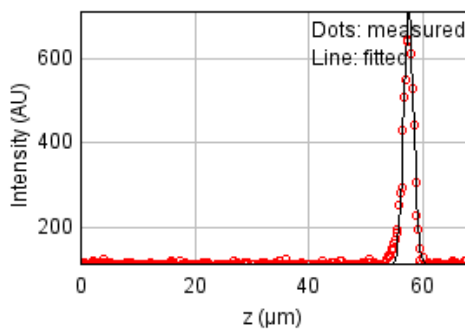
b = -0.059 px

c = 0.512 px

$x_c = 6.703$ px

$y_c = 6.915$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 43596.1355

Standard deviation: 11.91667

R^2 : 0.98203

Parameters:

a = 113.32307

b = 713.09766

c = 57.54894

d = 0.86081

Bead 3066

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

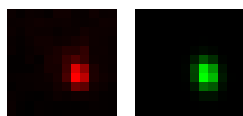
Coordinates : 63.0 μm (x), 70.4 μm (y), 57.7 μm (z)

Corresponding bead : Not found

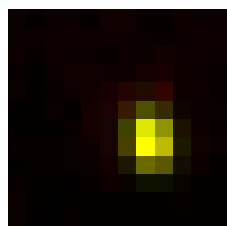
FWHM	Non corrected	Corrected	Theoretical
min	394 nm	411 nm	270 nm
max	530 nm	552 nm	270 nm
z	2.04 μm	2.05 μm	1.3 μm
Asymmetry	0.744		
Theta	-79.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 740.386$ (brightness)

$B = 130.301$ (background)

$a = 0.852$ px

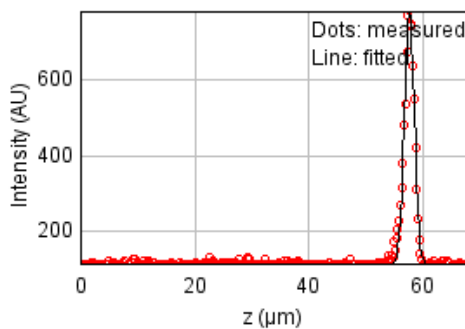
$b = -0.066$ px

$c = 0.490$ px

$x_c = 7.282$ px

$y_c = 6.636$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 34416.0059

Standard deviation: 10.58793

$R^2: 0.98842$

Parameters:

$a = 114.13095$

$b = 778.22922$

$c = 57.67637$

$d = 0.86560$

Bead 3067

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

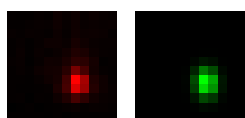
Coordinates : 65.4 μm (x), 66.7 μm (y), 57.8 μm (z)

Corresponding bead : Not found

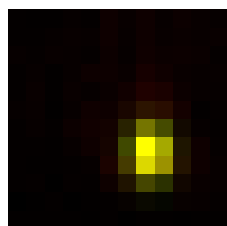
FWHM	Non corrected	Corrected	Theoretical
min	400 nm	417 nm	270 nm
max	530 nm	552 nm	270 nm
z	1.96 μm	1.97 μm	1.3 μm
Asymmetry	0.755		
Theta	-87.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 865.004$ (brightness)

$B = 129.797$ (background)

$a = 0.836$ px

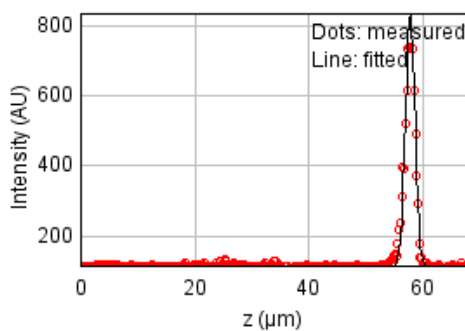
$b = -0.015$ px

$c = 0.478$ px

$x_c = 7.258$ px

$y_c = 7.330$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 54896.1668

Standard deviation: 13.37217

$R^2: 0.98379$

Parameters:

$a = 113.94960$

$b = 834.55367$

$c = 57.81543$

$d = 0.83255$

Bead 3068

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

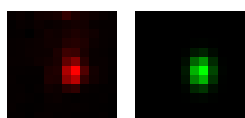
Coordinates : 73.2 μm (x), 63.2 μm (y), 57.8 μm (z)

Corresponding bead : Not found

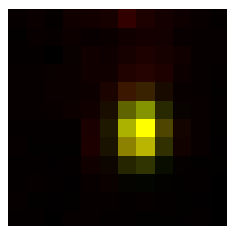
FWHM	Non corrected	Corrected	Theoretical
min	402 nm	419 nm	270 nm
max	546 nm	569 nm	270 nm
z	2.0 μm	2.0 μm	1.3 μm
Asymmetry	0.736		
Theta	88.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 682.575 (brightness)

B = 127.985 (background)

a = 0.830 px

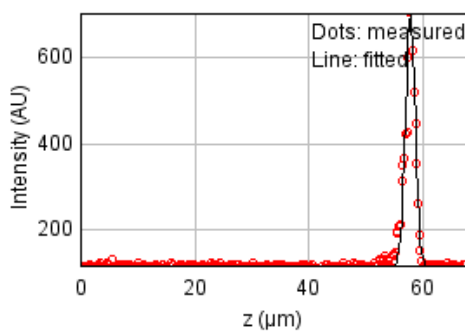
b = 0.013 px

c = 0.450 px

xc = 6.712 px

yc = 6.125 px

Z profile & fitting parameters:



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

Sum of residuals squared: 67836.3184

Standard deviation: 14.86490

R^2 : 0.97091

Parameters:

a = 114.68936

b = 703.68287

c = 57.83820

d = 0.84768

Bead 3069 (Rejected)

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

Coordinates : 41.0 μm (x), 61.5 μm (y), 31.9 μm (z)

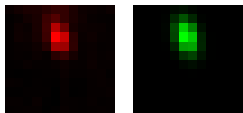
Corresponding bead : Not found

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

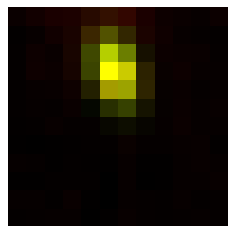
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	423 nm	270 nm
max	656 nm	683 nm	270 nm
z	5.66 μm	5.68 μm	1.3 μm
Asymmetry	0.62		
Theta	-73.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 646.046 (brightness)

B = 119.537 (background)

a = 0.772 px

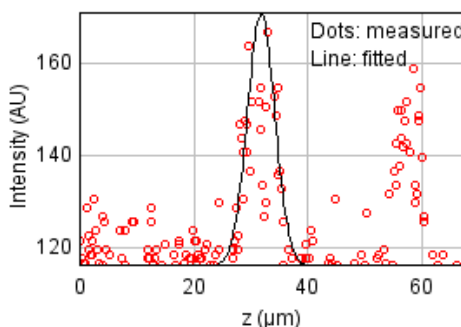
b = -0.135 px

c = 0.352 px

xc = 5.340 px

yc = 2.932 px

Z profile & fitting parameters:



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

Sum of residuals squared: 61519.0214

Standard deviation: 14.15584

R^2 : 0.45110

Parameters:

a = 116.36620

b = 171.02392

c = 31.86708

d = 2.40256

Bead 3070 (Rejected)

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

Coordinates : 63.4 μm (x), 60.0 μm (y), 57.1 μm (z)

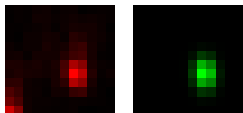
Corresponding bead : Not found

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

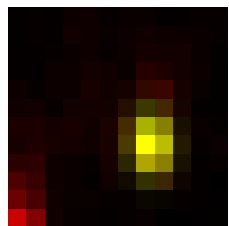
FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	582 nm	607 nm	270 nm
z	3.68 μm	3.69 μm	1.3 μm
Asymmetry	0.668		
Theta	-87.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.679$



Parameters:

A = 625.273 (brightness)

B = 151.271 (background)

a = 0.885 px

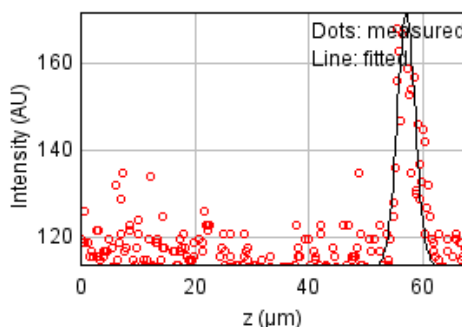
b = -0.019 px

c = 0.396 px

xc = 7.327 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: 16856.4261

Standard deviation: 7.40992

R^2 : 0.69685

Parameters:

a = 113.62537

b = 171.53882

c = 57.12581

d = 1.56154

Bead 3071

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

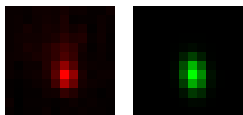
Coordinates : 122 μm (x), 60.0 μm (y), 57.4 μm (z)

Corresponding bead : Not found

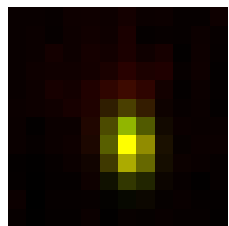
FWHM	Non corrected	Corrected	Theoretical
min	409 nm	426 nm	270 nm
max	609 nm	634 nm	270 nm
z	2.09 μm	2.1 μm	1.3 μm
Asymmetry	0.671		
Theta	-83.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 432.193$ (brightness)

$B = 123.038$ (background)

$a = 0.797$ px

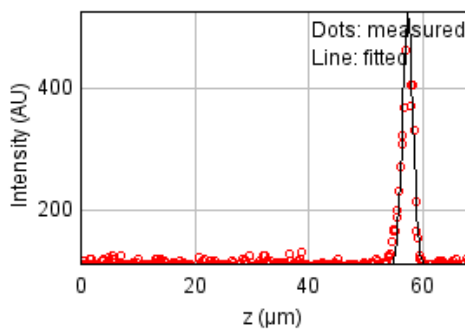
$b = -0.051$ px

$c = 0.368$ px

$x_c = 6.122$ px

$y_c = 6.973$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 50662.1457

Standard deviation: 12.84614

$R^2: 0.95874$

Parameters:

$a = 112.24045$

$b = 527.32252$

$c = 57.39154$

$d = 0.88954$

Bead 3072

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

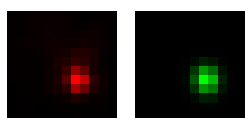
Coordinates : 28.2 μm (x), 54.9 μm (y), 58.2 μm (z)

Corresponding bead : Not found

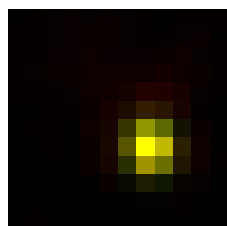
FWHM	Non corrected	Corrected	Theoretical
min	433 nm	451 nm	270 nm
max	500 nm	521 nm	270 nm
z	2.01 μm	2.02 μm	1.3 μm
Asymmetry	0.867		
Theta	-81.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1511.860$ (brightness)

$B = 142.787$ (background)

$a = 0.711$ px

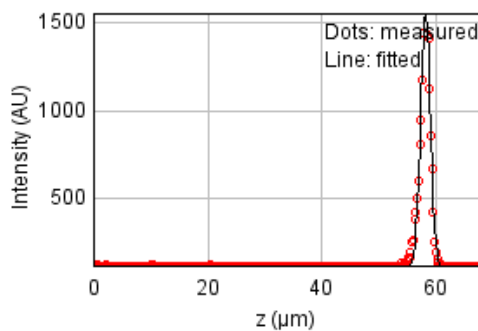
$b = -0.027$ px

$c = 0.541$ px

$x_c = 7.271$ px

$y_c = 6.998$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 128524.462

Standard deviation: 20.46085

$R^2: 0.99073$

Parameters:

$a = 116.14109$

$b = 1560.93932$

$c = 58.21491$

$d = 0.85505$

Bead 3073

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

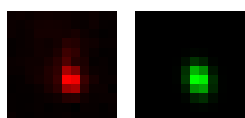
Coordinates : 95.8 μm (x), 54.5 μm (y), 57.9 μm (z)

Corresponding bead : Not found

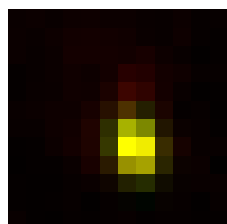
FWHM	Non corrected	Corrected	Theoretical
min	402 nm	419 nm	270 nm
max	552 nm	575 nm	270 nm
z	2.06 μm	2.07 μm	1.3 μm
Asymmetry	0.728		
Theta	-75.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 774.507$ (brightness)

$B = 131.360$ (background)

$a = 0.805$ px

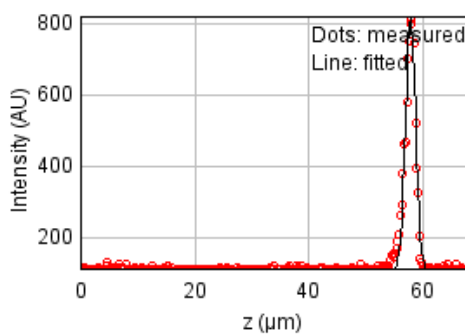
$b = -0.096$ px

$c = 0.466$ px

$x_c = 6.449$ px

$y_c = 6.980$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 74945.9105

Standard deviation: 15.62445

$R^2: 0.97820$

Parameters:

$a = 113.76551$

$b = 820.30844$

$c = 57.87553$

$d = 0.87653$

Bead 3074

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

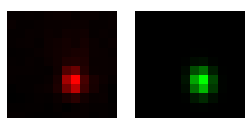
Coordinates : -80.1 μm (x), 49.3 μm (y), 57.5 μm (z)

Corresponding bead : Not found

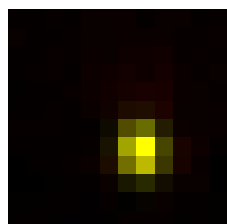
FWHM	Non corrected	Corrected	Theoretical
min	392 nm	409 nm	270 nm
max	479 nm	499 nm	270 nm
z	1.8 μm	1.8 μm	1.3 μm
Asymmetry	0.819		
Theta	-82.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 872.166$ (brightness)

$B = 124.139$ (background)

$a = 0.866$ px

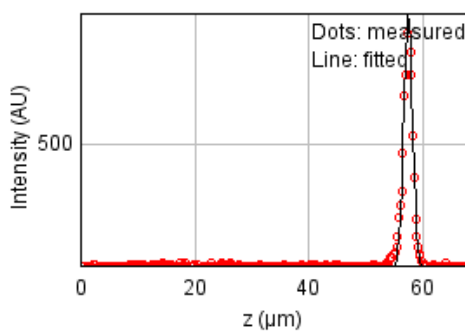
$b = -0.039$ px

$c = 0.589$ px

$x_c = 6.763$ px

$y_c = 7.210$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 37399.1041

Standard deviation: 11.03726

$R^2: 0.99009$

Parameters:

$a = 115.27833$

$b = 911.41697$

$c = 57.45526$

$d = 0.76235$

Bead 3075

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

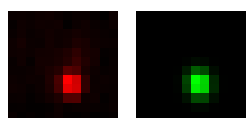
Coordinates : 27.8 um (x), 49.1 um (y), 57.6 um (z)

Corresponding bead : Not found

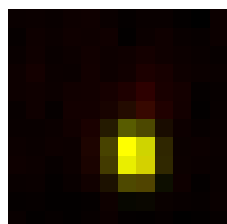
FWHM	Non corrected	Corrected	Theoretical
min	418 nm	436 nm	270 nm
max	496 nm	516 nm	270 nm
z	1.91 um	1.92 um	1.3 um
Asymmetry	0.844		
Theta	-82.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 701.088 (brightness)

B = 126.710 (background)

a = 0.763 px

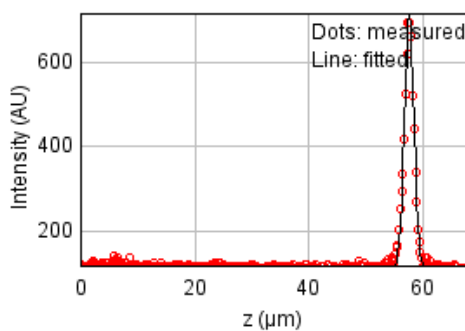
b = -0.029 px

c = 0.550 px

xc = 6.394 px

yc = 7.455 px

Z profile & fitting parameters:



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

Sum of residuals squared: 26238.0518

Standard deviation: 9.24478

R^2 : 0.98853

Parameters:

a = 115.22799

b = 716.37157

c = 57.64389

d = 0.81144

Bead 3076

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

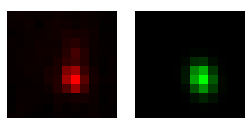
Coordinates : 91.9 μm (x), 48.8 μm (y), 57.9 μm (z)

Corresponding bead : Not found

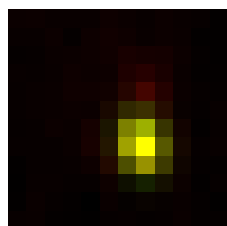
FWHM	Non corrected	Corrected	Theoretical
min	414 nm	431 nm	270 nm
max	545 nm	568 nm	270 nm
z	2.08 μm	2.09 μm	1.3 μm
Asymmetry	0.76		
Theta	-76.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.940$



Parameters:

$A = 775.082$ (brightness)

$B = 127.905$ (background)

$a = 0.764$ px

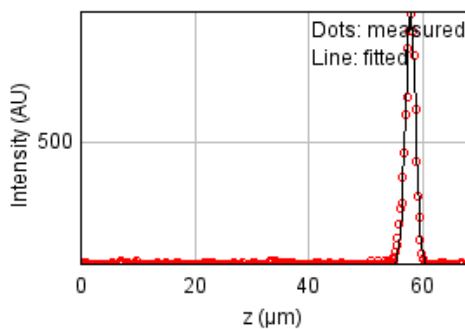
$b = -0.075$ px

$c = 0.470$ px

$x_c = 6.786$ px

$y_c = 6.865$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 45593.2346

Standard deviation: 12.18656

$R^2: 0.98947$

Parameters:

$a = 113.90037$

$b = 908.69375$

$c = 57.86299$

$d = 0.88295$

Bead 3077

Date : Mon Oct 17 13:54:03 PDT 2022

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

Frame size : 12 pixels

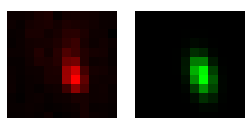
Coordinates : 144 um (x), 48.2 um (y), 57.4 um (z)

Corresponding bead : Not found

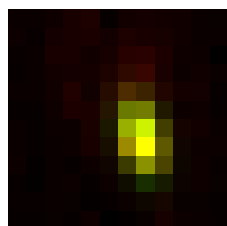
FWHM	Non corrected	Corrected	Theoretical
min	391 nm	407 nm	270 nm
max	706 nm	736 nm	270 nm
z	2.06 um	2.07 um	1.3 um
Asymmetry	0.554		
Theta	-75.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 419.410 (brightness)

B = 117.918 (background)

a = 0.840 px

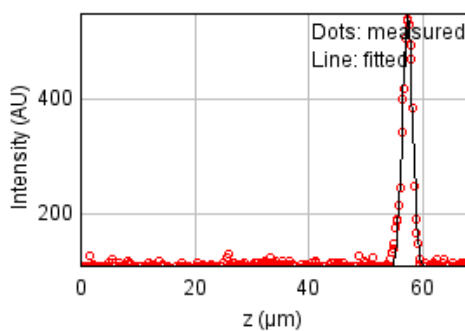
b = -0.146 px

c = 0.306 px

$x_c = 6.771$ px

$y_c = 6.474$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 30968.1309

Standard deviation: 10.04357

R^2 : 0.97657

Parameters:

a = 110.85485

b = 548.59613

c = 57.35449

d = 0.87633

Bead 3078

Date : Mon Oct 17 13:54:04 PDT 2022

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

Frame size : 12 pixels

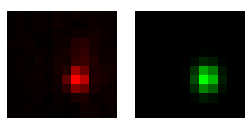
Coordinates : -127 μm (x), 40.8 μm (y), 57.7 μm (z)

Corresponding bead : Not found

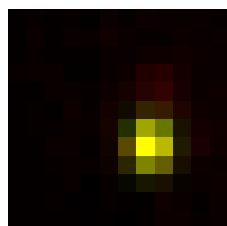
FWHM	Non corrected	Corrected	Theoretical
min	411 nm	428 nm	270 nm
max	494 nm	514 nm	270 nm
z	2.28 μm	2.29 μm	1.3 μm
Asymmetry	0.833		
Theta	89.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 581.019$ (brightness)

$B = 126.270$ (background)

$a = 0.793$ px

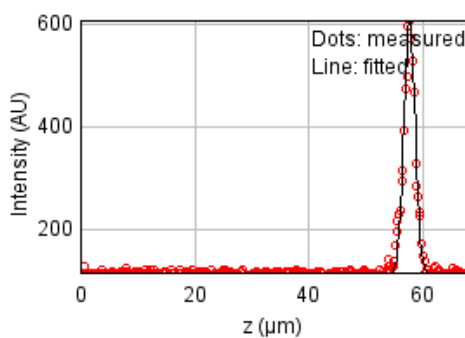
$b = 0.003$ px

$c = 0.550$ px

$x_c = 7.291$ px

$y_c = 6.898$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 37196.8711

Standard deviation: 11.00738

$R^2: 0.97985$

Parameters:

$a = 113.29986$

$b = 607.37822$

$c = 57.69957$

$d = 0.96878$

Bead 3079

Date : Mon Oct 17 13:54:04 PDT 2022

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

Frame size : 12 pixels

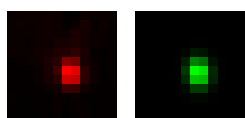
Coordinates : 5.38 μm (x), 35.9 μm (y), 57.7 μm (z)

Corresponding bead : Not found

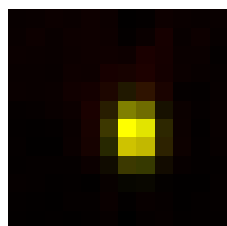
FWHM	Non corrected	Corrected	Theoretical
min	404 nm	421 nm	270 nm
max	529 nm	550 nm	270 nm
z	1.95 μm	1.96 μm	1.3 μm
Asymmetry	0.764		
Theta	-85.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 964.613 (brightness)

B = 130.028 (background)

a = 0.821 px

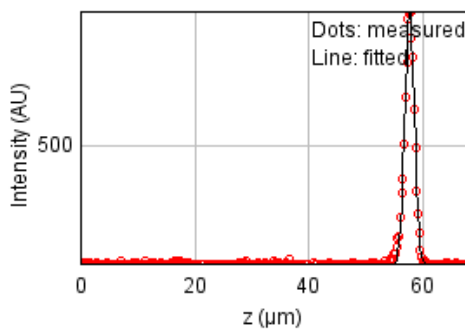
b = -0.028 px

c = 0.483 px

$x_c = 6.439$ px

$y_c = 6.246$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 25778.5881

Standard deviation: 9.16348

R^2 : 0.99405

Parameters:

a = 115.53727

b = 936.19965

c = 57.71352

d = 0.83018

Bead 3080

Date : Mon Oct 17 13:54:04 PDT 2022

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

Frame size : 12 pixels

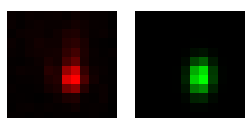
Coordinates : 96.5 μm (x), 26.6 μm (y), 58.2 μm (z)

Corresponding bead : Not found

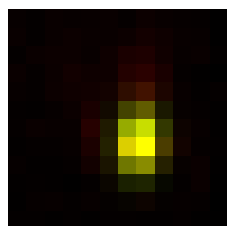
FWHM	Non corrected	Corrected	Theoretical
min	405 nm	422 nm	270 nm
max	601 nm	626 nm	270 nm
z	2.22 μm	2.23 μm	1.3 μm
Asymmetry	0.673		
Theta	86.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 797.768$ (brightness)

$B = 129.972$ (background)

$a = 0.817$ px

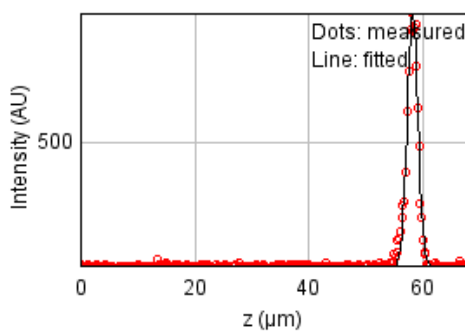
$b = 0.025$ px

$c = 0.372$ px

$x_c = 6.637$ px

$y_c = 6.712$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 56962.7198

Standard deviation: 13.62154

$R^2: 0.98765$

Parameters:

$a = 112.85379$

$b = 906.40700$

$c = 58.23350$

$d = 0.94453$

Bead 3081

Date : Mon Oct 17 13:54:04 PDT 2022

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

Frame size : 12 pixels

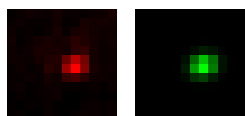
Coordinates : -66.4 μm (x), 14.9 μm (y), 5.25 μm (z)

Corresponding bead : Not found

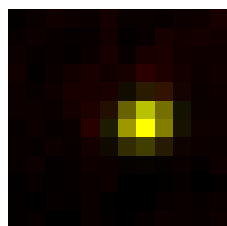
FWHM	Non corrected	Corrected	Theoretical
min	394 nm	411 nm	270 nm
max	477 nm	497 nm	270 nm
z	2.12 μm	2.13 μm	1.3 μm
Asymmetry	0.826		
Theta	18.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 402.535$ (brightness)

$B = 121.514$ (background)

$a = 0.615$ px

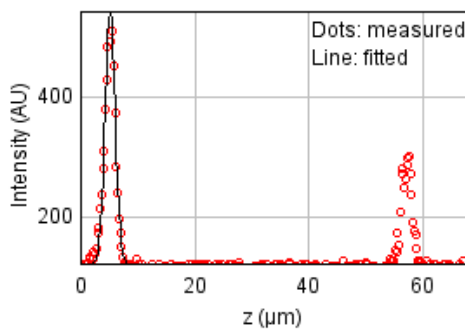
$b = 0.081$ px

$c = 0.836$ px

$x_c = 6.961$ px

$y_c = 5.667$ 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 3082 (Rejected)

Date : Mon Oct 17 13:54:04 PDT 2022

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

Frame size : 12 pixels

Coordinates : 144 um (x), 14.8 um (y), 56.8 um (z)

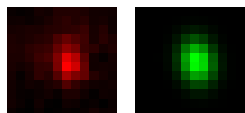
Corresponding bead : Not found

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

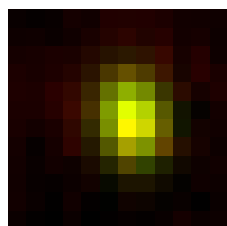
FWHM	Non corrected	Corrected	Theoretical
min	622 nm	648 nm	270 nm
max	821 nm	855 nm	270 nm
z	2.32 um	2.33 um	1.3 um
Asymmetry	0.758		
Theta	-79.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 247.265 (brightness)

B = 125.003 (background)

a = 0.342 px

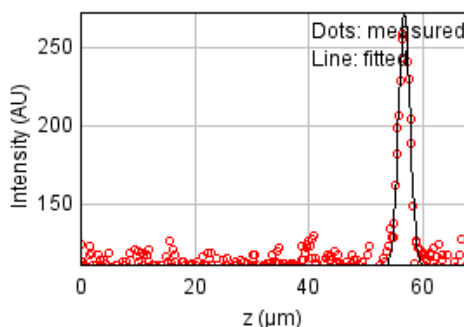
b = -0.026 px

c = 0.204 px

xc = 6.252 px

yc = 5.454 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16253.6143

Standard deviation: 7.27622

R^2 : 0.92347

Parameters:

a = 111.24271

b = 272.69189

c = 56.80086

d = 0.98463

Bead 3083

Date : Mon Oct 17 13:54:04 PDT 2022

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

Frame size : 12 pixels

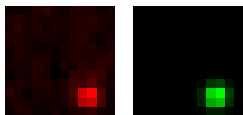
Coordinates : -133 μm (x), -7.22 μm (y), 15.4 μm (z)

Corresponding bead : Not found

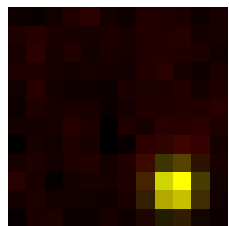
FWHM	Non corrected	Corrected	Theoretical
min	401 nm	418 nm	270 nm
max	414 nm	432 nm	270 nm
z	2.46 μm	2.47 μm	1.3 μm
Asymmetry	0.969		
Theta	40.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 221.901 (brightness)

B = 116.016 (background)

a = 0.803 px

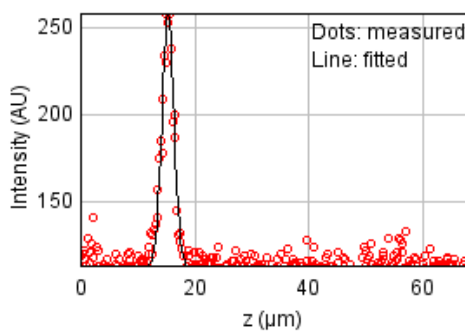
b = 0.025 px

c = 0.811 px

xc = 8.601 px

yc = 9.338 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15418.2032

Standard deviation: 7.08676

R^2 : 0.91606

Parameters:

a = 112.85153

b = 258.22256

c = 15.38023

d = 1.04553

Bead 3084

Date : Mon Oct 17 13:54:04 PDT 2022

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

Frame size : 12 pixels

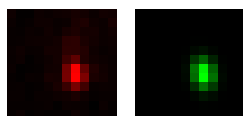
Coordinates : -127 μm (x), -19.8 μm (y), 57.2 μm (z)

Corresponding bead : Not found

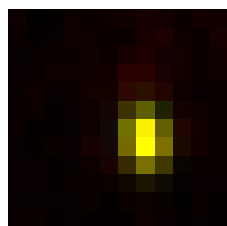
FWHM	Non corrected	Corrected	Theoretical
min	397 nm	413 nm	270 nm
max	560 nm	583 nm	270 nm
z	2.31 μm	2.32 μm	1.3 μm
Asymmetry	0.708		
Theta	-81.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 516.738$ (brightness)

$B = 122.575$ (background)

$a = 0.845$ px

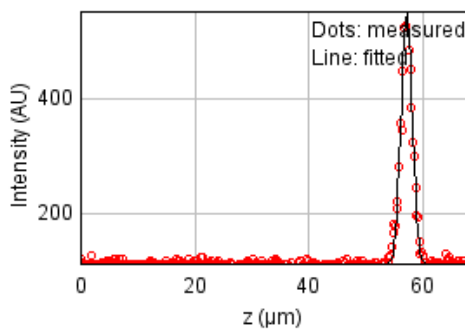
$b = -0.060$ px

$c = 0.436$ px

$x_c = 6.985$ 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: 22493.9777

Standard deviation: 8.55981

$R^2: 0.98453$

Parameters:

$a = 112.60501$

$b = 549.44180$

$c = 57.20518$

$d = 0.98160$

Bead 3085

Date : Mon Oct 17 13:54:05 PDT 2022

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

Frame size : 12 pixels

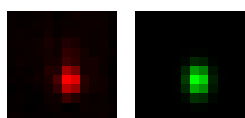
Coordinates : 5.14 μm (x), -20.8 μm (y), 57.9 μm (z)

Corresponding bead : Not found

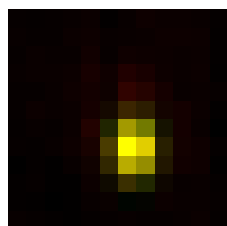
FWHM	Non corrected	Corrected	Theoretical
min	401 nm	418 nm	270 nm
max	545 nm	568 nm	270 nm
z	2.06 μm	2.07 μm	1.3 μm
Asymmetry	0.736		
Theta	-88.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 755.821$ (brightness)

$B = 126.546$ (background)

$a = 0.834$ px

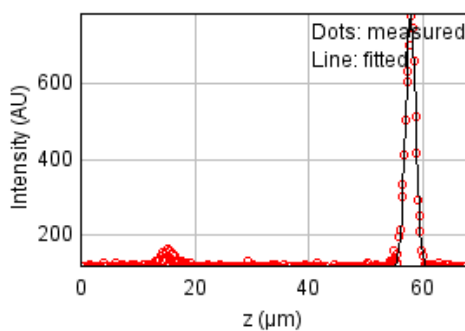
$b = -0.008$ px

$c = 0.452$ px

$x_c = 6.372$ px

$y_c = 7.068$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 51302.0757

Standard deviation: 12.92702

$R^2: 0.98333$

Parameters:

$a = 115.93096$

$b = 786.26307$

$c = 57.88710$

$d = 0.87636$

Bead 3086

Date : Mon Oct 17 13:54:05 PDT 2022

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

Frame size : 12 pixels

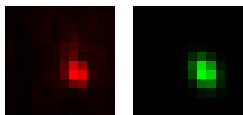
Coordinates : -106 μm (x), -42.1 μm (y), 57.0 μm (z)

Corresponding bead : Not found

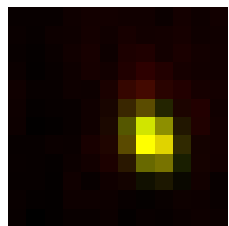
FWHM	Non corrected	Corrected	Theoretical
min	414 nm	432 nm	270 nm
max	558 nm	581 nm	270 nm
z	2.5 μm	2.51 μm	1.3 μm
Asymmetry	0.742		
Theta	-64.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 446.312 (brightness)

B = 120.857 (background)

a = 0.715 px

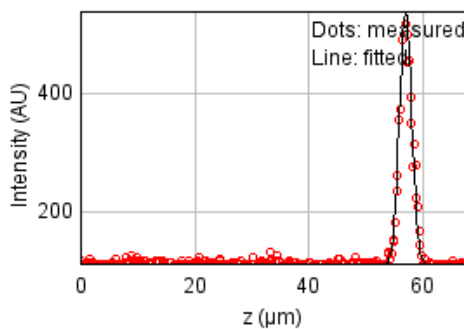
b = -0.137 px

c = 0.497 px

$x_c = 7.308$ px

$y_c = 6.696$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 44259.1504

Standard deviation: 12.00694

R^2 : 0.97094

Parameters:

a = 112.35265

b = 540.09766

c = 57.01580

d = 1.06233

Bead 3087

Date : Mon Oct 17 13:54:05 PDT 2022

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

Frame size : 12 pixels

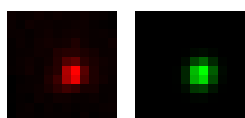
Coordinates : -54.0 μm (x), -95.5 μm (y), 57.8 μm (z)

Corresponding bead : Not found

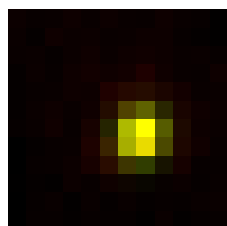
FWHM	Non corrected	Corrected	Theoretical
min	444 nm	462 nm	270 nm
max	497 nm	518 nm	270 nm
z	1.78 μm	1.79 μm	1.3 μm
Asymmetry	0.893		
Theta	71.3°		

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 = 606.103 (brightness)

B = 122.019 (background)

a = 0.667 px

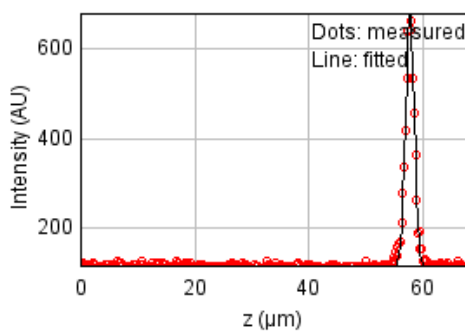
b = 0.042 px

c = 0.558 px

xc = 6.712 px

yc = 6.383 px

Z profile & fitting parameters:



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

Sum of residuals squared: 20481.7317

Standard deviation: 8.16797

R^2 : 0.98938

Parameters:

a = 113.93161

b = 684.80327

c = 57.76078

d = 0.75658

Bead 3088 (Rejected)

Date : Mon Oct 17 13:54:05 PDT 2022

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

Frame size : 12 pixels

Coordinates : -17.1 μm (x), 96.3 μm (y), 57.6 μm (z)

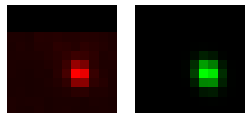
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

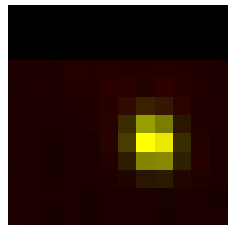
FWHM	Non corrected	Corrected	Theoretical
min	415 nm	432 nm	270 nm
max	495 nm	516 nm	270 nm
z	1.96 μm	1.96 μm	1.3 μm
Asymmetry	0.839		
Theta	-73.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.857$



Parameters:

A = 1128.636 (brightness)

B = 92.205 (background)

a = 0.760 px

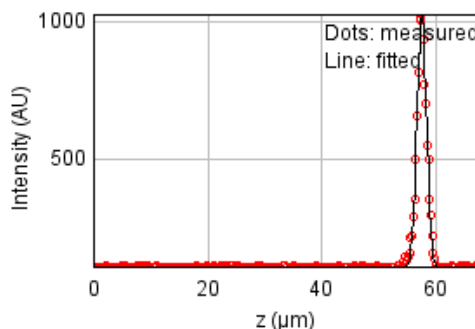
b = -0.062 px

c = 0.566 px

xc = 7.430 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: 49627.5742

Standard deviation: 12.71430

R^2 : 0.99081

Parameters:

a = 113.69553

b = 1027.78515

c = 57.56777

d = 0.83100

Bead 3089 (Rejected)

Date : Mon Oct 17 13:54:05 PDT 2022

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

Frame size : 12 pixels

Coordinates : -27.3 μm (x), 96.1 μm (y), 57.7 μm (z)

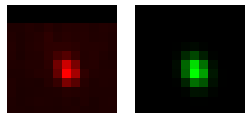
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

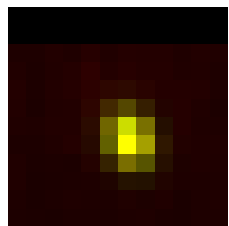
FWHM	Non corrected	Corrected	Theoretical
min	420 nm	438 nm	270 nm
max	543 nm	566 nm	270 nm
z	1.96 μm	1.97 μm	1.3 μm
Asymmetry	0.774		
Theta	-69.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 936.244 (brightness)

B = 102.812 (background)

a = 0.721 px

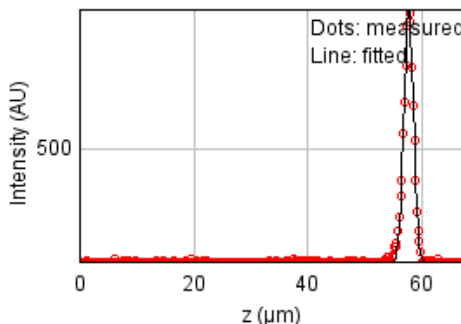
b = -0.101 px

c = 0.493 px

xc = 6.128 px

yc = 6.676 px

Z profile & fitting parameters:



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

Sum of residuals squared: 24332.3395

Standard deviation: 8.90272

R^2 : 0.99505

Parameters:

a = 113.54072

b = 986.67180

c = 57.72916

d = 0.83225

Bead 3090

Date : Mon Oct 17 13:54:05 PDT 2022

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

Frame size : 12 pixels

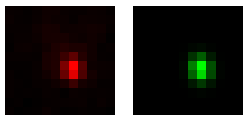
Coordinates : 22.6 μm (x), 93.5 μm (y), 57.7 μm (z)

Corresponding bead : Not found

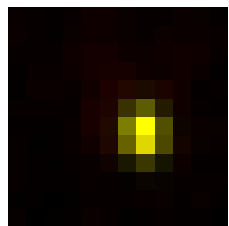
FWHM	Non corrected	Corrected	Theoretical
min	376 nm	392 nm	270 nm
max	475 nm	495 nm	270 nm
z	1.84 μm	1.85 μm	1.3 μm
Asymmetry	0.791		
Theta	-82.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 737.950$ (brightness)

$B = 123.448$ (background)

$a = 0.943$ px

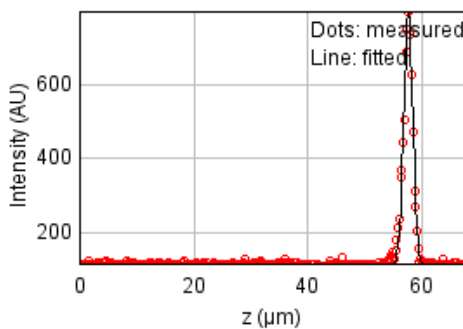
$b = -0.045$ px

$c = 0.599$ px

$x_c = 6.892$ px

$y_c = 6.348$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 39321.8294

Standard deviation: 11.31743

$R^2: 0.98621$

Parameters:

$a = 114.85341$

$b = 796.59425$

$c = 57.65382$

$d = 0.78289$

Bead 3091

Date : Mon Oct 17 13:54:05 PDT 2022

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

Frame size : 12 pixels

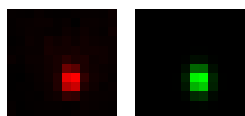
Coordinates : -34.6 μm (x), 92.0 μm (y), 57.8 μm (z)

Corresponding bead : Not found

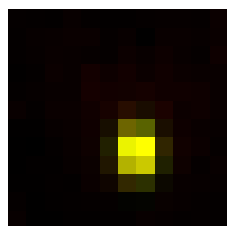
FWHM	Non corrected	Corrected	Theoretical
min	368 nm	383 nm	270 nm
max	476 nm	495 nm	270 nm
z	1.88 μm	1.89 μm	1.3 μm
Asymmetry	0.773		
Theta	-84.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1101.361$ (brightness)

$B = 130.451$ (background)

$a = 0.989$ px

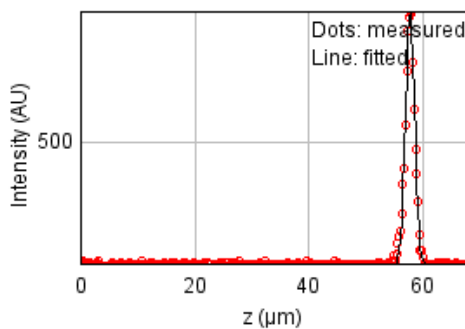
$b = -0.036$ px

$c = 0.596$ px

$x_c = 6.535$ px

$y_c = 7.271$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 26885.9913

Standard deviation: 9.35823

$R^2: 0.99324$

Parameters:

$a = 113.87304$

$b = 913.71305$

$c = 57.78762$

$d = 0.79929$

Bead 3092

Date : Mon Oct 17 13:54:05 PDT 2022

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

Frame size : 12 pixels

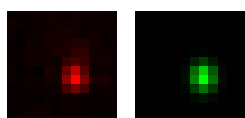
Coordinates : -130 μm (x), 89.9 μm (y), 57.4 μm (z)

Corresponding bead : Not found

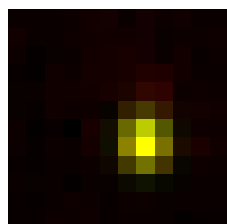
FWHM	Non corrected	Corrected	Theoretical
min	422 nm	440 nm	270 nm
max	512 nm	534 nm	270 nm
z	1.95 μm	1.95 μm	1.3 μm
Asymmetry	0.824		
Theta	-87.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 384.155 (brightness)

B = 118.527 (background)

a = 0.752 px

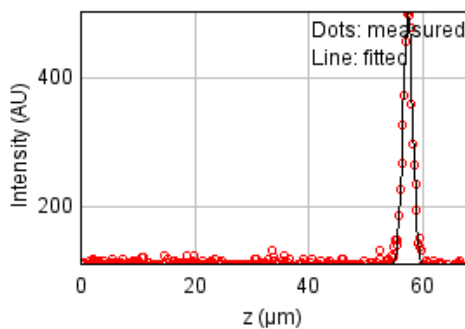
b = -0.009 px

c = 0.511 px

xc = 6.950 px

yc = 6.718 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18970.7392

Standard deviation: 7.86091

R^2 : 0.98068

Parameters:

a = 112.31250

b = 501.10827

c = 57.40979

d = 0.82638

Bead 3093

Date : Mon Oct 17 13:54:05 PDT 2022

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

Frame size : 12 pixels

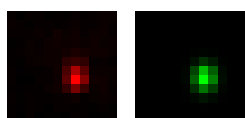
Coordinates : 28.2 μm (x), 84.6 μm (y), 57.6 μm (z)

Corresponding bead : Not found

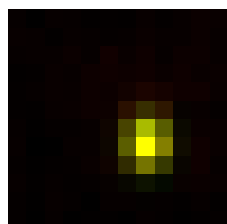
FWHM	Non corrected	Corrected	Theoretical
min	397 nm	413 nm	270 nm
max	493 nm	514 nm	270 nm
z	1.95 μm	1.96 μm	1.3 μm
Asymmetry	0.804		
Theta	89.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 660.084 (brightness)

B = 122.431 (background)

a = 0.853 px

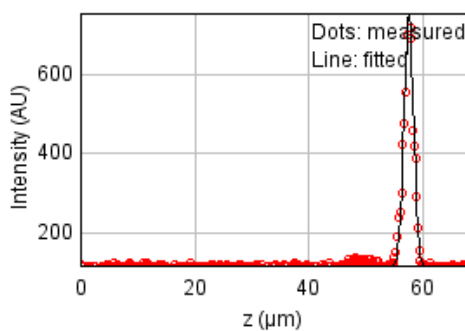
b = 0.003 px

c = 0.552 px

$x_c = 7.089$ px

$y_c = 6.784$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 42268.2062

Standard deviation: 11.73377

R^2 : 0.98407

Parameters:

a = 115.30660

b = 755.04592

c = 57.57129

d = 0.82762

Bead 3094

Date : Mon Oct 17 13:54:05 PDT 2022

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

Frame size : 12 pixels

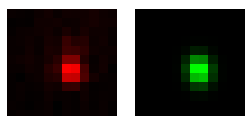
Coordinates : 71.4 μm (x), 78.6 μm (y), 57.6 μm (z)

Corresponding bead : Not found

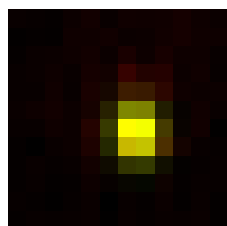
FWHM	Non corrected	Corrected	Theoretical
min	427 nm	445 nm	270 nm
max	535 nm	557 nm	270 nm
z	2.04 μm	2.05 μm	1.3 μm
Asymmetry	0.798		
Theta	-84.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 559.971 (brightness)

B = 121.897 (background)

a = 0.734 px

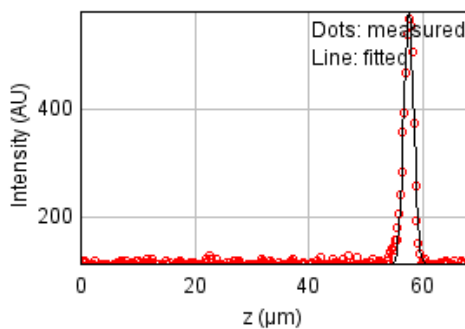
b = -0.024 px

c = 0.471 px

$x_c = 6.512$ px

$y_c = 6.188$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 32448.3808

Standard deviation: 10.28081

R^2 : 0.97821

Parameters:

a = 113.33747

b = 581.23617

c = 57.56228

d = 0.86512

Bead 3095 (Rejected)

Date : Mon Oct 17 13:54:05 PDT 2022

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

Frame size : 12 pixels

Coordinates : -33.7 μm (x), 78.7 μm (y), 56.6 μm (z)

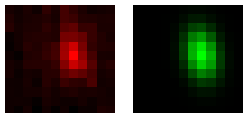
Corresponding bead : Not found

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

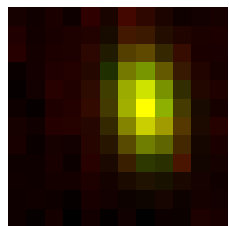
FWHM	Non corrected	Corrected	Theoretical
min	595 nm	620 nm	270 nm
max	949 nm	989 nm	270 nm
z	2.25 μm	2.26 μm	1.3 μm
Asymmetry	0.627		
Theta	-80.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 210.382 (brightness)

B = 124.356 (background)

a = 0.372 px

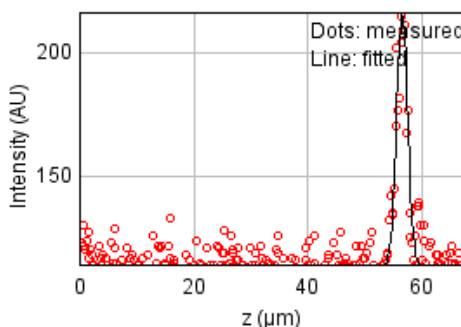
b = -0.039 px

c = 0.156 px

xc = 6.984 px

yc = 4.844 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19369.4265

Standard deviation: 7.94308

R^2 : 0.79458

Parameters:

a = 114.66537

b = 215.95226

c = 56.58421

d = 0.95410

Bead 3096

Date : Mon Oct 17 13:54:05 PDT 2022

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

Frame size : 12 pixels

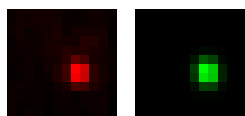
Coordinates : 53.5 μm (x), 77.5 μm (y), 57.7 μm (z)

Corresponding bead : Not found

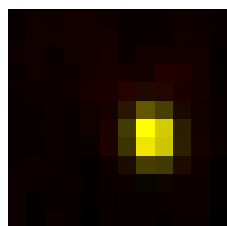
FWHM	Non corrected	Corrected	Theoretical
min	401 nm	418 nm	270 nm
max	478 nm	498 nm	270 nm
z	1.86 μm	1.87 μm	1.3 μm
Asymmetry	0.839		
Theta	-81.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 685.576$ (brightness)

$B = 126.792$ (background)

$a = 0.829$ px

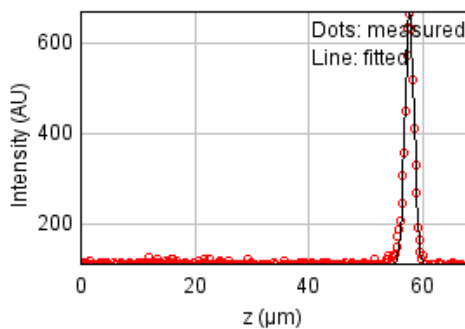
$b = -0.038$ px

$c = 0.594$ px

$x_c = 7.385$ px

$y_c = 6.432$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 21110.2510

Standard deviation: 8.29235

$R^2: 0.98898$

Parameters:

$a = 113.40205$

$b = 670.75952$

$c = 57.69359$

$d = 0.78927$

Bead 3097 (Rejected)

Date : Mon Oct 17 13:54:05 PDT 2022

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

Frame size : 12 pixels

Coordinates : -43.4 μm (x), 77.3 μm (y), 58.1 μm (z)

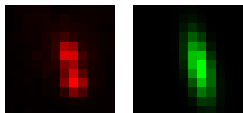
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

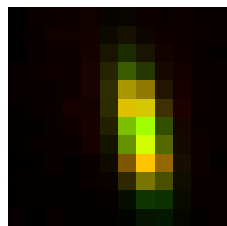
FWHM	Non corrected	Corrected	Theoretical
min	421 nm	438 nm	270 nm
max	1.16 μm	1.21 μm	270 nm
z	2.63 μm	2.64 μm	1.3 μm
Asymmetry	0.363		
Theta	-78.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 776.718 (brightness)

B = 130.843 (background)

a = 0.731 px

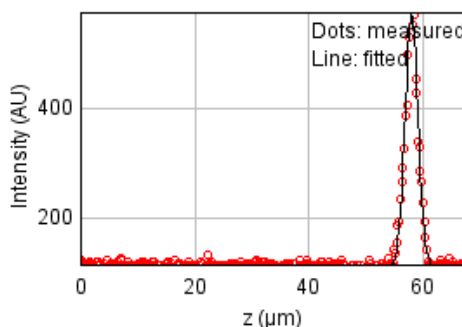
b = -0.131 px

c = 0.127 px

xc = 6.742 px

yc = 6.215 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33096.1325

Standard deviation: 10.38292

R^2 : 0.98189

Parameters:

a = 113.68505

b = 573.78951

c = 58.05165

d = 1.11764

Bead 3098

Date : Mon Oct 17 13:54:05 PDT 2022

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

Frame size : 12 pixels

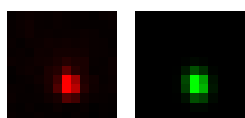
Coordinates : -9.84 μm (x), 74.6 μm (y), 58.0 μm (z)

Corresponding bead : Not found

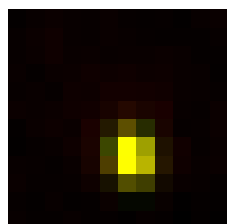
FWHM	Non corrected	Corrected	Theoretical
min	388 nm	405 nm	270 nm
max	482 nm	503 nm	270 nm
z	1.83 μm	1.84 μm	1.3 μm
Asymmetry	0.805		
Theta	-78.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 988.493$ (brightness)

$B = 129.810$ (background)

$a = 0.877$ px

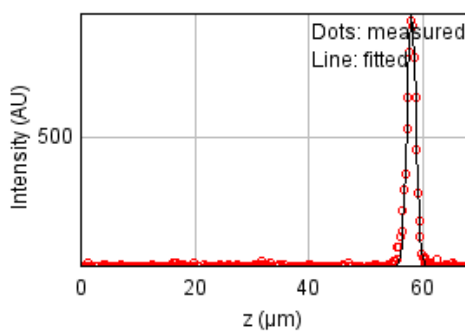
$b = -0.061$ px

$c = 0.589$ px

$x_c = 6.269$ px

$y_c = 7.522$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 35670.0516

Standard deviation: 10.77910

$R^2: 0.98984$

Parameters:

$a = 114.79486$

$b = 875.27127$

$c = 58.02820$

$d = 0.77743$

Bead 3099 (Rejected)

Date : Mon Oct 17 13:54:05 PDT 2022

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

Frame size : 12 pixels

Coordinates : 87.2 um (x), 74.4 um (y), 57.5 um (z)

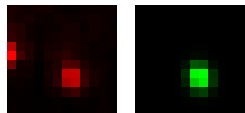
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

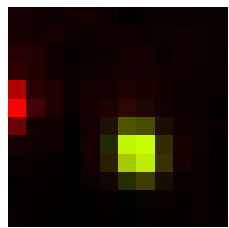
FWHM	Non corrected	Corrected	Theoretical
min	386 nm	402 nm	270 nm
max	464 nm	483 nm	270 nm
z	2.12 um	2.13 um	1.3 um
Asymmetry	0.832		
Theta	-74.5°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.537$



Parameters:

A = 525.559 (brightness)

B = 139.390 (background)

a = 0.879 px

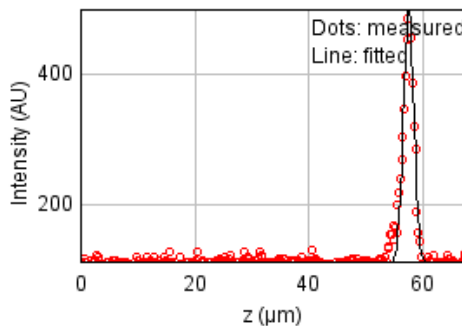
b = -0.071 px

c = 0.643 px

xc = 6.550 px

yc = 7.391 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33745.1581

Standard deviation: 10.48423

R^2 : 0.96819

Parameters:

a = 113.92614

b = 499.02315

c = 57.54514

d = 0.90224

Bead 3100

Date : Mon Oct 17 13:54:05 PDT 2022

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

Frame size : 12 pixels

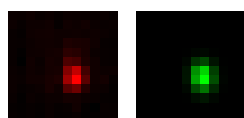
Coordinates : 72.3 μm (x), 73.0 μm (y), 57.6 μm (z)

Corresponding bead : Not found

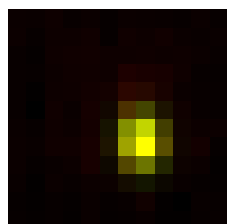
FWHM	Non corrected	Corrected	Theoretical
min	406 nm	422 nm	270 nm
max	531 nm	553 nm	270 nm
z	1.97 μm	1.98 μm	1.3 μm
Asymmetry	0.764		
Theta	-85.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 579.582 (brightness)

B = 123.794 (background)

a = 0.814 px

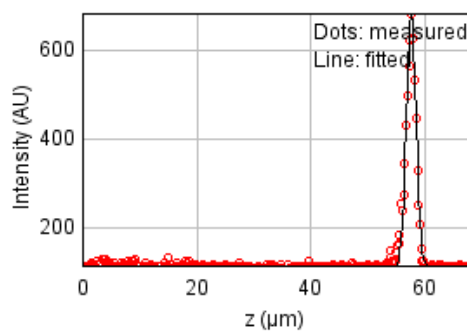
b = -0.027 px

c = 0.478 px

$x_c = 6.765$ px

$y_c = 6.674$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 39731.2370

Standard deviation: 11.37619

R^2 : 0.98122

Parameters:

a = 114.56182

b = 682.23199

c = 57.64957

d = 0.83597