

Bead 1901

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

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

Frame size : 10 pixels

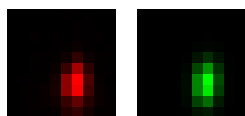
Coordinates : -22.9 μm (x), -35.9 μm (y), 42.0 μm (z)

Corresponding bead : Not found

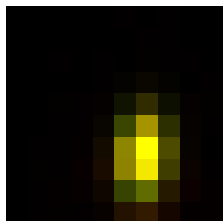
FWHM	Non corrected	Corrected	Theoretical
min	376 nm	389 nm	223 nm
max	644 nm	666 nm	223 nm
z	1.2 μm	1.2 μm	885 nm
Asymmetry	0.584		
Theta	85.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2481.828 (brightness)

B = 127.495 (background)

a = 0.944 px

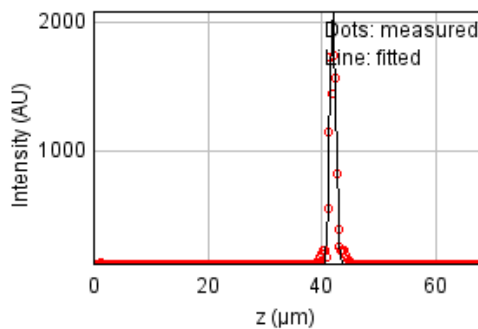
b = 0.046 px

c = 0.327 px

$x_c = 5.830$ px

$y_c = 6.364$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 586667.537

Standard deviation: 43.71463

R^2 : 0.96333

Parameters:

a = 116.45312

b = 2083.05134

c = 41.99338

d = 0.50817

Bead 1902

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

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

Frame size : 10 pixels

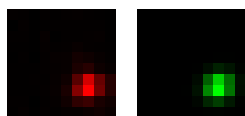
Coordinates : 106 μm (x), -82.0 μm (y), 41.9 μm (z)

Corresponding bead : Not found

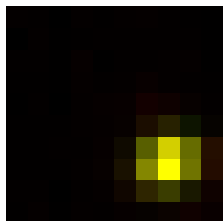
FWHM	Non corrected	Corrected	Theoretical
min	396 nm	409 nm	223 nm
max	445 nm	460 nm	223 nm
z	1.45 μm	1.45 μm	885 nm
Asymmetry	0.89		
Theta	27.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1449.223$ (brightness)

$B = 120.131$ (background)

$a = 0.716$ px

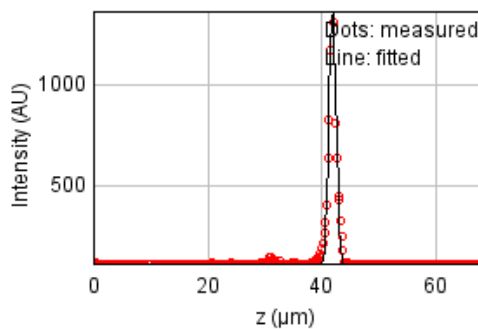
$b = 0.072$ px

$c = 0.819$ px

$x_c = 6.983$ px

$y_c = 6.629$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 150092.100

Standard deviation: 22.11107

$R^2: 0.98050$

Parameters:

$a = 114.53836$

$b = 1369.16740$

$c = 41.93590$

$d = 0.61478$

Bead 1903

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

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

Frame size : 10 pixels

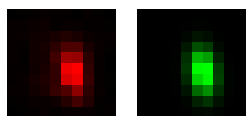
Coordinates : -107 μm (x), 39.8 μm (y), 41.9 μm (z)

Corresponding bead : Not found

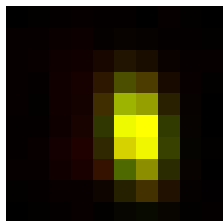
FWHM	Non corrected	Corrected	Theoretical
min	422 nm	436 nm	223 nm
max	739 nm	764 nm	223 nm
z	1.46 μm	1.47 μm	885 nm
Asymmetry	0.57		
Theta	-82.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 885.073$ (brightness)

$B = 135.695$ (background)

$a = 0.745$ px

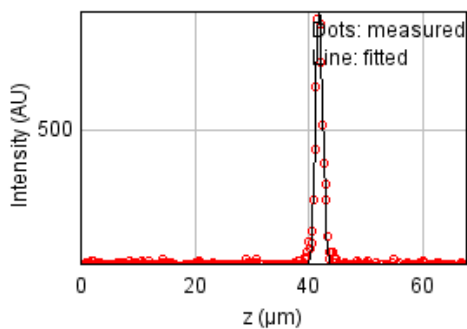
$b = -0.070$ px

$c = 0.255$ px

$x_c = 5.540$ px

$y_c = 5.298$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 49305.5234

Standard deviation: 12.67298

$R^2: 0.98158$

Parameters:

$a = 113.35125$

$b = 850.77356$

$c = 41.87080$

$d = 0.61983$

Bead 1904 (Rejected)

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

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

Frame size : 10 pixels

Coordinates : -117 μm (x), 37.0 μm (y), 45.9 μm (z)

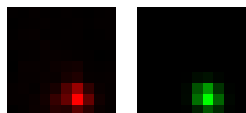
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	376 nm	388 nm	223 nm
max	426 nm	441 nm	223 nm
z	1.21 μm	1.22 μm	885 nm
Asymmetry	0.881		
Theta	-55.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1055.806 (brightness)

B = 125.625 (background)

a = 0.883 px

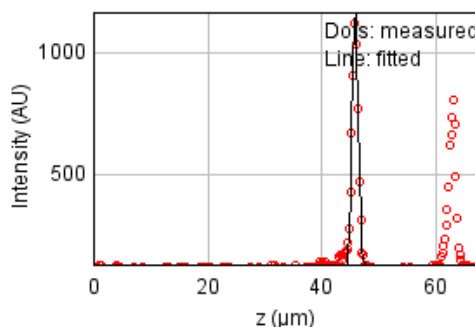
b = -0.099 px

c = 0.806 px

xc = 5.951 px

yc = 7.808 px

Z profile & fitting parameters:



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

Sum of residuals squared: 2209170.92

Standard deviation: 84.82922

R^2 : 0.66262

Parameters:

a = 133.02720

b = 1170.38546

c = 45.90819

d = 0.51429

Bead 1905

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

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

Frame size : 10 pixels

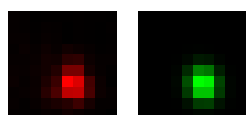
Coordinates : -119 μm (x), 31.4 μm (y), 42.4 μm (z)

Corresponding bead : Not found

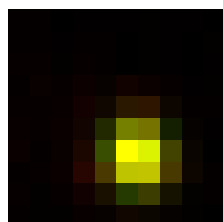
FWHM	Non corrected	Corrected	Theoretical
min	464 nm	480 nm	223 nm
max	533 nm	551 nm	223 nm
z	1.58 μm	1.59 μm	885 nm
Asymmetry	0.871		
Theta	-80.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1040.323 (brightness)

B = 126.803 (background)

a = 0.619 px

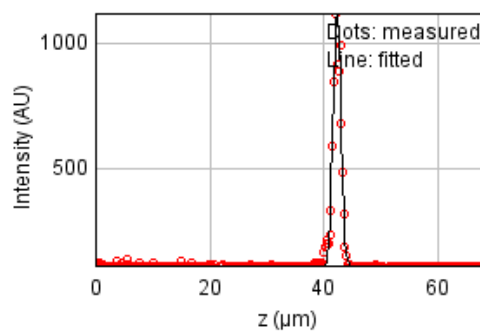
b = -0.026 px

c = 0.477 px

$x_c = 5.467$ px

$y_c = 6.248$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 154865.183

Standard deviation: 22.45989

R^2 : 0.97191

Parameters:

a = 112.33028

b = 1126.11236

c = 42.36764

d = 0.67054

Bead 1906

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

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

Frame size : 10 pixels

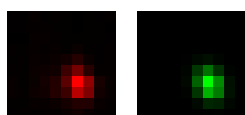
Coordinates : -85.8 μm (x), 11.0 μm (y), 42.1 μm (z)

Corresponding bead : Not found

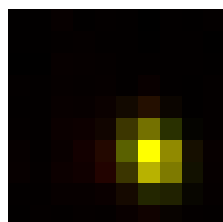
FWHM	Non corrected	Corrected	Theoretical
min	398 nm	411 nm	223 nm
max	501 nm	518 nm	223 nm
z	1.4 μm	1.4 μm	885 nm
Asymmetry	0.794		
Theta	-65.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1127.478$ (brightness)

$B = 124.676$ (background)

$a = 0.794$ px

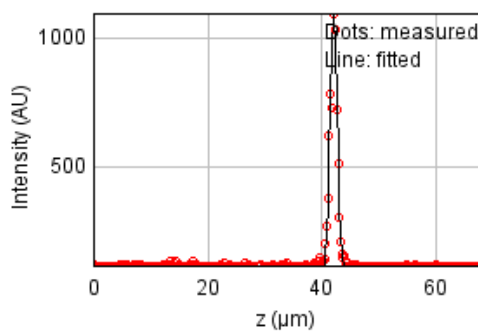
$b = -0.119$ px

$c = 0.590$ px

$x_c = 6.144$ px

$y_c = 6.222$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 107583.101

Standard deviation: 18.71987

$R^2: 0.97709$

Parameters:

$a = 114.74100$

$b = 1110.59465$

$c = 42.13447$

$d = 0.59267$

Bead 1907

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

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

Frame size : 10 pixels

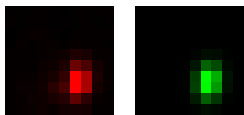
Coordinates : -118 μm (x), -14.8 μm (y), 41.8 μm (z)

Corresponding bead : Not found

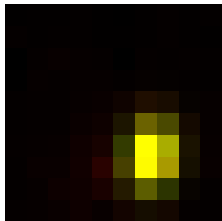
FWHM	Non corrected	Corrected	Theoretical
min	379 nm	392 nm	223 nm
max	528 nm	546 nm	223 nm
z	1.12 μm	1.12 μm	885 nm
Asymmetry	0.717		
Theta	83.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1385.327$ (brightness)

$B = 127.775$ (background)

$a = 0.930$ px

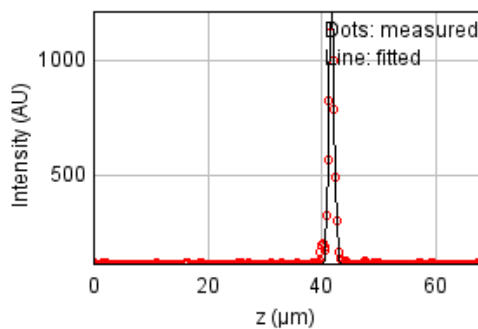
$b = 0.048$ px

$c = 0.486$ px

$x_c = 6.267$ px

$y_c = 6.455$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 47539.8050

Standard deviation: 12.44399

$R^2: 0.98955$

Parameters:

$a = 113.31896$

$b = 1213.19202$

$c = 41.77009$

$d = 0.47366$

Bead 1908

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

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

Frame size : 10 pixels

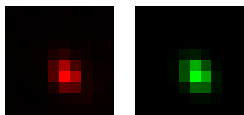
Coordinates : 118 μm (x), -52.8 μm (y), 42.3 μm (z)

Corresponding bead : Not found

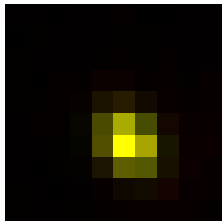
FWHM	Non corrected	Corrected	Theoretical
min	375 nm	388 nm	223 nm
max	488 nm	505 nm	223 nm
z	1.32 μm	1.33 μm	885 nm
Asymmetry	0.769		
Theta	-53.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1348.957$ (brightness)

$B = 123.548$ (background)

$a = 0.816$ px

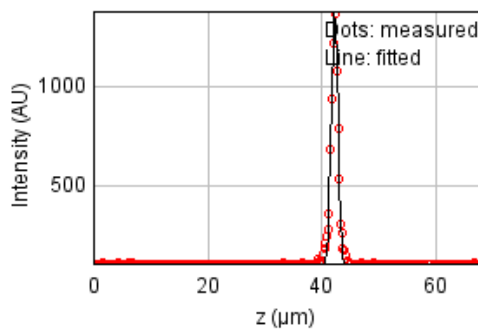
$b = -0.186$ px

$c = 0.699$ px

$x_c = 5.193$ px

$y_c = 5.838$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 58523.5558

Standard deviation: 13.80690

$R^2: 0.99172$

Parameters:

$a = 113.10909$

$b = 1376.36862$

$c = 42.29525$

$d = 0.56161$

Bead 1909

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

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

Frame size : 10 pixels

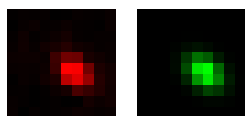
Coordinates : 146 um (x), -74.7 um (y), 42.0 um (z)

Corresponding bead : Not found

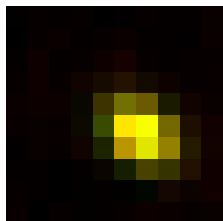
FWHM	Non corrected	Corrected	Theoretical
min	436 nm	450 nm	223 nm
max	600 nm	620 nm	223 nm
z	1.61 um	1.61 um	885 nm
Asymmetry	0.726		
Theta	-39.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 630.542 (brightness)

B = 117.168 (background)

a = 0.507 px

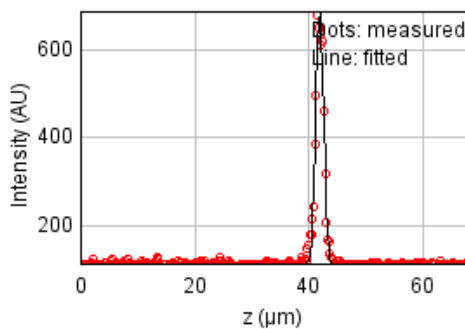
b = -0.164 px

c = 0.573 px

xc = 5.711 px

yc = 5.328 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33162.8849

Standard deviation: 10.39338

R^2 : 0.98152

Parameters:

a = 111.34597

b = 687.53014

c = 41.95881

d = 0.68309

Bead 1910

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

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

Frame size : 10 pixels

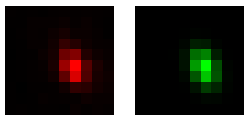
Coordinates : 116 μm (x), -92.4 μm (y), 42.0 μm (z)

Corresponding bead : Not found

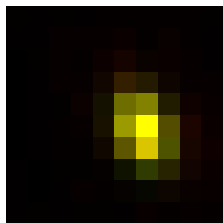
FWHM	Non corrected	Corrected	Theoretical
min	384 nm	397 nm	223 nm
max	574 nm	593 nm	223 nm
z	1.27 μm	1.28 μm	885 nm
Asymmetry	0.669		
Theta	-69.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1415.783 (brightness)

B = 127.104 (background)

a = 0.849 px

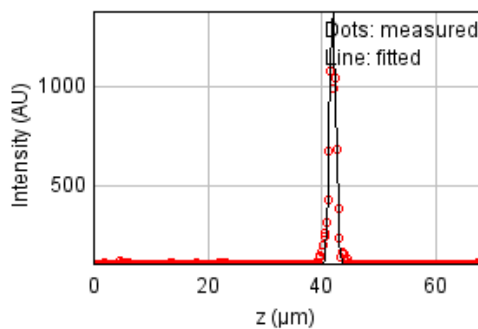
b = -0.166 px

c = 0.470 px

$x_c = 5.828$ px

$y_c = 5.160$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 152535.022

Standard deviation: 22.29028

R^2 : 0.97766

Parameters:

a = 114.52096

b = 1371.70238

c = 41.97472

d = 0.53934

Bead 1911 (Rejected)

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

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

Frame size : 10 pixels

Coordinates : 109 um (x), 77.7 um (y), 42.2 um (z)

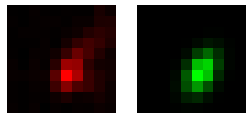
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	430 nm	223 nm
max	659 nm	681 nm	223 nm
z	2.08 um	2.08 um	885 nm
Asymmetry	0.631		
Theta	61.5°		

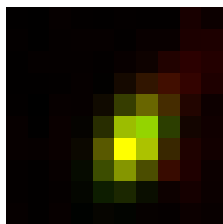
XY profile & fitting parameters :

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



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

$R^2 = 0.895$



Parameters:

A = 662.524 (brightness)

B = 129.224 (background)

a = 0.670 px

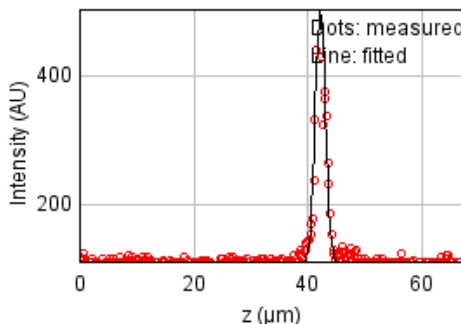
b = 0.196 px

c = 0.415 px

xc = 5.386 px

yc = 5.678 px

Z profile & fitting parameters:



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

Sum of residuals squared: 62922.7155

Standard deviation: 14.31642

R^2 : 0.94228

Parameters:

a = 112.52470

b = 501.88962

c = 42.23793

d = 0.88167

Bead 1912

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

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

Frame size : 10 pixels

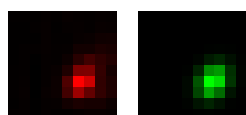
Coordinates : 110 μm (x), 44.4 μm (y), 42.5 μm (z)

Corresponding bead : Not found

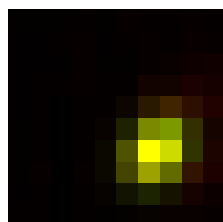
FWHM	Non corrected	Corrected	Theoretical
min	428 nm	443 nm	223 nm
max	547 nm	565 nm	223 nm
z	1.7 μm	1.71 μm	885 nm
Asymmetry	0.784		
Theta	55.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1038.687$ (brightness)

$B = 122.050$ (background)

$a = 0.641$ px

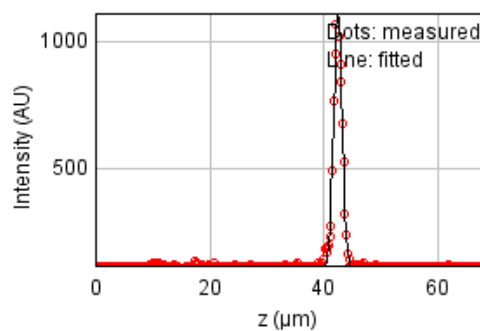
$b = 0.131$ px

$c = 0.539$ px

$x_c = 6.382$ px

$y_c = 5.985$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 60377.3703

Standard deviation: 14.02387

$R^2: 0.98943$

Parameters:

$a = 113.11863$

$b = 1117.43738$

$c = 42.52875$

$d = 0.72249$

Bead 1913

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

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

Frame size : 10 pixels

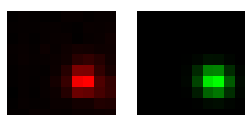
Coordinates : 60.0 μm (x), 29.9 μm (y), 42.8 μm (z)

Corresponding bead : Not found

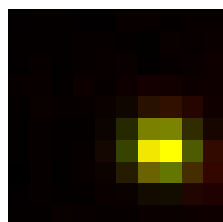
FWHM	Non corrected	Corrected	Theoretical
min	431 nm	445 nm	223 nm
max	489 nm	505 nm	223 nm
z	1.16 μm	1.17 μm	885 nm
Asymmetry	0.881		
Theta	-13.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 707.585$ (brightness)

$B = 122.074$ (background)

$a = 0.570$ px

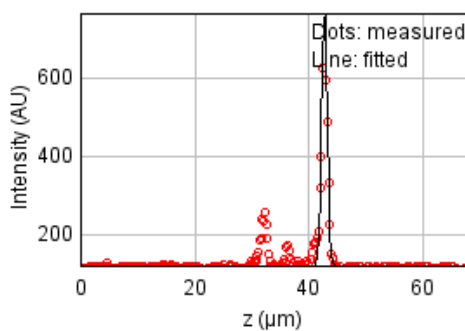
$b = -0.036$ px

$c = 0.715$ px

$x_c = 6.586$ px

$y_c = 5.940$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 137157.140

Standard deviation: 21.13684

$R^2: 0.92529$

Parameters:

$a = 118.55449$

$b = 780.05707$

$c = 42.80273$

$d = 0.49466$

Bead 1914

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

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

Frame size : 10 pixels

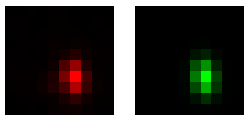
Coordinates : -48.9 μm (x), 27.3 μm (y), 42.7 μm (z)

Corresponding bead : Not found

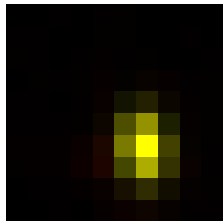
FWHM	Non corrected	Corrected	Theoretical
min	355 nm	366 nm	223 nm
max	532 nm	550 nm	223 nm
z	1.27 μm	1.27 μm	885 nm
Asymmetry	0.667		
Theta	-83.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.990$



Parameters:

A = 1682.652 (brightness)

B = 125.866 (background)

a = 1.061 px

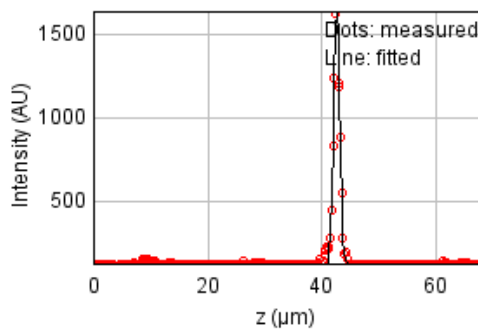
b = -0.064 px

c = 0.481 px

$x_c = 5.858$ px

$y_c = 6.067$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 203185.336

Standard deviation: 25.72628

R^2 : 0.97945

Parameters:

a = 118.85693

b = 1635.69452

c = 42.66057

d = 0.53748

Bead 1915

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

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

Frame size : 10 pixels

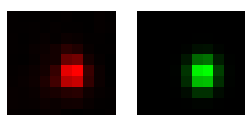
Coordinates : -115 μm (x), -10.2 μm (y), 42.4 μm (z)

Corresponding bead : Not found

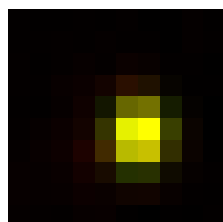
FWHM	Non corrected	Corrected	Theoretical
min	427 nm	442 nm	223 nm
max	493 nm	509 nm	223 nm
z	1.48 μm	1.48 μm	885 nm
Asymmetry	0.867		
Theta	85.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1405.242 (brightness)

B = 128.445 (background)

a = 0.734 px

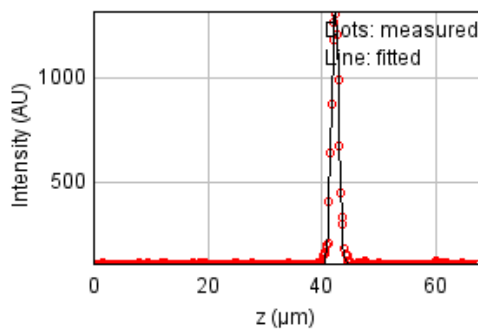
b = 0.015 px

c = 0.554 px

$x_c = 5.535$ px

$y_c = 5.252$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 41411.8967

Standard deviation: 11.61431

R^2 : 0.99420

Parameters:

a = 114.13611

b = 1319.62068

c = 42.38722

d = 0.62709

Bead 1916

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

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

Frame size : 10 pixels

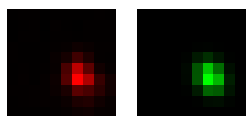
Coordinates : 4.45 μm (x), -39.8 μm (y), 42.7 μm (z)

Corresponding bead : Not found

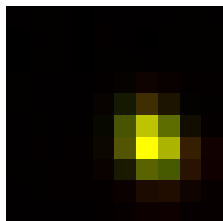
FWHM	Non corrected	Corrected	Theoretical
min	410 nm	424 nm	223 nm
max	505 nm	522 nm	223 nm
z	1.34 μm	1.34 μm	885 nm
Asymmetry	0.813		
Theta	-57.9°		

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:

$A = 1800.620$ (brightness)

$B = 129.527$ (background)

$a = 0.722$ px

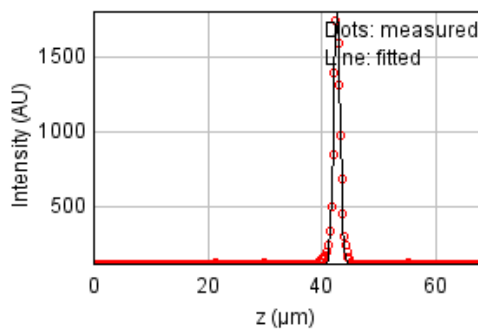
$b = -0.122$ px

$c = 0.603$ px

$x_c = 6.221$ px

$y_c = 5.760$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 115322.328

Standard deviation: 19.38151

$R^2: 0.99102$

Parameters:

$a = 115.97326$

$b = 1808.33073$

$c = 42.69434$

$d = 0.56825$

Bead 1917

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

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

Frame size : 10 pixels

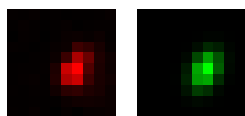
Coordinates : 83.1 μm (x), -63.8 μm (y), 41.9 μm (z)

Corresponding bead : Not found

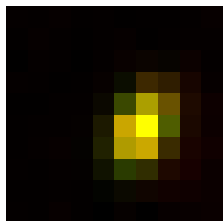
FWHM	Non corrected	Corrected	Theoretical
min	408 nm	421 nm	223 nm
max	608 nm	629 nm	223 nm
z	1.5 μm	1.51 μm	885 nm
Asymmetry	0.67		
Theta	64.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 910.677$ (brightness)

$B = 119.728$ (background)

$a = 0.723$ px

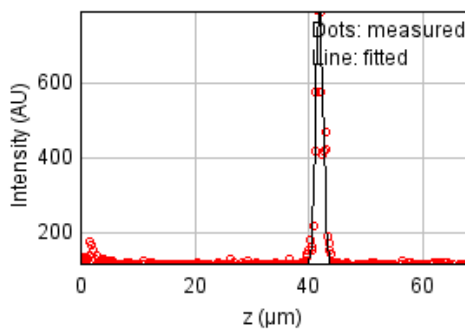
$b = 0.175$ px

$c = 0.448$ px

$x_c = 5.771$ px

$y_c = 5.123$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 186764.557

Standard deviation: 24.66483

$R^2: 0.92564$

Parameters:

$a = 114.19634$

$b = 798.46182$

$c = 41.90383$

$d = 0.63754$

Bead 1918

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

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

Frame size : 10 pixels

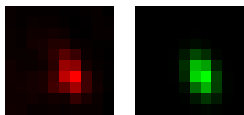
Coordinates : -99.5 μm (x), 79.7 μm (y), 42.6 μm (z)

Corresponding bead : Not found

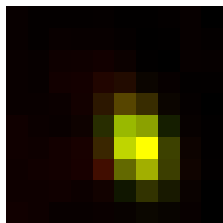
FWHM	Non corrected	Corrected	Theoretical
min	400 nm	414 nm	223 nm
max	612 nm	633 nm	223 nm
z	1.64 μm	1.65 μm	885 nm
Asymmetry	0.654		
Theta	-68.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 838.453$ (brightness)

$B = 132.534$ (background)

$a = 0.774$ px

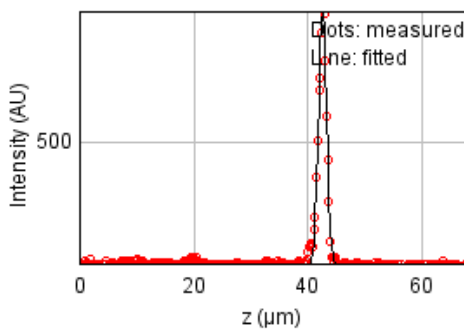
$b = -0.162$ px

$c = 0.421$ px

$x_c = 5.596$ px

$y_c = 5.895$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 50457.7471

Standard deviation: 12.82020

$R^2: 0.98547$

Parameters:

$a = 115.08801$

$b = 910.07337$

$c = 42.64266$

$d = 0.69750$

Bead 1919

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

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

Frame size : 10 pixels

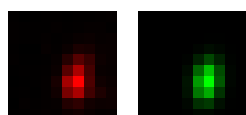
Coordinates : 16.7 μm (x), 42.9 μm (y), 43.0 μm (z)

Corresponding bead : Not found

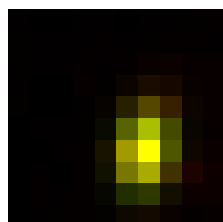
FWHM	Non corrected	Corrected	Theoretical
min	409 nm	422 nm	223 nm
max	632 nm	654 nm	223 nm
z	1.18 μm	1.18 μm	885 nm
Asymmetry	0.646		
Theta	81.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1338.272 (brightness)

B = 125.684 (background)

a = 0.792 px

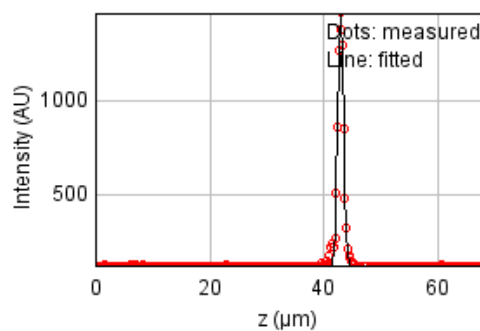
b = 0.072 px

c = 0.347 px

xc = 5.823 px

yc = 5.954 px

Z profile & fitting parameters:



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

Sum of residuals squared: 71784.9543

Standard deviation: 15.29141

R^2 : 0.99046

Parameters:

a = 115.02826

b = 1493.49740

c = 43.00762

d = 0.50008

Bead 1920

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

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

Frame size : 10 pixels

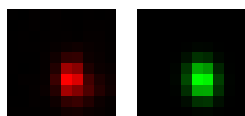
Coordinates : 18.8 μm (x), -35.6 μm (y), 42.9 μm (z)

Corresponding bead : Not found

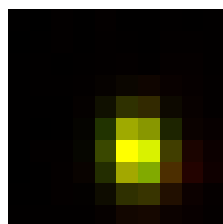
FWHM	Non corrected	Corrected	Theoretical
min	450 nm	466 nm	223 nm
max	572 nm	591 nm	223 nm
z	1.38 μm	1.39 μm	885 nm
Asymmetry	0.787		
Theta	-82.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1809.479$ (brightness)

$B = 131.265$ (background)

$a = 0.658$ px

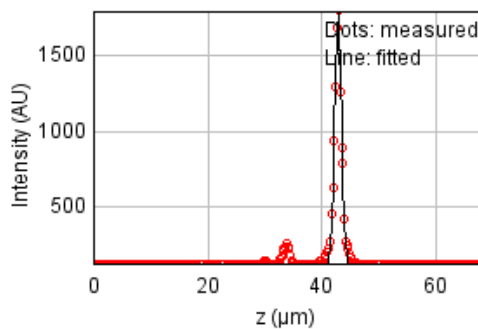
$b = -0.031$ px

$c = 0.414$ px

$x_c = 5.460$ px

$y_c = 6.029$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 250473.932

Standard deviation: 28.56354

$R^2: 0.98076$

Parameters:

$a = 120.56344$

$b = 1788.46888$

$c = 42.91031$

$d = 0.58770$

Bead 1921 (Rejected)

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

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

Frame size : 10 pixels

Coordinates : -113 μm (x), -35.9 μm (y), 44.6 μm (z)

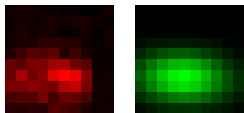
Corresponding bead : Not found

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

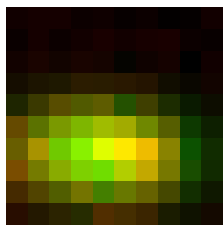
FWHM	Non corrected	Corrected	Theoretical
min	794 nm	821 nm	223 nm
max	1.43 μm	1.48 μm	223 nm
z	1.19 μm	1.19 μm	885 nm
Asymmetry	0.556		
Theta	-2.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.845$



Parameters:

A = 116.853 (brightness)

B = 108.636 (background)

a = 0.066 px

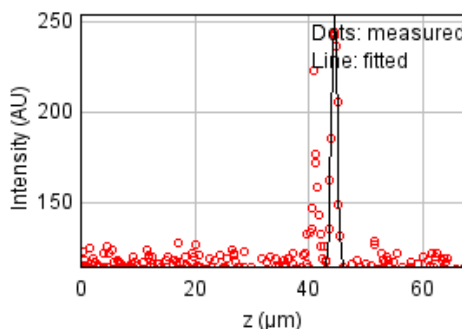
b = -0.007 px

c = 0.212 px

xc = 3.888 px

yc = 6.186 px

Z profile & fitting parameters:



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

Sum of residuals squared: 37247.6963

Standard deviation: 11.01490

R^2 : 0.68487

Parameters:

a = 113.84988

b = 257.01938

c = 44.55151

d = 0.50344

Bead 1922 (Rejected)

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

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

Frame size : 10 pixels

Coordinates : -81.9 μm (x), -53.2 μm (y), 43.8 μm (z)

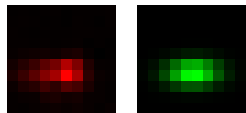
Corresponding bead : Not found

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

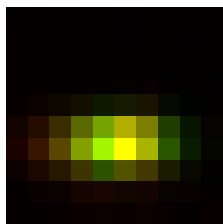
FWHM	Non corrected	Corrected	Theoretical
min	422 nm	436 nm	223 nm
max	829 nm	857 nm	223 nm
z	1.2 μm	1.21 μm	885 nm
Asymmetry	0.509		
Theta	0.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 837.808 (brightness)

B = 123.914 (background)

a = 0.196 px

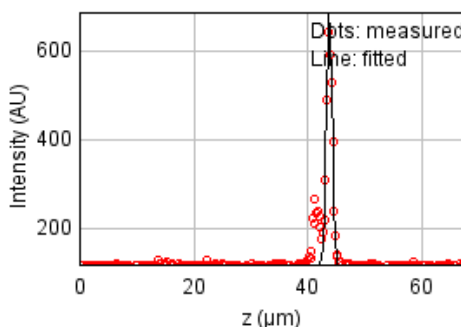
b = 0.009 px

c = 0.755 px

xc = 4.615 px

yc = 5.758 px

Z profile & fitting parameters:



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

Sum of residuals squared: 115839.580

Standard deviation: 19.42492

R^2 : 0.91798

Parameters:

a = 115.86228

b = 685.26357

c = 43.80303

d = 0.50996

Bead 1923

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

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

Frame size : 10 pixels

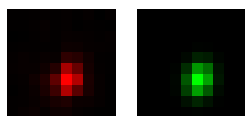
Coordinates : -135 μm (x), -60.1 μm (y), 42.5 μm (z)

Corresponding bead : Not found

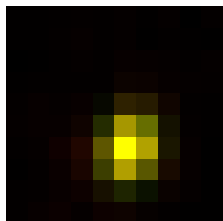
FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	527 nm	545 nm	223 nm
z	1.34 μm	1.35 μm	885 nm
Asymmetry	0.782		
Theta	76.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1108.645$ (brightness)

$B = 120.656$ (background)

$a = 0.774$ px

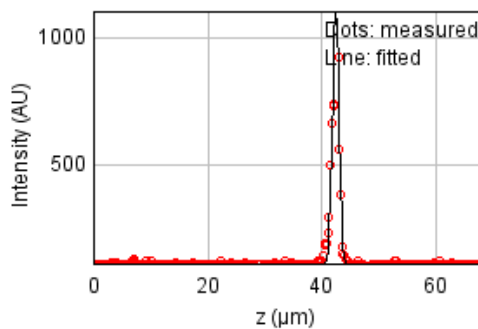
$b = 0.071$ px

$c = 0.501$ px

$x_c = 5.204$ px

$y_c = 5.999$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 207309.315

Standard deviation: 25.98605

$R^2: 0.95489$

Parameters:

$a = 112.20503$

$b = 1104.50824$

$c = 42.49227$

$d = 0.57012$

Bead 1924

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

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

Frame size : 10 pixels

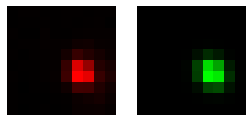
Coordinates : 96.0 μm (x), -61.3 μm (y), 42.8 μm (z)

Corresponding bead : Not found

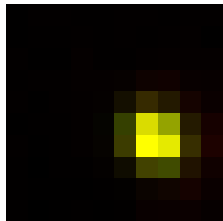
FWHM	Non corrected	Corrected	Theoretical
min	393 nm	406 nm	223 nm
max	453 nm	468 nm	223 nm
z	1.55 μm	1.56 μm	885 nm
Asymmetry	0.867		
Theta	-47.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1827.156$ (brightness)

$B = 130.330$ (background)

$a = 0.772$ px

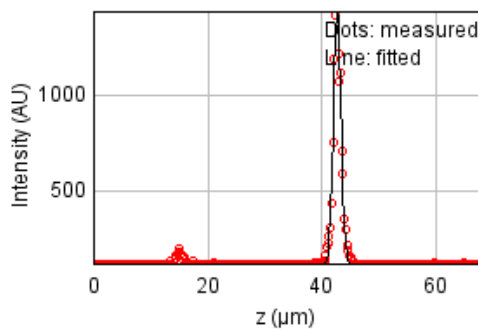
$b = -0.107$ px

$c = 0.752$ px

$x_c = 6.395$ px

$y_c = 5.655$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 238960.783

Standard deviation: 27.89935

$R^2: 0.97439$

Parameters:

$a = 115.91888$

$b = 1447.00247$

$c = 42.75470$

$d = 0.65976$

Bead 1925

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

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

Frame size : 10 pixels

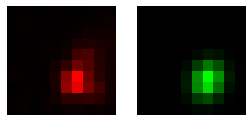
Coordinates : 81.6 μm (x), 47.2 μm (y), 43.3 μm (z)

Corresponding bead : Not found

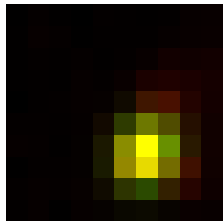
FWHM	Non corrected	Corrected	Theoretical
min	469 nm	485 nm	223 nm
max	556 nm	575 nm	223 nm
z	1.46 μm	1.47 μm	885 nm
Asymmetry	0.843		
Theta	67.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 718.443$ (brightness)

$B = 125.672$ (background)

$a = 0.586$ px

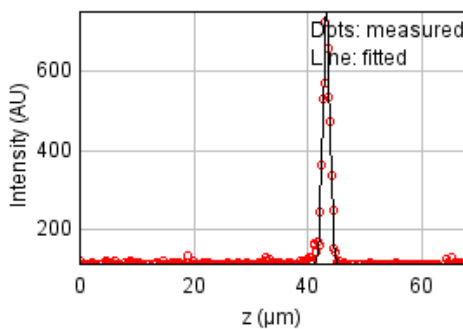
$b = 0.062$ px

$c = 0.459$ px

$x_c = 5.973$ px

$y_c = 6.327$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 35963.6904

Standard deviation: 10.82338

$R^2: 0.98213$

Parameters:

$a = 113.03411$

$b = 752.29526$

$c = 43.30380$

$d = 0.62037$

Bead 1926

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

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

Frame size : 10 pixels

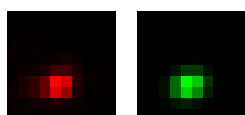
Coordinates : -93.4 μm (x), 2.78 μm (y), 43.4 μm (z)

Corresponding bead : Not found

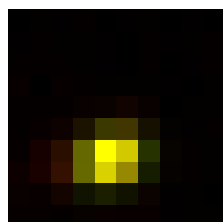
FWHM	Non corrected	Corrected	Theoretical
min	389 nm	402 nm	223 nm
max	498 nm	515 nm	223 nm
z	1.2 μm	1.2 μm	885 nm
Asymmetry	0.781		
Theta	17.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1619.204$ (brightness)

$B = 127.422$ (background)

$a = 0.570$ px

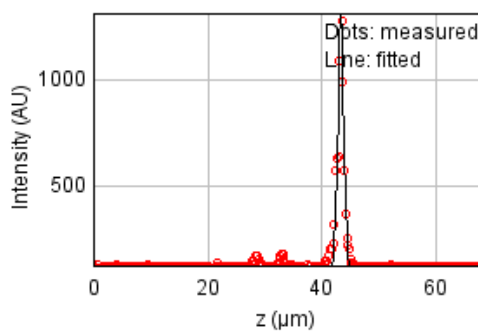
$b = 0.097$ px

$c = 0.857$ px

$x_c = 4.228$ px

$y_c = 6.360$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 251919.747

Standard deviation: 28.64586

$R^2: 0.95787$

Parameters:

$a = 117.38047$

$b = 1315.52902$

$c = 43.37325$

$d = 0.50872$

Bead 1927

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

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

Frame size : 10 pixels

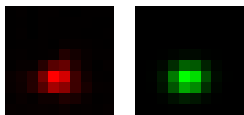
Coordinates : -35.8 μm (x), -11.3 μm (y), 43.3 μm (z)

Corresponding bead : Not found

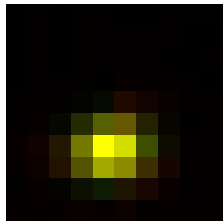
FWHM	Non corrected	Corrected	Theoretical
min	438 nm	453 nm	223 nm
max	549 nm	568 nm	223 nm
z	974 nm	978 nm	885 nm
Asymmetry	0.798		
Theta	6.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1622.606 (brightness)

B = 124.563 (background)

a = 0.448 px

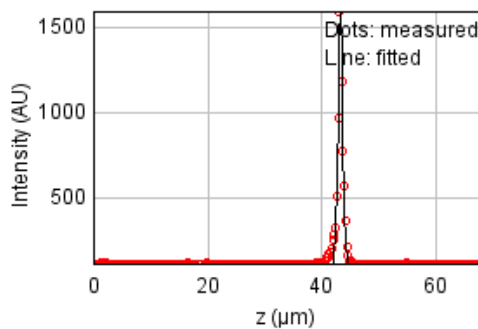
b = 0.028 px

c = 0.695 px

$x_c = 4.327$ px

$y_c = 6.189$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 173992.128

Standard deviation: 23.80650

R^2 : 0.97624

Parameters:

a = 116.24011

b = 1596.75384

c = 43.29367

d = 0.41379

Bead 1928

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

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

Frame size : 10 pixels

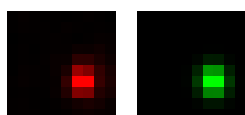
Coordinates : 101 um (x), -19.8 um (y), 42.8 um (z)

Corresponding bead : Not found

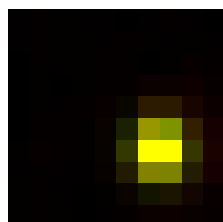
FWHM	Non corrected	Corrected	Theoretical
min	418 nm	433 nm	223 nm
max	472 nm	488 nm	223 nm
z	1.36 um	1.36 um	885 nm
Asymmetry	0.887		
Theta	-87.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1490.495 (brightness)

B = 123.195 (background)

a = 0.766 px

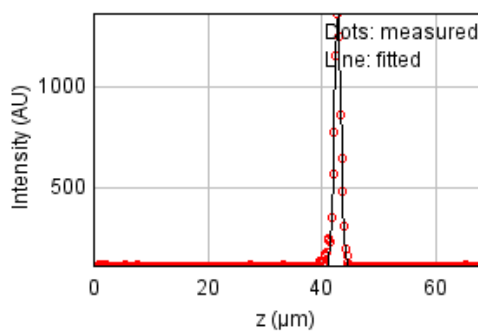
b = -0.008 px

c = 0.604 px

xc = 6.495 px

yc = 5.944 px

Z profile & fitting parameters:



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

Sum of residuals squared: 73225.6618

Standard deviation: 15.44410

R^2 : 0.98981

Parameters:

a = 113.89743

b = 1370.00230

c = 42.82957

d = 0.57677

Bead 1929

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

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

Frame size : 10 pixels

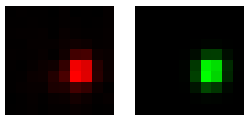
Coordinates : -129 μm (x), -22.8 μm (y), 43.2 μm (z)

Corresponding bead : Not found

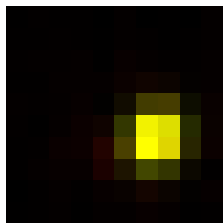
FWHM	Non corrected	Corrected	Theoretical
min	408 nm	422 nm	223 nm
max	453 nm	468 nm	223 nm
z	1.04 μm	1.04 μm	885 nm
Asymmetry	0.901		
Theta	69.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1511.838 (brightness)

B = 123.486 (background)

a = 0.786 px

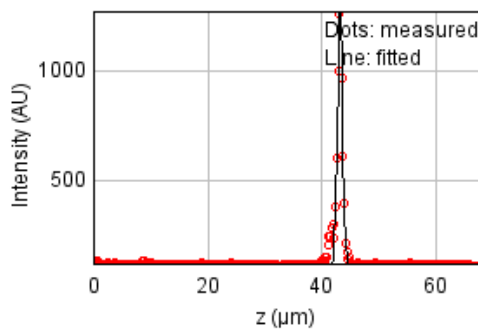
b = 0.050 px

c = 0.672 px

xc = 6.413 px

yc = 5.511 px

Z profile & fitting parameters:



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

Sum of residuals squared: 121667.089

Standard deviation: 19.90753

R^2 : 0.97584

Parameters:

a = 114.86393

b = 1303.67087

c = 43.22730

d = 0.44178

Bead 1930

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

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

Frame size : 10 pixels

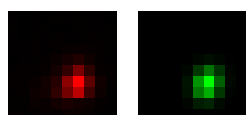
Coordinates : -114 μm (x), -35.7 μm (y), 43.0 μm (z)

Corresponding bead : Not found

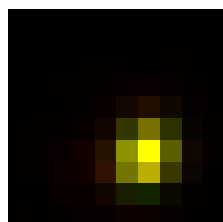
FWHM	Non corrected	Corrected	Theoretical
min	408 nm	422 nm	223 nm
max	483 nm	500 nm	223 nm
z	1.32 μm	1.32 μm	885 nm
Asymmetry	0.845		
Theta	67.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1763.131$ (brightness)

$B = 131.773$ (background)

$a = 0.772$ px

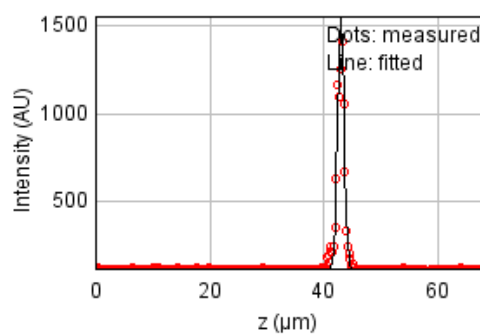
$b = 0.081$ px

$c = 0.607$ px

$x_c = 5.839$ px

$y_c = 6.204$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 298291.907

Standard deviation: 31.17106

$R^2: 0.96850$

Parameters:

$a = 113.69823$

$b = 1562.60046$

$c = 43.04544$

$d = 0.55850$

Bead 1931

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

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

Frame size : 10 pixels

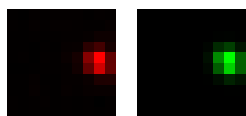
Coordinates : 110 μm (x), -54.9 μm (y), 61.3 μm (z)

Corresponding bead : Not found

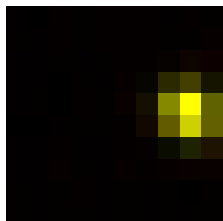
FWHM	Non corrected	Corrected	Theoretical
min	387 nm	400 nm	223 nm
max	437 nm	452 nm	223 nm
z	1.28 μm	1.28 μm	885 nm
Asymmetry	0.885		
Theta	-43.8°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.996$



Parameters:

$A = 1674.786$ (brightness)

$B = 118.795$ (background)

$a = 0.794$ px

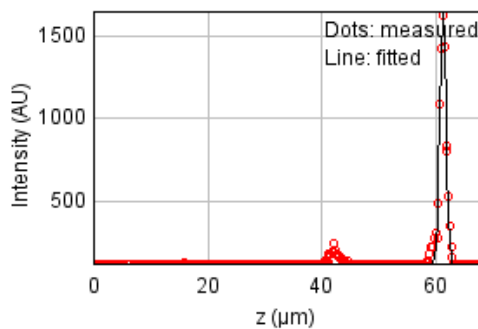
$b = -0.097$ px

$c = 0.802$ px

$x_c = 7.937$ px

$y_c = 4.363$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 284383.521

Standard deviation: 30.43568

$R^2: 0.97287$

Parameters:

$a = 118.48191$

$b = 1669.14117$

$c = 61.28457$

$d = 0.54169$

Bead 1932

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

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

Frame size : 10 pixels

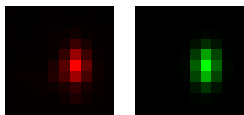
Coordinates : -68.4 μm (x), -61.8 μm (y), 42.5 μm (z)

Corresponding bead : Not found

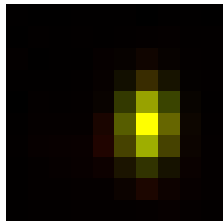
FWHM	Non corrected	Corrected	Theoretical
min	372 nm	385 nm	223 nm
max	565 nm	584 nm	223 nm
z	1.2 μm	1.21 μm	885 nm
Asymmetry	0.659		
Theta	87.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1581.448 (brightness)

B = 131.417 (background)

a = 0.967 px

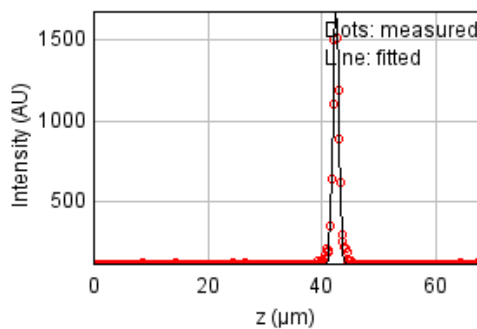
b = 0.023 px

c = 0.422 px

$x_c = 6.022$ px

$y_c = 5.039$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 100932.793

Standard deviation: 18.13205

R^2 : 0.98982

Parameters:

a = 115.08429

b = 1681.26549

c = 42.51271

d = 0.51024

Bead 1933

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

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

Frame size : 10 pixels

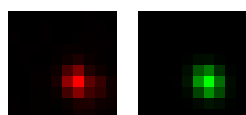
Coordinates : 43.3 μm (x), -68.4 μm (y), 43.0 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	413 nm	427 nm	223 nm
max	473 nm	489 nm	223 nm
z	1.22 μm	1.22 μm	885 nm
Asymmetry	0.873		
Theta	-50.8°		

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:

$A = 1752.876$ (brightness)

$B = 131.841$ (background)

$a = 0.712$ px

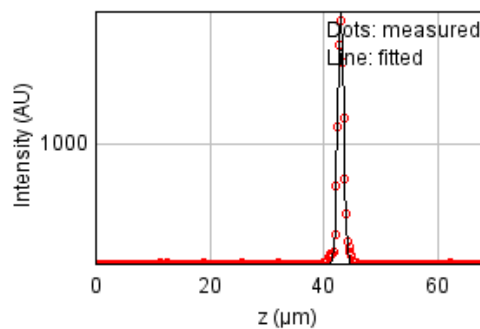
$b = -0.091$ px

$c = 0.675$ px

$x_c = 5.905$ px

$y_c = 6.050$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 89507.2689

Standard deviation: 17.07497

$R^2: 0.99397$

Parameters:

$a = 115.49229$

$b = 2024.28211$

$c = 43.01481$

$d = 0.51679$

Bead 1934

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

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

Frame size : 10 pixels

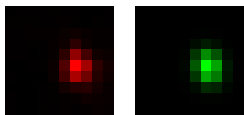
Coordinates : 94.9 μm (x), -88.2 μm (y), 42.8 μm (z)

Corresponding bead : Not found

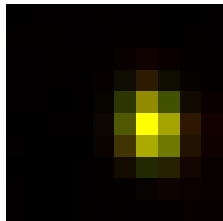
FWHM	Non corrected	Corrected	Theoretical
min	419 nm	433 nm	223 nm
max	519 nm	536 nm	223 nm
z	1.19 μm	1.19 μm	885 nm
Asymmetry	0.807		
Theta	-78.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1675.991$ (brightness)

$B = 128.784$ (background)

$a = 0.755$ px

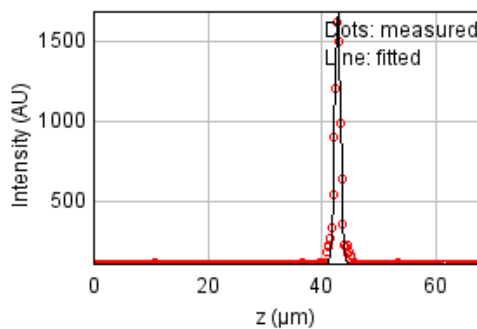
$b = -0.050$ px

$c = 0.508$ px

$x_c = 6.214$ px

$y_c = 5.119$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 111459.011

Standard deviation: 19.05410

$R^2: 0.98889$

Parameters:

$a = 114.49161$

$b = 1698.47067$

$c = 42.83570$

$d = 0.50398$

Bead 1935

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

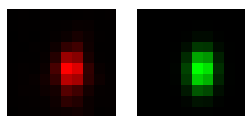
Coordinates : -25.2 μm (x), -88.7 μm (y), 42.8 μm (z)

Corresponding bead : Not found

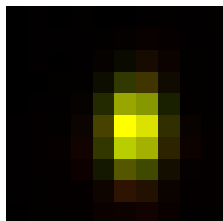
FWHM	Non corrected	Corrected	Theoretical
min	427 nm	442 nm	223 nm
max	643 nm	665 nm	223 nm
z	1.22 μm	1.23 μm	885 nm
Asymmetry	0.664		
Theta	88.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1765.540 (brightness)

B = 129.182 (background)

a = 0.735 px

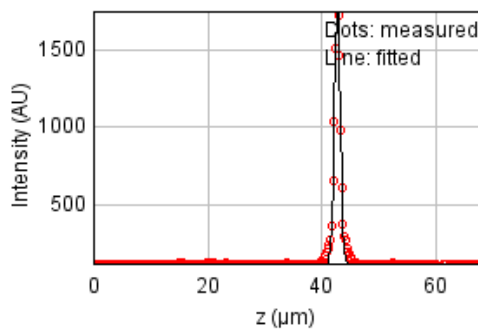
b = 0.013 px

c = 0.325 px

xc = 5.415 px

yc = 5.147 px

Z profile & fitting parameters:



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

Sum of residuals squared: 104300.644

Standard deviation: 18.43208

R^2 : 0.99071

Parameters:

a = 116.44097

b = 1770.34572

c = 42.77814

d = 0.51868

Bead 1936

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

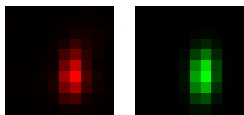
Coordinates : -18.7 μm (x), 90.2 μm (y), 43.2 μm (z)

Corresponding bead : Not found

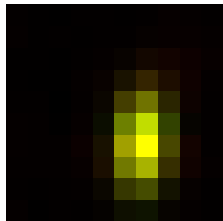
FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	733 nm	758 nm	223 nm
z	1.15 μm	1.16 μm	885 nm
Asymmetry	0.533		
Theta	86.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1382.890$ (brightness)

$B = 128.114$ (background)

$a = 0.877$ px

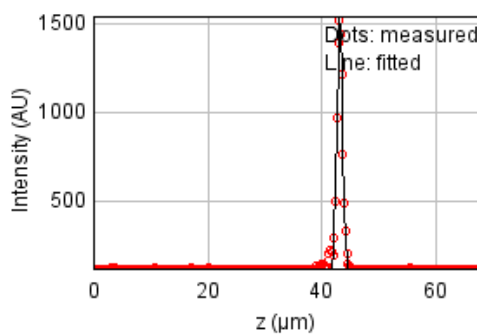
$b = 0.037$ px

$c = 0.252$ px

$x_c = 5.775$ px

$y_c = 5.828$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 69612.0432

Standard deviation: 15.05820

$R^2: 0.99131$

Parameters:

$a = 115.08098$

$b = 1552.31302$

$c = 43.19032$

$d = 0.48976$

Bead 1937

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

Coordinates : 53.6 μm (x), 52.5 μm (y), 43.4 μm (z)

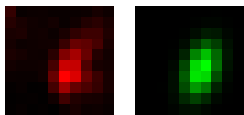
Corresponding bead : Not found



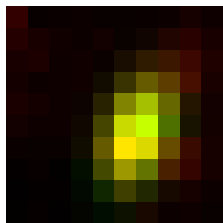
FWHM	Non corrected	Corrected	Theoretical
min	502 nm	519 nm	223 nm
max	840 nm	868 nm	223 nm
z	2.12 μm	2.12 μm	885 nm
Asymmetry	0.598		
Theta	70.6°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.905$



Parameters:

$A = 604.724$ (brightness)

$B = 150.906$ (background)

$a = 0.494$ px

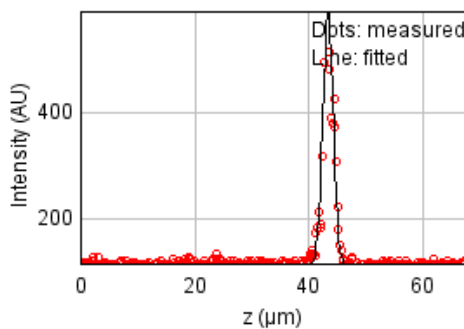
$b = 0.107$ px

$c = 0.228$ px

$x_c = 5.590$ px

$y_c = 5.324$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 114053.691

Standard deviation: 19.27460

$R^2: 0.93346$

Parameters:

$a = 113.33037$

$b = 594.95291$

$c = 43.42317$

$d = 0.89845$

Bead 1938

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

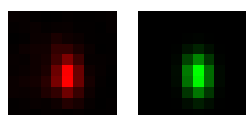
Coordinates : -120 μm (x), 41.7 μm (y), 43.0 μm (z)

Corresponding bead : Not found

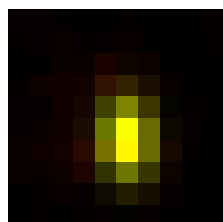
FWHM	Non corrected	Corrected	Theoretical
min	407 nm	421 nm	223 nm
max	624 nm	645 nm	223 nm
z	1.19 μm	1.19 μm	885 nm
Asymmetry	0.652		
Theta	-87.9°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 929.204$ (brightness)

$B = 127.562$ (background)

$a = 0.810$ px

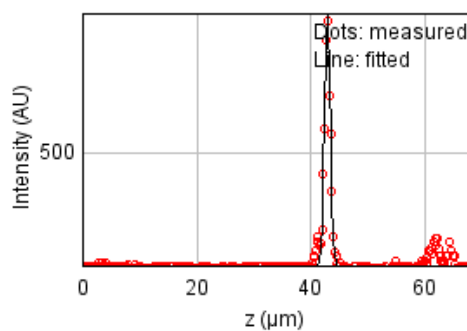
$b = -0.017$ px

$c = 0.345$ px

$x_c = 4.970$ px

$y_c = 5.442$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 133776.873

Standard deviation: 20.87475

$R^2: 0.95596$

Parameters:

$a = 119.62117$

$b = 975.73541$

$c = 42.96230$

$d = 0.50507$

Bead 1939

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

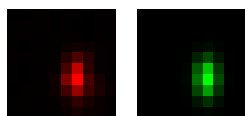
Coordinates : -2.22 μm (x), 6.85 μm (y), 42.9 μm (z)

Corresponding bead : Not found

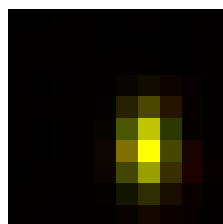
FWHM	Non corrected	Corrected	Theoretical
min	361 nm	373 nm	223 nm
max	601 nm	621 nm	223 nm
z	1.15 μm	1.16 μm	885 nm
Asymmetry	0.6		
Theta	-89.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1139.598 (brightness)

B = 119.806 (background)

a = 1.031 px

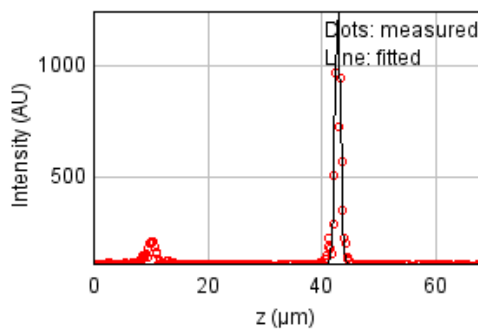
b = -0.002 px

c = 0.372 px

xc = 5.894 px

yc = 5.861 px

Z profile & fitting parameters:



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

Sum of residuals squared: 343858.207

Standard deviation: 33.46729

R^2 : 0.93364

Parameters:

a = 118.77050

b = 1240.19303

c = 42.85238

d = 0.49007

Bead 1940

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

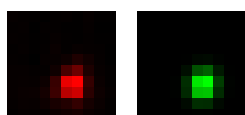
Coordinates : -53.3 μm (x), -9.09 μm (y), 42.8 μm (z)

Corresponding bead : Not found

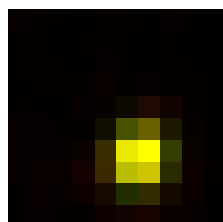
FWHM	Non corrected	Corrected	Theoretical
min	416 nm	430 nm	223 nm
max	467 nm	483 nm	223 nm
z	1.31 μm	1.31 μm	885 nm
Asymmetry	0.892		
Theta	76.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1280.062 (brightness)

B = 122.503 (background)

a = 0.765 px

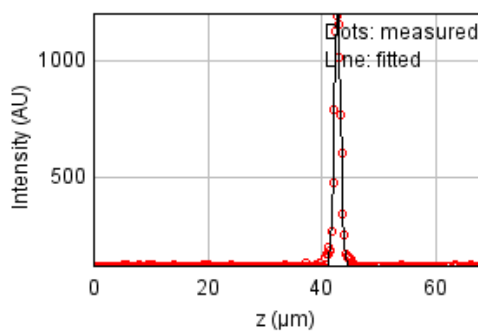
b = 0.036 px

c = 0.624 px

$x_c = 5.550$ px

$y_c = 6.313$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 52979.4129

Standard deviation: 13.13664

R^2 : 0.99022

Parameters:

a = 113.90568

b = 1225.17944

c = 42.79702

d = 0.55499

Bead 1941

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

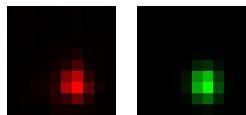
Coordinates : -123 μm (x), -15.8 μm (y), 42.9 μm (z)

Corresponding bead : Not found

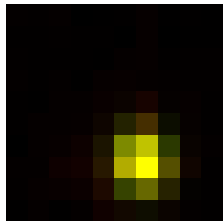
FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	480 nm	496 nm	223 nm
z	1.57 μm	1.57 μm	885 nm
Asymmetry	0.859		
Theta	-83.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1136.687$ (brightness)

$B = 123.105$ (background)

$a = 0.787$ px

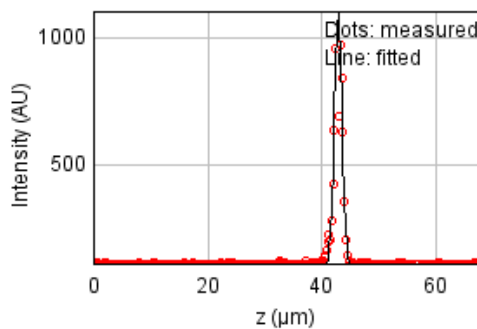
$b = -0.025$ px

$c = 0.586$ px

$x_c = 5.743$ px

$y_c = 6.722$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 235502.384

Standard deviation: 27.69673

$R^2: 0.95568$

Parameters:

$a = 111.53232$

$b = 1102.77050$

$c = 42.92371$

$d = 0.66461$

Bead 1942

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

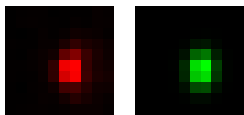
Coordinates : 90.3 μm (x), -36.2 μm (y), 42.8 μm (z)

Corresponding bead : Not found

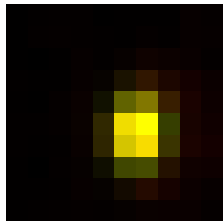
FWHM	Non corrected	Corrected	Theoretical
min	415 nm	429 nm	223 nm
max	542 nm	560 nm	223 nm
z	1.3 μm	1.31 μm	885 nm
Asymmetry	0.765		
Theta	86.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1161.291$ (brightness)

$B = 128.901$ (background)

$a = 0.779$ px

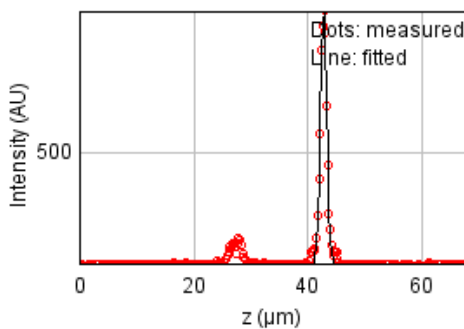
$b = 0.018$ px

$c = 0.458$ px

$x_c = 5.586$ px

$y_c = 5.354$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 94238.8905

Standard deviation: 17.52048

$R^2: 0.97213$

Parameters:

$a = 117.81128$

$b = 989.14895$

$c = 42.82762$

$d = 0.55351$

Bead 1943 (Rejected)

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

Coordinates : -81.9 μm (x), -53.2 μm (y), 43.8 μm (z)

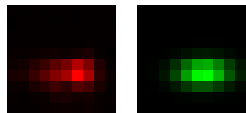
Corresponding bead : Not found

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

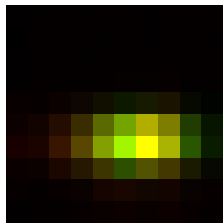
FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	829 nm	857 nm	223 nm
z	1.2 μm	1.21 μm	885 nm
Asymmetry	0.507		
Theta	0.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 836.181 (brightness)

B = 125.647 (background)

a = 0.195 px

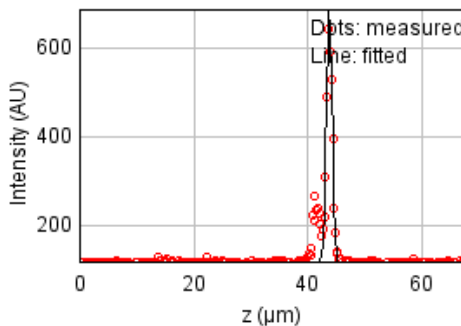
b = 0.009 px

c = 0.761 px

xc = 5.616 px

yc = 5.757 px

Z profile & fitting parameters:



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

Sum of residuals squared: 115839.580

Standard deviation: 19.42492

R^2 : 0.91798

Parameters:

a = 115.86228

b = 685.26357

c = 43.80303

d = 0.50996

Bead 1944

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

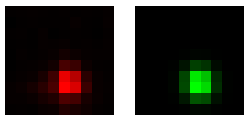
Coordinates : -69.2 μm (x), -65.0 μm (y), 43.2 μm (z)

Corresponding bead : Not found

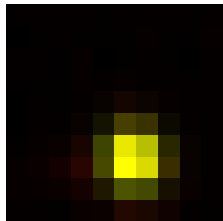
FWHM	Non corrected	Corrected	Theoretical
min	435 nm	450 nm	223 nm
max	472 nm	487 nm	223 nm
z	1.27 μm	1.28 μm	885 nm
Asymmetry	0.923		
Theta	-80.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1647.235 (brightness)

B = 127.001 (background)

a = 0.705 px

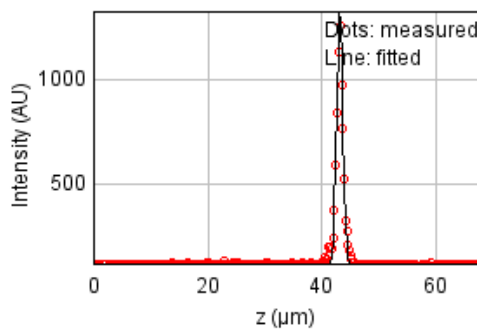
b = -0.017 px

c = 0.606 px

$x_c = 5.376$ px

$y_c = 6.588$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 90469.2875

Standard deviation: 17.16649

R^2 : 0.98590

Parameters:

a = 115.83617

b = 1339.05656

c = 43.18550

d = 0.54010

Bead 1945

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

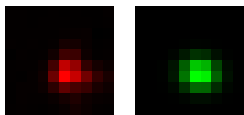
Coordinates : 32.2 μm (x), -94.5 μm (y), 43.3 μm (z)

Corresponding bead : Not found

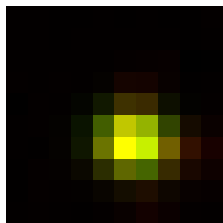
FWHM	Non corrected	Corrected	Theoretical
min	480 nm	497 nm	223 nm
max	561 nm	580 nm	223 nm
z	1.57 μm	1.58 μm	885 nm
Asymmetry	0.857		
Theta	-8.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1646.776$ (brightness)

$B = 130.708$ (background)

$a = 0.430$ px

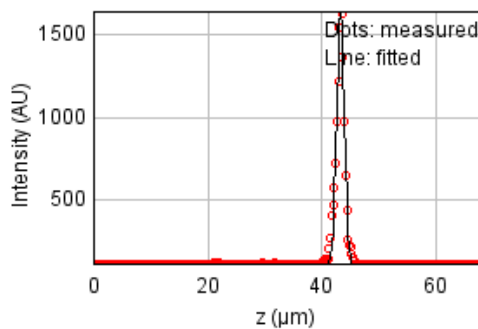
$b = -0.022$ px

$c = 0.578$ px

$x_c = 5.411$ px

$y_c = 5.731$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 166200.168

Standard deviation: 23.26733

$R^2: 0.98637$

Parameters:

$a = 115.86690$

$b = 1637.07245$

$c = 43.32598$

$d = 0.66841$

Bead 1946

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

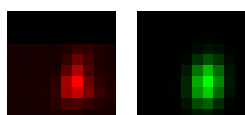
Coordinates : -466 nm (x), 96.6 um (y), 43.5 um (z)

Corresponding bead : Not found

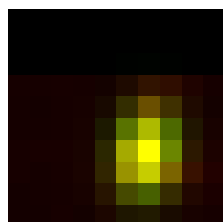
FWHM	Non corrected	Corrected	Theoretical
min	502 nm	518 nm	223 nm
max	711 nm	735 nm	223 nm
z	1.14 um	1.14 um	885 nm
Asymmetry	0.705		
Theta	82.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1196.067 (brightness)

B = 72.118 (background)

a = 0.528 px

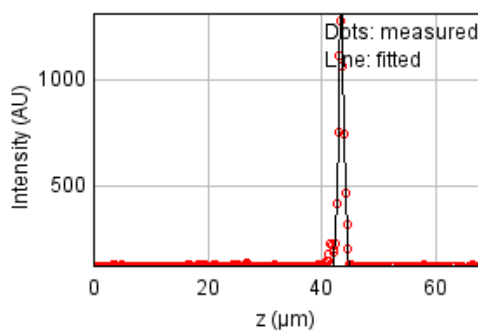
b = 0.036 px

c = 0.270 px

xc = 5.880 px

yc = 6.108 px

Z profile & fitting parameters:



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

Sum of residuals squared: 59961.2186

Standard deviation: 13.97546

R^2 : 0.98968

Parameters:

a = 117.54163

b = 1347.61778

c = 43.45416

d = 0.48392

Bead 1947

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

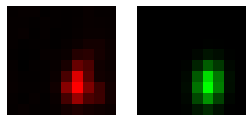
Coordinates : 20.0 μm (x), 59.2 μm (y), 43.7 μm (z)

Corresponding bead : Not found

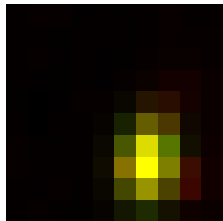
FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	624 nm	645 nm	223 nm
z	1.38 μm	1.39 μm	885 nm
Asymmetry	0.669		
Theta	83.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1141.509 (brightness)

B = 123.695 (background)

a = 0.765 px

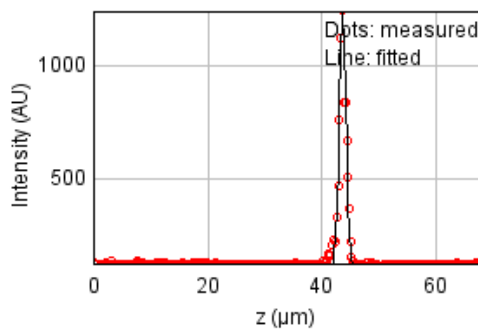
b = 0.045 px

c = 0.350 px

$x_c = 6.052$ 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: 211573.129

Standard deviation: 26.25192

R^2 : 0.96562

Parameters:

a = 116.25157

b = 1255.80985

c = 43.68692

d = 0.58592

Bead 1948

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

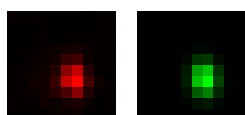
Coordinates : -94.9 μm (x), 14.8 μm (y), 43.4 μm (z)

Corresponding bead : Not found

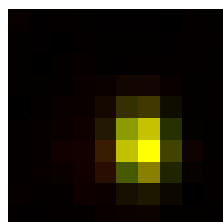
FWHM	Non corrected	Corrected	Theoretical
min	406 nm	419 nm	223 nm
max	527 nm	545 nm	223 nm
z	1.61 μm	1.62 μm	885 nm
Asymmetry	0.77		
Theta	-84.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1159.276 (brightness)

B = 126.408 (background)

a = 0.812 px

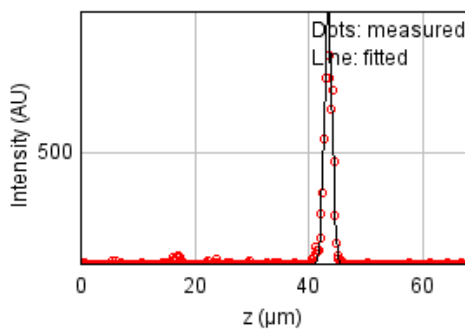
b = -0.032 px

c = 0.487 px

xc = 5.665 px

yc = 5.763 px

Z profile & fitting parameters:



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

Sum of residuals squared: 161080.085

Standard deviation: 22.90613

R^2 : 0.96282

Parameters:

a = 113.81493

b = 998.94873

c = 43.43335

d = 0.68537

Bead 1949

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

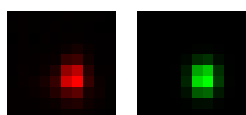
Coordinates : -41.2 μm (x), -8.74 μm (y), 43.4 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	405 nm	419 nm	223 nm
max	483 nm	499 nm	223 nm
z	1.2 μm	1.2 μm	885 nm
Asymmetry	0.839		
Theta	86.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1733.775$ (brightness)

$B = 129.684$ (background)

$a = 0.816$ px

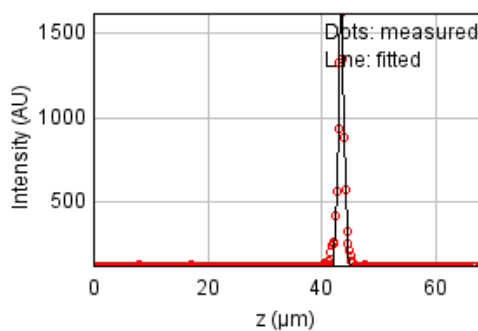
$b = 0.016$ px

$c = 0.577$ px

$x_c = 5.604$ px

$y_c = 5.728$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 83587.5975

Standard deviation: 16.50068

$R^2: 0.99115$

Parameters:

$a = 115.69778$

$b = 1649.45669$

$c = 43.44198$

$d = 0.50769$

Bead 1950

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

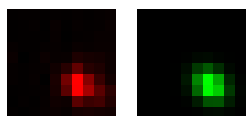
Coordinates : 55.3 μm (x), -8.91 μm (y), 43.8 μm (z)

Corresponding bead : Not found

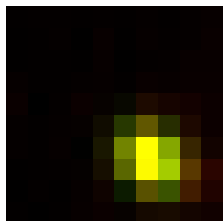
FWHM	Non corrected	Corrected	Theoretical
min	451 nm	466 nm	223 nm
max	555 nm	574 nm	223 nm
z	1.57 μm	1.58 μm	885 nm
Asymmetry	0.812		
Theta	-43.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 824.797 (brightness)

B = 122.018 (background)

a = 0.544 px

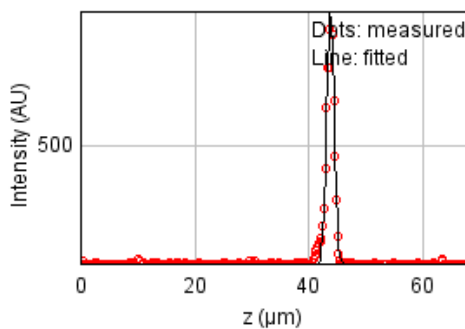
b = -0.112 px

c = 0.552 px

xc = 6.217 px

yc = 6.522 px

Z profile & fitting parameters:



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

Sum of residuals squared: 64233.9229

Standard deviation: 14.46482

R^2 : 0.98207

Parameters:

a = 113.94807

b = 937.11074

c = 43.82857

d = 0.66767

Bead 1951

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

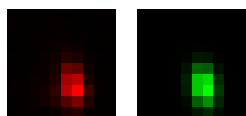
Coordinates : -60.1 μm (x), 85.9 μm (y), 43.8 μm (z)

Corresponding bead : Not found

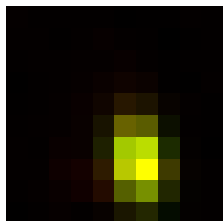
FWHM	Non corrected	Corrected	Theoretical
min	390 nm	404 nm	223 nm
max	619 nm	640 nm	223 nm
z	1.33 μm	1.34 μm	885 nm
Asymmetry	0.631		
Theta	-81.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1313.508 (brightness)

B = 125.044 (background)

a = 0.868 px

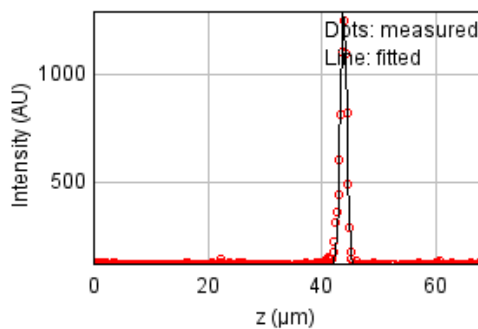
b = -0.078 px

c = 0.362 px

xc = 5.609 px

yc = 6.620 px

Z profile & fitting parameters:



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

Sum of residuals squared: 86857.8274

Standard deviation: 16.82036

R^2 : 0.98615

Parameters:

a = 115.87947

b = 1297.84927

c = 43.84683

d = 0.56635

Bead 1952

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

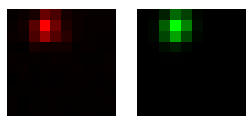
Coordinates : 64.9 μm (x), 82.7 μm (y), 61.5 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	459 nm	475 nm	223 nm
z	1.23 μm	1.23 μm	885 nm
Asymmetry	0.851		
Theta	65.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1138.577$ (brightness)

$B = 115.639$ (background)

$a = 0.839$ px

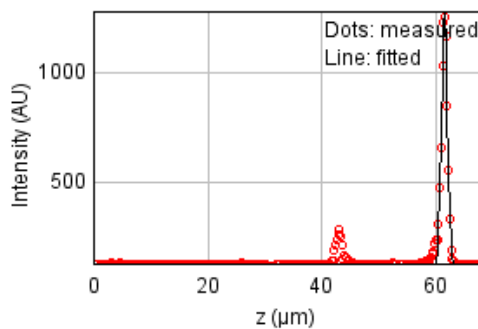
$b = 0.091$ px

$c = 0.678$ px

$x_c = 3.088$ px

$y_c = 1.150$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 156832.717

Standard deviation: 22.60212

$R^2: 0.97289$

Parameters:

$a = 118.42970$

$b = 1292.30286$

$c = 61.53770$

$d = 0.52110$

Bead 1953

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

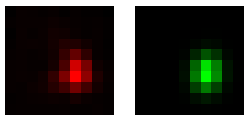
Coordinates : -114 μm (x), 79.1 μm (y), 43.8 μm (z)

Corresponding bead : Not found

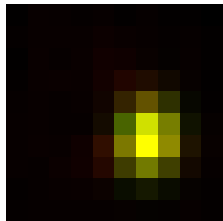
FWHM	Non corrected	Corrected	Theoretical
min	441 nm	456 nm	223 nm
max	555 nm	573 nm	223 nm
z	1.43 μm	1.44 μm	885 nm
Asymmetry	0.795		
Theta	84.7°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1227.211$ (brightness)

$B = 130.463$ (background)

$a = 0.688$ px

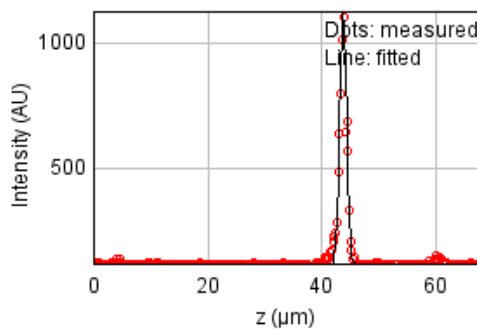
$b = 0.024$ px

$c = 0.438$ px

$x_c = 6.063$ px

$y_c = 5.649$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 179120.089

Standard deviation: 24.15477

$R^2: 0.96452$

Parameters:

$a = 115.07952$

$b = 1129.06388$

$c = 43.78514$

$d = 0.60707$

Bead 1954

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

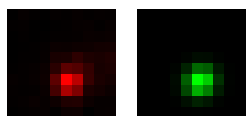
Coordinates : 159 um (x), 52.8 um (y), 43.4 um (z)

Corresponding bead : Not found

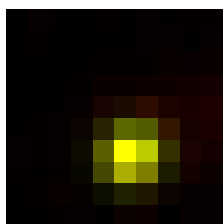
FWHM	Non corrected	Corrected	Theoretical
min	444 nm	459 nm	223 nm
max	482 nm	498 nm	223 nm
z	1.38 um	1.38 um	885 nm
Asymmetry	0.921		
Theta	36.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 863.400 (brightness)

B = 124.207 (background)

a = 0.615 px

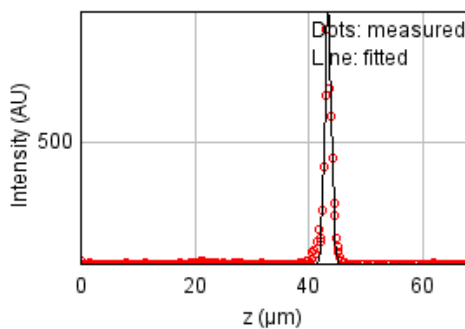
b = 0.050 px

c = 0.645 px

xc = 5.301 px

yc = 6.181 px

Z profile & fitting parameters:



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

Sum of residuals squared: 69534.4579

Standard deviation: 15.04980

R^2 : 0.97760

Parameters:

a = 112.06666

b = 927.40675

c = 43.42212

d = 0.58435

Bead 1955

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

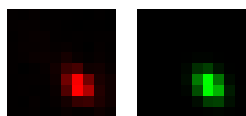
Coordinates : 144 μm (x), -51.6 μm (y), 43.6 μm (z)

Corresponding bead : Not found

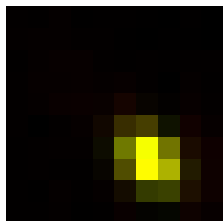
FWHM	Non corrected	Corrected	Theoretical
min	373 nm	386 nm	223 nm
max	507 nm	524 nm	223 nm
z	1.48 μm	1.48 μm	885 nm
Asymmetry	0.736		
Theta	-48.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1243.001 (brightness)

B = 120.381 (background)

a = 0.768 px

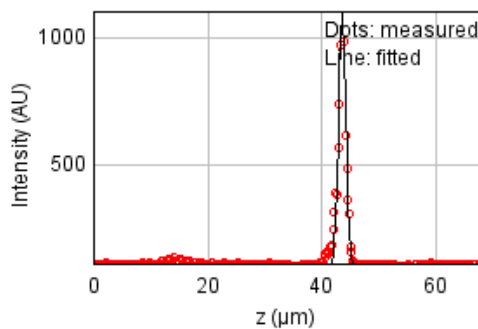
b = -0.220 px

c = 0.719 px

$x_c = 6.139$ px

$y_c = 6.532$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 127013.628

Standard deviation: 20.34024

R^2 : 0.97410

Parameters:

a = 114.35774

b = 1103.65146

c = 43.62303

d = 0.62642

Bead 1956

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

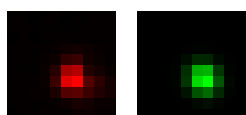
Coordinates : 40.6 μm (x), -80.5 μm (y), 43.4 μm (z)

Corresponding bead : Not found

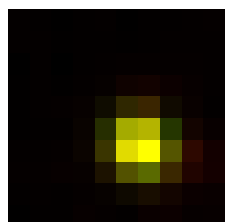
FWHM	Non corrected	Corrected	Theoretical
min	446 nm	461 nm	223 nm
max	485 nm	501 nm	223 nm
z	1.21 μm	1.21 μm	885 nm
Asymmetry	0.92		
Theta	-49.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1177.423$ (brightness)

$B = 124.852$ (background)

$a = 0.631$ px

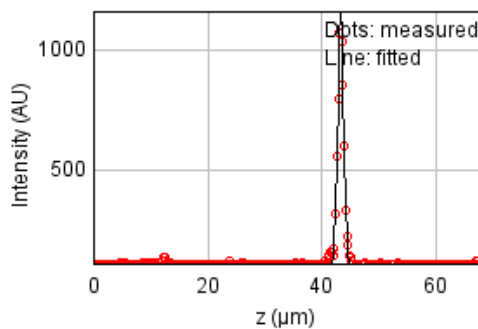
$b = -0.051$ px

$c = 0.614$ px

$x_c = 5.604$ px

$y_c = 5.751$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 29439.3396

Standard deviation: 9.79253

$R^2: 0.99331$

Parameters:

$a = 115.26835$

$b = 1158.34792$

$c = 43.35449$

$d = 0.51246$

Bead 1957

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

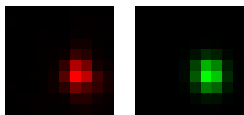
Coordinates : 6.01 μm (x), -85.5 μm (y), 43.4 μm (z)

Corresponding bead : Not found

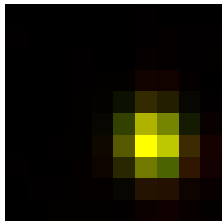
FWHM	Non corrected	Corrected	Theoretical
min	452 nm	467 nm	223 nm
max	496 nm	512 nm	223 nm
z	1.34 μm	1.35 μm	885 nm
Asymmetry	0.912		
Theta	-77.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1791.459 (brightness)

B = 129.581 (background)

a = 0.651 px

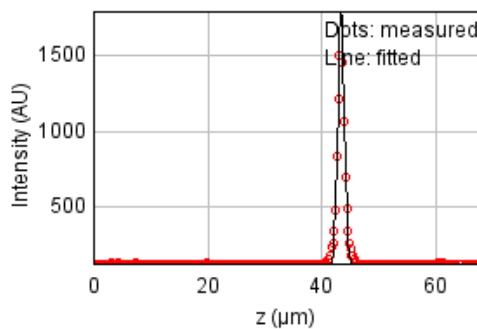
b = -0.023 px

c = 0.551 px

$x_c = 6.304$ px

$y_c = 5.837$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 92126.5012

Standard deviation: 17.32300

R^2 : 0.99285

Parameters:

a = 116.07096

b = 1811.72851

c = 43.42243

d = 0.56926

Bead 1958

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

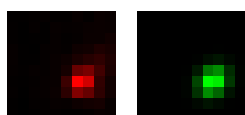
Coordinates : 148 μm (x), 83.6 μm (y), 43.5 μm (z)

Corresponding bead : Not found

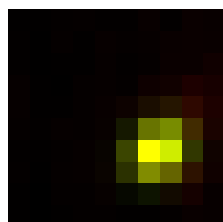
FWHM	Non corrected	Corrected	Theoretical
min	403 nm	417 nm	223 nm
max	489 nm	506 nm	223 nm
z	1.63 μm	1.63 μm	885 nm
Asymmetry	0.824		
Theta	44.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 799.153 (brightness)

B = 118.503 (background)

a = 0.690 px

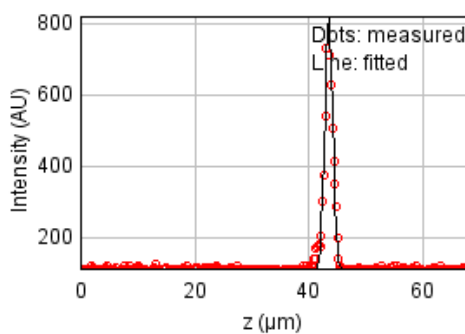
b = 0.132 px

c = 0.695 px

xc = 6.450 px

yc = 5.982 px

Z profile & fitting parameters:



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

Sum of residuals squared: 50659.5978

Standard deviation: 12.84582

R^2 : 0.98141

Parameters:

a = 111.96315

b = 818.21541

c = 43.54372

d = 0.69062

Bead 1959 (Rejected)

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

Coordinates : -91.9 μm (x), 59.3 μm (y), 61.5 μm (z)

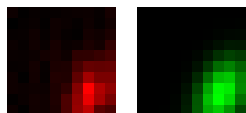
Corresponding bead : Not found

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

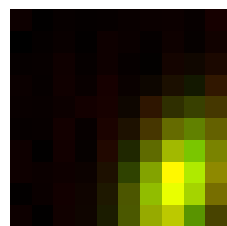
FWHM	Non corrected	Corrected	Theoretical
min	707 nm	731 nm	223 nm
max	1.14 μm	1.18 μm	223 nm
z	1.49 μm	1.5 μm	885 nm
Asymmetry	0.621		
Theta	65.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 259.802 (brightness)

B = 113.833 (background)

a = 0.240 px

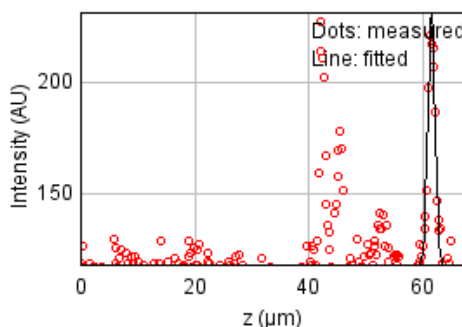
b = 0.062 px

c = 0.132 px

xc = 7.255 px

yc = 7.484 px

Z profile & fitting parameters:



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

Sum of residuals squared: 76075.3239

Standard deviation: 15.74174

R^2 : 0.45853

Parameters:

a = 117.79404

b = 232.08976

c = 61.54692

d = 0.63308

Bead 1960

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

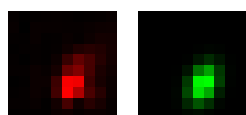
Coordinates : 111 μm (x), 57.8 μm (y), 43.6 μm (z)

Corresponding bead : Not found

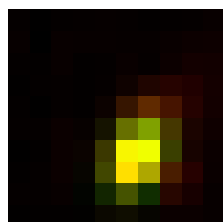
FWHM	Non corrected	Corrected	Theoretical
min	410 nm	424 nm	223 nm
max	604 nm	624 nm	223 nm
z	1.67 μm	1.68 μm	885 nm
Asymmetry	0.679		
Theta	65.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 793.371 (brightness)

B = 129.045 (background)

a = 0.721 px

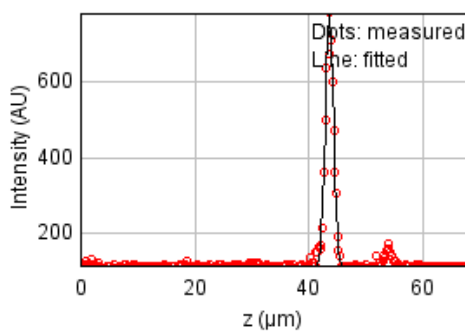
b = 0.164 px

c = 0.444 px

$x_c = 5.477$ px

$y_c = 6.212$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 54911.4582

Standard deviation: 13.37403

R^2 : 0.97822

Parameters:

a = 114.10835

b = 783.68644

c = 43.64943

d = 0.70896

Bead 1961

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

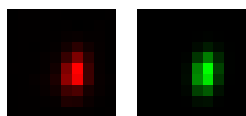
Coordinates : -32.6 μm (x), 14.6 μm (y), 43.7 μm (z)

Corresponding bead : Not found

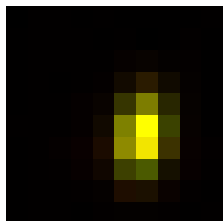
FWHM	Non corrected	Corrected	Theoretical
min	361 nm	373 nm	223 nm
max	579 nm	598 nm	223 nm
z	1.07 μm	1.07 μm	885 nm
Asymmetry	0.623		
Theta	82.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.991$



Parameters:

A = 2698.313 (brightness)

B = 132.229 (background)

a = 1.018 px

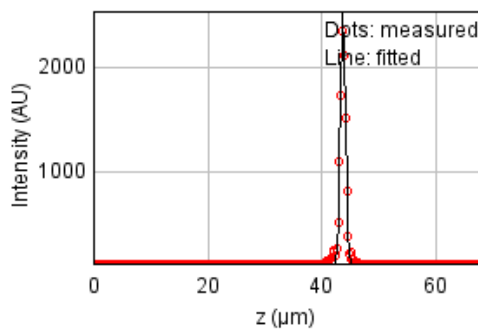
b = 0.087 px

c = 0.413 px

$x_c = 5.801$ px

$y_c = 5.410$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 88683.9020

Standard deviation: 16.99625

R^2 : 0.99577

Parameters:

a = 115.58621

b = 2536.75809

c = 43.73667

d = 0.45278

Bead 1962

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

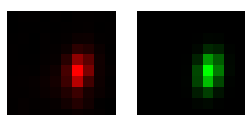
Coordinates : -45.3 μm (x), -26.4 μm (y), 43.4 μm (z)

Corresponding bead : Not found

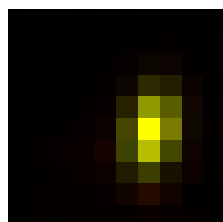
FWHM	Non corrected	Corrected	Theoretical
min	359 nm	371 nm	223 nm
max	589 nm	609 nm	223 nm
z	1.03 μm	1.04 μm	885 nm
Asymmetry	0.609		
Theta	79.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1632.434 (brightness)

B = 130.648 (background)

a = 1.018 px

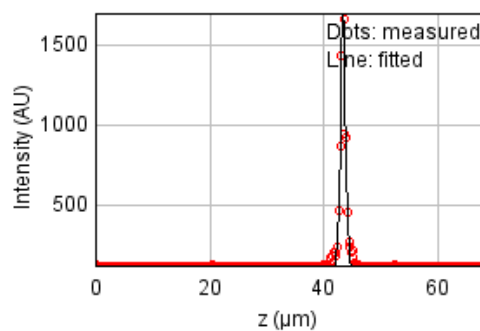
b = 0.118 px

c = 0.409 px

$x_c = 6.122$ px

$y_c = 5.098$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 199680.890

Standard deviation: 25.50346

R^2 : 0.97774

Parameters:

a = 115.18660

b = 1709.83250

c = 43.40754

d = 0.43808

Bead 1963

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

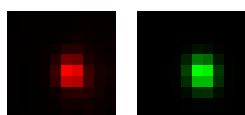
Coordinates : 78.9 μm (x), -51.1 μm (y), 43.7 μm (z)

Corresponding bead : Not found

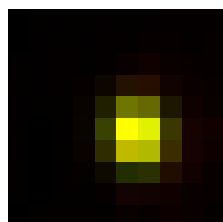
FWHM	Non corrected	Corrected	Theoretical
min	434 nm	449 nm	223 nm
max	497 nm	514 nm	223 nm
z	1.47 μm	1.48 μm	885 nm
Asymmetry	0.873		
Theta	-79.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1440.847$ (brightness)

$B = 131.011$ (background)

$a = 0.707$ px

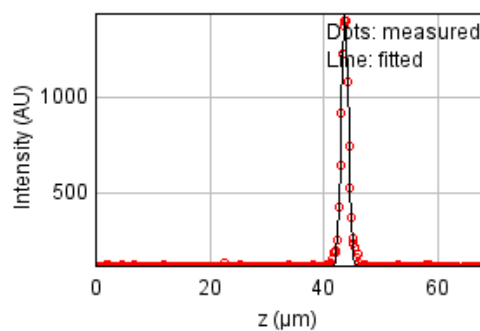
$b = -0.031$ px

$c = 0.549$ px

$x_c = 5.468$ px

$y_c = 5.234$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 56842.1963

Standard deviation: 13.60712

$R^2: 0.99347$

Parameters:

$a = 113.60823$

$b = 1445.88915$

$c = 43.73167$

$d = 0.62516$

Bead 1964

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

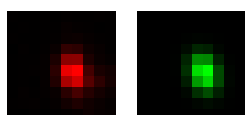
Coordinates : 38.2 μm (x), -89.8 μm (y), 43.7 μm (z)

Corresponding bead : Not found

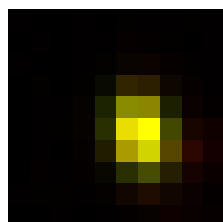
FWHM	Non corrected	Corrected	Theoretical
min	430 nm	445 nm	223 nm
max	584 nm	604 nm	223 nm
z	1.17 μm	1.17 μm	885 nm
Asymmetry	0.736		
Theta	-74.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1752.213 (brightness)

B = 128.467 (background)

a = 0.702 px

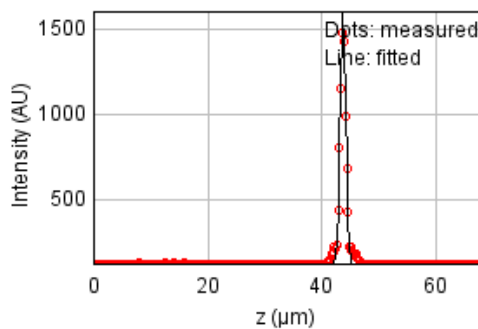
b = -0.085 px

c = 0.417 px

$x_c = 5.624$ px

$y_c = 5.196$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 76972.3580

Standard deviation: 15.83428

R^2 : 0.99118

Parameters:

a = 115.90983

b = 1605.08006

c = 43.74806

d = 0.49688

Bead 1965

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

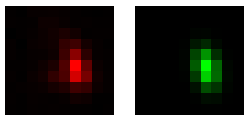
Coordinates : -83.8 μm (x), 95.9 μm (y), 43.9 μm (z)

Corresponding bead : Not found

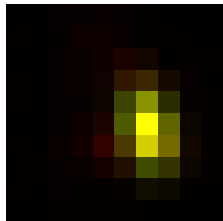
FWHM	Non corrected	Corrected	Theoretical
min	365 nm	377 nm	223 nm
max	612 nm	633 nm	223 nm
z	1.19 μm	1.19 μm	885 nm
Asymmetry	0.596		
Theta	-78.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1173.091$ (brightness)

$B = 134.007$ (background)

$a = 0.980$ px

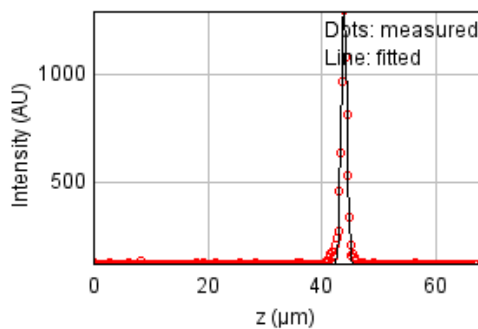
$b = -0.128$ px

$c = 0.384$ px

$x_c = 6.059$ px

$y_c = 5.237$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 51473.8795

Standard deviation: 12.94864

$R^2: 0.99083$

Parameters:

$a = 114.63622$

$b = 1301.48095$

$c = 43.93394$

$d = 0.50338$

Bead 1966

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

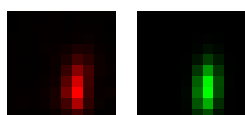
Coordinates : -33.5 μm (x), 91.6 μm (y), 44.1 μm (z)

Corresponding bead : Not found

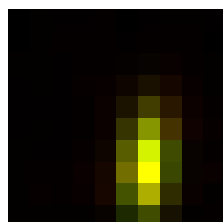
FWHM	Non corrected	Corrected	Theoretical
min	355 nm	367 nm	223 nm
max	792 nm	819 nm	223 nm
z	1.18 μm	1.19 μm	885 nm
Asymmetry	0.448		
Theta	86.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1436.226 (brightness)

B = 129.018 (background)

a = 1.062 px

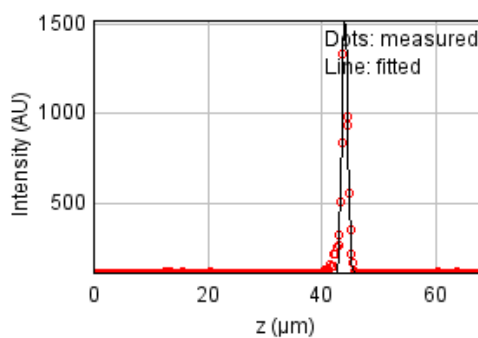
b = 0.051 px

c = 0.217 px

xc = 5.916 px

yc = 6.636 px

Z profile & fitting parameters:



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

Sum of residuals squared: 162925.030

Standard deviation: 23.03694

R^2 : 0.97997

Parameters:

a = 115.92099

b = 1537.56980

c = 44.08896

d = 0.50286

Bead 1967

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

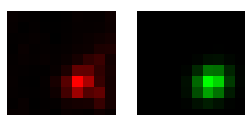
Coordinates : 106 μm (x), 71.3 μm (y), 43.9 μm (z)

Corresponding bead : Not found

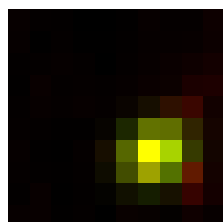
FWHM	Non corrected	Corrected	Theoretical
min	443 nm	458 nm	223 nm
max	518 nm	535 nm	223 nm
z	1.52 μm	1.53 μm	885 nm
Asymmetry	0.856		
Theta	31.1°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 567.119$ (brightness)

$B = 121.137$ (background)

$a = 0.549$ px

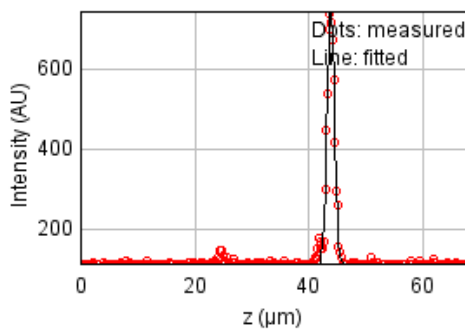
$b = 0.081$ px

$c = 0.634$ px

$x_c = 6.309$ px

$y_c = 6.100$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 31385.1395

Standard deviation: 10.11097

$R^2: 0.98501$

Parameters:

$a = 113.41865$

$b = 753.21820$

$c = 43.89526$

$d = 0.64708$

Bead 1968

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

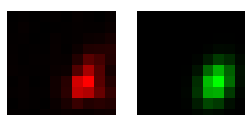
Coordinates : 50.3 μm (x), 55.0 μm (y), 44.6 μm (z)

Corresponding bead : Not found

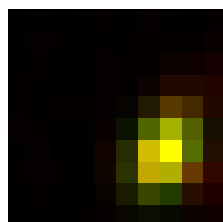
FWHM	Non corrected	Corrected	Theoretical
min	457 nm	473 nm	223 nm
max	654 nm	676 nm	223 nm
z	1.22 μm	1.22 μm	885 nm
Asymmetry	0.7		
Theta	64.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 984.320 (brightness)

B = 123.664 (background)

a = 0.582 px

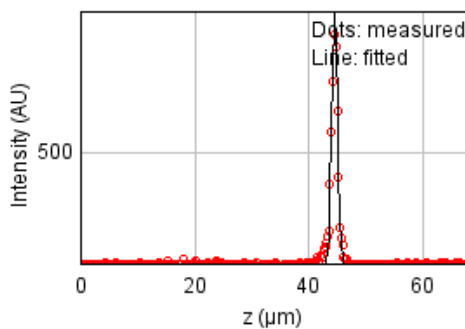
b = 0.126 px

c = 0.374 px

xc = 6.740 px

yc = 6.082 px

Z profile & fitting parameters:



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

Sum of residuals squared: 44399.0552

Standard deviation: 12.02590

R^2 : 0.98619

Parameters:

a = 113.90642

b = 998.09554

c = 44.59313

d = 0.51724

Bead 1969

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

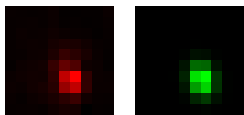
Coordinates : -141 μm (x), 48.1 μm (y), 43.8 μm (z)

Corresponding bead : Not found

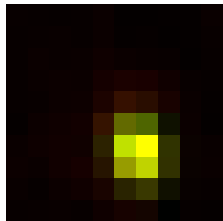
FWHM	Non corrected	Corrected	Theoretical
min	387 nm	400 nm	223 nm
max	499 nm	516 nm	223 nm
z	1.14 μm	1.14 μm	885 nm
Asymmetry	0.775		
Theta	-75.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 901.350$ (brightness)

$B = 128.576$ (background)

$a = 0.876$ px

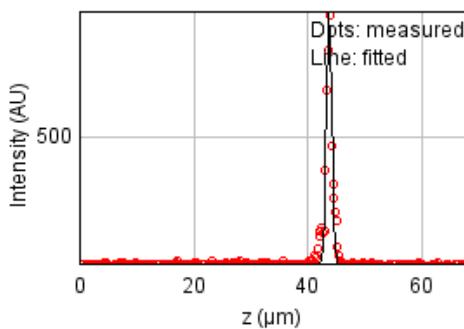
$b = -0.087$ px

$c = 0.561$ px

$x_c = 5.600$ px

$y_c = 6.266$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 108038.673

Standard deviation: 18.75946

$R^2: 0.95343$

Parameters:

$a = 113.47919$

$b = 877.76957$

$c = 43.76723$

$d = 0.48212$

Bead 1970

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

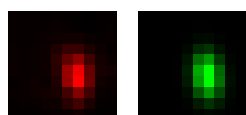
Coordinates : -140 μm (x), 36.4 μm (y), 44.1 μm (z)

Corresponding bead : Not found

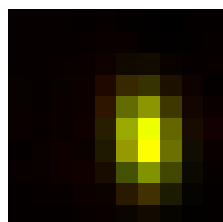
FWHM	Non corrected	Corrected	Theoretical
min	449 nm	464 nm	223 nm
max	709 nm	733 nm	223 nm
z	1.15 μm	1.16 μm	885 nm
Asymmetry	0.633		
Theta	-83.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1164.852 (brightness)

B = 136.004 (background)

a = 0.661 px

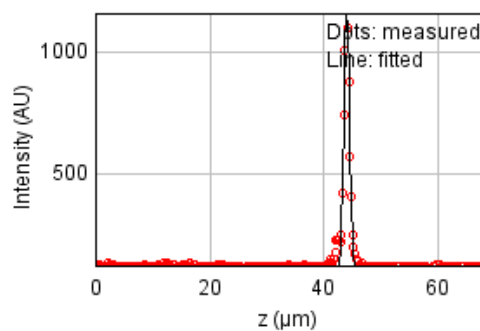
b = -0.043 px

c = 0.272 px

$x_c = 5.846$ px

$y_c = 5.462$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 67952.3527

Standard deviation: 14.87761

R^2 : 0.98437

Parameters:

a = 114.65685

b = 1169.65195

c = 44.06118

d = 0.48981

Bead 1971

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

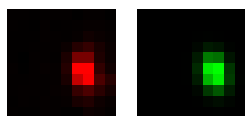
Coordinates : 16.6 μm (x), 6.53 μm (y), 44.1 μm (z)

Corresponding bead : Not found

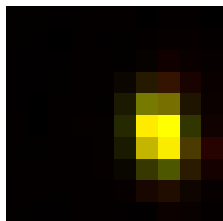
FWHM	Non corrected	Corrected	Theoretical
min	398 nm	412 nm	223 nm
max	555 nm	574 nm	223 nm
z	1.49 μm	1.5 μm	885 nm
Asymmetry	0.718		
Theta	-77.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1742.559 (brightness)

B = 129.166 (background)

a = 0.825 px

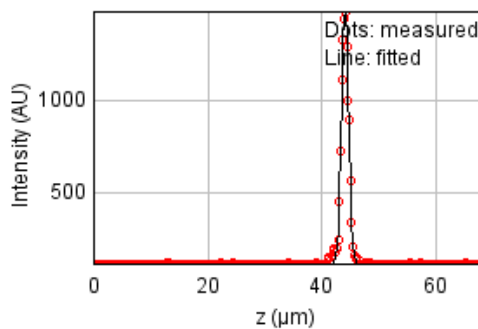
b = -0.089 px

c = 0.456 px

$x_c = 6.587$ px

$y_c = 5.329$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 63165.2766

Standard deviation: 14.34399

R^2 : 0.99333

Parameters:

a = 114.53481

b = 1493.59773

c = 44.12845

d = 0.63460

Bead 1972

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

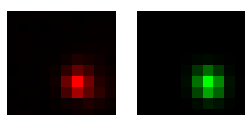
Coordinates : 78.1 μm (x), -2.46 μm (y), 44.3 μm (z)

Corresponding bead : Not found

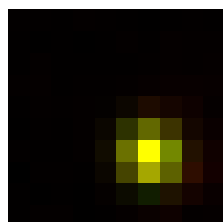
FWHM	Non corrected	Corrected	Theoretical
min	423 nm	438 nm	223 nm
max	457 nm	473 nm	223 nm
z	1.34 μm	1.35 μm	885 nm
Asymmetry	0.926		
Theta	-63.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1340.988 (brightness)

B = 131.021 (background)

a = 0.726 px

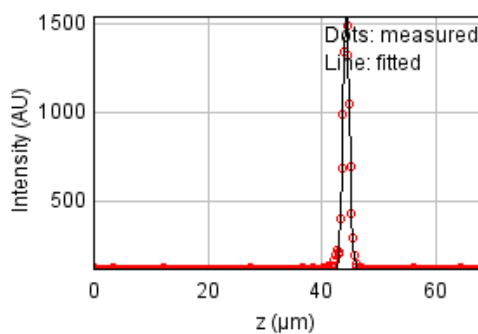
b = -0.043 px

c = 0.663 px

$x_c = 6.076$ px

$y_c = 6.184$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 41092.4395

Standard deviation: 11.56942

R^2 : 0.99562

Parameters:

a = 113.88315

b = 1561.79556

c = 44.33727

d = 0.56985

Bead 1973

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

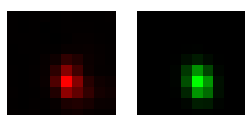
Coordinates : 42.9 μm (x), -51.5 μm (y), 44.0 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	386 nm	399 nm	223 nm
max	508 nm	525 nm	223 nm
z	1.37 μm	1.37 μm	885 nm
Asymmetry	0.76		
Theta	-72.8°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1862.181$ (brightness)

$B = 135.500$ (background)

$a = 0.866$ px

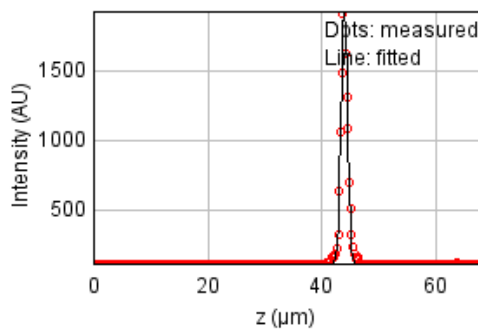
$b = -0.107$ px

$c = 0.553$ px

$x_c = 5.193$ px

$y_c = 6.049$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 142597.499

Standard deviation: 21.55196

$R^2: 0.99044$

Parameters:

$a = 115.51718$

$b = 1920.15671$

$c = 43.99004$

$d = 0.58073$

Bead 1974

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

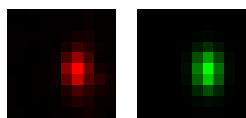
Coordinates : 28.8 μm (x), -93.8 μm (y), 43.8 μm (z)

Corresponding bead : Not found

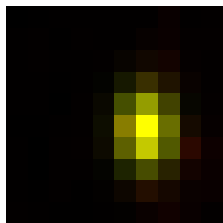
FWHM	Non corrected	Corrected	Theoretical
min	415 nm	429 nm	223 nm
max	607 nm	628 nm	223 nm
z	1.13 μm	1.14 μm	885 nm
Asymmetry	0.684		
Theta	-88.3°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1458.382$ (brightness)

$B = 130.286$ (background)

$a = 0.778$ px

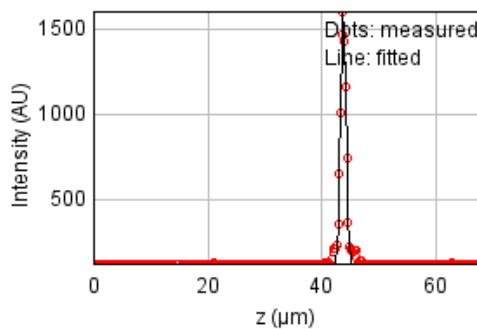
$b = -0.012$ px

$c = 0.365$ px

$x_c = 5.961$ px

$y_c = 5.167$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 77588.1709

Standard deviation: 15.89749

$R^2: 0.99084$

Parameters:

$a = 116.06497$

$b = 1607.72378$

$c = 43.80108$

$d = 0.48024$

Bead 1975

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

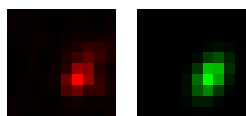
Coordinates : 120 µm (x), 67.8 µm (y), 43.8 µm (z)

Corresponding bead : Not found

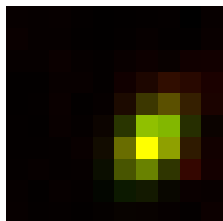
FWHM	Non corrected	Corrected	Theoretical
min	409 nm	423 nm	223 nm
max	627 nm	648 nm	223 nm
z	1.7 µm	1.71 µm	885 nm
Asymmetry	0.652		
Theta	56.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 597.987 (brightness)

B = 121.676 (background)

a = 0.662 px

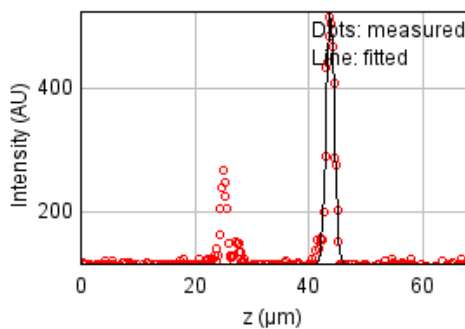
b = 0.212 px

c = 0.481 px

xc = 6.243 px

yc = 5.693 px

Z profile & fitting parameters:



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

Sum of residuals squared: 123656.581

Standard deviation: 20.06963

R^2 : 0.88255

Parameters:

a = 116.37411

b = 523.91423

c = 43.80238

d = 0.72162

Bead 1976 (Rejected)

Date : Mon Oct 17 13:29:18 PDT 2022

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

Frame size : 10 pixels

Coordinates : -92.2 μm (x), 59.6 μm (y), 61.5 μm (z)

Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.49 μm	1.5 μm	885 nm
Asymmetry	0.0		
Theta	0.0°		

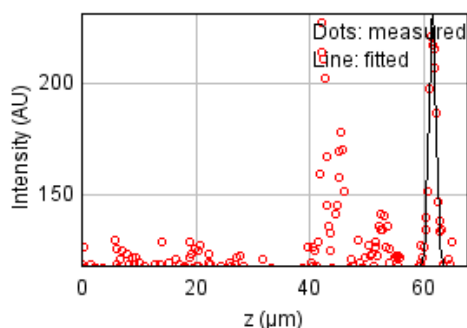
XY profile & fitting parameters :

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



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

Z profile & fitting parameters:



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

Sum of residuals squared: 76075.3239

Standard deviation: 15.74174

R²: 0.45853

Parameters:

a = 117.79404

b = 232.08976

c = 61.54692

d = 0.63308

Bead 1977

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

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

Frame size : 10 pixels

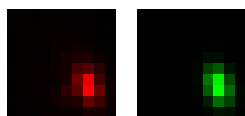
Coordinates : -92.8 μm (x), 59.5 μm (y), 44.0 μm (z)

Corresponding bead : Not found

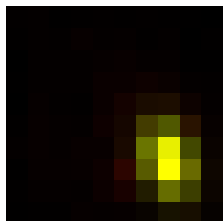
FWHM	Non corrected	Corrected	Theoretical
min	366 nm	378 nm	223 nm
max	568 nm	587 nm	223 nm
z	988 nm	992 nm	885 nm
Asymmetry	0.644		
Theta	-73.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1162.532 (brightness)

B = 130.425 (background)

a = 0.957 px

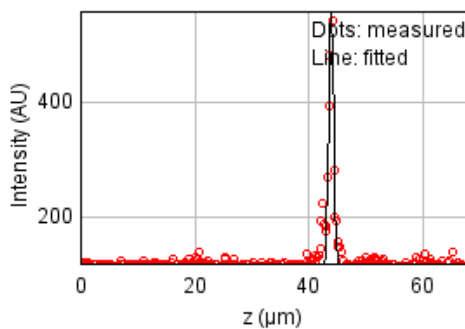
b = -0.159 px

c = 0.463 px

$x_c = 6.965$ px

$y_c = 6.563$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 55524.7329

Standard deviation: 13.44851

R^2 : 0.92124

Parameters:

a = 117.07198

b = 560.28298

c = 43.95997

d = 0.41958

Bead 1978

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

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

Frame size : 10 pixels

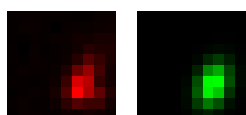
Coordinates : 47.2 um (x), 51.2 um (y), 44.5 um (z)

Corresponding bead : Not found

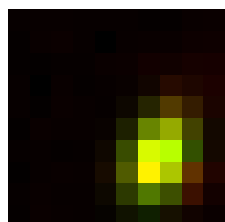
FWHM	Non corrected	Corrected	Theoretical
min	461 nm	477 nm	223 nm
max	679 nm	702 nm	223 nm
z	1.73 um	1.73 um	885 nm
Asymmetry	0.68		
Theta	69.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 797.851 (brightness)

B = 122.110 (background)

a = 0.589 px

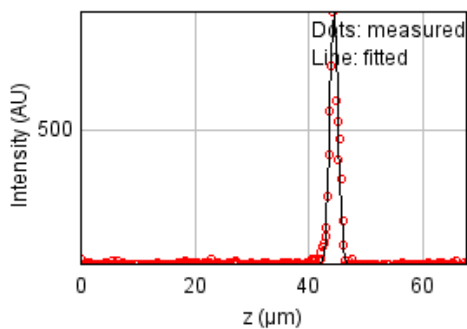
b = 0.111 px

c = 0.333 px

xc = 6.461 px

yc = 6.296 px

Z profile & fitting parameters:



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

Sum of residuals squared: 92899.1051

Standard deviation: 17.39549

R^2 : 0.97043

Parameters:

a = 113.46517

b = 846.02374

c = 44.46508

d = 0.73332

Bead 1979

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

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

Frame size : 10 pixels

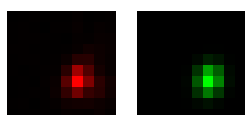
Coordinates : 12.6 μm (x), 21.1 μm (y), 44.4 μm (z)

Corresponding bead : Not found

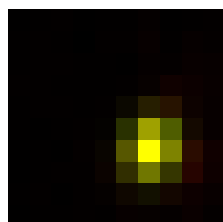
FWHM	Non corrected	Corrected	Theoretical
min	388 nm	402 nm	223 nm
max	472 nm	488 nm	223 nm
z	1.2 μm	1.21 μm	885 nm
Asymmetry	0.823		
Theta	77.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1398.291$ (brightness)

$B = 127.919$ (background)

$a = 0.876$ px

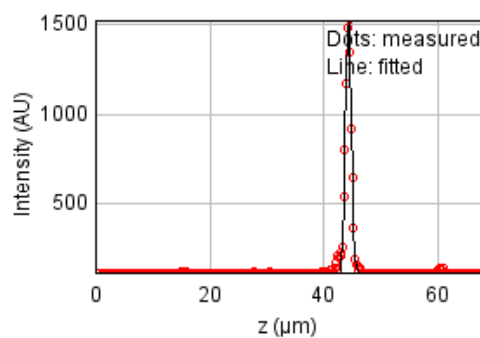
$b = 0.060$ px

$c = 0.615$ px

$x_c = 6.125$ px

$y_c = 5.864$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 61667.0193

Standard deviation: 14.17285

$R^2: 0.99239$

Parameters:

$a = 116.83744$

$b = 1533.62750$

$c = 44.37176$

$d = 0.51114$

Bead 1980

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

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

Frame size : 10 pixels

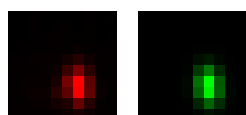
Coordinates : -61.2 μm (x), 6.73 μm (y), 44.4 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	377 nm	390 nm	223 nm
max	572 nm	592 nm	223 nm
z	1.25 μm	1.26 μm	885 nm
Asymmetry	0.659		
Theta	-84.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 2304.639 (brightness)

B = 133.405 (background)

a = 0.939 px

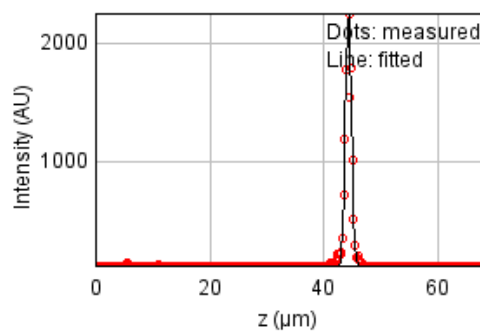
b = -0.050 px

c = 0.414 px

xc = 5.964 px

yc = 6.416 px

Z profile & fitting parameters:



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

Sum of residuals squared: 417285.053

Standard deviation: 36.86780

R^2 : 0.97885

Parameters:

a = 115.17081

b = 2269.73280

c = 44.37748

d = 0.53117

Bead 1981

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

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

Frame size : 10 pixels

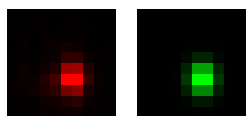
Coordinates : -77.6 μm (x), -8.12 μm (y), 44.3 μm (z)

Corresponding bead : Not found

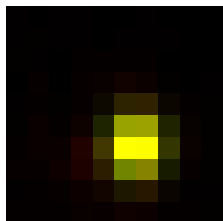
FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	493 nm	509 nm	223 nm
z	1.45 μm	1.45 μm	885 nm
Asymmetry	0.852		
Theta	-90.0°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1487.535$ (brightness)

$B = 132.082$ (background)

$a = 0.762$ px

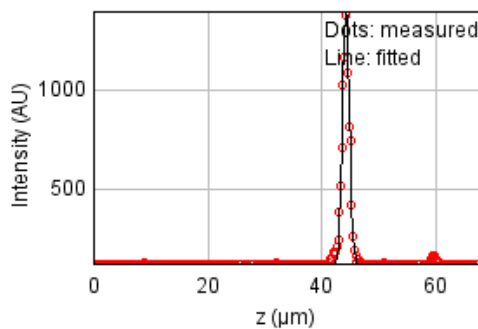
$b = -0.000$ px

$c = 0.553$ px

$x_c = 5.493$ px

$y_c = 5.906$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 136656.390

Standard deviation: 21.09822

$R^2: 0.98320$

Parameters:

$a = 115.24617$

$b = 1407.25524$

$c = 44.29181$

$d = 0.61424$

Bead 1982

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

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

Frame size : 10 pixels

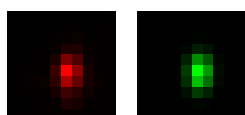
Coordinates : -29.2 μm (x), -30.2 μm (y), 44.1 μm (z)

Corresponding bead : Not found

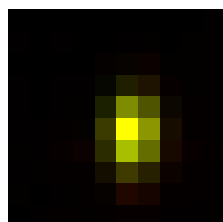
FWHM	Non corrected	Corrected	Theoretical
min	367 nm	379 nm	223 nm
max	546 nm	565 nm	223 nm
z	1.17 μm	1.17 μm	885 nm
Asymmetry	0.671		
Theta	88.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1851.274 (brightness)

B = 130.532 (background)

a = 0.998 px

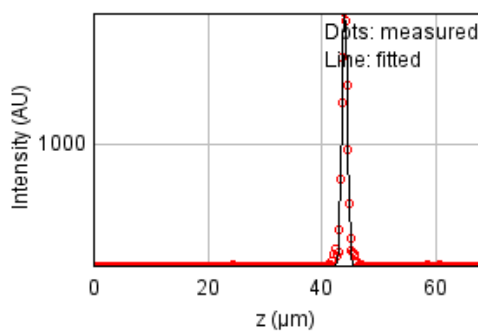
b = 0.012 px

c = 0.450 px

$x_c = 5.229$ px

$y_c = 5.167$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 84775.0859

Standard deviation: 16.61747

R^2 : 0.99369

Parameters:

a = 116.56798

b = 1969.12281

c = 44.05352

d = 0.49603

Bead 1983

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

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

Frame size : 10 pixels

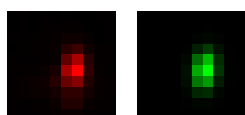
Coordinates : -47.6 μm (x), -62.2 μm (y), 43.8 μm (z)

Corresponding bead : Not found

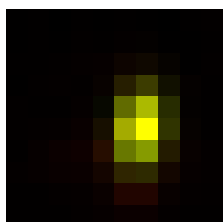
FWHM	Non corrected	Corrected	Theoretical
min	364 nm	377 nm	223 nm
max	579 nm	599 nm	223 nm
z	1.16 μm	1.17 μm	885 nm
Asymmetry	0.629		
Theta	82.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1614.411 (brightness)

B = 132.393 (background)

a = 1.001 px

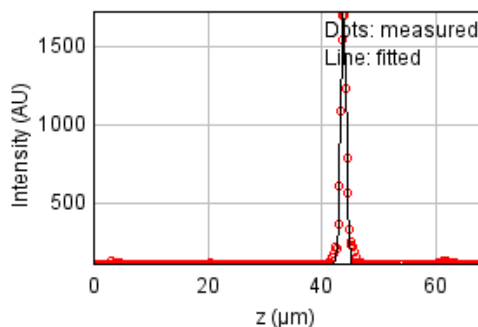
b = 0.075 px

c = 0.409 px

$x_c = 5.707$ px

$y_c = 4.943$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 106567.271

Standard deviation: 18.63128

R^2 : 0.98953

Parameters:

a = 117.19310

b = 1728.96459

c = 43.83250

d = 0.49398

Bead 1984

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

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

Frame size : 10 pixels

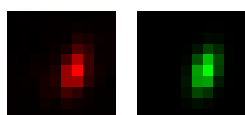
Coordinates : -122 μm (x), -81.0 μm (y), 44.0 μm (z)

Corresponding bead : Not found

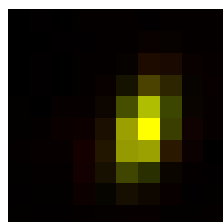
FWHM	Non corrected	Corrected	Theoretical
min	363 nm	376 nm	223 nm
max	658 nm	681 nm	223 nm
z	1.26 μm	1.26 μm	885 nm
Asymmetry	0.552		
Theta	71.4°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1164.778$ (brightness)

$B = 128.096$ (background)

$a = 0.945$ px

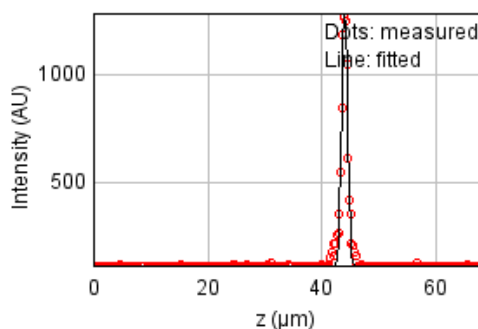
$b = 0.214$ px

$c = 0.381$ px

$x_c = 5.739$ px

$y_c = 5.035$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 94339.8986

Standard deviation: 17.52986

$R^2: 0.98380$

Parameters:

$a = 114.27667$

$b = 1285.76762$

$c = 44.04840$

$d = 0.53303$

Bead 1985

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

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

Frame size : 10 pixels

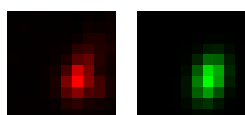
Coordinates : 39.0 μm (x), 56.2 μm (y), 44.7 μm (z)

Corresponding bead : Not found

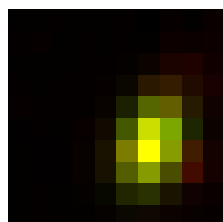
FWHM	Non corrected	Corrected	Theoretical
min	459 nm	474 nm	223 nm
max	685 nm	708 nm	223 nm
z	1.48 μm	1.49 μm	885 nm
Asymmetry	0.669		
Theta	71.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 965.230 (brightness)

B = 130.984 (background)

a = 0.603 px

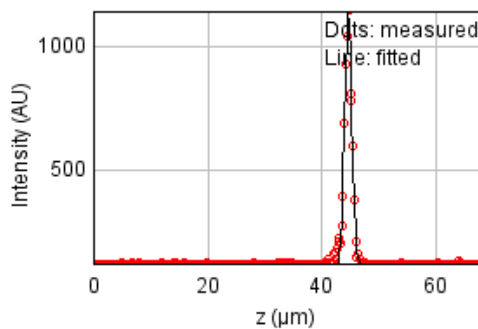
b = 0.105 px

c = 0.321 px

$x_c = 6.149$ px

$y_c = 5.673$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 85357.8733

Standard deviation: 16.67449

R^2 : 0.98392

Parameters:

a = 113.47517

b = 1144.77513

c = 44.70003

d = 0.63042

Bead 1986

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

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

Frame size : 10 pixels

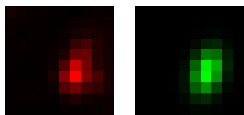
Coordinates : 52.4 μm (x), 53.3 μm (y), 44.6 μm (z)

Corresponding bead : Not found

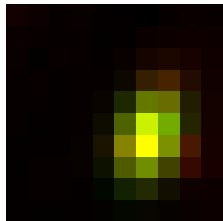
FWHM	Non corrected	Corrected	Theoretical
min	453 nm	468 nm	223 nm
max	688 nm	711 nm	223 nm
z	1.37 μm	1.37 μm	885 nm
Asymmetry	0.658		
Theta	71.2°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 671.437$ (brightness)

$B = 126.948$ (background)

$a = 0.616$ px

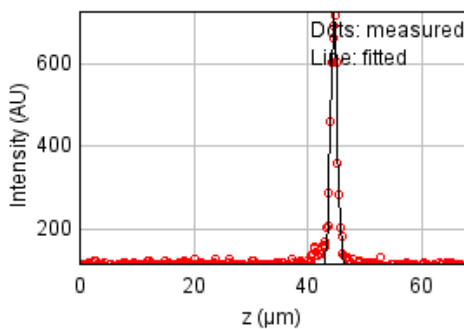
$b = 0.113$ px

$c = 0.322$ px

$x_c = 6.127$ px

$y_c = 5.542$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 42099.0150

Standard deviation: 11.71027

$R^2: 0.97597$

Parameters:

$a = 114.23596$

$b = 728.44148$

$c = 44.63892$

$d = 0.58006$

Bead 1987

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

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

Frame size : 10 pixels

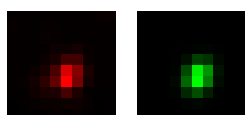
Coordinates : -70.6 μm (x), 31.6 μm (y), 44.5 μm (z)

Corresponding bead : Not found

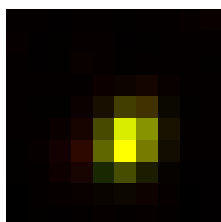
FWHM	Non corrected	Corrected	Theoretical
min	390 nm	403 nm	223 nm
max	485 nm	501 nm	223 nm
z	1.03 μm	1.04 μm	885 nm
Asymmetry	0.805		
Theta	62.9°		

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 = 1250.719 (brightness)

B = 131.032 (background)

a = 0.817 px

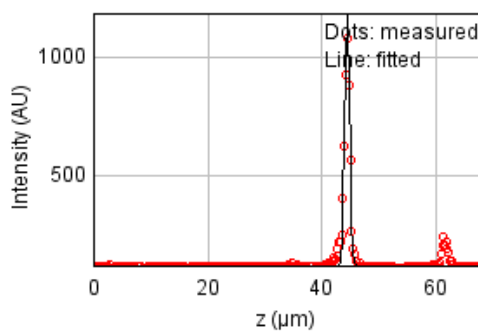
b = 0.126 px

c = 0.636 px

$x_c = 5.129$ px

$y_c = 5.533$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 138204.030

Standard deviation: 21.21735

R^2 : 0.96702

Parameters:

a = 118.89623

b = 1201.54370

c = 44.51030

d = 0.43922

Bead 1988

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

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

Frame size : 10 pixels

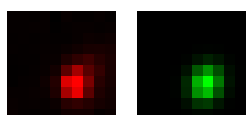
Coordinates : 125 um (x), 27.0 um (y), 44.6 um (z)

Corresponding bead : Not found

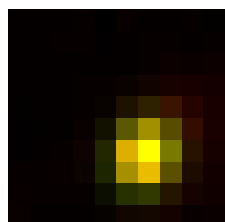
FWHM	Non corrected	Corrected	Theoretical
min	478 nm	494 nm	223 nm
max	566 nm	585 nm	223 nm
z	1.48 um	1.49 um	885 nm
Asymmetry	0.845		
Theta	69.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 849.112 (brightness)

B = 119.887 (background)

a = 0.566 px

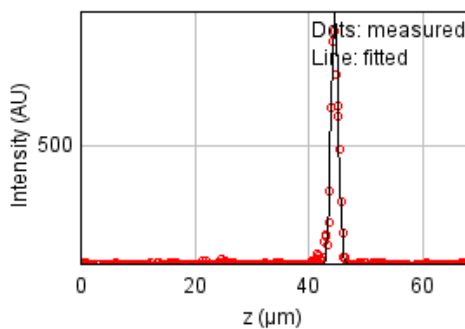
b = 0.056 px

c = 0.441 px

xc = 5.816 px

yc = 6.173 px

Z profile & fitting parameters:



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

Sum of residuals squared: 138649.239

Standard deviation: 21.25150

R^2 : 0.96036

Parameters:

a = 111.63161

b = 939.02476

c = 44.60932

d = 0.62983

Bead 1989

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

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

Frame size : 10 pixels

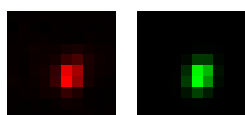
Coordinates : -159 μm (x), 14.0 μm (y), 44.2 μm (z)

Corresponding bead : Not found

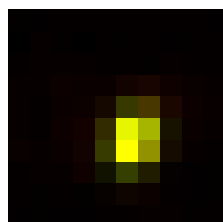
FWHM	Non corrected	Corrected	Theoretical
min	354 nm	366 nm	223 nm
max	451 nm	466 nm	223 nm
z	1.21 μm	1.21 μm	885 nm
Asymmetry	0.787		
Theta	69.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1097.716$ (brightness)

$B = 120.738$ (background)

$a = 1.018$ px

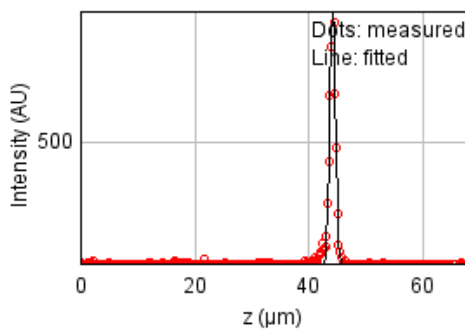
$b = 0.133$ px

$c = 0.711$ px

$x_c = 5.290$ px

$y_c = 5.475$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 27751.0727

Standard deviation: 9.50760

$R^2: 0.98955$

Parameters:

$a = 111.42182$

$b = 920.61061$

$c = 44.23287$

$d = 0.51185$

Bead 1990

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

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

Frame size : 10 pixels

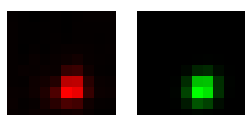
Coordinates : -117 μm (x), -6.09 μm (y), 44.3 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	413 nm	427 nm	223 nm
max	456 nm	471 nm	223 nm
z	1.09 μm	1.1 μm	885 nm
Asymmetry	0.906		
Theta	50.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1127.858 (brightness)

B = 120.642 (background)

a = 0.730 px

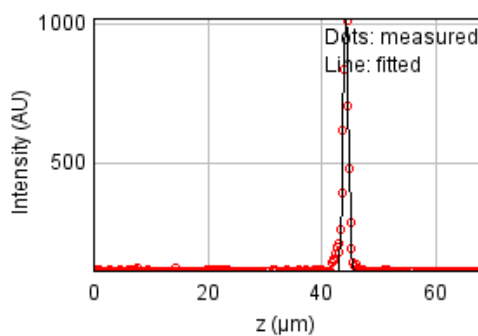
b = 0.069 px

c = 0.703 px

$x_c = 5.454$ px

$y_c = 6.664$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 43490.7529

Standard deviation: 11.90226

R^2 : 0.98581

Parameters:

a = 113.15325

b = 1023.14531

c = 44.26758

d = 0.46419

Bead 1991

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

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

Frame size : 10 pixels

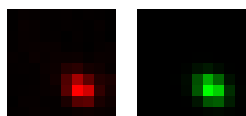
Coordinates : 153 μm (x), -8.1 μm (y), 44.4 μm (z)

Corresponding bead : Not found

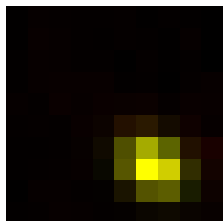
FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	500 nm	517 nm	223 nm
z	1.34 μm	1.34 μm	885 nm
Asymmetry	0.782		
Theta	-35.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 962.313 (brightness)

B = 117.471 (background)

a = 0.655 px

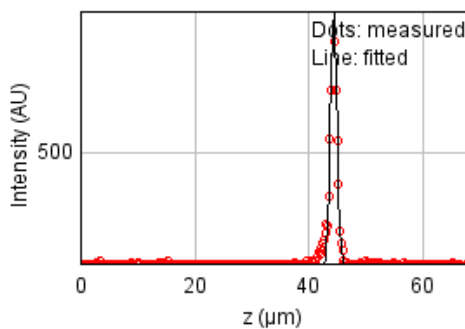
b = -0.162 px

c = 0.762 px

xc = 6.293 px

yc = 6.826 px

Z profile & fitting parameters:



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

Sum of residuals squared: 62160.3961

Standard deviation: 14.22944

R^2 : 0.98199

Parameters:

a = 112.53246

b = 985.81463

c = 44.42438

d = 0.56844

Bead 1992

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

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

Frame size : 10 pixels

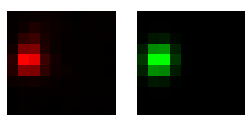
Coordinates : -74.3 μm (x), -77.2 μm (y), 64.1 μm (z)

Corresponding bead : Not found

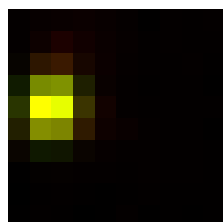
FWHM	Non corrected	Corrected	Theoretical
min	410 nm	424 nm	223 nm
max	474 nm	490 nm	223 nm
z	1.47 μm	1.48 μm	885 nm
Asymmetry	0.865		
Theta	81.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1733.289 (brightness)

B = 128.861 (background)

a = 0.794 px

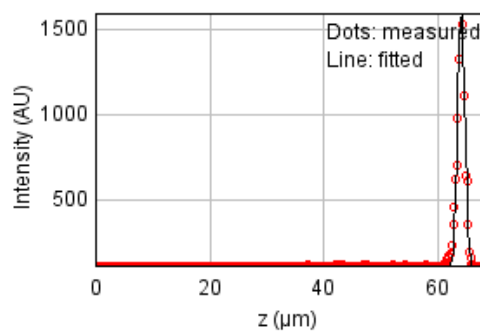
b = 0.028 px

c = 0.601 px

$x_c = 1.497$ px

$y_c = 3.987$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 163838.554

Standard deviation: 23.10143

R^2 : 0.98511

Parameters:

a = 113.93739

b = 1605.83895

c = 64.14408

d = 0.62484

Bead 1993

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

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

Frame size : 10 pixels

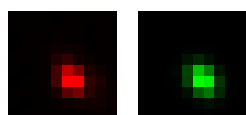
Coordinates : 126 μm (x), -78.9 μm (y), 44.4 μm (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	385 nm	398 nm	223 nm
max	508 nm	525 nm	223 nm
z	1.42 μm	1.43 μm	885 nm
Asymmetry	0.759		
Theta	-48.9°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.990$



Parameters:

A = 1638.404 (brightness)

B = 125.943 (background)

a = 0.738 px

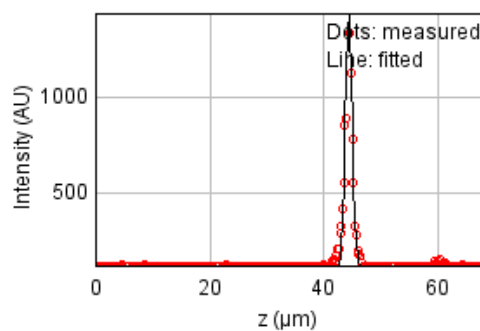
b = -0.190 px

c = 0.687 px

$x_c = 5.408$ px

$y_c = 5.830$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 162424.627

Standard deviation: 23.00153

R^2 : 0.98076

Parameters:

a = 115.22121

b = 1440.54239

c = 44.43574

d = 0.60415

Bead 1994

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

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

Frame size : 10 pixels

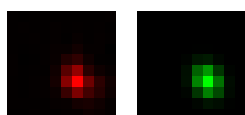
Coordinates : 71.5 μm (x), -85.1 μm (y), 44.5 μm (z)

Corresponding bead : Not found

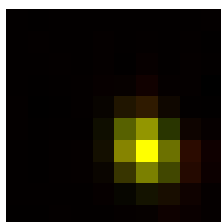
FWHM	Non corrected	Corrected	Theoretical
min	408 nm	422 nm	223 nm
max	496 nm	513 nm	223 nm
z	1.29 μm	1.29 μm	885 nm
Asymmetry	0.823		
Theta	-59.6°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1731.972$ (brightness)

$B = 128.115$ (background)

$a = 0.740$ px

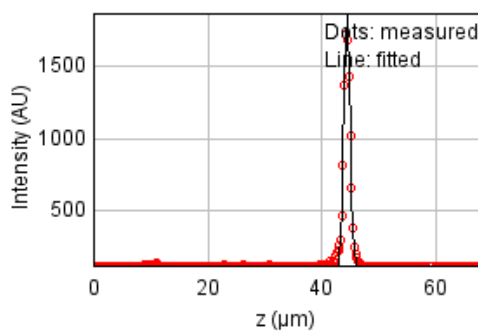
$b = -0.114$ px

$c = 0.612$ px

$x_c = 5.936$ px

$y_c = 5.923$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 80308.2874

Standard deviation: 16.17376

$R^2: 0.99390$

Parameters:

$a = 115.42083$

$b = 1865.63548$

$c = 44.47423$

$d = 0.54597$

Bead 1995

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

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

Frame size : 10 pixels

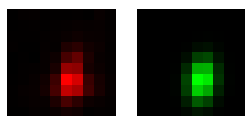
Coordinates : -22.1 μm (x), 95.7 μm (y), 44.8 μm (z)

Corresponding bead : Not found

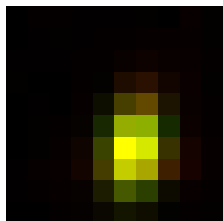
FWHM	Non corrected	Corrected	Theoretical
min	429 nm	444 nm	223 nm
max	669 nm	691 nm	223 nm
z	1.26 μm	1.27 μm	885 nm
Asymmetry	0.642		
Theta	82.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1336.106 (brightness)

B = 127.188 (background)

a = 0.720 px

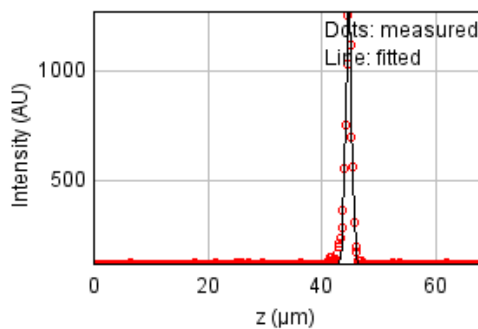
b = 0.057 px

c = 0.308 px

xc = 5.428 px

yc = 6.059 px

Z profile & fitting parameters:



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

Sum of residuals squared: 81719.3865

Standard deviation: 16.31524

R^2 : 0.98631

Parameters:

a = 114.84571

b = 1299.73620

c = 44.77008

d = 0.53543

Bead 1996

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

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

Frame size : 10 pixels

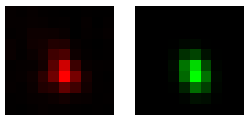
Coordinates : -123 μm (x), 84.6 μm (y), 44.6 μm (z)

Corresponding bead : Not found

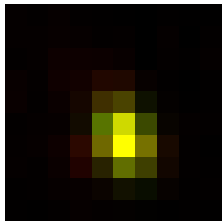
FWHM	Non corrected	Corrected	Theoretical
min	386 nm	399 nm	223 nm
max	541 nm	559 nm	223 nm
z	1.35 μm	1.36 μm	885 nm
Asymmetry	0.714		
Theta	-71.5°		

XY profile & fitting parameters :

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



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



Parameters:

$A = 1173.576$ (brightness)

$B = 130.592$ (background)

$a = 0.858$ px

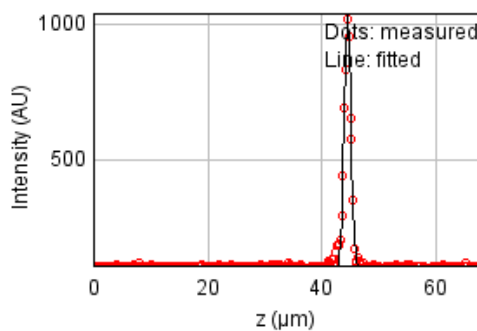
$b = -0.133$ px

$c = 0.504$ px

$x_c = 4.969$ px

$y_c = 5.655$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 47641.2550

Standard deviation: 12.45726

$R^2: 0.98794$

Parameters:

$a = 112.84401$

$b = 1045.49200$

$c = 44.58140$

$d = 0.57433$

Bead 1997

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

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

Frame size : 10 pixels

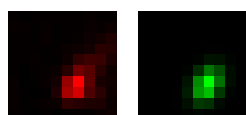
Coordinates : 118 um (x), 73.0 um (y), 44.5 um (z)

Corresponding bead : Not found

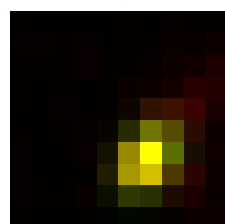
FWHM	Non corrected	Corrected	Theoretical
min	399 nm	413 nm	223 nm
max	565 nm	584 nm	223 nm
z	1.43 um	1.43 um	885 nm
Asymmetry	0.706		
Theta	57.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 833.892 (brightness)

B = 125.808 (background)

a = 0.720 px

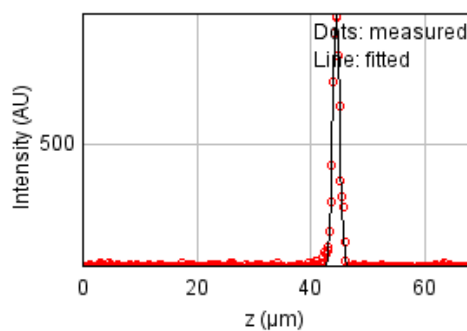
b = 0.192 px

c = 0.542 px

xc = 5.853 px

yc = 6.280 px

Z profile & fitting parameters:



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

Sum of residuals squared: 36087.9113

Standard deviation: 10.84206

R^2 : 0.98855

Parameters:

a = 112.44382

b = 924.42493

c = 44.52509

d = 0.60566

Bead 1998

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

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

Frame size : 10 pixels

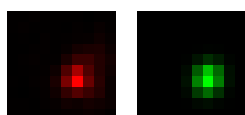
Coordinates : 97.9 μm (x), 26.7 μm (y), 45.1 μm (z)

Corresponding bead : Not found

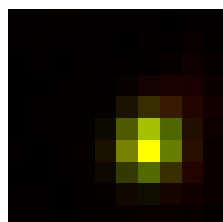
FWHM	Non corrected	Corrected	Theoretical
min	434 nm	448 nm	223 nm
max	484 nm	500 nm	223 nm
z	1.44 μm	1.44 μm	885 nm
Asymmetry	0.896		
Theta	70.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1066.096 (brightness)

B = 127.489 (background)

a = 0.698 px

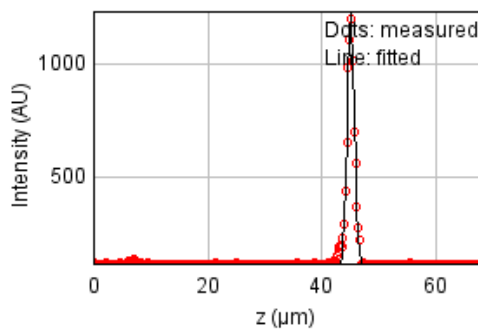
b = 0.043 px

c = 0.588 px

$x_c = 6.005$ px

$y_c = 5.742$ px

Z profile & fitting parameters:



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

Sum of residuals squared: 51582.6978

Standard deviation: 12.96232

R^2 : 0.99139

Parameters:

a = 114.23099

b = 1230.68756

c = 45.13753

d = 0.61089

Bead 1999

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

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

Frame size : 10 pixels

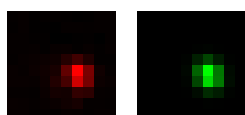
Coordinates : -126 μm (x), 12.9 μm (y), 44.9 μm (z)

Corresponding bead : Not found

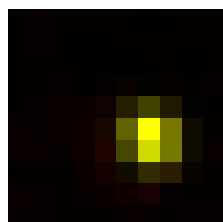
FWHM	Non corrected	Corrected	Theoretical
min	384 nm	397 nm	223 nm
max	440 nm	455 nm	223 nm
z	1.78 μm	1.78 μm	885 nm
Asymmetry	0.874		
Theta	-61.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1119.463 (brightness)

B = 120.763 (background)

a = 0.862 px

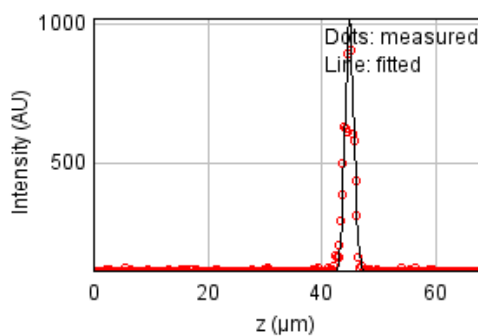
b = -0.090 px

c = 0.742 px

xc = 6.094 px

yc = 5.404 px

Z profile & fitting parameters:



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

Sum of residuals squared: 215227.728

Standard deviation: 26.47768

R^2 : 0.95709

Parameters:

a = 112.77266

b = 1019.36630

c = 44.90191

d = 0.75473

Bead 2000 (Rejected)

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

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

Frame size : 10 pixels

Coordinates : -88.0 μm (x), 2.88 μm (y), 47.5 μm (z)

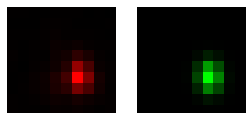
Corresponding bead : Not found

Reason of rejection : R or C parameter off limits.

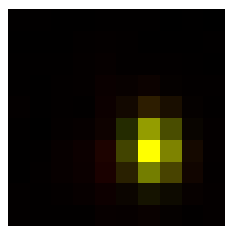
FWHM	Non corrected	Corrected	Theoretical
min	367 nm	379 nm	223 nm
max	473 nm	489 nm	223 nm
z	1.11 μm	1.11 μm	885 nm
Asymmetry	0.775		
Theta	-87.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 1774.410 (brightness)

B = 133.477 (background)

a = 0.997 px

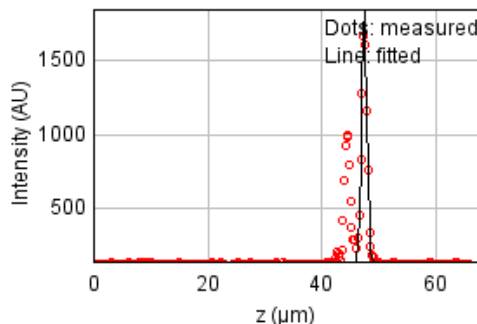
b = -0.017 px

c = 0.600 px

xc = 6.162 px

yc = 5.914 px

Z profile & fitting parameters:



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

Sum of residuals squared: 3417848.31

Standard deviation: 105.51330

R^2 : 0.76121

Parameters:

a = 133.86255

b = 1849.09277

c = 47.49354

d = 0.47129