Date: Mon Oct 17 13:28:14 PDT 2022

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

Frame size: 10 pixels

Coordinates: -118 um (x), 5.09 um (y), 10.0 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	482 nm	498 nm	223 nm
Z	1.47 um	1.48 um	885 nm
Asymmetry	0.868		
Theta	42.8°		

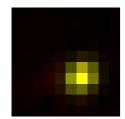
XY profile & fitting parameters :

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





Fitted 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 = 642.210 (brightness)

B = 125.331 (background)

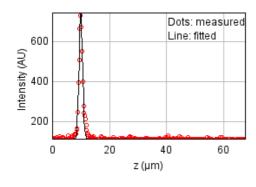
a = 0.665 px

b = 0.094 px

c = 0.680 px

xc = 5.926 pxyc = 5.845 px

Z profile & fitting parameters:



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

Sum of residuals squared: 38376.4325

Standard deviation: 11.18055

R^2: 0.98084 Parameters: a = 113.29594 b = 748.65738 c = 10.04611

Date: Mon Oct 17 13:28:14 PDT 2022

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

Frame size: 10 pixels

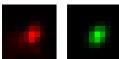
Coordinates: -68.2 um (x), -7.09 um (y), 10.1 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	423 nm	437 nm	223 nm
max	574 nm	593 nm	223 nm
Z	2.02 um	2.03 um	885 nm
Asymmetry	0.737		
Theta	53.1°		

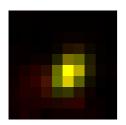
XY profile & fitting parameters :

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





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



Parameters:

A = 704.954 (brightness)

B = 133.367 (background)

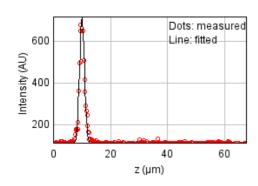
a = 0.628 px

b = 0.165 px

c = 0.532 px

xc = 5.118 pxyc = 5.247 px

Z profile & fitting parameters:



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

Sum of residuals squared: 98986.9724

Standard deviation: 17.95642

R^2: 0.96049 Parameters: a = 113.76949b = 717.66488

c = 10.12395

Bead 403 (Rejected)

Date: Mon Oct 17 13:28:14 PDT 2022

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

Frame size: 10 pixels

Coordinates: -68.2 um (x), -7.06 um (y), 9.91 um (z)

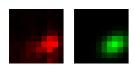
Corresponding bead: Not found

Reason of rejection: R or C parameter off limits.

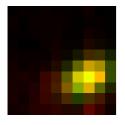
FWHM	Non corrected	Corrected	Theoretical
min	527 nm	545 nm	223 nm
max	775 nm	801 nm	223 nm
Z	2.59 um	2.6 um	885 nm
Asymmetry	0.68		
Theta	27.5°		

XY profile & fitting parameters :

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



Fitted on
$$i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.879$$



A = 421.053 (brightness)

B = 128.733 (background)

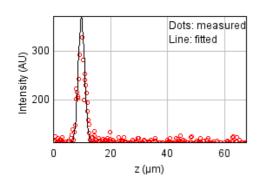
a = 0.279 px

b = 0.106 px

c = 0.428 px

xc = 6.891 pxyc = 6.077 px

Z profile & fitting parameters:



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

Sum of residuals squared: 56546.1971

Standard deviation: 13.57165

R^2: 0.90877 Parameters:

a = 111.94717

b = 371.80177

c = 9.91179

Date: Mon Oct 17 13:28:14 PDT 2022

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

Frame size: 10 pixels

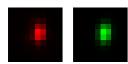
Coordinates: -106 um (x), -15.0 um (y), 48.6 um (z)

Corresponding bead: Not found

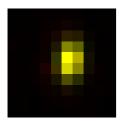
FWHM	Non corrected	Corrected	Theoretical
min	367 nm	379 nm	223 nm
max	573 nm	592 nm	223 nm
Z	1.11 um	1.11 um	885 nm
Asymmetry	0.64		
Theta	84.7°		

XY profile & fitting parameters :

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



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



A = 1314.125 (brightness)

B = 126.075 (background)

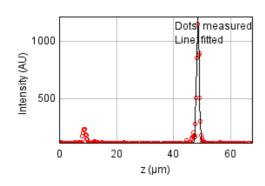
a = 0.993 px

b = 0.054 px

c = 0.414 px

xc = 5.290 pxyc = 4.249 px

Z profile & fitting parameters:



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

Sum of residuals squared: 175631.407

Standard deviation: 23.91839

R^2: 0.96156 Parameters: a = 117.97907

b = 1208.51071

c = 48.59990

Bead 405 (Rejected)

Date: Mon Oct 17 13:28:14 PDT 2022

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

Frame size: 10 pixels

Coordinates: 37.0 um (x), -31.4 um (y), 10.7 um (z)

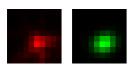
Corresponding bead: Not found

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

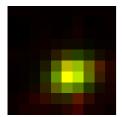
FWHM	Non corrected	Corrected	Theoretical
min	540 nm	558 nm	223 nm
max	673 nm	695 nm	223 nm
Z	3.51 um	3.52 um	885 nm
Asymmetry	0.803		
Theta	21.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 435.251 (brightness) B = 129.090 (background)

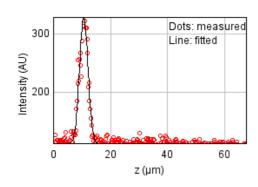
a = 0.319 px

b = 0.056 px

c = 0.439 px

xc = 5.393 pxyc = 5.829 px

Z profile & fitting parameters:



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

Sum of residuals squared: 26803.3031

Standard deviation: 9.34383

R^2: 0.95023 Parameters:

a = 112.65537

b = 327.74845

c = 10.73051

Bead 406 (Rejected)

Date: Mon Oct 17 13:28:15 PDT 2022

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

Frame size: 10 pixels

Coordinates: 16.2 um (x), -76.0 um (y), 6.55 um (z)

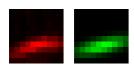
Corresponding bead: Not found

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

FWHM	Non corrected	Corrected	Theoretical
min	419 nm	433 nm	223 nm
max	1.63 um	1.69 um	223 nm
Z	2.31 um	2.32 um	885 nm
Asymmetry	0.256		
Theta	12.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 357.347 (brightness) B = 119.686 (background)

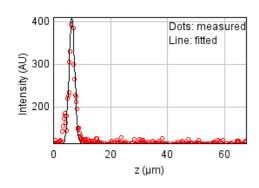
a = 0.083 px

b = 0.150 px

c = 0.732 px

xc = 4.783 pxyc = 6.298 px

Z profile & fitting parameters:



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

Sum of residuals squared: 37745.0116

Standard deviation: 11.08819

R^2: 0.94591 Parameters:

a = 113.65977

b = 410.49899

c = 6.55352

Bead 407 (Rejected)

Date: Mon Oct 17 13:28:15 PDT 2022

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

Frame size: 10 pixels

Coordinates: -132 um (x), -85.3 um (y), 10.4 um (z)

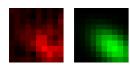
Corresponding bead: Not found

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

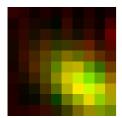
FWHM	Non corrected	Corrected	Theoretical
min	854 nm	882 nm	223 nm
max	1.45 um	1.5 um	223 nm
Z	3.55 um	3.57 um	885 nm
Asymmetry	0.588		
Theta	-38.3°		

XY profile & fitting parameters :

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



Fitted on
$$i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.834$$



Parameters:

A = 92.729 (brightness)

B = 115.760 (background)

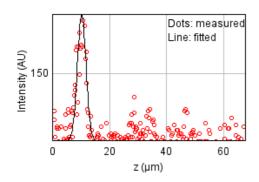
a = 0.110 px

b = -0.059 px

c = 0.138 px

xc = 6.708 pxyc = 6.785 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22725.7611

Standard deviation: 8.60379

R^2: 0.72364 Parameters:

a = 111.52526

b = 184.43052

c = 10.35976

Date: Mon Oct 17 13:28:15 PDT 2022

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

Frame size: 10 pixels

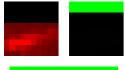
Coordinates: 149 um (x), 96.6 um (y), 8.79 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	1.09 um	1.13 um	223 nm
max	3.77 um	3.9 um	223 nm
Z	2.95 um	2.97 um	885 nm
Asymmetry	0.29		
Theta	5.8°		

XY profile & fitting parameters :

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



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



A = 228.095 (brightness)

B = -8.388 (background)

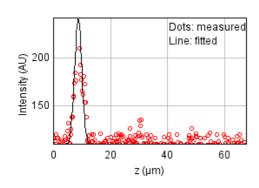
a = 0.011 px

b = 0.010 px

c = 0.111 px

xc = 2.627 pxyc = 6.968 px

Z profile & fitting parameters:



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

Sum of residuals squared: 27600.3017

Standard deviation: 9.48173

R^2: 0.85338 Parameters:

a = 110.68126

b = 241.10678

c = 8.79155

Bead 409 (Rejected)

Date: Mon Oct 17 13:28:15 PDT 2022

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

Frame size: 10 pixels

Coordinates: 88.3 um (x), 82.7 um (y), 8.56 um (z)

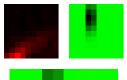
Corresponding bead: Not found

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

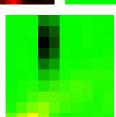
FWHM	Non corrected	Corrected	Theoretical
min	144 nm	149 nm	223 nm
max	925 nm	956 nm	223 nm
Z	1.31 um	1.31 um	885 nm
Asymmetry	0.155		
Theta	89.8°		

XY profile & fitting parameters :

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



Fitted on
$$i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.040$$



A = -284.673 (brightness)

B = 157.262 (background)

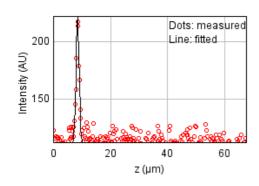
a = 6.497 px

b = 0.021 px

c = 0.157 px

xc = 3.477 pxyc = 1.986 px

Z profile & fitting parameters:



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

Sum of residuals squared: 13919.0106

Standard deviation: 6.73341

R^2: 0.79213 Parameters:

a = 111.92891

b = 222.46385

c = 8.55808

Date: Mon Oct 17 13:28:15 PDT 2022

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

Frame size: 10 pixels

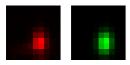
Coordinates: -41.6 um (x), 70.1 um (y), 10.8 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	435 nm	450 nm	223 nm
max	637 nm	658 nm	223 nm
Z	1.49 um	1.5 um	885 nm
Asymmetry	0.684		
Theta	87.2°		

XY profile & fitting parameters :

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



Fitted 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 = 1013.897 (brightness)

B = 127.257 (background)

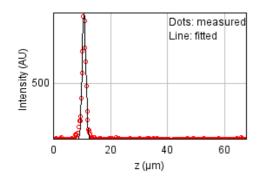
a = 0.707 px

b = 0.018 px

c = 0.332 px

xc = 5.692 pxyc = 6.373 px

Z profile & fitting parameters:



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

Sum of residuals squared: 56500.8601

Standard deviation: 13.56620

R^2: 0.98522 Parameters: a = 114.71277 b = 987.63223 c = 10.80994

Date: Mon Oct 17 13:28:15 PDT 2022

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

Frame size: 10 pixels

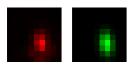
Coordinates: 17.3 um (x), 45.5 um (y), 10.2 um (z)

Corresponding bead: Not found

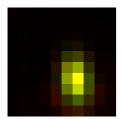
FWHM	Non corrected	Corrected	Theoretical
min	406 nm	420 nm	223 nm
max	683 nm	707 nm	223 nm
Z	1.35 um	1.36 um	885 nm
Asymmetry	0.594		
Theta	-83.4°		

XY profile & fitting parameters :

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



Fitted 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 = 940.661 (brightness)

B = 133.605 (background)

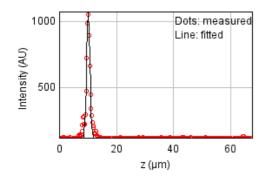
a = 0.806 px

b = -0.060 px

c = 0.294 px

xc = 5.800 pxyc = 6.151 px

Z profile & fitting parameters:



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

Sum of residuals squared: 131189.118

Standard deviation: 20.67187

R^2: 0.96992 Parameters: a = 117.11020 b = 1087.70276 c = 10.21018

Date: Mon Oct 17 13:28:15 PDT 2022

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

Frame size: 10 pixels

Coordinates: 35.3 um (x), 30.6 um (y), 10.8 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	425 nm	439 nm	223 nm
max	444 nm	459 nm	223 nm
Z	1.83 um	1.83 um	885 nm
Asymmetry	0.958		
Theta	-27.3°		

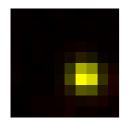
XY profile & fitting parameters :

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





Fitted 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 = 953.680 (brightness)

B = 125.846 (background)

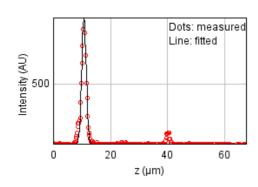
a = 0.695 px

b = -0.025 px

c = 0.730 px

xc = 6.388 pxyc = 5.782 px

Z profile & fitting parameters:



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

Sum of residuals squared: 92622.8265

Standard deviation: 17.36960

R^2: 0.97641 Parameters: a = 117.86453 b = 917.37581 c = 10.80557 d = 0.77609

Date: Mon Oct 17 13:28:15 PDT 2022

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

Frame size: 10 pixels

Coordinates: -79.2 um (x), 17.6 um (y), 10.4 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	402 nm	415 nm	223 nm
max	513 nm	531 nm	223 nm
Z	1.85 um	1.85 um	885 nm
Asymmetry	0.783		
Theta	44.5°		

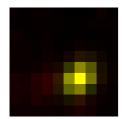
XY profile & fitting parameters :

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





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



Parameters:

A = 565.564 (brightness)

B = 130.889 (background)

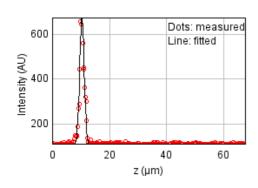
a = 0.667 px

b = 0.161 px

c = 0.673 px

xc = 5.919 pxyc = 5.992 px

Z profile & fitting parameters:



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

Sum of residuals squared: 61030.9653

Standard deviation: 14.09957

R^2: 0.96918 Parameters: a = 112.83019 b = 675.80817

c = 10.43636

Date: Mon Oct 17 13:28:15 PDT 2022

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

Frame size: 10 pixels

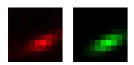
Coordinates: -137 um (x), -8.58 um (y), 9.52 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	373 nm	386 nm	223 nm
max	969 nm	1.0 um	223 nm
Z	1.63 um	1.64 um	885 nm
Asymmetry	0.385		
Theta	23.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 362.008 (brightness)

B = 121.297 (background)

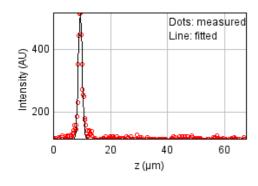
a = 0.274 px

b = 0.300 px

c = 0.831 px

xc = 5.906 pxyc = 6.010 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33630.8129

Standard deviation: 10.46645

R^2: 0.96325 Parameters: a = 112.97249 b = 517.40716 c = 9.51925

Date: Mon Oct 17 13:28:15 PDT 2022

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

Frame size: 10 pixels

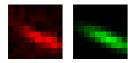
Coordinates: 124 um (x), -16.7 um (y), 8.91 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	378 nm	391 nm	223 nm
max	1.56 um	1.61 um	223 nm
Z	2.03 um	2.04 um	885 nm
Asymmetry	0.242		
Theta	-22.3°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.917$



Parameters:

A = 113.979 (brightness)

B = 115.540 (background)

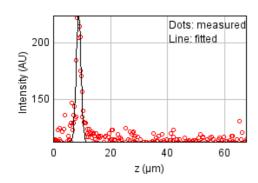
a = 0.183 px

b = -0.311 px

c = 0.812 px

xc = 6.106 pxyc = 5.933 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15003.2006

Standard deviation: 6.99073

R^2: 0.84892 Parameters: a = 111.96181 b = 224.76775

c = 8.91496

Date: Mon Oct 17 13:28:15 PDT 2022

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

Frame size: 10 pixels

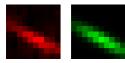
Coordinates: 125 um (x), -22.9 um (y), 9.57 um (z)

Corresponding bead: Not found

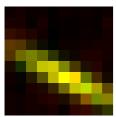
FWHM	Non corrected	Corrected	Theoretical
min	374 nm	387 nm	223 nm
max	1.85 um	1.91 um	223 nm
Z	1.84 um	1.84 um	885 nm
Asymmetry	0.203		
Theta	-27.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 192.074 (brightness)

B = 117.441 (background)

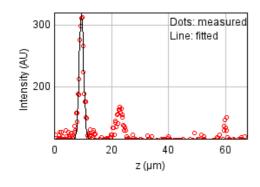
a = 0.235 px

b = -0.376 px

c = 0.762 px

xc = 5.288 pxyc = 6.064 px

Z profile & fitting parameters:



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

Sum of residuals squared: 48711.9703

Standard deviation: 12.59646

R^2: 0.84060 Parameters: a = 115.60817 b = 322.04056 c = 9.57169

.

Date: Mon Oct 17 13:28:15 PDT 2022

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

Frame size: 10 pixels

Coordinates: 40.8 um (x), -61.8 um (y), 9.99 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	553 nm	571 nm	223 nm
max	644 nm	666 nm	223 nm
Z	1.65 um	1.65 um	885 nm
Asymmetry	0.858		
Theta	30.3°		

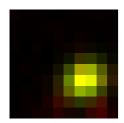
XY profile & fitting parameters :

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





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



Parameters:

A = 540.952 (brightness)

B = 124.528 (background)

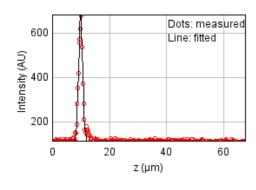
a = 0.353 px

b = 0.051 px

c = 0.410 px

xc = 6.442 pxyc = 5.989 px

Z profile & fitting parameters:



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

Sum of residuals squared: 45496.2125

Standard deviation: 12.17358

R^2: 0.97502 Parameters: a = 114.15048 b = 686.10270

c = 9.99244

.

Date: Mon Oct 17 13:28:15 PDT 2022

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

Frame size: 10 pixels

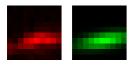
Coordinates: 8.04 um (x), -89.3 um (y), 10.4 um (z)

Corresponding bead: Not found

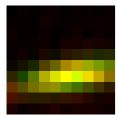
FWHM	Non corrected	Corrected	Theoretical
min	453 nm	468 nm	223 nm
max	1.62 um	1.67 um	223 nm
Z	2.76 um	2.77 um	885 nm
Asymmetry	0.28		
Theta	9.0°		

XY profile & fitting parameters :

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



Fitted 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 = 314.559 (brightness)

B = 120.690 (background)

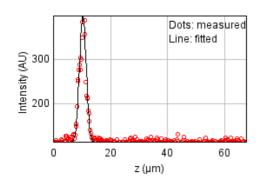
a = 0.066 px

b = 0.093 px

c = 0.640 px

xc = 5.543 pxyc = 5.919 px

Z profile & fitting parameters:



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

Sum of residuals squared: 53241.4251

Standard deviation: 13.16909

R^2: 0.93120 Parameters: a = 112.78948 b = 397.79401 c = 10.40821

Date: Mon Oct 17 13:28:15 PDT 2022

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

Frame size: 10 pixels

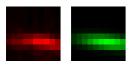
Coordinates: -38.9 um (x), -96.2 um (y), 10.7 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	407 nm	421 nm	223 nm
max	1.82 um	1.89 um	223 nm
Z	1.74 um	1.75 um	885 nm
Asymmetry	0.223		
Theta	-5.8°		

XY profile & fitting parameters :

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



Fitted 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 = 388.337 (brightness)

B = 123.340 (background)

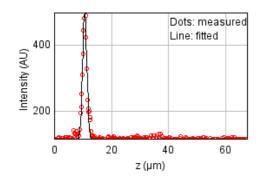
a = 0.048 px

b = -0.077 px

c = 0.802 px

xc = 6.312 pxyc = 6.094 px

Z profile & fitting parameters:



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

Sum of residuals squared: 27531.5311

Standard deviation: 9.46991

R^2: 0.96868 Parameters: a = 114.05980b = 499.33582c = 10.71586

Bead 420 (Rejected)

Date: Mon Oct 17 13:28:16 PDT 2022

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

Frame size: 10 pixels

Coordinates: -154 um (x), 32.2 um (y), 7.98 um (z)

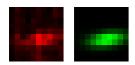
Corresponding bead: Not found

Reason of rejection: R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	422 nm	436 nm	223 nm
max	1.11 um	1.15 um	223 nm
Z	2.74 um	2.75 um	885 nm
Asymmetry	0.378		
Theta	8.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 119.981 (brightness)
B = 115.235 (background)

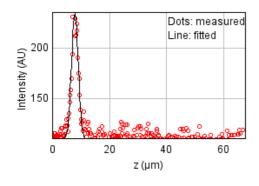
a = 0.122 px

b = 0.092 px

c = 0.741 px

xc = 5.575 pxyc = 5.465 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15088.1716

Standard deviation: 7.01050

R^2: 0.89910 Parameters:

a = 111.07469

b = 234.74804

c = 7.98211

Date: Mon Oct 17 13:28:16 PDT 2022

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

Frame size: 10 pixels

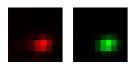
Coordinates: -125 um (x), 23.5 um (y), 10.7 um (z)

Corresponding bead: Not found

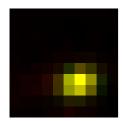
FWHM	Non corrected	Corrected	Theoretical
min	410 nm	424 nm	223 nm
max	550 nm	568 nm	223 nm
Z	1.55 um	1.56 um	885 nm
Asymmetry	0.746		
Theta	14.3°		

XY profile & fitting parameters :

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



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



A = 829.800 (brightness)

B = 121.981 (background)

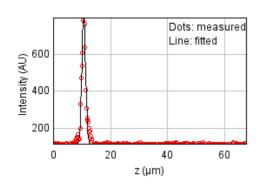
a = 0.466 px

b = 0.085 px

c = 0.777 px

xc = 5.851 pxyc = 6.325 px

Z profile & fitting parameters:



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

Sum of residuals squared: 95821.2966

Standard deviation: 17.66696

R^2: 0.96200 Parameters: a = 112.87955 b = 800.69666

c = 10.71937

Bead 422 (Rejected)

Date: Mon Oct 17 13:28:16 PDT 2022

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

Frame size: 10 pixels

Coordinates: -86.8 um (x), 16.0 um (y), 10.8 um (z)

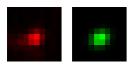
Corresponding bead: Not found

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

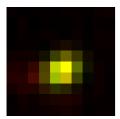
FWHM	Non corrected	Corrected	Theoretical
min	434 nm	449 nm	223 nm
max	547 nm	566 nm	223 nm
Z	4.14 um	4.16 um	885 nm
Asymmetry	0.793		
Theta	27.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 529.347 (brightness)

B = 126.724 (background)

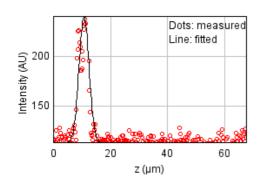
a = 0.504 px

b = 0.108 px

c = 0.657 px

xc = 4.615 pxyc = 5.309 px

Z profile & fitting parameters:



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

Sum of residuals squared: 41558.0479

Standard deviation: 11.63479

R^2: 0.83597 Parameters:

a = 112.59460

b = 240.87016

c = 10.82621

Date: Mon Oct 17 13:28:16 PDT 2022

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

Frame size: 10 pixels

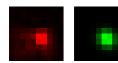
Coordinates: -83.7 um (x), -18.8 um (y), 7.2 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	479 nm	495 nm	223 nm
max	543 nm	562 nm	223 nm
Z	2.61 um	2.62 um	885 nm
Asymmetry	0.882		
Theta	-43.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 383.242 (brightness)

B = 129.262 (background)

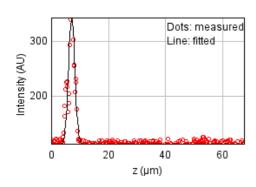
a = 0.517 px

b = -0.065 px

c = 0.522 px

xc = 5.486 pxyc = 5.458 px

Z profile & fitting parameters:



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

Sum of residuals squared: 55955.0351

Standard deviation: 13.50052

R^2: 0.88848 Parameters: a = 113.08479 b = 343.18358

c = 7.19950

Date: Mon Oct 17 13:28:16 PDT 2022

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

Frame size: 10 pixels

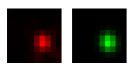
Coordinates: 78.8 um (x), -21.5 um (y), 11.0 um (z)

Corresponding bead: Not found

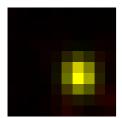
FWHM	Non corrected	Corrected	Theoretical
min	470 nm	486 nm	223 nm
max	535 nm	554 nm	223 nm
Z	1.74 um	1.75 um	885 nm
Asymmetry	0.877		
Theta	-79.1°		

XY profile & fitting parameters :

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



Fitted 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 = 948.159 (brightness)

B = 130.371 (background)

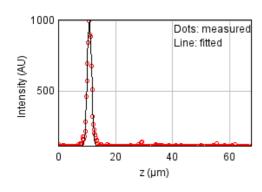
a = 0.603 px

b = -0.026 px

c = 0.473 px

xc = 6.148 pxyc = 5.749 px

Z profile & fitting parameters:



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

Sum of residuals squared: 51297.4241

Standard deviation: 12.92643

R^2: 0.98891 Parameters:

a = 114.25631

b = 1008.33142

c = 10.96581

Bead 425 (Rejected)

Date: Mon Oct 17 13:28:16 PDT 2022

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

Frame size: 10 pixels

Coordinates: 37.0 um (x), -31.4 um (y), 10.7 um (z)

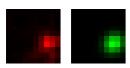
Corresponding bead: Not found

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

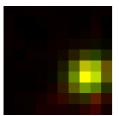
FWHM	Non corrected	Corrected	Theoretical
min	554 nm	573 nm	223 nm
max	628 nm	650 nm	223 nm
Z	3.51 um	3.52 um	885 nm
Asymmetry	0.882		
Theta	32.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 449.524 (brightness)

B = 124.588 (background)

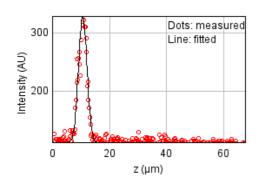
a = 0.367 px

b = 0.044 px

c = 0.409 px

xc = 7.333 pxyc = 5.841 px

Z profile & fitting parameters:



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

Sum of residuals squared: 26803.3031

Standard deviation: 9.34383

R^2: 0.95023 Parameters:

a = 112.65537

b = 327.74845

c = 10.73051

Date: Mon Oct 17 13:28:16 PDT 2022

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

Frame size: 10 pixels

Coordinates: -93.8 um (x), -54.8 um (y), 10.2 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	528 nm	546 nm	223 nm
max	696 nm	719 nm	223 nm
Z	1.89 um	1.9 um	885 nm
Asymmetry	0.758		
Theta	-36.0°		

XY profile & fitting parameters :

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





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



Parameters:

A = 476.215 (brightness)

B = 127.980 (background)

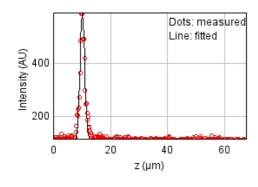
a = 0.348 px

b = -0.097 px

c = 0.411 px

xc = 5.752 pxyc = 6.058 px

Z profile & fitting parameters:



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

Sum of residuals squared: 61751.4829

Standard deviation: 14.18256

R^2: 0.95849 Parameters: a = 114.35748 b = 594.19938 c = 10.24244

Date: Mon Oct 17 13:28:16 PDT 2022

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

Frame size: 10 pixels

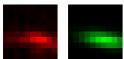
Coordinates: -50.3 um (x), -79.2 um (y), 11.0 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	430 nm	223 nm
max	1.38 um	1.43 um	223 nm
Z	1.68 um	1.69 um	885 nm
Asymmetry	0.301		
Theta	-8.4°		

XY profile & fitting parameters :

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





Fitted on
$$i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.915$$



Parameters:

A = 312.520 (brightness)

B = 121.719 (background)

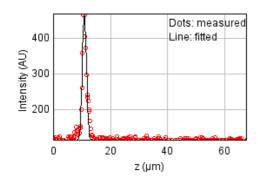
a = 0.085 px

b = -0.102 px

c = 0.759 px

xc = 6.301 pxyc = 6.056 px

Z profile & fitting parameters:



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

Sum of residuals squared: 44402.9403

Standard deviation: 12.02643

R^2: 0.94029 Parameters: a = 113.91193 b = 469.20321

c = 10.95091

Bead 428 (Rejected)

Date: Mon Oct 17 13:28:16 PDT 2022

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

Frame size: 10 pixels

Coordinates: -55.2 um (x), -92.2 um (y), 48.2 um (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	1.08 um	1.08 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

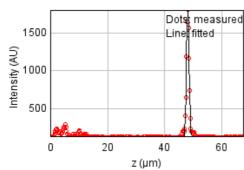
(red: the original data, green: the fit, yellow: the two merged)



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

Z profile & fitting parameters:





Fitted on $y = a + (b-a)^* \exp(-(x-c)^2/(2^*d^2))$ Sum of residuals squared: 304474.753

Standard deviation: 31.49245

R^2: 0.97056 Parameters: a = 127.40696

b = 1797.27145 c = 48.17877

٠ ٥ ١ ٢ ٢ ٢ ١

Bead 429 (Rejected)

Date: Mon Oct 17 13:28:16 PDT 2022

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

Frame size: 10 pixels

Coordinates: 15.9 um (x), -94.5 um (y), 8.9 um (z)

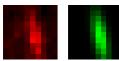
Corresponding bead: Not found

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

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	1.47 um	1.52 um	223 nm
Z	1.98 um	1.99 um	885 nm
Asymmetry	0.286		
Theta	-79.7°		

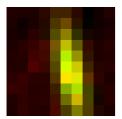
XY profile & fitting parameters :

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





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



xc = 5.419 pxyc = 5.463 px Parameters:

A = 124.178 (brightness)

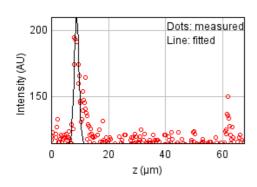
B = 121.865 (background)

a = 0.739 px

b = -0.123 px

c = 0.085 px

Z profile & fitting parameters:



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

Sum of residuals squared: 25218.1303

Standard deviation: 9.06332

R^2: 0.70530 Parameters:

a = 114.29845

b = 210.81055

c = 8.89815

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

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

Frame size: 10 pixels

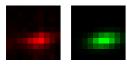
Coordinates: -152 um (x), 29.5 um (y), 10.5 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	895 nm	926 nm	223 nm
Z	1.84 um	1.85 um	885 nm
Asymmetry	0.466		
Theta	8.2°		

XY profile & fitting parameters :

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



Fitted 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 = 305.055 (brightness)

B = 118.813 (background)

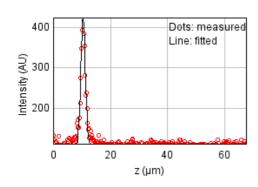
a = 0.180 px

b = 0.085 px

c = 0.758 px

xc = 5.572 pxyc = 5.908 px

Z profile & fitting parameters:



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

Sum of residuals squared: 28559.9452

Standard deviation: 9.64516

R^2: 0.95353 Parameters:

a = 112.20946

b = 423.86763

c = 10.49409

Bead 431 (Rejected)

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

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

Frame size: 10 pixels

Coordinates: 109 um (x), 26.3 um (y), 8.99 um (z)

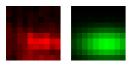
Corresponding bead: Not found

Reason of rejection: R or C parameter off limits.

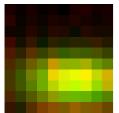
FWHM	Non corrected	Corrected	Theoretical
min	908 nm	939 nm	223 nm
max	1.79 um	1.85 um	223 nm
Z	1.27 um	1.27 um	885 nm
Asymmetry	0.506		
Theta	-0.7°		

XY profile & fitting parameters :

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



Fitted on
$$i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.840$$



Parameters:

A = 88.954 (brightness)

B = 114.401 (background)

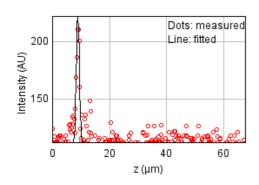
a = 0.042 px

b = -0.002 px

c = 0.163 px

xc = 6.074 pxyc = 6.522 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16690.6521

Standard deviation: 7.37339

R^2: 0.75065 Parameters:

a = 112.55062

b = 221.77753

c = 8.99127

Bead 432 (Rejected)

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

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

Frame size: 10 pixels

Coordinates: -102 um (x), 23.3 um (y), 7.11 um (z)

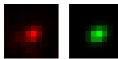
Corresponding bead: Not found

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

FWHM	Non corrected	Corrected	Theoretical
min	418 nm	433 nm	223 nm
max	551 nm	570 nm	223 nm
Z	3.82 um	3.84 um	885 nm
Asymmetry	0.759		
Theta	30.3°		

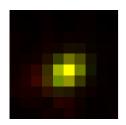
XY profile & fitting parameters :

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





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



Parameters:

A = 488.414 (brightness)

B = 125.215 (background)

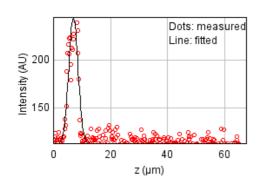
a = 0.525 px

b = 0.141 px

c = 0.684 px

xc = 4.778 pxyc = 5.143 px

Z profile & fitting parameters:



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

Sum of residuals squared: 32404.0761

Standard deviation: 10.27379

R^2: 0.86772 Parameters: a = 112.16371

b = 245.44773

c = 7.10827

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

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

Frame size: 10 pixels

Coordinates: -125 um (x), 10.1 um (y), 9.97 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	385 nm	398 nm	223 nm
max	601 nm	621 nm	223 nm
Z	1.36 um	1.36 um	885 nm
Asymmetry	0.641		
Theta	25.5°		

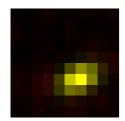
XY profile & fitting parameters :

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





Fitted 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 = 410.146 (brightness)

B = 120.410 (background)

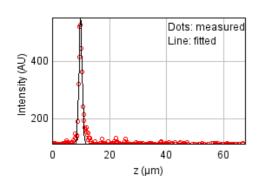
a = 0.470 px

b = 0.207 px

c = 0.806 px

xc = 5.794 pxyc = 5.932 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33976.0124

Standard deviation: 10.52003

R^2: 0.96223 Parameters: a = 113.22624 b = 551.83845 c = 9.96679

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

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

Frame size: 10 pixels

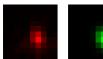
Coordinates: -2.0 um (x), 7.3 um (y), 10.9 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	393 nm	406 nm	223 nm
max	578 nm	597 nm	223 nm
Z	1.95 um	1.96 um	885 nm
Asymmetry	0.68		
Theta	-78.0°		

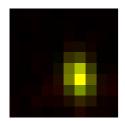
XY profile & fitting parameters :

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





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



Parameters:

A = 731.027 (brightness)

B = 127.701 (background)

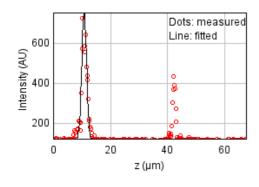
a = 0.848 px

b = -0.095 px

c = 0.422 px

xc = 5.906 pxyc = 5.811 px

Z profile & fitting parameters:



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

Sum of residuals squared: 564051.796

Standard deviation: 42.86376

R^2: 0.82064 Parameters:

a = 121.62799

b = 757.61022

c = 10.88129

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

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

Frame size: 10 pixels

Coordinates: -120 um (x), -17.5 um (y), 9.78 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	700 nm	723 nm	223 nm
Z	1.56 um	1.57 um	885 nm
Asymmetry	0.589		
Theta	37.3°		

XY profile & fitting parameters :

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





Fitted 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 = 340.690 (brightness)

B = 119.504(background)

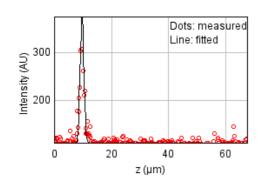
a = 0.463 px

b = 0.249 px

c = 0.601 px

xc = 5.585 pxyc = 5.719 px

Z profile & fitting parameters:



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

Sum of residuals squared: 28587.4359

Standard deviation: 9.64980

R^2: 0.92687 Parameters:

a = 111.94656

b = 376.89413

c = 9.77887

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

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

Frame size: 10 pixels

Coordinates: 117 um (x), -40.2 um (y), 7.94 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	449 nm	465 nm	223 nm
max	1.74 um	1.8 um	223 nm
Z	2.56 um	2.57 um	885 nm
Asymmetry	0.258		
Theta	-33.8°		

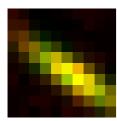
XY profile & fitting parameters :

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





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



Parameters:

A = 172.576 (brightness)

B = 116.674 (background)

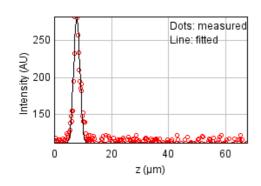
a = 0.236 px

b = -0.287 px

c = 0.473 px

xc = 5.595 pxyc = 5.636 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18923.5797

Standard deviation: 7.85114

R^2: 0.92725 Parameters: a = 111.23396b = 282.21953

c = 7.93767

Bead 437 (Rejected)

Date: Mon Oct 17 13:28:18 PDT 2022

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

Frame size: 10 pixels

Coordinates: 23.1 um (x), -46.2 um (y), 27.1 um (z)

Corresponding bead: Not found

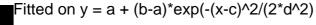
Reason of rejection: R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
Z	1.3 um	1.3 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

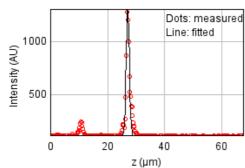
(red: the original data, green: the fit, yellow: the two merged)





Z profile & fitting parameters:





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

Sum of residuals squared: 400202.538 Standard deviation: 36.10528

R^2: 0.93832 Parameters: a = 121.69863

b = 1309.30502

c = 27.14086

Date: Mon Oct 17 13:28:18 PDT 2022

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

Frame size: 10 pixels

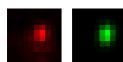
Coordinates: -48.2 um (x), -46.0 um (y), 10.2 um (z)

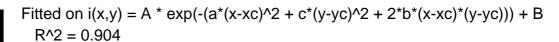
Corresponding bead: Not found

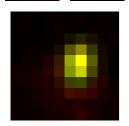
FWHM	Non corrected	Corrected	Theoretical
min	431 nm	446 nm	223 nm
max	576 nm	596 nm	223 nm
Z	1.35 um	1.35 um	885 nm
Asymmetry	0.748		
Theta	80.7°		

XY profile & fitting parameters :

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







A = 558.414 (brightness)

B = 136.688 (background)

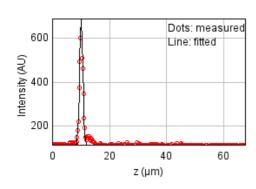
a = 0.713 px

b = 0.051 px

c = 0.412 px

xc = 5.783 pxyc = 4.285 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33109.1590

Standard deviation: 10.38496

R^2: 0.97831 Parameters: a = 114.29731 b = 692.15237 c = 10.20441

Date: Mon Oct 17 13:28:18 PDT 2022

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

Frame size: 10 pixels

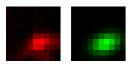
Coordinates: 27.2 um (x), -59.9 um (y), 10.7 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	554 nm	572 nm	223 nm
max	873 nm	903 nm	223 nm
Z	2.19 um	2.2 um	885 nm
Asymmetry	0.634		
Theta	18.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 367.028 (brightness)

B = 119.134 (background)

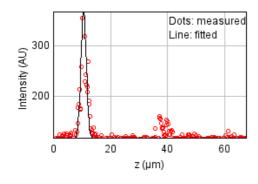
a = 0.202 px

b = 0.078 px

c = 0.412 px

xc = 5.833 pxyc = 6.314 px

Z profile & fitting parameters:



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

Sum of residuals squared: 85582.5790

Standard deviation: 16.69643

R^2: 0.84355 Parameters: a = 115.68532

b = 369.87481

c = 10.67420

Bead 440 (Rejected)

Date: Mon Oct 17 13:28:18 PDT 2022

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

Frame size: 10 pixels

Coordinates: -1.15 um (x), -67.6 um (y), 10.3 um (z)

Corresponding bead: Not found

Reason of rejection: R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	547 nm	566 nm	223 nm
max	667 nm	690 nm	223 nm
Z	1.43 um	1.44 um	885 nm
Asymmetry	0.821		
Theta	-88.0°		

XY profile & fitting parameters :

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





Fitted on
$$i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.876$$



Parameters:

A = 470.366 (brightness)

B = 127.158 (background)

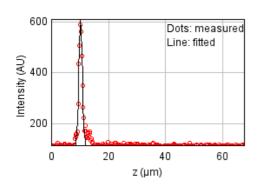
a = 0.448 px

b = -0.005 px

c = 0.302 px

xc = 5.755 pxyc = 5.481 px

Z profile & fitting parameters:



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

Sum of residuals squared: 40377.3309

Standard deviation: 11.46832

R^2: 0.96646 Parameters:

a = 114.43660

b = 610.00119

c = 10.30888

Date: Mon Oct 17 13:28:18 PDT 2022

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

Frame size: 10 pixels

Coordinates: -110 um (x), -75.2 um (y), 10.1 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	596 nm	616 nm	223 nm
max	1.01 um	1.04 um	223 nm
Z	2.13 um	2.14 um	885 nm
Asymmetry	0.592		
Theta	53.3°		

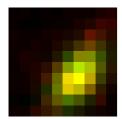
XY profile & fitting parameters :

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





Fitted on
$$i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.907$$



Parameters:

A = 239.226 (brightness)

B = 123.488 (background)

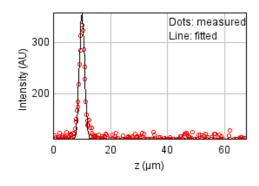
a = 0.291 px

b = 0.118 px

c = 0.220 px

xc = 5.837 pxyc = 5.823 px

Z profile & fitting parameters:



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

Sum of residuals squared: 21482.7101

Standard deviation: 8.36518

R^2: 0.95144 Parameters:

a = 112.48974

b = 358.59225

c = 10.09876

Bead 442 (Rejected)

Date: Mon Oct 17 13:28:18 PDT 2022

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

Frame size: 10 pixels

Coordinates: 89.9 um (x), -76.5 um (y), 8.91 um (z)

Corresponding bead: Not found

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

FWHM	Non corrected	Corrected	Theoretical
min	803 nm	830 nm	223 nm
max	1.09 um	1.13 um	223 nm
Z	3.36 um	3.37 um	885 nm
Asymmetry	0.735		
Theta	51.0°		

XY profile & fitting parameters :

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





Fitted on
$$i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.703$$



Parameters:

A = 71.391 (brightness)

B = 126.708 (background)

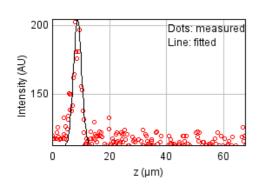
a = 0.170 px

b = 0.047 px

c = 0.150 px

xc = 5.667 pxyc = 5.890 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19307.3259

Standard deviation: 7.93034

R^2: 0.82372 Parameters:

a = 112.43437

b = 204.57838

c = 8.90781

d = 1.42515

Date: Mon Oct 17 13:28:18 PDT 2022

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

Frame size: 10 pixels

Coordinates: -144 um (x), -87.3 um (y), 9.43 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	404 nm	417 nm	223 nm
max	1.59 um	1.65 um	223 nm
Z	1.95 um	1.96 um	885 nm
Asymmetry	0.253		
Theta	49.5°		

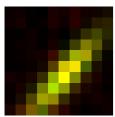
XY profile & fitting parameters :

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





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



Parameters:

A = 146.850 (brightness)

B = 114.673 (background)

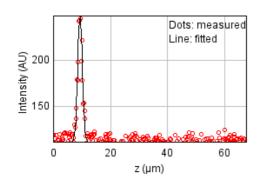
a = 0.499 px

b = 0.381 px

c = 0.378 px

xc = 4.988 pxyc = 5.851 px

Z profile & fitting parameters:



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

Sum of residuals squared: 11887.4848

Standard deviation: 6.22266

R^2: 0.91044 Parameters:

a = 110.95247

b = 248.52017

c = 9.43266

Bead 444 (Rejected)

Date: Mon Oct 17 13:28:18 PDT 2022

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

Frame size: 10 pixels

Coordinates: 15.9 um (x), -94.5 um (y), 8.9 um (z)

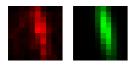
Corresponding bead: Not found

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

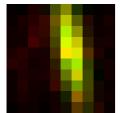
FWHM	Non corrected	Corrected	Theoretical
min	406 nm	419 nm	223 nm
max	1.59 um	1.65 um	223 nm
Z	1.98 um	1.99 um	885 nm
Asymmetry	0.255		
Theta	-80.0°		

XY profile & fitting parameters :

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



Fitted on
$$i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.907$$



Parameters:

A = 121.150 (brightness) B = 123.075 (background)

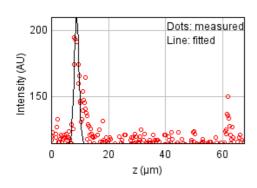
a = 0.793 px

b = -0.131 px

c = 0.076 px

xc = 5.444 pxyc = 3.617 px

Z profile & fitting parameters:



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

Sum of residuals squared: 25218.1303

Standard deviation: 9.06332

R^2: 0.70530 Parameters:

a = 114.29845

b = 210.81055

c = 8.89815

Date: Mon Oct 17 13:28:19 PDT 2022

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

Frame size: 10 pixels

Coordinates: 160 um (x), 96.7 um (y), 10.1 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	1.09 um	1.13 um	223 nm
max	3.37 um	3.48 um	223 nm
Z	3.0 um	3.02 um	885 nm
Asymmetry	0.325		
Theta	0.3°		

XY profile & fitting parameters :

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



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



A = 230.246 (brightness)

B = -10.307 (background)

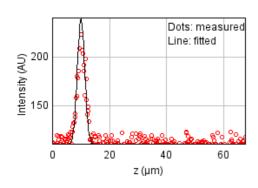
a = 0.012 px

b = 0.000 px

c = 0.112 px

xc = 5.842 pxyc = 6.612 px

Z profile & fitting parameters:



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

Sum of residuals squared: 23257.0006

Standard deviation: 8.70378

R^2: 0.87695 Parameters: a = 109.67071

b = 241.14488

c = 10.12192

d = 1.27533

Bead 446 (Rejected)

Date: Mon Oct 17 13:28:19 PDT 2022

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

Frame size: 10 pixels

Coordinates: -164 um (x), 94.8 um (y), 9.38 um (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	2.01 um	2.02 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

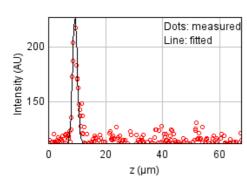
(red: the original data, green: the fit, yellow: the two merged)



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

Z profile & fitting parameters:





Fitted on y = a + $(b-a)*exp(-(x-c)^2/(2*d^2)$ Sum of residuals squared: 16018.1181

Standard deviation: 7.22332

R^2: 0.84690 Parameters: a = 111.78894b = 227.96268c = 9.38374

Date: Mon Oct 17 13:28:19 PDT 2022

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

Frame size: 10 pixels

Coordinates: 56.0 um (x), 80.3 um (y), 11.2 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	444 nm	459 nm	223 nm
max	684 nm	707 nm	223 nm
Z	1.21 um	1.22 um	885 nm
Asymmetry	0.648		
Theta	55.1°		

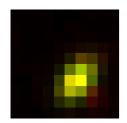
XY profile & fitting parameters :

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





Fitted 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 = 835.405 (brightness)

B = 125.617 (background)

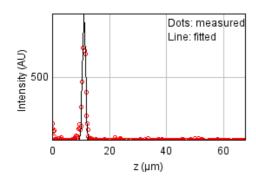
a = 0.553 px

b = 0.185 px

c = 0.416 px

xc = 5.674 pxyc = 5.979 px

Z profile & fitting parameters:



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

Sum of residuals squared: 87437.5227

Standard deviation: 16.87640

R^2: 0.96550 Parameters: a = 116.44913

b = 894.34149

c = 11.16447

Date: Mon Oct 17 13:28:19 PDT 2022

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

Frame size: 10 pixels

Coordinates: -78.8 um (x), 77.3 um (y), 11.4 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	483 nm	499 nm	223 nm
max	564 nm	583 nm	223 nm
Z	1.84 um	1.85 um	885 nm
Asymmetry	0.856		
Theta	-23.8°		

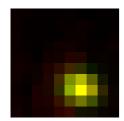
XY profile & fitting parameters :

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





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



Parameters:

A = 397.411 (brightness)

B = 123.336 (background)

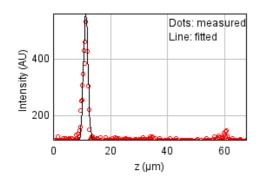
a = 0.447 px

b = -0.057 px

c = 0.551 px

xc = 5.905 pxyc = 6.787 px

Z profile & fitting parameters:



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

Sum of residuals squared: 104386.271

Standard deviation: 18.43964

R^2: 0.91994 Parameters:

a = 115.16223

b = 560.66064

c = 11.42434

Date: Mon Oct 17 13:28:19 PDT 2022

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

Frame size: 10 pixels

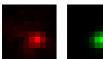
Coordinates: -116 um (x), 75.0 um (y), 10.5 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	437 nm	452 nm	223 nm
max	544 nm	562 nm	223 nm
Z	1.9 um	1.91 um	885 nm
Asymmetry	0.804		
Theta	12.7°		

XY profile & fitting parameters :

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





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



Parameters:

A = 326.901(brightness)

B = 123.141(background)

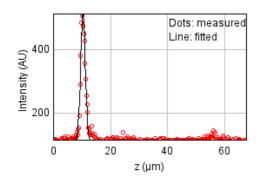
a = 0.466 px

b = 0.053 px

c = 0.691 px

xc = 5.858 pxyc = 6.037 px

Z profile & fitting parameters:



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

Sum of residuals squared: 38182.6433

Standard deviation: 11.15228

R^2: 0.96357 Parameters: a = 113.84158b = 516.27346

c = 10.45344

Date: Mon Oct 17 13:28:19 PDT 2022

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

Frame size: 10 pixels

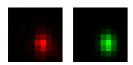
Coordinates: 26.4 um (x), 65.5 um (y), 11.0 um (z)

Corresponding bead: Not found

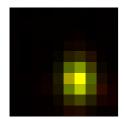
FWHM	Non corrected	Corrected	Theoretical
min	446 nm	461 nm	223 nm
max	586 nm	606 nm	223 nm
Z	1.47 um	1.48 um	885 nm
Asymmetry	0.76		
Theta	-85.8°		

XY profile & fitting parameters :

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



Fitted 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:

 $A = 998.369 \quad (brightness)$

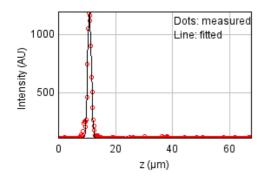
B = 127.782 (background) a = 0.673 px

b = -0.021 px

c = 0.392 px

xc = 5.836 pxyc = 6.167 px

Z profile & fitting parameters:



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

Sum of residuals squared: 94276.3495

Standard deviation: 17.52396

R^2: 0.98354 Parameters: a = 116.08028 b = 1191.52550 c = 10.97597

Date: Mon Oct 17 13:28:19 PDT 2022

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

Frame size: 10 pixels

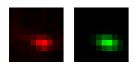
Coordinates: -133 um (x), 63.8 um (y), 10.5 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	372 nm	385 nm	223 nm
max	627 nm	648 nm	223 nm
Z	1.46 um	1.46 um	885 nm
Asymmetry	0.594		
Theta	-11.3°		

XY profile & fitting parameters :

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



Fitted 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 = 417.576 (brightness)

B = 121.636 (background)

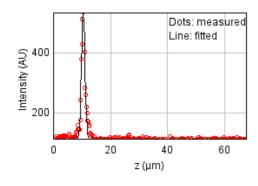
a = 0.366 px

b = -0.121 px

c = 0.945 px

xc = 5.662 pxyc = 6.005 px

Z profile & fitting parameters:



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

Sum of residuals squared: 37734.6051

Standard deviation: 11.08666

R^2: 0.95799 Parameters: a = 112.64985 b = 535.11885 c = 10.54996

Date: Mon Oct 17 13:28:19 PDT 2022

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

Frame size: 10 pixels

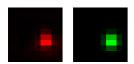
Coordinates: 25.4 um (x), 43.4 um (y), 11.3 um (z)

Corresponding bead: Not found

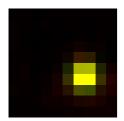
FWHM	Non corrected	Corrected	Theoretical
min	408 nm	422 nm	223 nm
max	419 nm	434 nm	223 nm
Z	1.55 um	1.56 um	885 nm
Asymmetry	0.973		
Theta	75.7°		

XY profile & fitting parameters :

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



Fitted 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 = 954.079 (brightness)

B = 123.779 (background)

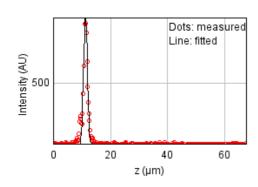
a = 0.804 px

b = 0.010 px

c = 0.766 px

xc = 6.501 pxyc = 5.722 px

Z profile & fitting parameters:



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

Sum of residuals squared: 141696.161

Standard deviation: 21.48374

R^2: 0.95921 Parameters: a = 116.47760 b = 922.47332 c = 11.34032

Date: Mon Oct 17 13:28:19 PDT 2022

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

Frame size: 10 pixels

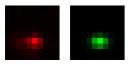
Coordinates: -112 um (x), 28.6 um (y), 11.1 um (z)

Corresponding bead: Not found

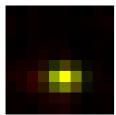
FWHM	Non corrected	Corrected	Theoretical
min	358 nm	371 nm	223 nm
max	509 nm	526 nm	223 nm
Z	1.95 um	1.95 um	885 nm
Asymmetry	0.704		
Theta	-0.2°		

XY profile & fitting parameters :

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



Fitted 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 = 530.033 (brightness)

B = 123.870 (background)

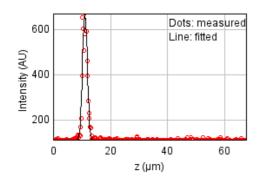
a = 0.517 px

b = -0.002 px

c = 1.045 px

xc = 4.888 pxyc = 6.169 px

Z profile & fitting parameters:



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

Sum of residuals squared: 88981.7880

Standard deviation: 17.02477

R^2: 0.95745 Parameters: a = 111.38194 b = 672.14579 c = 11.13212

Bead 454 (Rejected)

Date: Mon Oct 17 13:28:19 PDT 2022

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

Frame size: 10 pixels

Coordinates: -72.1 um (x), 20.4 um (y), 8.76 um (z)

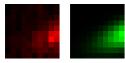
Corresponding bead: Not found

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

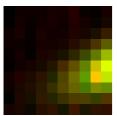
FWHM	Non corrected	Corrected	Theoretical
min	759 nm	784 nm	223 nm
max	2.23 um	2.3 um	223 nm
Z	2.06 um	2.07 um	885 nm
Asymmetry	0.34		
Theta	21.3°		

XY profile & fitting parameters :

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



Fitted on
$$i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.900$$



Parameters:

A = 238.920 (brightness) B = 116.955 (background)

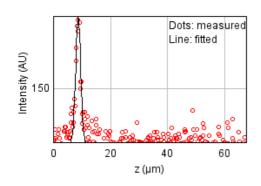
a = 0.054 px

b = 0.070 px

c = 0.206 px

xc = 12.128 pxyc = 4.190 px

Z profile & fitting parameters:



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

Sum of residuals squared: 14869.6442

Standard deviation: 6.95955

R^2: 0.77123 Parameters:

a = 112.85604

b = 199.11530

c = 8.76457

Date: Mon Oct 17 13:28:19 PDT 2022

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

Frame size: 10 pixels

Coordinates: -47.0 um (x), -8.49 um (y), 11.2 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	426 nm	440 nm	223 nm
max	578 nm	597 nm	223 nm
Z	2.07 um	2.08 um	885 nm
Asymmetry	0.737		
Theta	62.9°		

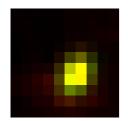
XY profile & fitting parameters :

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





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



Parameters: A = 735,312

A = 735.312 (brightness)

B = 136.080 (background)

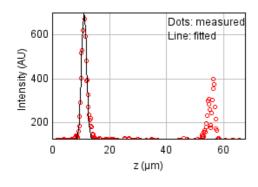
a = 0.671 px

b = 0.137 px

c = 0.472 px

xc = 5.548 pxyc = 5.607 px

Z profile & fitting parameters:



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

Sum of residuals squared: 503707.948

Standard deviation: 40.50608

R^2: 0.81571 Parameters:

a = 125.77082

b = 700.29764

c = 11.18985

Date: Mon Oct 17 13:28:20 PDT 2022

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

Frame size: 10 pixels

Coordinates: 75.3 um (x), -8.03 um (y), 10.4 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	457 nm	473 nm	223 nm
max	610 nm	630 nm	223 nm
Z	1.64 um	1.65 um	885 nm
Asymmetry	0.75		
Theta	-34.8°		

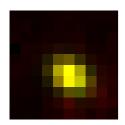
XY profile & fitting parameters :

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





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



Parameters:

A = 441.368 (brightness)

B = 120.976 (background)

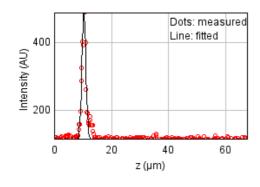
a = 0.453 px

b = -0.132 px

c = 0.551 px

xc = 5.113 pxyc = 5.484 px

Z profile & fitting parameters:



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

Sum of residuals squared: 42000.4525

Standard deviation: 11.69655

R^2: 0.94873 Parameters:

a = 113.24661

b = 492.02158

c = 10.42107

Date: Mon Oct 17 13:28:20 PDT 2022

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

Frame size: 10 pixels

Coordinates: 10.3 um (x), -21.0 um (y), 11.1 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	437 nm	452 nm	223 nm
max	631 nm	652 nm	223 nm
Z	1.96 um	1.97 um	885 nm
Asymmetry	0.693		
Theta	-68.1°		

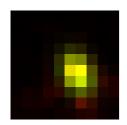
XY profile & fitting parameters :

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





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



Parameters:

A = 731.938 (brightness)

B = 129.147 (background)

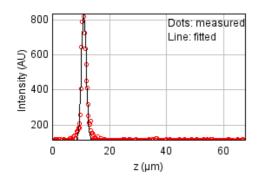
a = 0.651 px

b = -0.126 px

c = 0.388 px

xc = 5.659 pxyc = 5.253 px

Z profile & fitting parameters:



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

Sum of residuals squared: 91533.3645

Standard deviation: 17.26714

R^2: 0.97338 Parameters:

a = 115.59667

b = 838.32153

c = 11.10729

Date: Mon Oct 17 13:28:20 PDT 2022

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

Frame size: 10 pixels

Coordinates: 113 um (x), -91.5 um (y), 9.73 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	504 nm	521 nm	223 nm
max	1.91 um	1.98 um	223 nm
Z	2.02 um	2.03 um	885 nm
Asymmetry	0.264		
Theta	-49.6°		

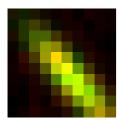
XY profile & fitting parameters :

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





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



Parameters:

A = 121.303 (brightness)

B = 111.766 (background)

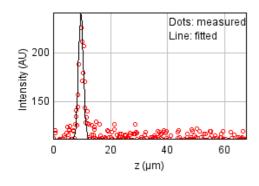
a = 0.321 px

b = -0.243 px

c = 0.244 px

xc = 5.489 pxyc = 5.943 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19985.7012

Standard deviation: 8.06846

R^2: 0.84746 Parameters:

a = 111.39627

b = 241.15080

c = 9.73355

Date: Mon Oct 17 13:28:20 PDT 2022

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

Frame size: 10 pixels

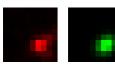
Coordinates: 80.4 um (x), 80.7 um (y), 11.0 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	461 nm	476 nm	223 nm
max	581 nm	600 nm	223 nm
Z	1.86 um	1.87 um	885 nm
Asymmetry	0.794		
Theta	34.5°		

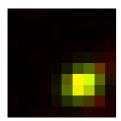
XY profile & fitting parameters :

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





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



Parameters:

A = 566.123 (brightness)

B = 120.957 (background)

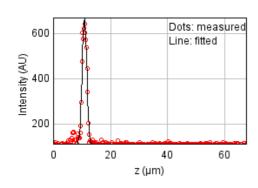
a = 0.473 px

b = 0.109 px

c = 0.557 px

xc = 6.447 pxyc = 6.398 px

Z profile & fitting parameters:



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

Sum of residuals squared: 52893.6273

Standard deviation: 13.12600

R^2: 0.97277 Parameters: a = 112.35612 b = 668.99593

c = 10.97899d = 0.78968

Bead 460 (Rejected)

Date: Mon Oct 17 13:28:20 PDT 2022

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

Frame size: 10 pixels

Coordinates: -106 um (x), 78.2 um (y), 11.1 um (z)

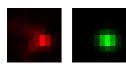
Corresponding bead: Not found

Reason of rejection: R or C parameter off limits.

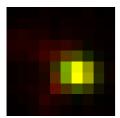
FWHM	Non corrected	Corrected	Theoretical
min	469 nm	485 nm	223 nm
max	547 nm	566 nm	223 nm
Z	2.15 um	2.16 um	885 nm
Asymmetry	0.857		
Theta	-14.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 473.931 (brightness)

B = 134.389 (background)

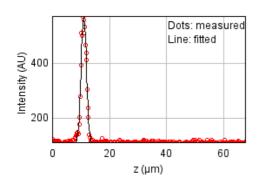
a = 0.458 px

b = -0.039 px

c = 0.601 px

xc = 5.971 pxyc = 5.525 px

Z profile & fitting parameters:



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

Sum of residuals squared: 27457.0474

Standard deviation: 9.45709

R^2: 0.98170 Parameters:

a = 112.24777

b = 570.47150

c = 11.08875

Bead 461 (Rejected)

Date: Mon Oct 17 13:28:20 PDT 2022

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

Frame size: 10 pixels

Coordinates: 146 um (x), 76.4 um (y), 10.1 um (z)

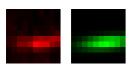
Corresponding bead: Not found

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

FWHM	Non corrected	Corrected	Theoretical
min	394 nm	407 nm	223 nm
max	1.55 um	1.6 um	223 nm
Z	2.45 um	2.46 um	885 nm
Asymmetry	0.254		
Theta	4.6°		

XY profile & fitting parameters :

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



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



A = 216.131 (brightness)

B = 118.341 (background)

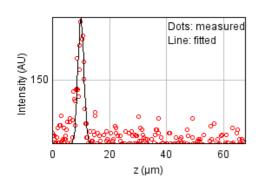
a = 0.061 px

b = 0.065 px

c = 0.859 px

xc = 6.132 pxyc = 5.681 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17264.4029

Standard deviation: 7.49906

R^2: 0.74411 Parameters:

a = 109.98097

b = 189.61205

c = 10.05977

d = 1.03920

Date: Mon Oct 17 13:28:20 PDT 2022

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

Frame size: 10 pixels

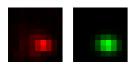
Coordinates: -85.8 um (x), 72.7 um (y), 11.8 um (z)

Corresponding bead: Not found

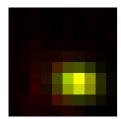
FWHM	Non corrected	Corrected	Theoretical
min	465 nm	481 nm	223 nm
max	605 nm	626 nm	223 nm
Z	2.02 um	2.02 um	885 nm
Asymmetry	0.768		
Theta	-6.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 590.326 (brightness)

B = 131.952 (background)

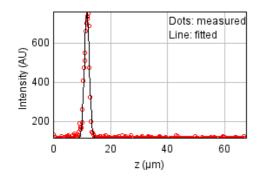
a = 0.370 px

b = -0.029 px

c = 0.617 px

xc = 5.840 pxyc = 6.366 px

Z profile & fitting parameters:



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

Sum of residuals squared: 81141.4788

Standard deviation: 16.25744

R^2: 0.97144 Parameters: a = 113.66440 b = 760.79461

c = 11.82572

Date: Mon Oct 17 13:28:20 PDT 2022

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

Frame size: 10 pixels

Coordinates: 85.8 um (x), 68.5 um (y), 10.8 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	440 nm	455 nm	223 nm
max	542 nm	560 nm	223 nm
Z	1.64 um	1.65 um	885 nm
Asymmetry	0.812		
Theta	18.2°		

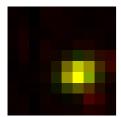
XY profile & fitting parameters :

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





Fitted on
$$i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.917$$



Parameters:

A = 430.564 (brightness)

B = 119.448 (background)

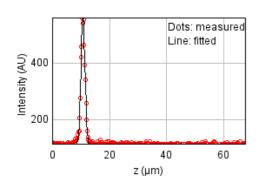
a = 0.480 px

b = 0.070 px

c = 0.670 px

xc = 6.087 pxyc = 5.675 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15846.6553

Standard deviation: 7.18455

R^2: 0.98552 Parameters:

a = 112.28947

b = 559.03034

c = 10.81145

Date: Mon Oct 17 13:28:20 PDT 2022

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

Frame size: 10 pixels

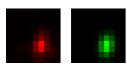
Coordinates: 19.1 um (x), 61.3 um (y), 11.1 um (z)

Corresponding bead: Not found

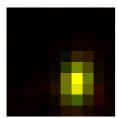
FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	612 nm	633 nm	223 nm
Z	1.41 um	1.42 um	885 nm
Asymmetry	0.683		
Theta	80.5°		

XY profile & fitting parameters :

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



Fitted 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 = 899.919 (brightness)

B = 130.199 (background)

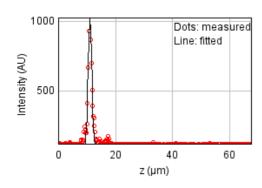
a = 0.757 px

b = 0.067 px

c = 0.369 px

xc = 5.986 pxyc = 6.344 px

Z profile & fitting parameters:



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

Sum of residuals squared: 133636.318

Standard deviation: 20.86378

R^2: 0.96715 Parameters:

a = 118.11297

b = 1034.20171

c = 11.14588

Date: Mon Oct 17 13:28:20 PDT 2022

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

Frame size: 10 pixels

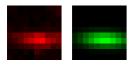
Coordinates: 148 um (x), 59.9 um (y), 9.9 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	453 nm	468 nm	223 nm
max	1.48 um	1.53 um	223 nm
Z	2.73 um	2.74 um	885 nm
Asymmetry	0.307		
Theta	-1.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 179.342 (brightness)

B = 113.588 (background)

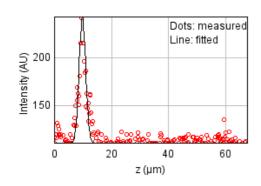
a = 0.062 px

b = -0.018 px

c = 0.654 px

xc = 5.529 pxyc = 5.785 px

Z profile & fitting parameters:



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

Sum of residuals squared: 30529.2880

Standard deviation: 9.97216

R^2: 0.83246 Parameters: a = 110.83462 b = 242.38355

c = 9.89800

d = 1.15819

Date: Mon Oct 17 13:28:21 PDT 2022

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

Frame size: 10 pixels

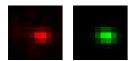
Coordinates: -128 um (x), 50.3 um (y), 10.3 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	389 nm	402 nm	223 nm
max	553 nm	572 nm	223 nm
Z	1.58 um	1.59 um	885 nm
Asymmetry	0.703		
Theta	-6.8°		

XY profile & fitting parameters :

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



Fitted 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 = 388.796 (brightness)

B = 120.771 (background)

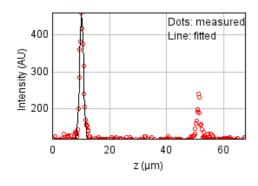
a = 0.444 px

b = -0.053 px

c = 0.881 px

xc = 5.643 pxyc = 5.156 px

Z profile & fitting parameters:



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

Sum of residuals squared: 77914.1939

Standard deviation: 15.93086

R^2: 0.88749 Parameters:

a = 116.79384

b = 460.13097

c = 10.30454

Date: Mon Oct 17 13:28:21 PDT 2022

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

Frame size: 10 pixels

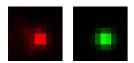
Coordinates: -105 um (x), 41.7 um (y), 11.0 um (z)

Corresponding bead: Not found

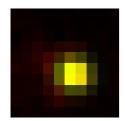
FWHM	Non corrected	Corrected	Theoretical
min	470 nm	486 nm	223 nm
max	502 nm	519 nm	223 nm
Z	1.93 um	1.94 um	885 nm
Asymmetry	0.937		
Theta	-16.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 575.860 (brightness)

B = 128.485 (background)

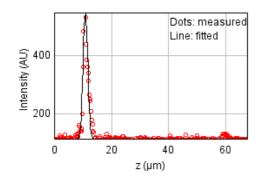
a = 0.539 px

b = -0.020 px

c = 0.601 px

xc = 5.352 pxyc = 5.506 px

Z profile & fitting parameters:



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

Sum of residuals squared: 118011.511

Standard deviation: 19.60618

R^2: 0.90977 Parameters: a = 113.90861 b = 547.87917 c = 10.96662

Date: Mon Oct 17 13:28:21 PDT 2022

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

Frame size: 10 pixels

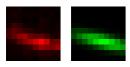
Coordinates: 146 um (x), 29.0 um (y), 9.81 um (z)

Corresponding bead: Not found

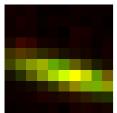
FWHM	Non corrected	Corrected	Theoretical
min	396 nm	410 nm	223 nm
max	1.86 um	1.92 um	223 nm
Z	1.91 um	1.91 um	885 nm
Asymmetry	0.213		
Theta	-13.8°		

XY profile & fitting parameters :

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



Fitted 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 = 133.705 (brightness)

B = 113.234 (background)

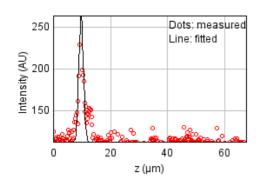
a = 0.086 px

b = -0.189 px

c = 0.808 px

xc = 5.510 pxyc = 5.999 px

Z profile & fitting parameters:



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

Sum of residuals squared: 28537.7284

Standard deviation: 9.64141

R^2: 0.83470 Parameters: a = 112.41875 b = 264.31203

c = 9.80752

Bead 469 (Rejected)

Date: Mon Oct 17 13:28:21 PDT 2022

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

Frame size: 10 pixels

Coordinates: 109 um (x), 26.2 um (y), 8.99 um (z)

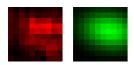
Corresponding bead: Not found

Reason of rejection: R or C parameter off limits.

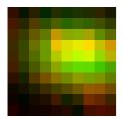
FWHM	Non corrected	Corrected	Theoretical
min	1.11 um	1.15 um	223 nm
max	1.74 um	1.8 um	223 nm
Z	1.27 um	1.27 um	885 nm
Asymmetry	0.64		
Theta	-10.0°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.709$



Parameters:

A = 77.719 (brightness)

B = 118.316 (background)

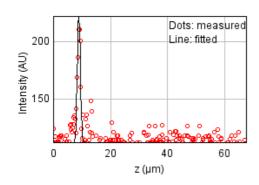
a = 0.046 px

b = -0.011 px

c = 0.106 px

xc = 6.199 pxyc = 3.899 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16690.6521

Standard deviation: 7.37339

R^2: 0.75065 Parameters:

a = 112.55062

b = 221.77753

c = 8.99127

Date: Mon Oct 17 13:28:21 PDT 2022

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

Frame size: 10 pixels

Coordinates: 99.2 um (x), -2.96 um (y), 10.9 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	375 nm	387 nm	223 nm
max	898 nm	929 nm	223 nm
Z	1.9 um	1.91 um	885 nm
Asymmetry	0.417		
Theta	-29.0°		

XY profile & fitting parameters :

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





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



Parameters:

A = 469.339 (brightness)

B = 120.936 (background)

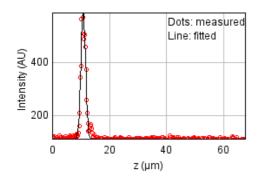
a = 0.352 px

b = -0.335 px

c = 0.770 px

xc = 5.828 pxyc = 5.461 px

Z profile & fitting parameters:



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

Sum of residuals squared: 55938.4080

Standard deviation: 13.49851

R^2: 0.96213 Parameters:

a = 112.25558

b = 590.32258

c = 10.90156

Date: Mon Oct 17 13:28:21 PDT 2022

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

Frame size: 10 pixels

Coordinates: 103 um (x), -15.0 um (y), 10.5 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	374 nm	387 nm	223 nm
max	930 nm	961 nm	223 nm
Z	1.99 um	2.0 um	885 nm
Asymmetry	0.402		
Theta	-29.2°		

XY profile & fitting parameters :

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





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



Parameters:

A = 350.951 (brightness)

B = 120.066 (background)

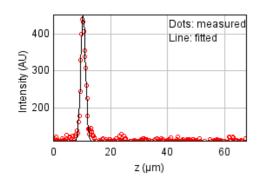
a = 0.346 px

b = -0.342 px

c = 0.768 px

xc = 5.776 pxyc = 6.332 px

Z profile & fitting parameters:



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

Sum of residuals squared: 26540.1859

Standard deviation: 9.29786

R^2: 0.96563 Parameters: a = 112.09417

b = 450.84133

c = 10.51278

Date: Mon Oct 17 13:28:21 PDT 2022

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

Frame size: 10 pixels

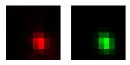
Coordinates: 57.4 um (x), -16.6 um (y), 10.7 um (z)

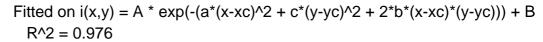
Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	411 nm	425 nm	223 nm
max	528 nm	546 nm	223 nm
Z	1.33 um	1.33 um	885 nm
Asymmetry	0.779		
Theta	-67.8°		

XY profile & fitting parameters :

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







Parameters:

A = 977.309 (brightness)

B = 122.484 (background)

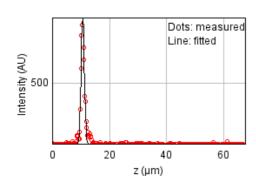
a = 0.748 px

b = -0.109 px

c = 0.526 px

xc = 5.814 pxyc = 6.371 px

Z profile & fitting parameters:



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

Sum of residuals squared: 83782.1502

Standard deviation: 16.51987

R^2: 0.97120 Parameters: a = 115.40286 b = 915.96385 c = 10.72116

Date: Mon Oct 17 13:28:21 PDT 2022

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

Frame size: 10 pixels

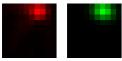
Coordinates: -96.6 um (x), -67.7 um (y), 20.0 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	515 nm	532 nm	223 nm
max	637 nm	658 nm	223 nm
Z	1.62 um	1.62 um	885 nm
Asymmetry	0.809		
Theta	-11.8°		

XY profile & fitting parameters :

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



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



A = 543.114 (brightness)

B = 122.884 (background)

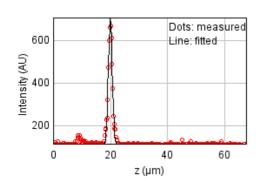
a = 0.338 px

b = -0.035 px

c = 0.499 px

xc = 6.096 pxyc = 0.817 px

Z profile & fitting parameters:



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

Sum of residuals squared: 39569.4064

Standard deviation: 11.35300

R^2: 0.97910 Parameters:

a = 114.24881

b = 703.99114

c = 20.03040

Date: Mon Oct 17 13:28:22 PDT 2022

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

Frame size: 10 pixels

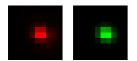
Coordinates: 79.5 um (x), -73.2 um (y), 40.6 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	420 nm	223 nm
max	471 nm	487 nm	223 nm
Z	1.6 um	1.61 um	885 nm
Asymmetry	0.862		
Theta	-20.6°		

XY profile & fitting parameters :

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



Fitted 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 = 1314.256 (brightness)

B = 126.829 (background)

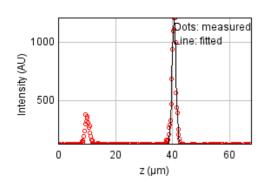
a = 0.630 px

b = -0.069 px

c = 0.787 px

xc = 5.518 pxyc = 4.783 px

Z profile & fitting parameters:



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

Sum of residuals squared: 476814.526

Standard deviation: 39.40992

R^2: 0.93035 Parameters:

a = 123.41832

b = 1221.32496

c = 40.59375

Date: Mon Oct 17 13:28:22 PDT 2022

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

Frame size: 10 pixels

Coordinates: -162 um (x), -88.5 um (y), 9.59 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	407 nm	421 nm	223 nm
max	1.22 um	1.26 um	223 nm
Z	1.87 um	1.88 um	885 nm
Asymmetry	0.335		
Theta	42.3°		

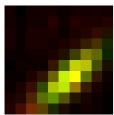
XY profile & fitting parameters :

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





Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.901$



Parameters:

A = 167.221 (brightness)

B = 119.347 (background)

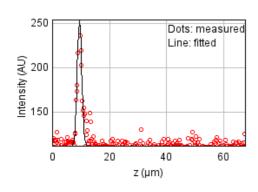
a = 0.417 px

b = 0.358 px

c = 0.483 px

xc = 5.469 pxyc = 6.103 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16067.3057

Standard deviation: 7.23440

R^2: 0.88730 Parameters: a = 111.40874

b = 254.97707

c = 9.59045

Date: Mon Oct 17 13:28:22 PDT 2022

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

Frame size: 10 pixels

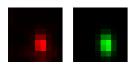
Coordinates: -8.22 um (x), 41.7 um (y), 11.3 um (z)

Corresponding bead: Not found

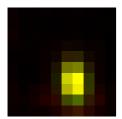
FWHM	Non corrected	Corrected	Theoretical
min	388 nm	401 nm	223 nm
max	605 nm	626 nm	223 nm
Z	1.61 um	1.61 um	885 nm
Asymmetry	0.64		
Theta	-85.3°		

XY profile & fitting parameters :

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



Fitted 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 = 871.825 (brightness)

B = 129.772 (background)

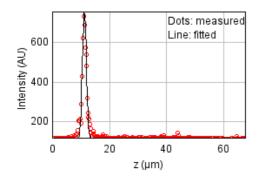
a = 0.890 px

b = -0.043 px

c = 0.370 px

xc = 5.631 pxyc = 6.359 px

Z profile & fitting parameters:



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

Sum of residuals squared: 90508.8681

Standard deviation: 17.17024

R^2: 0.96049 Parameters:

a = 116.61621

b = 760.96554

c = 11.29892

Date: Mon Oct 17 13:28:22 PDT 2022

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

Frame size: 10 pixels

Coordinates: 29.9 um (x), 29.3 um (y), 11.5 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	397 nm	410 nm	223 nm
max	637 nm	658 nm	223 nm
Z	1.66 um	1.66 um	885 nm
Asymmetry	0.624		
Theta	-80.3°		

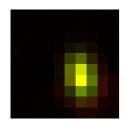
XY profile & fitting parameters :

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





Fitted 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 = 874.789 (brightness)

B = 128.730 (background)

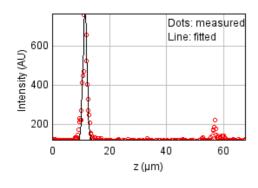
a = 0.837 px

b = -0.087 px

c = 0.346 px

xc = 6.008 pxyc = 5.677 px

Z profile & fitting parameters:



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

Sum of residuals squared: 124332.591

Standard deviation: 20.12442

R^2: 0.94926 Parameters:

a = 117.55032

b = 770.21246

c = 11.51106

Bead 478 (Rejected)

Date: Mon Oct 17 13:28:22 PDT 2022

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

Frame size: 10 pixels

Coordinates: -141 um (x), 2.55 um (y), 9.9 um (z)

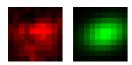
Corresponding bead: Not found

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

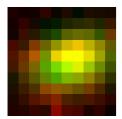
FWHM	Non corrected	Corrected	Theoretical
min	894 nm	925 nm	223 nm
max	1.34 um	1.39 um	223 nm
Z	1.17 um	1.18 um	885 nm
Asymmetry	0.666		
Theta	15.3°		

XY profile & fitting parameters :

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



Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.726$



Parameters:

A = 126.530 (brightness) B = 126.615 (background)

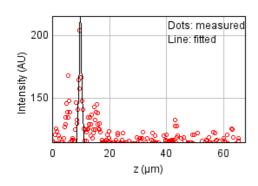
a = 0.081 px

b = 0.024 px

c = 0.161 px

xc = 5.473 pxyc = 4.402 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29153.1358

Standard deviation: 9.74481

R^2: 0.57610 Parameters:

a = 114.35703

b = 215.10139

c = 9.90340

Date: Mon Oct 17 13:28:22 PDT 2022

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

Frame size: 10 pixels

Coordinates: -76.5 um (x), -34.3 um (y), 11.7 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	481 nm	498 nm	223 nm
max	549 nm	567 nm	223 nm
Z	1.78 um	1.78 um	885 nm
Asymmetry	0.877		
Theta	22.9°		

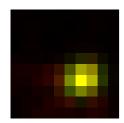
XY profile & fitting parameters :

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





Fitted on
$$i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.917$$



Parameters:

A = 805.015 (brightness)

B = 139.679 (background)

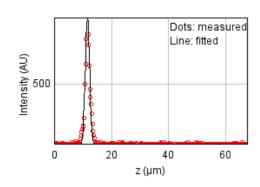
a = 0.466 px

b = 0.048 px

c = 0.559 px

xc = 6.150 pxyc = 5.879 px

Z profile & fitting parameters:



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

Sum of residuals squared: 105121.557

Standard deviation: 18.50447

R^2: 0.97301 Parameters: a = 114.42897 b = 920.09651 c = 11.67249

Bead 480 (Rejected)

Date: Mon Oct 17 13:28:22 PDT 2022

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

Frame size: 10 pixels

Coordinates: 89.9 um (x), -76.5 um (y), 8.91 um (z)

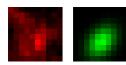
Corresponding bead: Not found

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

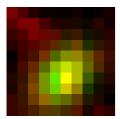
FWHM	Non corrected	Corrected	Theoretical
min	736 nm	761 nm	223 nm
max	1.05 um	1.09 um	223 nm
Z	3.36 um	3.37 um	885 nm
Asymmetry	0.701		
Theta	49.8°		

XY profile & fitting parameters :

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



Fitted on
$$i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.699$$



Parameters:

A = 71.676 (brightness)

B = 128.839 (background)

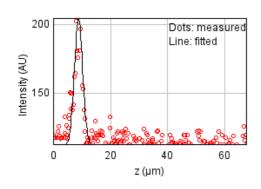
a = 0.195 px

b = 0.062 px

c = 0.174 px

xc = 4.719 pxyc = 5.904 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19307.3259

Standard deviation: 7.93034

R^2: 0.82372 Parameters: a = 112.43437 b = 204.57838

c = 8.90781

Bead 481 (Rejected)

Date: Mon Oct 17 13:28:23 PDT 2022

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

Frame size: 10 pixels

Coordinates: -143 um (x), 90.2 um (y), 24.6 um (z)

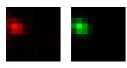
Corresponding bead: Not found

Reason of rejection: R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	400 nm	413 nm	223 nm
max	518 nm	536 nm	223 nm
Z	1.51 um	1.52 um	885 nm
Asymmetry	0.772		
Theta	-37.1°		

XY profile & fitting parameters :

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



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



A = 725.533 (brightness)

B = 115.795 (background)

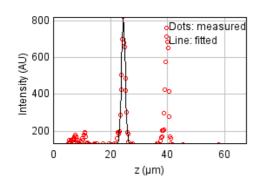
a = 0.623 px

b = -0.163 px

c = 0.716 px

xc = 1.115 pxyc = 3.177 px

Z profile & fitting parameters:



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

Sum of residuals squared: 1936625.81

Standard deviation: 79.42435

R^2: 0.54983 Parameters:

a = 132.56157

b = 819.79116

c = 24.60175

Date: Mon Oct 17 13:28:23 PDT 2022

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

Frame size: 10 pixels

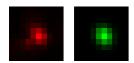
Coordinates: -67.3 um (x), 84.3 um (y), 11.9 um (z)

Corresponding bead: Not found

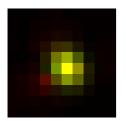
FWHM	Non corrected	Corrected	Theoretical
min	480 nm	496 nm	223 nm
max	567 nm	586 nm	223 nm
Z	1.56 um	1.56 um	885 nm
Asymmetry	0.846		
Theta	-60.6°		

XY profile & fitting parameters :

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



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



A = 539.233 (brightness)

B = 130.069 (background)

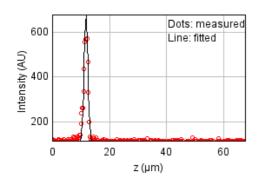
a = 0.543 px

b = -0.071 px

c = 0.457 px

xc = 4.971 pxyc = 4.907 px

Z profile & fitting parameters:



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

Sum of residuals squared: 48724.1105

Standard deviation: 12.59803

R^2: 0.97110 Parameters: a = 112.95171 b = 677.37220 c = 11.87207

Date: Mon Oct 17 13:28:23 PDT 2022

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

Frame size: 10 pixels

Coordinates: -37.9 um (x), 55.4 um (y), 12.4 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	419 nm	433 nm	223 nm
max	468 nm	484 nm	223 nm
Z	1.56 um	1.56 um	885 nm
Asymmetry	0.896		
Theta	82.9°		

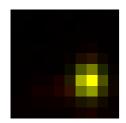
XY profile & fitting parameters :

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





Fitted 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 = 1123.169 (brightness)

B = 132.225 (background)

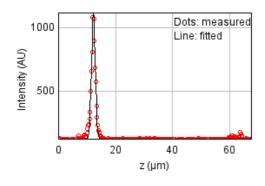
a = 0.761 px

b = 0.018 px

c = 0.615 px

xc = 6.739 pxyc = 6.099 px

Z profile & fitting parameters:



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

Sum of residuals squared: 96107.8578

Standard deviation: 17.69336

R^2: 0.98169 Parameters: a = 117.63421

b = 1118.32137

c = 12.35124

Bead 484 (Rejected)

Date: Mon Oct 17 13:28:23 PDT 2022

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

Frame size: 10 pixels

Coordinates: -34.5 um (x), 52.1 um (y), 11.7 um (z)

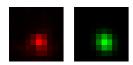
Corresponding bead: Not found

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

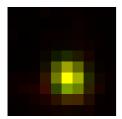
FWHM	Non corrected	Corrected	Theoretical
min	484 nm	500 nm	223 nm
max	560 nm	579 nm	223 nm
Z	3.79 um	3.81 um	885 nm
Asymmetry	0.864		
Theta	-64.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 588.660 (brightness)

B = 123.300 (background)

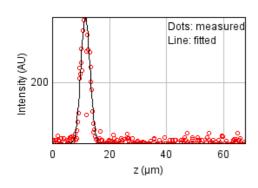
a = 0.547 px

b = -0.056 px

c = 0.455 px

xc = 5.173 pxyc = 6.019 px

Z profile & fitting parameters:



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

Sum of residuals squared: 56444.5274

Standard deviation: 13.55944

R^2: 0.87582 Parameters: a = 111.91871

a = 111.91871

b = 294.98880

c = 11.66408

Bead 485 (Rejected)

Date: Mon Oct 17 13:28:23 PDT 2022

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

Frame size: 10 pixels

Coordinates: -34.5 um (x), 52.1 um (y), 11.7 um (z)

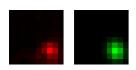
Corresponding bead: Not found

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

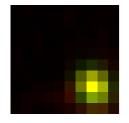
FWHM	Non corrected	Corrected	Theoretical
min	486 nm	502 nm	223 nm
max	560 nm	579 nm	223 nm
Z	3.79 um	3.81 um	885 nm
Asymmetry	0.867		
Theta	-64.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 590.621 (brightness)

B = 121.287 (background)

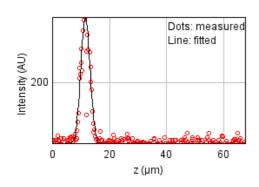
a = 0.542 px

b = -0.055 px

c = 0.453 px

xc = 7.172 pxyc = 7.017 px

Z profile & fitting parameters:



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

Sum of residuals squared: 56444.5274

Standard deviation: 13.55944

R^2: 0.87582 Parameters:

a = 111.91871

b = 294.98880

c = 11.66408

Date: Mon Oct 17 13:28:23 PDT 2022

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

Frame size: 10 pixels

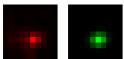
Coordinates: -100 um (x), 38.7 um (y), 11.6 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	382 nm	395 nm	223 nm
max	473 nm	489 nm	223 nm
Z	2.4 um	2.41 um	885 nm
Asymmetry	0.807		
Theta	13.6°		

XY profile & fitting parameters :

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





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



Parameters:

A = 450.566 (brightness)

B = 124.723 (background)

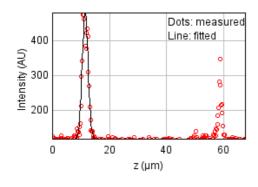
a = 0.617 px

b = 0.073 px

c = 0.903 px

xc = 5.117 pxyc = 5.989 px

Z profile & fitting parameters:



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

Sum of residuals squared: 207749.686

Standard deviation: 26.01363

R^2: 0.83188 Parameters: a = 117.01342b = 480.35765

c = 11.56526

Date: Mon Oct 17 13:28:23 PDT 2022

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

Frame size: 10 pixels

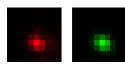
Coordinates: 70.9 um (x), 8.34 um (y), 11.7 um (z)

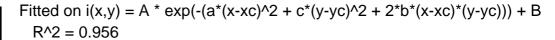
Corresponding bead: Not found

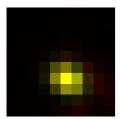
FWHM	Non corrected	Corrected	Theoretical
min	421 nm	436 nm	223 nm
max	535 nm	553 nm	223 nm
Z	1.32 um	1.32 um	885 nm
Asymmetry	0.788		
Theta	-28.5°		

XY profile & fitting parameters :

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







Parameters:

A = 1127.900 (brightness)

B = 132.118 (background)

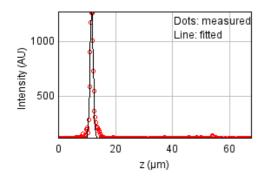
a = 0.535 px

b = -0.120 px

c = 0.690 px

xc = 5.145 pxyc = 6.089 px

Z profile & fitting parameters:



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

Sum of residuals squared: 128269.484

Standard deviation: 20.44055

R^2: 0.97868 Parameters: a = 116.99013 b = 1277.22548 c = 11.74020

Date: Mon Oct 17 13:28:23 PDT 2022

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

Frame size: 10 pixels

Coordinates: -154 um (x), -19.5 um (y), 10.9 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	388 nm	401 nm	223 nm
max	1.17 um	1.21 um	223 nm
Z	2.11 um	2.12 um	885 nm
Asymmetry	0.332		
Theta	26.7°		

XY profile & fitting parameters :

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





Fitted 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 = 284.279 (brightness)

B = 116.373 (background)

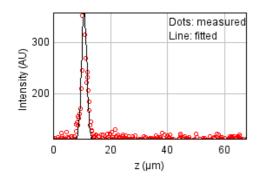
a = 0.258 px

b = 0.318 px

c = 0.730 px

xc = 5.835 pxyc = 5.700 px

Z profile & fitting parameters:



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

Sum of residuals squared: 36359.6344

Standard deviation: 10.88280

R^2: 0.92217 Parameters: a = 110.24712

b = 360.27638

c = 10.87558

Date: Mon Oct 17 13:28:23 PDT 2022

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

Frame size: 10 pixels

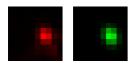
Coordinates: 37.7 um (x), -35.4 um (y), 11.2 um (z)

Corresponding bead: Not found

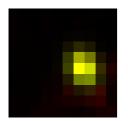
FWHM	Non corrected	Corrected	Theoretical
min	411 nm	425 nm	223 nm
max	525 nm	542 nm	223 nm
Z	1.37 um	1.37 um	885 nm
Asymmetry	0.784		
Theta	-67.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 887.209 (brightness)

B = 132.159 (background)

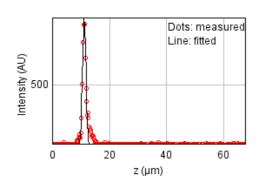
a = 0.749 px

b = -0.108 px

c = 0.532 px

xc = 6.396 pxyc = 4.945 px

Z profile & fitting parameters:



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

Sum of residuals squared: 138012.010

Standard deviation: 21.20261

R^2: 0.95644 Parameters: a = 116.70564 b = 934.53187 c = 11.23564

Bead 490 (Rejected)

Date: Mon Oct 17 13:28:23 PDT 2022

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

Frame size: 10 pixels

Coordinates: 7.72 um (x), -51.3 um (y), 11.2 um (z)

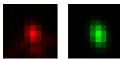
Corresponding bead: Not found

Reason of rejection: R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	447 nm	462 nm	223 nm
max	685 nm	708 nm	223 nm
Z	1.43 um	1.43 um	885 nm
Asymmetry	0.652		
Theta	-77.1°		

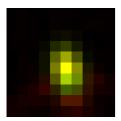
XY profile & fitting parameters :

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





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



xc = 5.074 pxyc = 5.211 px

Parameters:

A = 681.440 (brightness)

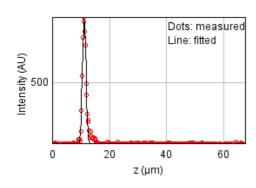
B = 133.419 (background)

a = 0.653 px

b = -0.084 px

c = 0.305 px

Z profile & fitting parameters:



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

Sum of residuals squared: 81624.3094

Standard deviation: 16.30574

R^2: 0.97382 Parameters:

a = 114.63097

b = 915.88947

c = 11.23153

Date: Mon Oct 17 13:28:23 PDT 2022

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

Frame size: 10 pixels

Coordinates: -148 um (x), -64.1 um (y), 10.6 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	364 nm	376 nm	223 nm
max	1.65 um	1.7 um	223 nm
Z	2.02 um	2.03 um	885 nm
Asymmetry	0.221		
Theta	40.0°		

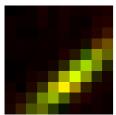
XY profile & fitting parameters :

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





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



Parameters:

A = 220.151 (brightness)

B = 114.617 (background)

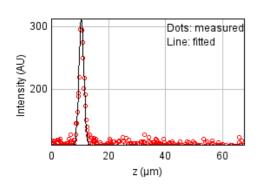
a = 0.449 px

b = 0.475 px

c = 0.615 px

xc = 5.692 pxyc = 6.237 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19982.0974

Standard deviation: 8.06773

R^2: 0.93068 Parameters: a = 111.05676

b = 312.73861

c = 10.60858

Date: Mon Oct 17 13:28:24 PDT 2022

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

Frame size: 10 pixels

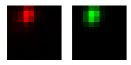
Coordinates: -114 um (x), -66.9 um (y), 32.9 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	416 nm	223 nm
max	540 nm	558 nm	223 nm
Z	1.19 um	1.19 um	885 nm
Asymmetry	0.745		
Theta	73.2°		

XY profile & fitting parameters :

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



Fitted 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 = 1544.087 (brightness)

B = 129.130 (background)

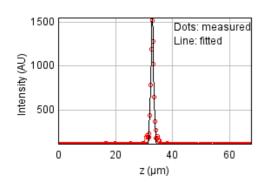
a = 0.797 px

b = 0.102 px

c = 0.491 px

xc = 3.246 pxyc = 1.273 px

Z profile & fitting parameters:



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

Sum of residuals squared: 80753.3233

Standard deviation: 16.21851

R^2: 0.99028 Parameters: a = 114.25327 b = 1555.94861 c = 32.94684

Bead 493 (Rejected)

Date: Mon Oct 17 13:28:24 PDT 2022

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

Frame size: 10 pixels

Coordinates: 106 um (x), -70.8 um (y), 10.7 um (z)

Corresponding bead: Not found

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

FWHM	Non corrected	Corrected	Theoretical
min	434 nm	449 nm	223 nm
max	1.92 um	1.99 um	223 nm
Z	1.96 um	1.96 um	885 nm
Asymmetry	0.226		
Theta	-41.6°		

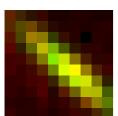
XY profile & fitting parameters :

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





Fitted on
$$i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.853$$



Parameters:

A = 129.337 (brightness)

B = 124.147 (background)

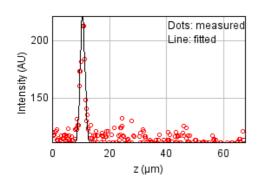
a = 0.334 px

b = -0.336 px

c = 0.415 px

xc = 5.477 pxyc = 5.018 px

Z profile & fitting parameters:



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

Sum of residuals squared: 12656.4646

Standard deviation: 6.42077

R^2: 0.85937

Parameters:

a = 111.54822

b = 221.47884

c = 10.65561

Date: Mon Oct 17 13:28:24 PDT 2022

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

Frame size: 10 pixels

Coordinates: -118 um (x), -74.0 um (y), 11.1 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	503 nm	520 nm	223 nm
max	1.43 um	1.48 um	223 nm
Z	2.5 um	2.51 um	885 nm
Asymmetry	0.352		
Theta	52.6°		

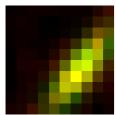
XY profile & fitting parameters :

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





Fitted 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 = 284.147 (brightness)

B = 120.252 (background)

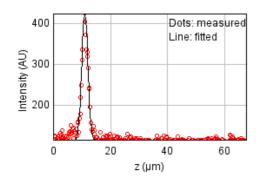
a = 0.359 px

b = 0.225 px

c = 0.238 px

xc = 6.397 pxyc = 5.375 px

Z profile & fitting parameters:



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

Sum of residuals squared: 43691.3092

Standard deviation: 11.92967

R^2: 0.94735 Parameters: a = 114.01769 b = 425.72342 c = 11.10523

Date: Mon Oct 17 13:28:24 PDT 2022

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

Frame size: 10 pixels

Coordinates: -67.3 um (x), 84.2 um (y), 12.0 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	473 nm	489 nm	223 nm
max	494 nm	511 nm	223 nm
Z	3.04 um	3.05 um	885 nm
Asymmetry	0.956		
Theta	3.6°		

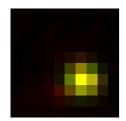
XY profile & fitting parameters :

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





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



Parameters:

A = 568.627 (brightness)

B = 126.020 (background)

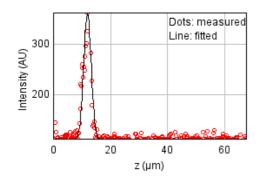
a = 0.550 px

b = 0.003 px

c = 0.601 px

xc = 6.171 pxyc = 6.081 px

Z profile & fitting parameters:



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

Sum of residuals squared: 58984.1101

Standard deviation: 13.86112

R^2: 0.91125 Parameters: a = 112.61779 b = 362.45861

c = 12.01990

Date: Mon Oct 17 13:28:24 PDT 2022

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

Frame size: 10 pixels

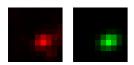
Coordinates: 90.2 um (x), 65.0 um (y), 11.9 um (z)

Corresponding bead: Not found

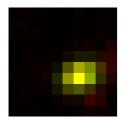
FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	567 nm	586 nm	223 nm
Z	1.99 um	2.0 um	885 nm
Asymmetry	0.727		
Theta	17.6°		

XY profile & fitting parameters :

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



Fitted 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 = 535.805 (brightness)

B = 121.573 (background)

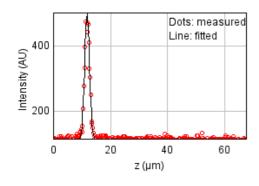
a = 0.451 px

b = 0.107 px

c = 0.755 px

xc = 6.113 pxyc = 5.765 px

Z profile & fitting parameters:



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

Sum of residuals squared: 20404.4940

Standard deviation: 8.15255

R^2: 0.97985 Parameters: a = 112.78212 b = 503.09157

c = 11.89648

Date: Mon Oct 17 13:28:24 PDT 2022

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

Frame size: 10 pixels

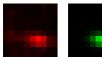
Coordinates: -145 um (x), 58.7 um (y), 11.0 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	363 nm	376 nm	223 nm
max	721 nm	745 nm	223 nm
Z	2.04 um	2.05 um	885 nm
Asymmetry	0.504		
Theta	-7.2°		

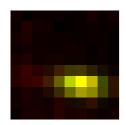
XY profile & fitting parameters :

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





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



Parameters:

A = 246.369 (brightness)

B = 118.488 (background)

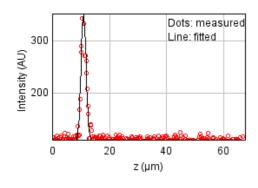
a = 0.270 px

b = -0.095 px

c = 1.004 px

xc = 5.963 pxyc = 6.256 px

Z profile & fitting parameters:



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

Sum of residuals squared: 20796.7536

Standard deviation: 8.23054

R^2: 0.94857 Parameters: a = 111.28265

b = 351.21783

c = 11.01476

Date: Mon Oct 17 13:28:24 PDT 2022

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

Frame size: 10 pixels

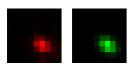
Coordinates: 81.6 um (x), 4.33 um (y), 11.7 um (z)

Corresponding bead: Not found

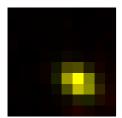
FWHM	Non corrected	Corrected	Theoretical
min	389 nm	402 nm	223 nm
max	544 nm	563 nm	223 nm
Z	1.42 um	1.43 um	885 nm
Asymmetry	0.715		
Theta	-32.8°		

XY profile & fitting parameters :

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



Fitted 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 = 981.534 (brightness)

B = 123.242 (background)

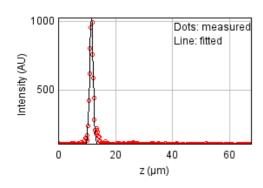
a = 0.579 px

b = -0.197 px

c = 0.759 px

xc = 6.027 pxyc = 6.299 px

Z profile & fitting parameters:



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

Sum of residuals squared: 66650.7755

Standard deviation: 14.73443

R^2: 0.98311 Parameters: a = 115.38312 b = 1022.08384 c = 11.66490

Date: Mon Oct 17 13:28:25 PDT 2022

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

Frame size: 10 pixels

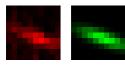
Coordinates: 145 um (x), 4.05 um (y), 10.5 um (z)

Corresponding bead: Not found

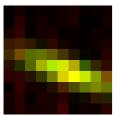
FWHM	Non corrected	Corrected	Theoretical
min	390 nm	403 nm	223 nm
max	1.55 um	1.6 um	223 nm
Z	2.44 um	2.45 um	885 nm
Asymmetry	0.252		
Theta	-19.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 123.385 (brightness)

B = 114.783 (background)

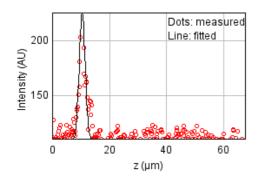
a = 0.145 px

b = -0.257 px

c = 0.794 px

xc = 5.465 pxyc = 5.582 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19712.4886

Standard deviation: 8.01312

R^2: 0.83925 Parameters: a = 110.67457

b = 224.89294

c = 10.53487

Date: Mon Oct 17 13:28:25 PDT 2022

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

Frame size: 10 pixels

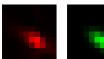
Coordinates: 91.3 um (x), -11.7 um (y), 11.7 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	387 nm	400 nm	223 nm
max	740 nm	765 nm	223 nm
Z	1.65 um	1.66 um	885 nm
Asymmetry	0.522		
Theta	-34.7°		

XY profile & fitting parameters :

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





Fitted 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 = 669.592 (brightness)

B = 122.678 (background)

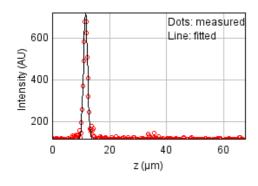
a = 0.457 px

b = -0.306 px

c = 0.686 px

xc = 5.793 pxyc = 6.206 px

Z profile & fitting parameters:



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

Sum of residuals squared: 31175.1255

Standard deviation: 10.07708

R^2: 0.98464 Parameters: a = 115.47053b = 720.88660

c = 11.70375