Date: Mon Oct 17 13:53:18 PDT 2022

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

Frame size: 12 pixels

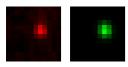
Coordinates: -159 um (x), 65.5 um (y), 36.7 um (z)

Corresponding bead: Not found

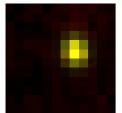
FWHM	Non corrected	Corrected	Theoretical
min	428 nm	446 nm	270 nm
max	512 nm	533 nm	270 nm
Z	2.1 um	2.11 um	1.3 um
Asymmetry	0.837		
Theta	-80.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 229.119 (brightness)

B = 114.164 (background)

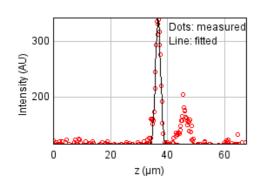
a = 0.727 px

b = -0.036 px

c = 0.519 px

xc = 7.131 pxyc = 4.700 px

Z profile & fitting parameters:



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

Sum of residuals squared: 66431.1098

Standard deviation: 14.71013

R^2: 0.84178 Parameters: a = 114.59820

b = 341.87602

c = 36.74355

Date: Mon Oct 17 13:53:18 PDT 2022

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

Frame size: 12 pixels

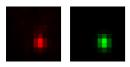
Coordinates: 7.9 um (x), 49.7 um (y), 46.4 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	381 nm	397 nm	270 nm
max	478 nm	498 nm	270 nm
Z	1.93 um	1.94 um	1.3 um
Asymmetry	0.798		
Theta	-83.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 881.664 (brightness)

B = 128.328 (background)

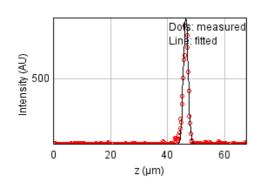
a = 0.919 px

b = -0.036 px

c = 0.591 px

xc = 6.897 pxyc = 7.382 px

Z profile & fitting parameters:



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

Sum of residuals squared: 57144.8950

Standard deviation: 13.64330

R^2: 0.98401 Parameters: a = 114.59329 b = 860.25454 c = 46.44885 d = 0.82043

Date: Mon Oct 17 13:53:18 PDT 2022

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

Frame size: 12 pixels

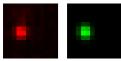
Coordinates: -137 um (x), 45.5 um (y), 25.6 um (z)

Corresponding bead: Not found

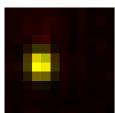
FWHM	Non corrected	Corrected	Theoretical
min	428 nm	446 nm	270 nm
max	489 nm	509 nm	270 nm
Z	2.29 um	2.3 um	1.3 um
Asymmetry	0.877		
Theta	-81.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 414.207 (brightness)

B = 118.588 (background)

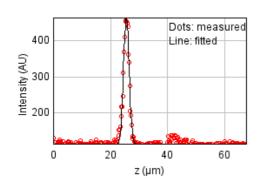
a = 0.728 px

b = -0.025 px

c = 0.566 px

xc = 3.428 pxyc = 5.710 px

Z profile & fitting parameters:



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

Sum of residuals squared: 23412.3857

Standard deviation: 8.73280

R^2: 0.97524 Parameters: a = 113.14058

b = 465.00350

c = 25.63454

Bead 2404 (Rejected)

Date: Mon Oct 17 13:53:19 PDT 2022

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

Frame size: 12 pixels

Coordinates: -57.8 um (x), 29.9 um (y), 46.4 um (z)

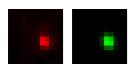
Corresponding bead: Not found

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

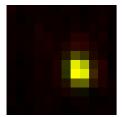
FWHM	Non corrected	Corrected	Theoretical
min	386 nm	402 nm	270 nm
max	501 nm	521 nm	270 nm
Z	3.23 um	3.24 um	1.3 um
Asymmetry	0.771		
Theta	-77.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 512.751 (brightness)

B = 120.904 (background)

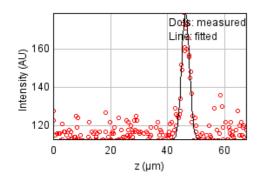
a = 0.882 px

b = -0.079 px

c = 0.554 px

xc = 7.424 pxyc = 6.635 px

Z profile & fitting parameters:



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

Sum of residuals squared: 14581.6704

Standard deviation: 6.89183

R^2: 0.75267

Parameters:

a = 112.61262

b = 178.41481

c = 46.37853

d = 1.37024

Date: Mon Oct 17 13:53:19 PDT 2022

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

Frame size: 12 pixels

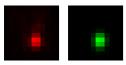
Coordinates: 67.0 um (x), -28.3 um (y), 46.4 um (z)

Corresponding bead: Not found

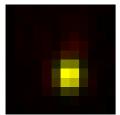
FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	520 nm	541 nm	270 nm
Z	2.13 um	2.14 um	1.3 um
Asymmetry	0.789		
Theta	86.8°		

XY profile & fitting parameters :

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



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



A = 689.154 (brightness)

B = 125.461 (background)

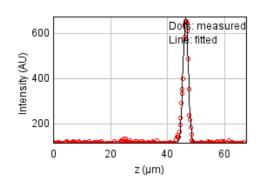
a = 0.797 px

b = 0.017 px

c = 0.498 px

xc = 6.438 pxyc = 7.227 px

Z profile & fitting parameters:



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

Sum of residuals squared: 38907.5432

Standard deviation: 11.25765

R^2: 0.98249 Parameters: a = 114.47100 b = 675.29489

c = 46.41931

Date: Mon Oct 17 13:53:19 PDT 2022

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

Frame size: 12 pixels

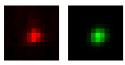
Coordinates: -84.9 um (x), -71.2 um (y), 46.3 um (z)

Corresponding bead: Not found

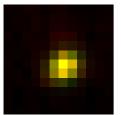
FWHM	Non corrected	Corrected	Theoretical
min	494 nm	515 nm	270 nm
max	570 nm	594 nm	270 nm
Z	2.12 um	2.13 um	1.3 um
Asymmetry	0.867		
Theta	42.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 482.318 (brightness)

B = 121.761 (background)

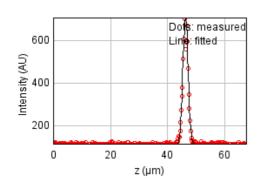
a = 0.475 px

b = 0.068 px

c = 0.487 px

xc = 6.130 pxyc = 6.227 px

Z profile & fitting parameters:



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

Sum of residuals squared: 61108.8874

Standard deviation: 14.10857

R^2: 0.97565 Parameters: a = 112.21973 b = 707.22443

c = 46.33944

Date: Mon Oct 17 13:53:19 PDT 2022

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

Frame size: 12 pixels

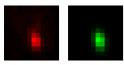
Coordinates: 77.5 um (x), 79.9 um (y), 46.4 um (z)

Corresponding bead: Not found

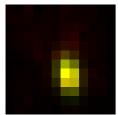
FWHM	Non corrected	Corrected	Theoretical
min	384 nm	400 nm	270 nm
max	641 nm	668 nm	270 nm
Z	1.98 um	1.99 um	1.3 um
Asymmetry	0.598		
Theta	-80.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 542.242 (brightness)

B = 124.700 (background)

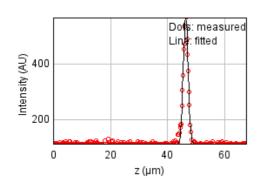
a = 0.893 px

b = -0.100 px

c = 0.344 px

xc = 6.372 pxyc = 7.174 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19225.8291

Standard deviation: 7.91359

R^2: 0.98579 Parameters:

a = 113.16144

b = 566.81463

c = 46.41756

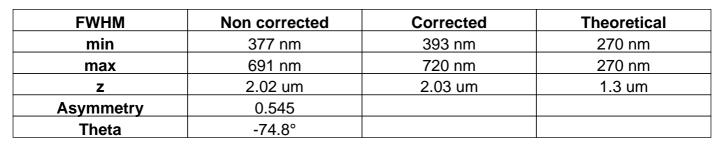
Date: Mon Oct 17 13:53:19 PDT 2022

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

Frame size: 12 pixels

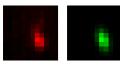
Coordinates: 108 um (x), 49.8 um (y), 46.3 um (z)

Corresponding bead: Not found

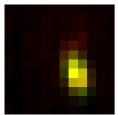


XY profile & fitting parameters :

(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 = 528.271 (brightness)

B = 118.534 (background)

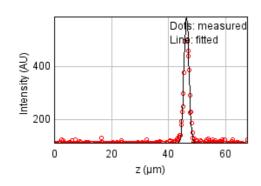
a = 0.899 px

b = -0.168 px

c = 0.327 px

xc = 7.360 pxyc = 7.041 px

Z profile & fitting parameters:



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

Sum of residuals squared: 36663.6760

Standard deviation: 10.92820

R^2: 0.97599 Parameters: a = 112.76090 b = 588.20850 c = 46.33830

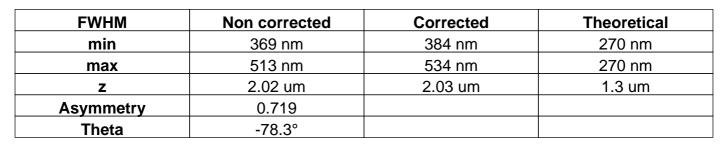
Date: Mon Oct 17 13:53:19 PDT 2022

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

Frame size: 12 pixels

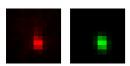
Coordinates: 78.2 um (x), 36.6 um (y), 46.4 um (z)

Corresponding bead: Not found

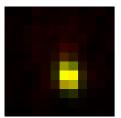


XY profile & fitting parameters :

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



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



A = 518.996 (brightness)

B = 122.123 (background)

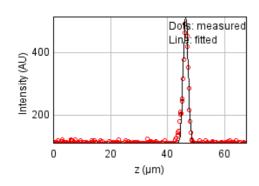
a = 0.968 px

b = -0.095 px

c = 0.530 px

xc = 6.477 pxyc = 7.079 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29149.8438

Standard deviation: 9.74426

R^2: 0.97316 Parameters: a = 112.68427

b = 512.59887

c = 46.42666

Date: Mon Oct 17 13:53:19 PDT 2022

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

Frame size: 12 pixels

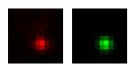
Coordinates: 57.6 um (x), 26.0 um (y), 47.2 um (z)

Corresponding bead: Not found

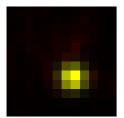
FWHM	Non corrected	Corrected	Theoretical
min	445 nm	463 nm	270 nm
max	466 nm	486 nm	270 nm
Z	1.92 um	1.92 um	1.3 um
Asymmetry	0.954		
Theta	-34.6°		

XY profile & fitting parameters :

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



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



A = 860.056 (brightness)

B = 134.784 (background)

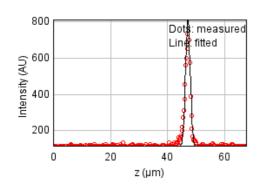
a = 0.637 px

b = -0.028 px

c = 0.658 px

xc = 6.735 pxyc = 7.237 px

Z profile & fitting parameters:



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

Sum of residuals squared: 104691.273

Standard deviation: 18.46656

R^2: 0.96729 Parameters: a = 115.13652 b = 817.52916 c = 47.19115

Bead 2411 (Rejected)

Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

Coordinates: -164 um (x), 17.8 um (y), 45.8 um (z)

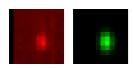
Corresponding bead: Not found

Reason of rejection: R or C parameter off limits.

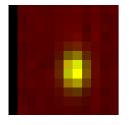
FWHM	Non corrected	Corrected	Theoretical
min	447 nm	466 nm	270 nm
max	676 nm	704 nm	270 nm
Z	2.13 um	2.13 um	1.3 um
Asymmetry	0.662		
Theta	-89.3°		

XY profile & fitting parameters :

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



Fitted on
$$i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.530$$



Parameters:

A = 228.627 (brightness)

B = 100.964 (background)

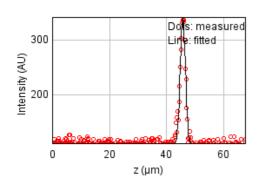
a = 0.671 px

b = -0.004 px

c = 0.294 px

xc = 6.714 pxyc = 6.662 px

Z profile & fitting parameters:



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

Sum of residuals squared: 14770.4568

Standard deviation: 6.93630

R^2: 0.96065

Parameters:

a = 112.05480

b = 340.20179

c = 45.75937

Bead 2412 (Rejected)

Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

Coordinates: 8.8 um (x), -19.2 um (y), 43.1 um (z)

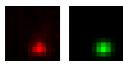
Corresponding bead: Not found

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

FWHM	Non corrected	Corrected	Theoretical
min	474 nm	493 nm	270 nm
max	540 nm	563 nm	270 nm
Z	3.16 um	3.17 um	1.3 um
Asymmetry	0.876		
Theta	10.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 423.447 (brightness)

B = 122.153 (background)

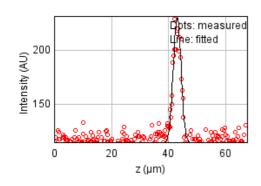
a = 0.464 px

b = 0.024 px

c = 0.594 px

xc = 6.998 pxyc = 8.775 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19041.5955

Standard deviation: 7.87558

R^2: 0.87968 Parameters:

a = 114.08542

b = 231.74840

c = 43.08967

d = 1.34243

Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

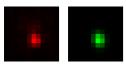
Coordinates: -112 um (x), -29.5 um (y), 46.7 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	397 nm	413 nm	270 nm
max	503 nm	524 nm	270 nm
Z	2.28 um	2.29 um	1.3 um
Asymmetry	0.789		
Theta	-78.6°		

XY profile & fitting parameters :

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



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



A = 716.959 (brightness)

B = 126.083 (background)

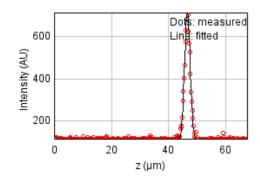
a = 0.839 px

b = -0.062 px

c = 0.542 px

xc = 6.254 pxyc = 6.765 px

Z profile & fitting parameters:



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

Sum of residuals squared: 25339.2918

Standard deviation: 9.08507

R^2: 0.99062 Parameters:

a = 111.95225

b = 713.30166

c = 46.66793

Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

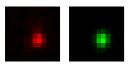
Coordinates: -38.6 um (x), -30.2 um (y), 46.7 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	437 nm	455 nm	270 nm
max	548 nm	571 nm	270 nm
Z	2.05 um	2.05 um	1.3 um
Asymmetry	0.797		
Theta	86.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 598.809 (brightness)

B = 122.359 (background)

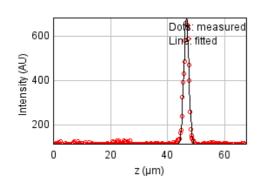
a = 0.702 px

b = 0.016 px

c = 0.448 px

xc = 6.730 pxyc = 6.771 px

Z profile & fitting parameters:



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

Sum of residuals squared: 27691.2662

Standard deviation: 9.49735

R^2: 0.98723 Parameters: a = 114.73446 b = 680.68840 c = 46.65789

Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

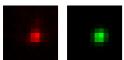
Coordinates: -91.4 um (x), -40.0 um (y), 46.8 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	417 nm	435 nm	270 nm
max	477 nm	497 nm	270 nm
Z	1.87 um	1.87 um	1.3 um
Asymmetry	0.875		
Theta	70.0°		

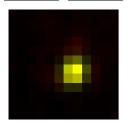
XY profile & fitting parameters :

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





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



Parameters:

A = 646.588 (brightness)

B = 124.788 (background)

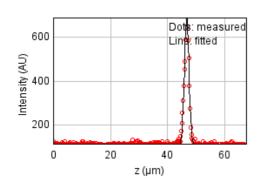
a = 0.749 px

b = 0.058 px

c = 0.611 px

xc = 6.650 pxyc = 6.267 px

Z profile & fitting parameters:



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

Sum of residuals squared: 31138.2697

Standard deviation: 10.07113

R^2: 0.98501 Parameters: a = 114.02597

b = 692.24328

c = 46.76905

Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

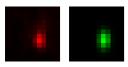
Coordinates: 148 um (x), -44.3 um (y), 46.1 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	393 nm	409 nm	270 nm
max	642 nm	668 nm	270 nm
Z	2.02 um	2.03 um	1.3 um
Asymmetry	0.612		
Theta	88.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 419.600 (brightness)

B = 117.007 (background)

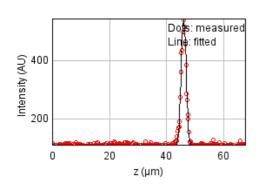
a = 0.870 px

b = 0.015 px

c = 0.326 px

xc = 7.149 pxyc = 6.791 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18901.0482

Standard deviation: 7.84646

R^2: 0.98506 Parameters: a = 111.20550 b = 545.67054

c = 46.06518d = 0.85809

Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

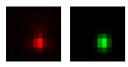
Coordinates: 90.4 um (x), -47.1 um (y), 46.8 um (z)

Corresponding bead: Not found

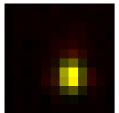
FWHM	Non corrected	Corrected	Theoretical
min	401 nm	417 nm	270 nm
max	515 nm	536 nm	270 nm
Z	2.01 um	2.02 um	1.3 um
Asymmetry	0.778		
Theta	-89.0°		

XY profile & fitting parameters :

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



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



A = 728.914 (brightness)

B = 128.793 (background)

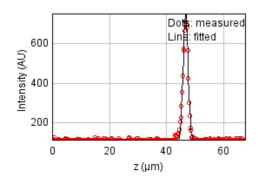
a = 0.836 px

b = -0.006 px

c = 0.506 px

xc = 6.770 pxyc = 7.425 px

Z profile & fitting parameters:



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

Sum of residuals squared: 37311.2900

Standard deviation: 11.02430

R^2: 0.98643 Parameters:

a = 112.13152

b = 754.95701

c = 46.75403

Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

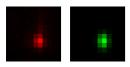
Coordinates: 23.5 um (x), -59.7 um (y), 46.7 um (z)

Corresponding bead: Not found

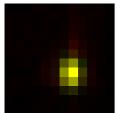
FWHM	Non corrected	Corrected	Theoretical
min	362 nm	377 nm	270 nm
max	512 nm	534 nm	270 nm
Z	2.04 um	2.05 um	1.3 um
Asymmetry	0.706		
Theta	89.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 728.644 (brightness)

B = 125.435 (background)

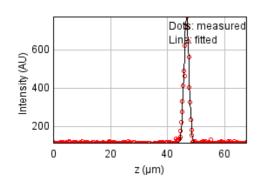
a = 1.025 px

b = 0.008 px

c = 0.511 px

xc = 6.774 pxyc = 7.065 px

Z profile & fitting parameters:



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

Sum of residuals squared: 43844.9275

Standard deviation: 11.95062

R^2: 0.98504 Parameters:

a = 114.05447

b = 772.52559

c = 46.70171

Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

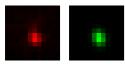
Coordinates: -116 um (x), -70.2 um (y), 46.5 um (z)

Corresponding bead: Not found

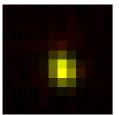
FWHM	Non corrected	Corrected	Theoretical
min	423 nm	440 nm	270 nm
max	540 nm	562 nm	270 nm
Z	2.24 um	2.24 um	1.3 um
Asymmetry	0.784		
Theta	-72.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 494.417 (brightness)

B = 120.919 (background)

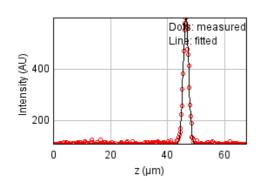
a = 0.725 px

b = -0.082 px

c = 0.486 px

xc = 6.063 pxyc = 6.616 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15611.9291

Standard deviation: 7.13114

R^2: 0.99104 Parameters:

a = 111.22697

b = 598.76226

c = 46.51448

Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

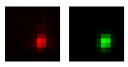
Coordinates: -23.9 um (x), -71.0 um (y), 46.7 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	506 nm	527 nm	270 nm
Z	2.11 um	2.12 um	1.3 um
Asymmetry	0.769		
Theta	76.9°		

XY profile & fitting parameters :

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



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



Parameters:

A = 835.978 (brightness)

B = 126.908 (background)

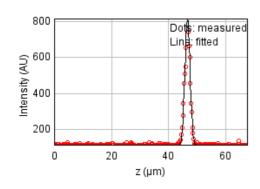
a = 0.868 px

b = 0.080 px

c = 0.544 px

xc = 7.396 pxyc = 7.263 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29519.8358

Standard deviation: 9.80591

R^2: 0.99138 Parameters: a = 113.69347 b = 816.29113

c = 46.69838

Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

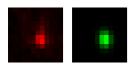
Coordinates: 154 um (x), -73.0 um (y), 45.9 um (z)

Corresponding bead: Not found

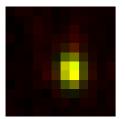
FWHM	Non corrected	Corrected	Theoretical
min	419 nm	436 nm	270 nm
max	577 nm	601 nm	270 nm
Z	2.08 um	2.09 um	1.3 um
Asymmetry	0.725		
Theta	-86.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 272.898 (brightness)

B = 115.397 (background)

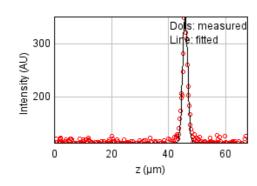
a = 0.765 px

b = -0.023 px

c = 0.405 px

xc = 6.681 pxyc = 6.468 px

Z profile & fitting parameters:



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

Sum of residuals squared: 20342.6834

Standard deviation: 8.14020

R^2: 0.95177 Parameters:

a = 111.07414

b = 354.05618

c = 45.87381

Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

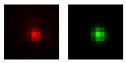
Coordinates: -103 um (x), -76.5 um (y), 46.6 um (z)

Corresponding bead: Not found

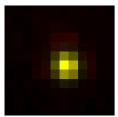
FWHM	Non corrected	Corrected	Theoretical
min	425 nm	443 nm	270 nm
max	470 nm	490 nm	270 nm
Z	2.1 um	2.11 um	1.3 um
Asymmetry	0.904		
Theta	-75.8°		

XY profile & fitting parameters :

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



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



A = 533.907 (brightness)

B = 120.200 (background)

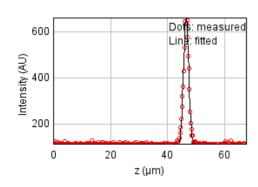
a = 0.734 px

b = -0.032 px

c = 0.615 px

xc = 6.245 pxyc = 6.076 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16803.2909

Standard deviation: 7.39823

R^2: 0.99190 Parameters: a = 111.76249 b = 660.09686

c = 46.57855

Bead 2423 (Rejected)

Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

Coordinates: -153 um (x), -93.4 um (y), 44.2 um (z)

Corresponding bead: Not found

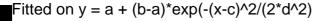
Reason of rejection: R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
Z	3.03 um	3.05 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

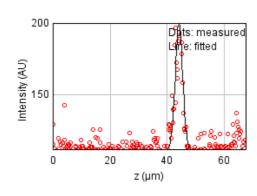
(red: the original data, green: the fit, yellow: the two merged)





Z profile & fitting parameters:





Fitted on $y = a + (b-a)^* exp(-(x-c)^2/(2^*d^2))$ Sum of residuals squared: 22046.5705

Standard deviation: 8.47425

R^2: 0.77286 Parameters: a = 111.96446 b = 200.01044 c = 44.20891

d = 1.28786

Bead 2424 (Rejected)

Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

Coordinates: 149 um (x), -95.1 um (y), 46.2 um (z)

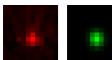
Corresponding bead: Not found

Reason of rejection: R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	487 nm	507 nm	270 nm
max	552 nm	575 nm	270 nm
Z	1.92 um	1.93 um	1.3 um
Asymmetry	0.882		
Theta	-85.0°		

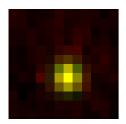
XY profile & fitting parameters :

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





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



xc = 5.940 pxyc = 6.892 px

Parameters:

A = 161.073 (brightness)

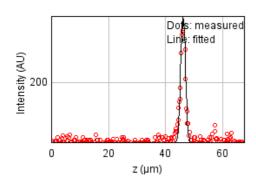
B = 114.054 (background)

a = 0.566 px

b = -0.011 px

c = 0.441 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17030.1493

Standard deviation: 7.44801

R^2: 0.92930 Parameters:

a = 110.91609

b = 299.48292

c = 46.21553

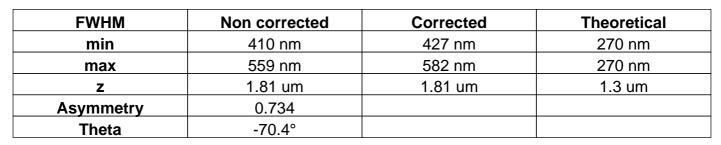
Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

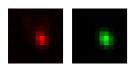
Coordinates: 47.7 um (x), 93.8 um (y), 46.7 um (z)

Corresponding bead: Not found

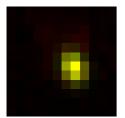


XY profile & fitting parameters :

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



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



A = 567.850 (brightness)

B = 122.323 (background)

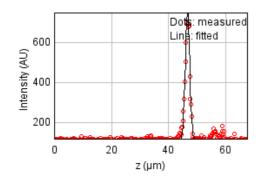
a = 0.756 px

b = -0.117 px

c = 0.471 px

xc = 6.812 pxyc = 6.132 px

Z profile & fitting parameters:



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

Sum of residuals squared: 65062.6195

Standard deviation: 14.55783

R^2: 0.97349 Parameters:

a = 117.42984

b = 752.01830

c = 46.71554

Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

Coordinates: 147 um (x), 79.1 um (y), 45.6 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	444 nm	463 nm	270 nm
max	1.36 um	1.41 um	270 nm
Z	2.04 um	2.04 um	1.3 um
Asymmetry	0.327		
Theta	-73.5°		

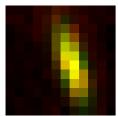
XY profile & fitting parameters :

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





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



Parameters:

A = 195.286 (brightness)

B = 113.882 (background)

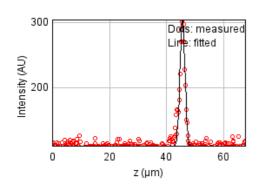
a = 0.631 px

b = -0.165 px

c = 0.122 px

xc = 6.722 pxyc = 5.838 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17777.1683

Standard deviation: 7.60960

R^2: 0.93382 Parameters:

a = 110.80151

b = 305.01644

c = 45.63006

Date: Mon Oct 17 13:53:20 PDT 2022

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

Frame size: 12 pixels

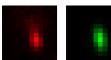
Coordinates: 132 um (x), 76.3 um (y), 46.7 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	401 nm	417 nm	270 nm
max	795 nm	828 nm	270 nm
Z	1.99 um	2.0 um	1.3 um
Asymmetry	0.504		
Theta	-80.4°		

XY profile & fitting parameters :

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





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



Parameters:

A = 359.587(brightness)

B = 121.668(background)

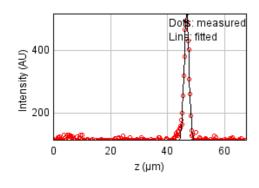
a = 0.818 px

b = -0.102 px

c = 0.230 px

xc = 6.893 pxyc = 6.803 px

Z profile & fitting parameters:



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

Sum of residuals squared: 24180.0624

Standard deviation: 8.87482

R^2: 0.97823 Parameters: a = 112.48229b = 521.32935

c = 46.72967

Date: Mon Oct 17 13:53:21 PDT 2022

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

Frame size: 12 pixels

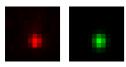
Coordinates: -126 um (x), 23.0 um (y), 46.8 um (z)

Corresponding bead: Not found

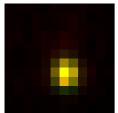
FWHM	Non corrected	Corrected	Theoretical
min	430 nm	448 nm	270 nm
max	511 nm	532 nm	270 nm
Z	2.15 um	2.16 um	1.3 um
Asymmetry	0.842		
Theta	89.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 532.502 (brightness)

B = 122.522 (background)

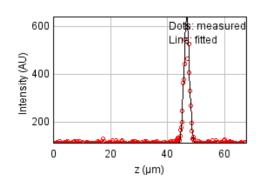
a = 0.725 px

b = 0.001 px

c = 0.514 px

xc = 6.186 pxyc = 7.135 px

Z profile & fitting parameters:



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

Sum of residuals squared: 56981.5584

Standard deviation: 13.62379

R^2: 0.97185 Parameters: a = 113.00859 b = 643.19953

c = 46.76270

Date: Mon Oct 17 13:53:21 PDT 2022

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

Frame size: 12 pixels

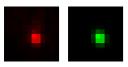
Coordinates: -52.7 um (x), 14.5 um (y), 46.8 um (z)

Corresponding bead: Not found

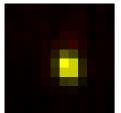
FWHM	Non corrected	Corrected	Theoretical
min	383 nm	398 nm	270 nm
max	476 nm	496 nm	270 nm
Z	1.89 um	1.89 um	1.3 um
Asymmetry	0.804		
Theta	-74.5°		

XY profile & fitting parameters :

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



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



A = 787.034 (brightness)

B = 121.952 (background)

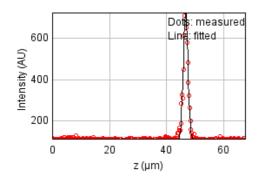
a = 0.894 px

b = -0.084 px

c = 0.616 px

xc = 6.432 pxyc = 6.393 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33088.0641

Standard deviation: 10.38165

R^2: 0.98586 Parameters: a = 114.11503 b = 725.02259 c = 46.75734

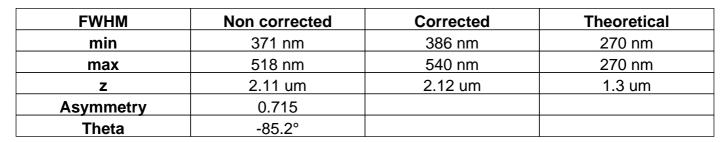
Date: Mon Oct 17 13:53:21 PDT 2022

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

Frame size: 12 pixels

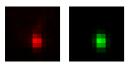
Coordinates: 56.6 um (x), -10.7 um (y), 46.9 um (z)

Corresponding bead: Not found



XY profile & fitting parameters :

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



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



A = 831.392 (brightness)

B = 129.066 (background)

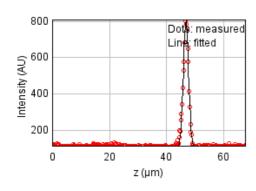
a = 0.974 px

b = -0.040 px

c = 0.503 px

xc = 6.411 pxyc = 7.129 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33690.1256

Standard deviation: 10.47568

R^2: 0.98991 Parameters: a = 114.31279 b = 807.72729

c = 46.86848

Bead 2431 (Rejected)

Date: Mon Oct 17 13:53:21 PDT 2022

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

Frame size: 12 pixels

Coordinates: -96.1 um (x), -53.2 um (y), 36.3 um (z)

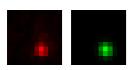
Corresponding bead: Not found

Reason of rejection: R or C parameter off limits.

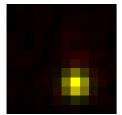
FWHM	Non corrected	Corrected	Theoretical
min	441 nm	460 nm	270 nm
max	480 nm	500 nm	270 nm
Z	2.04 um	2.05 um	1.3 um
Asymmetry	0.92		
Theta	-70.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 478.374 (brightness)

B = 120.824 (background)

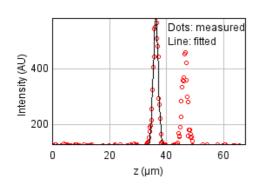
a = 0.677 px

b = -0.033 px

c = 0.594 px

xc = 7.075 pxyc = 8.222 px

Z profile & fitting parameters:



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

Sum of residuals squared: 755423.325

Standard deviation: 49.60506

R^2: 0.64989 Parameters:

a = 125.68147

b = 584.33596

c = 36.29949

Date: Mon Oct 17 13:53:21 PDT 2022

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

Frame size: 12 pixels

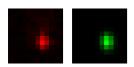
Coordinates: 140 um (x), -55.1 um (y), 46.3 um (z)

Corresponding bead: Not found

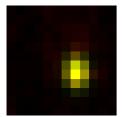
FWHM	Non corrected	Corrected	Theoretical
min	412 nm	429 nm	270 nm
max	568 nm	591 nm	270 nm
Z	2.1 um	2.11 um	1.3 um
Asymmetry	0.726		
Theta	-87.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 413.408 (brightness)

B = 117.794 (background)

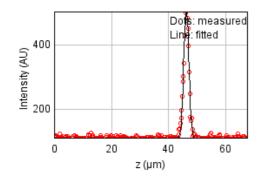
a = 0.790 px

b = -0.019 px

c = 0.417 px

xc = 7.149 pxyc = 6.748 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19476.4057

Standard deviation: 7.96499

R^2: 0.98187 Parameters: a = 110.89931

b = 502.99412

c = 46.29151

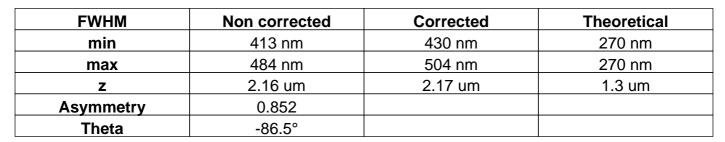
Date: Mon Oct 17 13:53:22 PDT 2022

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

Frame size: 12 pixels

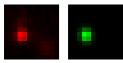
Coordinates: -102 um (x), -58.0 um (y), 47.1 um (z)

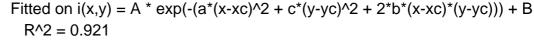
Corresponding bead: Not found

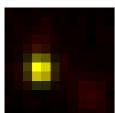


XY profile & fitting parameters :

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







Parameters:

A = 636.153 (brightness)

B = 136.720 (background)

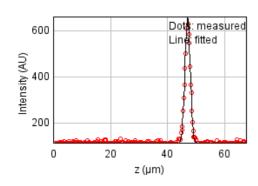
a = 0.788 px

b = -0.013 px

c = 0.573 px

xc = 3.390 pxyc = 6.246 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17922.0547

Standard deviation: 7.64055

R^2: 0.99158 Parameters: a = 112.58437

b = 660.21912

c = 47.08728

Bead 2434 (Rejected)

Date: Mon Oct 17 13:53:22 PDT 2022

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

Frame size: 12 pixels

Coordinates: 162 um (x), -68.7 um (y), 18.3 um (z)

Corresponding bead: Not found

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

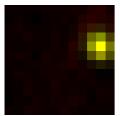
FWHM	Non corrected	Corrected	Theoretical
min	446 nm	464 nm	270 nm
max	510 nm	531 nm	270 nm
Z	2.71 um	2.72 um	1.3 um
Asymmetry	0.873		
Theta	-61.7°		

XY profile & fitting parameters :

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



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



Parameters:

A = 351.123 (brightness)

B = 117.164 (background)

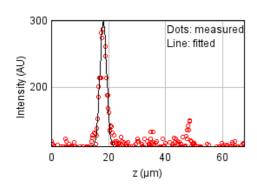
a = 0.640 px

b = -0.067 px

c = 0.552 px

xc = 9.882 pxyc = 3.984 px

Z profile & fitting parameters:



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

Sum of residuals squared: 24513.2046

Standard deviation: 8.93575

R^2: 0.92688 Parameters:

a = 112.00976

b = 300.98411

c = 18.27003

d = 1.14902

Date: Mon Oct 17 13:53:22 PDT 2022

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

Frame size: 12 pixels

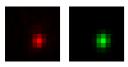
Coordinates: -86.7 um (x), -86.4 um (y), 47.1 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	409 nm	426 nm	270 nm
max	513 nm	534 nm	270 nm
Z	2.01 um	2.02 um	1.3 um
Asymmetry	0.797		
Theta	84.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 908.889 (brightness)

B = 126.250 (background)

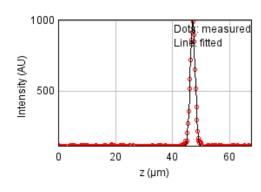
a = 0.800 px

b = 0.028 px

c = 0.513 px

xc = 6.839 pxyc = 7.028 px

Z profile & fitting parameters:



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

Sum of residuals squared: 21128.9903

Standard deviation: 8.29603

R^2: 0.99600 Parameters: a = 113.80824

b = 1008.70623

c = 47.13090

Bead 2436 (Rejected)

Date: Mon Oct 17 13:53:22 PDT 2022

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

Frame size: 12 pixels

Coordinates: -25.3 um (x), -96.2 um (y), 33.1 um (z)

Corresponding bead: Not found

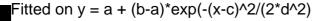
Reason of rejection: R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
Z	2.53 um	2.54 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

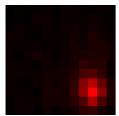
XY profile & fitting parameters :

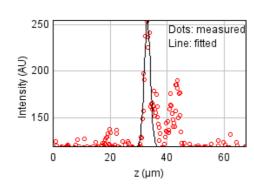
(red: the original data, green: the fit, yellow: the two merged)





Z profile & fitting parameters:





Fitted on $y = a + (b-a)^* \exp(-(x-c)^2/(2^*d^2))$ Sum of residuals squared: 82581.7354

Standard deviation: 16.40109

R^2: 0.64725 Parameters: a = 118.83399 b = 255.02672

c = 33.12880

d = 1.07436

Bead 2437 (Rejected)

Date: Mon Oct 17 13:53:22 PDT 2022

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

Frame size: 12 pixels

Coordinates: 138 um (x), 53.2 um (y), 46.6 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	400 nm	416 nm	270 nm
max	692 nm	721 nm	270 nm
Z	2.95 um	2.96 um	1.3 um
Asymmetry	0.578		
Theta	-78.3°		

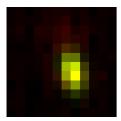
XY profile & fitting parameters :

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





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



Parameters:

A = 320.652 (brightness)

B = 119.673 (background)

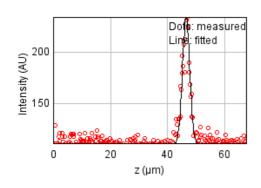
a = 0.817 px

b = -0.112 px

c = 0.303 px

xc = 6.706 pxyc = 6.542 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16417.0283

Standard deviation: 7.31271

R^2: 0.89624 Parameters:

a = 111.20245

b = 233.91479

c = 46.56473

Bead 2438 (Rejected)

Date: Mon Oct 17 13:53:22 PDT 2022

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

Frame size: 12 pixels

Coordinates: 86.1 um (x), 2.29 um (y), 43.8 um (z)

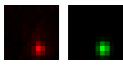
Corresponding bead: Not found

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

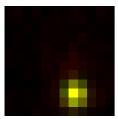
FWHM	Non corrected	Corrected	Theoretical
min	404 nm	421 nm	270 nm
max	473 nm	493 nm	270 nm
Z	3.32 um	3.34 um	1.3 um
Asymmetry	0.855		
Theta	-88.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 414.643 (brightness) B = 121.020 (background)

a = 0.821 px

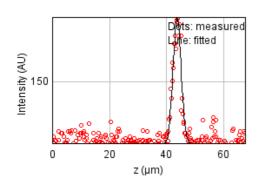
b = -0.007 px

c = 0.600 px

xc = 7.190 px

yc = 9.102 px

Z profile & fitting parameters:



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

Sum of residuals squared: 11157.2323

Standard deviation: 6.02850

R^2: 0.85474

Parameters:

a = 111.29140

b = 190.27116

c = 43.75180

Date: Mon Oct 17 13:53:22 PDT 2022

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

Frame size: 12 pixels

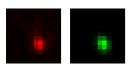
Coordinates: -102 um (x), -15.6 um (y), 47.2 um (z)

Corresponding bead: Not found

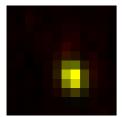
FWHM	Non corrected	Corrected	Theoretical
min	395 nm	411 nm	270 nm
max	517 nm	539 nm	270 nm
Z	2.53 um	2.54 um	1.3 um
Asymmetry	0.763		
Theta	-70.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 601.721 (brightness)

B = 125.360 (background)

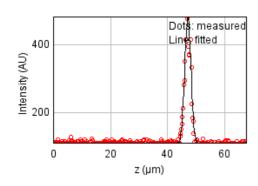
a = 0.821 px

b = -0.114 px

c = 0.542 px

xc = 6.727 pxyc = 7.254 px

Z profile & fitting parameters:



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

Sum of residuals squared: 69785.6422

Standard deviation: 15.07696

R^2: 0.94082 Parameters: a = 112.49958 b = 481.10690 c = 47.16854

Date: Mon Oct 17 13:53:23 PDT 2022

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

Frame size: 12 pixels

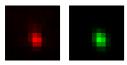
Coordinates: -38.4 um (x), -15.9 um (y), 47.4 um (z)

Corresponding bead: Not found

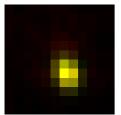
FWHM	Non corrected	Corrected	Theoretical
min	415 nm	432 nm	270 nm
max	559 nm	582 nm	270 nm
Z	2.08 um	2.08 um	1.3 um
Asymmetry	0.742		
Theta	-72.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 769.469 (brightness)

B = 128.201 (background)

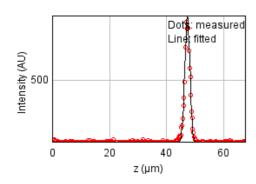
a = 0.747 px

b = -0.103 px

c = 0.463 px

xc = 6.322 pxyc = 6.970 px

Z profile & fitting parameters:



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

Sum of residuals squared: 51497.2831

Standard deviation: 12.95159

R^2: 0.98809 Parameters: a = 113.97398 b = 908.26021 c = 47.35172 d = 0.88134

Date: Mon Oct 17 13:53:23 PDT 2022

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

Frame size: 12 pixels

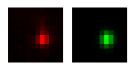
Coordinates: -155 um (x), -17.6 um (y), 46.9 um (z)

Corresponding bead: Not found

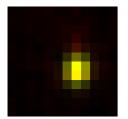
FWHM	Non corrected	Corrected	Theoretical
min	426 nm	444 nm	270 nm
max	525 nm	547 nm	270 nm
Z	1.97 um	1.98 um	1.3 um
Asymmetry	0.811		
Theta	87.2°		

XY profile & fitting parameters :

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



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



Parameters:

A = 549.226 (brightness)

B = 120.444 (background)

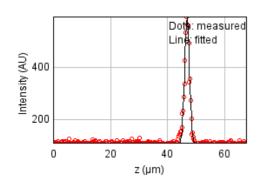
a = 0.739 px

b = 0.012 px

c = 0.487 px

xc = 7.111 pxyc = 6.441 px

Z profile & fitting parameters:



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

Sum of residuals squared: 26168.0846

Standard deviation: 9.23245

R^2: 0.98280 Parameters: a = 112.12199 b = 593.37508

c = 46.90533

Date: Mon Oct 17 13:53:23 PDT 2022

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

Frame size: 12 pixels

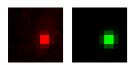
Coordinates: -153 um (x), -92.2 um (y), 46.9 um (z)

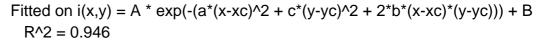
Corresponding bead: Not found

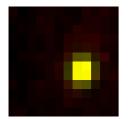
FWHM	Non corrected	Corrected	Theoretical
min	416 nm	434 nm	270 nm
max	490 nm	510 nm	270 nm
Z	2.7 um	2.72 um	1.3 um
Asymmetry	0.85		
Theta	83.8°		

XY profile & fitting parameters :

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







Parameters:

A = 413.304 (brightness)

B = 120.332 (background)

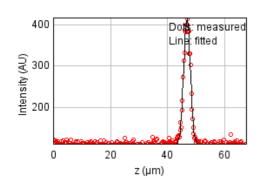
a = 0.772 px

b = 0.023 px

c = 0.562 px

xc = 7.515 pxyc = 6.494 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15083.1471

Standard deviation: 7.00933

R^2: 0.98163 Parameters:

a = 111.64652

b = 416.12744

c = 46.88815

Date: Mon Oct 17 13:53:23 PDT 2022

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

Frame size: 12 pixels

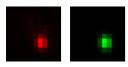
Coordinates: -41.3 um (x), 85.6 um (y), 47.4 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	382 nm	398 nm	270 nm
max	482 nm	502 nm	270 nm
Z	1.87 um	1.87 um	1.3 um
Asymmetry	0.793		
Theta	-81.7°		

XY profile & fitting parameters :

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



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



A = 959.212 (brightness)

B = 128.117 (background)

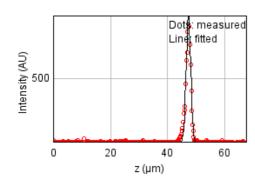
a = 0.911 px

b = -0.049 px

c = 0.584 px

xc = 7.236 pxyc = 7.422 px

Z profile & fitting parameters:



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

Sum of residuals squared: 52970.9793

Standard deviation: 13.13560

R^2: 0.98563 Parameters: a = 113.13501 b = 883.90210 c = 47.37615

Bead 2444 (Rejected)

Date: Mon Oct 17 13:53:23 PDT 2022

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

Frame size: 12 pixels

Coordinates: 148 um (x), 73.3 um (y), 47.1 um (z)

Corresponding bead: Not found

Reason of rejection: R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	398 nm	414 nm	270 nm
max	835 nm	869 nm	270 nm
Z	1.99 um	2.0 um	1.3 um
Asymmetry	0.477		
Theta	-76.5°		

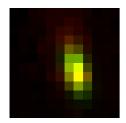
XY profile & fitting parameters :

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





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



Parameters:

A = 367.138 (brightness)

B = 122.499 (background)

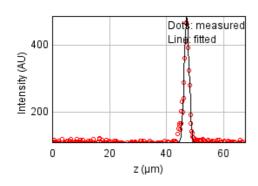
a = 0.812 px

b = -0.149 px

c = 0.228 px

xc = 6.756 pxyc = 6.276 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33254.3104

Standard deviation: 10.40770

R^2: 0.96460 Parameters:

a = 111.26632

b = 484.40857

c = 47.12089

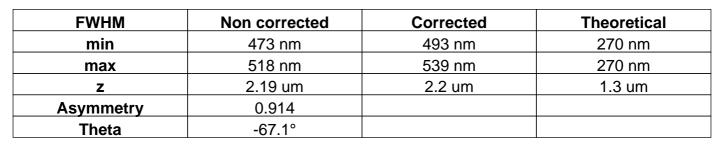
Date: Mon Oct 17 13:53:24 PDT 2022

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

Frame size: 12 pixels

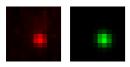
Coordinates: -133 um (x), 56.5 um (y), 46.8 um (z)

Corresponding bead: Not found

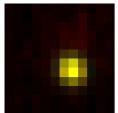


XY profile & fitting parameters :

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



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



Parameters:

A = 339.815 (brightness)

B = 120.150 (background)

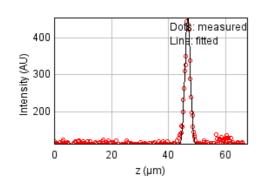
a = 0.585 px

b = -0.036 px

c = 0.516 px

xc = 6.853 pxyc = 6.709 px

Z profile & fitting parameters:



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

Sum of residuals squared: 25625.7504

Standard deviation: 9.13627

R^2: 0.97021 Parameters:

a = 113.38857

b = 455.21881

c = 46.75216

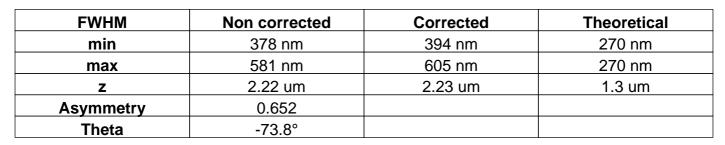
Date: Mon Oct 17 13:53:24 PDT 2022

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

Frame size: 12 pixels

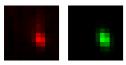
Coordinates: 83.2 um (x), 55.4 um (y), 47.2 um (z)

Corresponding bead: Not found

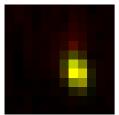


XY profile & fitting parameters :

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



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



A = 523.125 (brightness)

B = 123.147 (background)

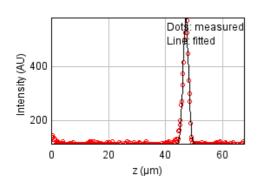
a = 0.895 px

b = -0.145 px

c = 0.440 px

xc = 7.359 pxyc = 6.850 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29283.9372

Standard deviation: 9.76665

R^2: 0.98207 Parameters:

a = 113.36347

b = 584.29930

c = 47.16314

Bead 2447 (Rejected)

Date: Mon Oct 17 13:53:24 PDT 2022

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

Frame size: 12 pixels

Coordinates: 138 um (x), 53.2 um (y), 46.6 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	397 nm	413 nm	270 nm
max	694 nm	722 nm	270 nm
Z	2.95 um	2.96 um	1.3 um
Asymmetry	0.572		
Theta	-78.5°		

XY profile & fitting parameters :

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





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



xc = 6.706 pxyc = 8.546 px

Parameters:

A = 319.338 (brightness)

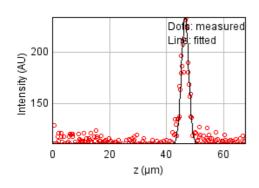
B = 120.854 (background)

a = 0.830 px

b = -0.112 px

c = 0.302 px

Z profile & fitting parameters:



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

Sum of residuals squared: 16417.0283

Standard deviation: 7.31271

R^2: 0.89624 Parameters:

a = 111.20245

b = 233.91479

c = 46.56473

Date: Mon Oct 17 13:53:24 PDT 2022

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

Frame size: 12 pixels

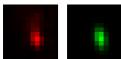
Coordinates: 159 um (x), 45.7 um (y), 47.6 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	375 nm	390 nm	270 nm
max	708 nm	738 nm	270 nm
Z	2.09 um	2.09 um	1.3 um
Asymmetry	0.529		
Theta	-80.2°		

XY profile & fitting parameters :

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





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



Parameters:

A = 607.226 (brightness)

B = 125.208 (background)

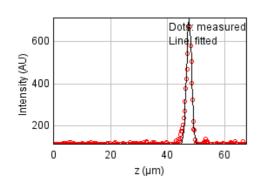
a = 0.935 px

b = -0.115 px

c = 0.287 px

xc = 6.770 pxyc = 6.838 px

Z profile & fitting parameters:



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

Sum of residuals squared: 60202.7218

Standard deviation: 14.00357

R^2: 0.97634 Parameters: a = 111.43044b = 715.61863

c = 47.59082

Date: Mon Oct 17 13:53:24 PDT 2022

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

Frame size: 12 pixels

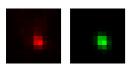
Coordinates: 30.5 um (x), 30.1 um (y), 47.5 um (z)

Corresponding bead: Not found

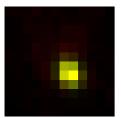
FWHM	Non corrected	Corrected	Theoretical
min	385 nm	401 nm	270 nm
max	481 nm	501 nm	270 nm
Z	2.03 um	2.04 um	1.3 um
Asymmetry	0.799		
Theta	-66.7°		

XY profile & fitting parameters :

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



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



A = 589.727 (brightness)

B = 124.954 (background)

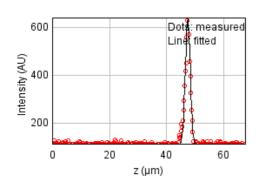
a = 0.856 px

b = -0.119 px

c = 0.631 px

xc = 6.575 pxyc = 6.762 px

Z profile & fitting parameters:



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

Sum of residuals squared: 37581.7598

Standard deviation: 11.06418

R^2: 0.97989 Parameters:

a = 112.97610

b = 638.75183

c = 47.48613

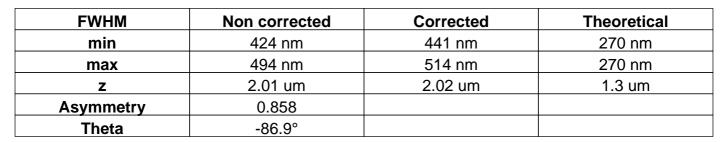
Date: Mon Oct 17 13:53:24 PDT 2022

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

Frame size: 12 pixels

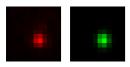
Coordinates: -65.4 um (x), 29.2 um (y), 47.7 um (z)

Corresponding bead: Not found



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 = 904.538 (brightness)

B = 131.999 (background)

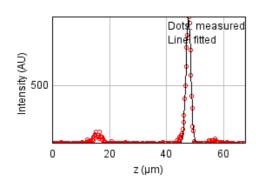
a = 0.747 px

b = -0.011 px

c = 0.551 px

xc = 6.750 pxyc = 6.830 px

Z profile & fitting parameters:



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

Sum of residuals squared: 108661.273

Standard deviation: 18.81344

R^2: 0.97719 Parameters: a = 119.75030 b = 960.66661

c = 47.70816

Date: Mon Oct 17 13:53:24 PDT 2022

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

Frame size: 12 pixels

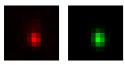
Coordinates: 20.3 um (x), 3.67 um (y), 47.0 um (z)

Corresponding bead: Not found

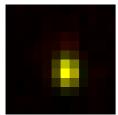
FWHM	Non corrected	Corrected	Theoretical
min	397 nm	413 nm	270 nm
max	542 nm	565 nm	270 nm
Z	2.12 um	2.13 um	1.3 um
Asymmetry	0.732		
Theta	-86.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 590.541 (brightness)

B = 121.629 (background)

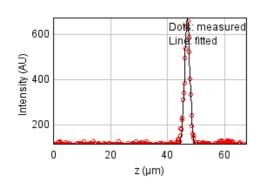
a = 0.850 px

b = -0.024 px

c = 0.458 px

xc = 6.218 pxyc = 6.814 px

Z profile & fitting parameters:



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

Sum of residuals squared: 27869.2132

Standard deviation: 9.52781

R^2: 0.98747 Parameters: a = 114.87431 b = 678.10712 c = 46.96565

Date: Mon Oct 17 13:53:24 PDT 2022

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

Frame size: 12 pixels

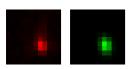
Coordinates: -131 um (x), -9.21 um (y), 47.1 um (z)

Corresponding bead: Not found

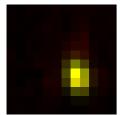
FWHM	Non corrected	Corrected	Theoretical
min	384 nm	400 nm	270 nm
max	560 nm	583 nm	270 nm
Z	2.07 um	2.08 um	1.3 um
Asymmetry	0.686		
Theta	-78.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 572.565 (brightness)

B = 121.637 (background)

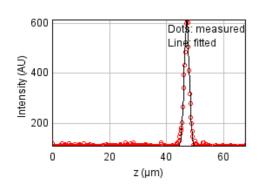
a = 0.892 px

b = -0.094 px

c = 0.447 px

xc = 7.246 pxyc = 7.351 px

Z profile & fitting parameters:



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

Sum of residuals squared: 24384.9650

Standard deviation: 8.91234

R^2: 0.98589 Parameters: a = 111.18796 b = 613.46843

c = 47.13384

Bead 2453 (Rejected)

Date: Mon Oct 17 13:53:24 PDT 2022

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

Frame size: 12 pixels

Coordinates: -283 nm (x), -19.4 um (y), 43.5 um (z)

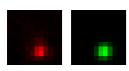
Corresponding bead: Not found

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

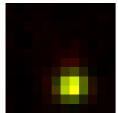
FWHM	Non corrected	Corrected	Theoretical
min	474 nm	493 nm	270 nm
max	497 nm	518 nm	270 nm
Z	3.46 um	3.48 um	1.3 um
Asymmetry	0.952		
Theta	35.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 530.077 (brightness) B = 123.890 (background)

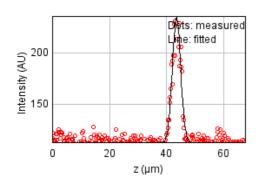
a = 0.562 px

b = 0.026 px

c = 0.579 px

xc = 6.712 pxyc = 8.560 px

Z profile & fitting parameters:



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

Sum of residuals squared: 13481.8718

Standard deviation: 6.62683

R^2: 0.92585 Parameters:

a = 112.13224

b = 236.22944

c = 43.54703

Date: Mon Oct 17 13:53:24 PDT 2022

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

Frame size: 12 pixels

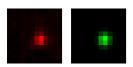
Coordinates: -99.0 um (x), -39.6 um (y), 47.5 um (z)

Corresponding bead: Not found

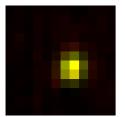
FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	477 nm	497 nm	270 nm
Z	1.88 um	1.89 um	1.3 um
Asymmetry	0.859		
Theta	80.2°		

XY profile & fitting parameters :

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



Fitted on
$$i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B R^2 = 0.950$$



A = 498.630 (brightness)

B = 122.587 (background)

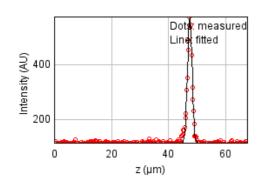
a = 0.793 px

b = 0.035 px

c = 0.596 px

xc = 6.775 pxyc = 6.309 px

Z profile & fitting parameters:



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

Sum of residuals squared: 20507.3930

Standard deviation: 8.17309

R^2: 0.98479 Parameters:

a = 113.70829

b = 577.48879

c = 47.49632

Bead 2455 (Rejected)

Date: Mon Oct 17 13:53:24 PDT 2022

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

Frame size: 12 pixels

Coordinates: 117 um (x), -59.2 um (y), 47.7 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	485 nm	506 nm	270 nm
max	654 nm	681 nm	270 nm
Z	4.17 um	4.18 um	1.3 um
Asymmetry	0.742		
Theta	-21.5°		

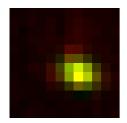
XY profile & fitting parameters :

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





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



Parameters:

A = 326.876 (brightness)

B = 117.914 (background)

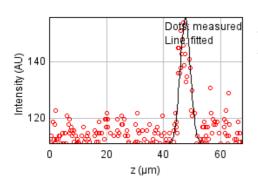
a = 0.348 px

b = -0.087 px

c = 0.535 px

xc = 7.074 pxyc = 6.571 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15530.1847

Standard deviation: 7.11245

R^2: 0.62164 Parameters:

a = 111.17066

b = 155.58089

c = 47.67938

Bead 2456 (Rejected)

Date: Mon Oct 17 13:53:25 PDT 2022

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

Frame size: 12 pixels

Coordinates: -64.8 um (x), -67.1 um (y), 43.9 um (z)

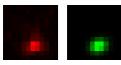
Corresponding bead: Not found

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

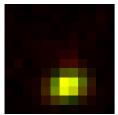
FWHM	Non corrected	Corrected	Theoretical
min	461 nm	480 nm	270 nm
max	602 nm	627 nm	270 nm
Z	2.81 um	2.82 um	1.3 um
Asymmetry	0.765		
Theta	17.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 410.142 (brightness)

B = 122.817 (background)

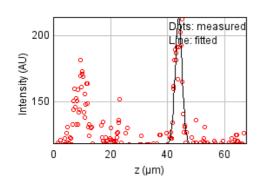
a = 0.394 px

b = 0.075 px

c = 0.609 px

xc = 6.364 pxyc = 8.422 px

Z profile & fitting parameters:



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

Sum of residuals squared: 60901.2315

Standard deviation: 14.08458

R^2: 0.57904 Parameters:

a = 117.79194

b = 214.23596

c = 43.94258

Date: Mon Oct 17 13:53:25 PDT 2022

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

Frame size: 12 pixels

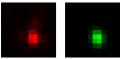
Coordinates: 98.5 um (x), -66.8 um (y), 47.6 um (z)

Corresponding bead: Not found

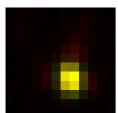
FWHM	Non corrected	Corrected	Theoretical
min	412 nm	429 nm	270 nm
max	536 nm	559 nm	270 nm
Z	1.98 um	1.99 um	1.3 um
Asymmetry	0.768		
Theta	-81.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 715.607 (brightness)

B = 124.797 (background)

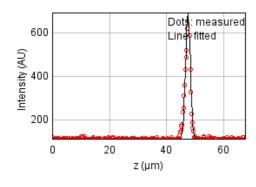
a = 0.784 px

b = -0.047 px

c = 0.474 px

xc = 6.590 pxyc = 7.282 px

Z profile & fitting parameters:



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

Sum of residuals squared: 58607.1680

Standard deviation: 13.81676

R^2: 0.97372 Parameters: a = 112.79480 b = 691.95860

c = 47.55022

Date: Mon Oct 17 13:53:25 PDT 2022

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

Frame size: 12 pixels

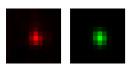
Coordinates: -94.8 um (x), -85.0 um (y), 47.0 um (z)

Corresponding bead: Not found

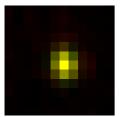
FWHM	Non corrected	Corrected	Theoretical
min	418 nm	436 nm	270 nm
max	528 nm	550 nm	270 nm
Z	2.07 um	2.08 um	1.3 um
Asymmetry	0.792		
Theta	-81.4°		

XY profile & fitting parameters :

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



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



A = 552.289 (brightness)

B = 121.431 (background)

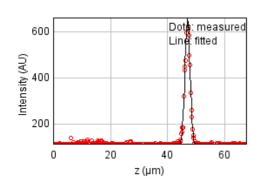
a = 0.760 px

b = -0.042 px

c = 0.488 px

xc = 6.034 pxyc = 5.924 px

Z profile & fitting parameters:



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

Sum of residuals squared: 25970.1093

Standard deviation: 9.19746

R^2: 0.98731 Parameters:

a = 113.49099

b = 660.34324

c = 47.04635

Date: Mon Oct 17 13:53:25 PDT 2022

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

Frame size: 12 pixels

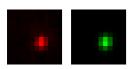
Coordinates: -73.5 um (x), -89.6 um (y), 46.8 um (z)

Corresponding bead: Not found

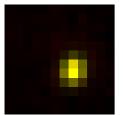
FWHM	Non corrected	Corrected	Theoretical
min	399 nm	416 nm	270 nm
max	490 nm	511 nm	270 nm
Z	2.06 um	2.07 um	1.3 um
Asymmetry	0.814		
Theta	79.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 501.603 (brightness)

B = 117.979 (background)

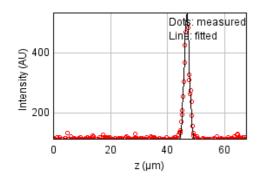
a = 0.833 px

b = 0.051 px

c = 0.568 px

xc = 7.014 pxyc = 6.673 px

Z profile & fitting parameters:



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

Sum of residuals squared: 32263.9703

Standard deviation: 10.25155

R^2: 0.97393 Parameters: a = 112.74028 b = 535.60597

c = 46.80636

Bead 2460 (Rejected)

Date: Mon Oct 17 13:53:25 PDT 2022

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

Frame size: 12 pixels

Coordinates: -57.9 um (x), 30.5 um (y), 46.4 um (z)

Corresponding bead: Not found

Reason of rejection: R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
Z	3.23 um	3.24 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

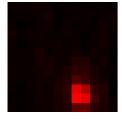
XY profile & fitting parameters :

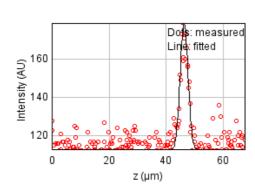
(red: the original data, green: the fit, yellow: the two merged)



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: 14581.6704

Standard deviation: 6.89183

R^2: 0.75267 Parameters: a = 112.61262 b = 178.41481

c = 46.37853

Bead 2461 (Rejected)

Date: Mon Oct 17 13:53:25 PDT 2022

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

Frame size: 12 pixels

Coordinates: -76.1 um (x), 27.4 um (y), 43.4 um (z)

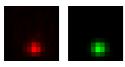
Corresponding bead: Not found

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

FWHM	Non corrected	Corrected	Theoretical
min	450 nm	468 nm	270 nm
max	489 nm	509 nm	270 nm
Z	4.5 um	4.52 um	1.3 um
Asymmetry	0.919		
Theta	-1.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 738.592 (brightness)

B = 129.701 (background)

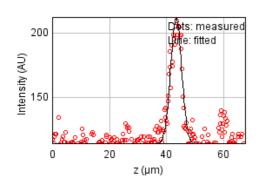
a = 0.561 px

b = -0.003 px

c = 0.664 px

xc = 6.226 pxyc = 8.796 px

Z profile & fitting parameters:



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

Sum of residuals squared: 22267.8558

Standard deviation: 8.51667

R^2: 0.85747

Parameters:

a = 114.13869

b = 212.44701

c = 43.42258

Date: Mon Oct 17 13:53:26 PDT 2022

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

Frame size: 12 pixels

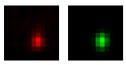
Coordinates: 2.6 um (x), 23.1 um (y), 47.4 um (z)

Corresponding bead: Not found

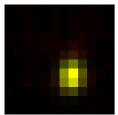
FWHM	Non corrected	Corrected	Theoretical
min	406 nm	423 nm	270 nm
max	543 nm	565 nm	270 nm
Z	1.97 um	1.97 um	1.3 um
Asymmetry	0.748		
Theta	85.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 586.364 (brightness)

B = 122.310 (background)

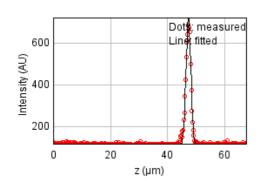
a = 0.812 px

b = 0.031 px

c = 0.458 px

xc = 6.830 pxyc = 7.300 px

Z profile & fitting parameters:



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

Sum of residuals squared: 26583.3725

Standard deviation: 9.30542

R^2: 0.98907 Parameters: a = 113.96885 b = 725.48864

c = 47.37364

Date: Mon Oct 17 13:53:26 PDT 2022

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

Frame size: 12 pixels

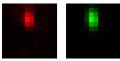
Coordinates: 124 um (x), 20.2 um (y), 50.3 um (z)

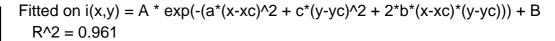
Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	378 nm	393 nm	270 nm
max	668 nm	696 nm	270 nm
Z	2.17 um	2.18 um	1.3 um
Asymmetry	0.565		
Theta	-84.8°		

XY profile & fitting parameters :

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







Parameters:

A = 481.767 (brightness)

B = 118.663 (background)

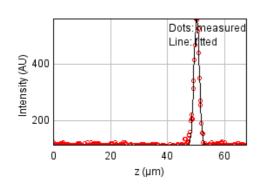
a = 0.936 px

b = -0.058 px

c = 0.306 px

xc = 5.304 pxyc = 2.869 px

Z profile & fitting parameters:



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

Sum of residuals squared: 25265.7019

Standard deviation: 9.07186

R^2: 0.98276 Parameters: a = 111.97409

α = 111.57 +05

b = 563.48813

c = 50.26717

Date: Mon Oct 17 13:53:26 PDT 2022

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

Frame size: 12 pixels

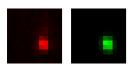
Coordinates: -85.0 um (x), 12.6 um (y), 47.2 um (z)

Corresponding bead: Not found

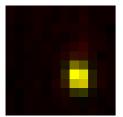
FWHM	Non corrected	Corrected	Theoretical
min	368 nm	384 nm	270 nm
max	490 nm	511 nm	270 nm
Z	1.95 um	1.96 um	1.3 um
Asymmetry	0.751		
Theta	-78.7°		

XY profile & fitting parameters :

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



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



A = 560.239 (brightness)

B = 121.009 (background)

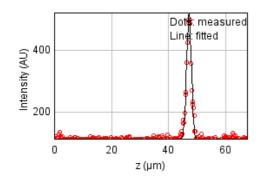
a = 0.973 px

b = -0.083 px

c = 0.575 px

xc = 7.461 pxyc = 7.295 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29222.4878

Standard deviation: 9.75640

R^2: 0.97371 Parameters:

a = 112.71360

b = 523.97448

c = 47.22426

Date: Mon Oct 17 13:53:26 PDT 2022

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

Frame size: 12 pixels

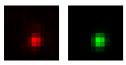
Coordinates: -80.4 um (x), -70.3 um (y), 47.8 um (z)

Corresponding bead: Not found

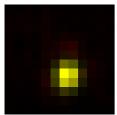
FWHM	Non corrected	Corrected	Theoretical
min	416 nm	434 nm	270 nm
max	486 nm	506 nm	270 nm
Z	2.12 um	2.13 um	1.3 um
Asymmetry	0.857		
Theta	81.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 859.302 (brightness)

B = 130.564 (background)

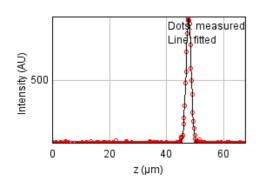
a = 0.770 px

b = 0.029 px

c = 0.572 px

xc = 6.342 pxyc = 7.265 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17471.9779

Standard deviation: 7.54400

R^2: 0.99592 Parameters: a = 112.95644 b = 897.56688

c = 47.78131d = 0.90142

Date: Mon Oct 17 13:53:26 PDT 2022

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

Frame size: 12 pixels

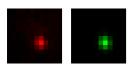
Coordinates: -96.6 um (x), 94.3 um (y), 47.5 um (z)

Corresponding bead: Not found

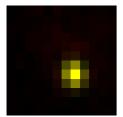
FWHM	Non corrected	Corrected	Theoretical
min	373 nm	388 nm	270 nm
max	452 nm	471 nm	270 nm
Z	2.02 um	2.02 um	1.3 um
Asymmetry	0.823		
Theta	-79.6°		

XY profile & fitting parameters :

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



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



A = 470.790 (brightness)

B = 119.773 (background)

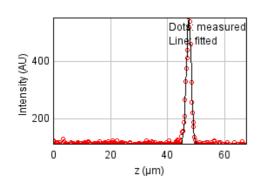
a = 0.957 px

b = -0.055 px

c = 0.666 px

xc = 6.866 pxyc = 6.982 px

Z profile & fitting parameters:



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

Sum of residuals squared: 28479.7694

Standard deviation: 9.63161

R^2: 0.97818 Parameters: a = 112.76097 b = 553.00675 c = 47.49265

Bead 2467 (Rejected)

Date: Mon Oct 17 13:53:26 PDT 2022

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

Frame size: 12 pixels

Coordinates: -143 um (x), 63.3 um (y), 46.8 um (z)

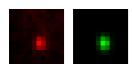
Corresponding bead: Not found

Reason of rejection: R or C parameter off limits.

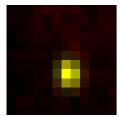
FWHM	Non corrected	Corrected	Theoretical
min	388 nm	404 nm	270 nm
max	503 nm	524 nm	270 nm
Z	2.11 um	2.12 um	1.3 um
Asymmetry	0.77		
Theta	-83.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 249.724 (brightness)

B = 117.941 (background)

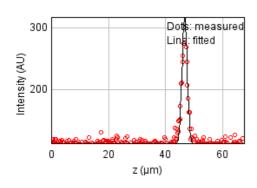
a = 0.888 px

b = -0.040 px

c = 0.534 px

xc = 6.303 pxyc = 6.986 px

Z profile & fitting parameters:



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

Sum of residuals squared: 17790.7174

Standard deviation: 7.61250

R^2: 0.94305 Parameters:

a = 111.89589

b = 318.95056

c = 46.75934

Date: Mon Oct 17 13:53:27 PDT 2022

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

Frame size: 12 pixels

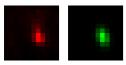
Coordinates: 104 um (x), 62.7 um (y), 47.6 um (z)

Corresponding bead : Not found

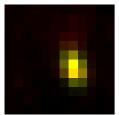
FWHM	Non corrected	Corrected	Theoretical
min	368 nm	383 nm	270 nm
max	606 nm	631 nm	270 nm
Z	1.9 um	1.9 um	1.3 um
Asymmetry	0.607		
Theta	-74.2°		

XY profile & fitting parameters :

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



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



A = 579.331 (brightness)

B = 125.747 (background)

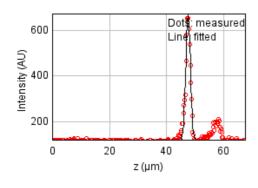
a = 0.946 px

b = -0.164 px

c = 0.412 px

xc = 7.076 pxyc = 6.351 px

Z profile & fitting parameters:



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

Sum of residuals squared: 117821.464

Standard deviation: 19.59039

R^2: 0.94238 Parameters:

a = 118.95614

b = 675.91159

c = 47.60019

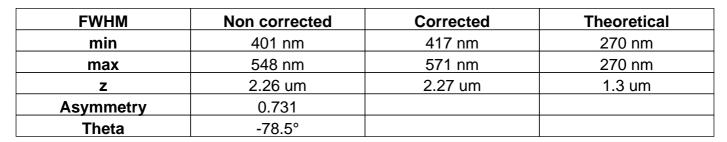
Date: Mon Oct 17 13:53:27 PDT 2022

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

Frame size: 12 pixels

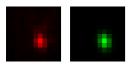
Coordinates: -136 um (x), 52.9 um (y), 48.0 um (z)

Corresponding bead: Not found

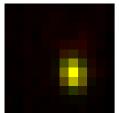


XY profile & fitting parameters :

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



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



A = 637.686 (brightness)

B = 124.079 (background)

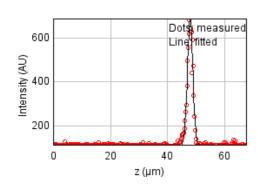
a = 0.820 px

b = -0.076 px

c = 0.462 px

xc = 6.999 pxyc = 7.117 px

Z profile & fitting parameters:



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

Sum of residuals squared: 84424.1315

Standard deviation: 16.58304

R^2: 0.96614 Parameters: a = 112.27800 b = 685.34671

c = 47.97611

Date: Mon Oct 17 13:53:27 PDT 2022

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

Frame size: 12 pixels

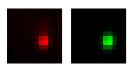
Coordinates: -43.0 um (x), 52.3 um (y), 47.4 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	385 nm	401 nm	270 nm
max	510 nm	531 nm	270 nm
Z	2.31 um	2.32 um	1.3 um
Asymmetry	0.756		
Theta	83.9°		

XY profile & fitting parameters :

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



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



A = 668.722 (brightness)

B = 122.597 (background)

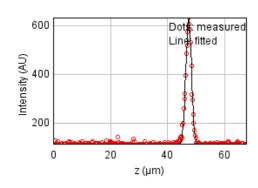
a = 0.899 px

b = 0.041 px

c = 0.521 px

xc = 7.587 pxyc = 6.671 px

Z profile & fitting parameters:



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

Sum of residuals squared: 24264.3732

Standard deviation: 8.89028

R^2: 0.98812 Parameters: a = 113.29500 b = 632.54866

c = 47.44790

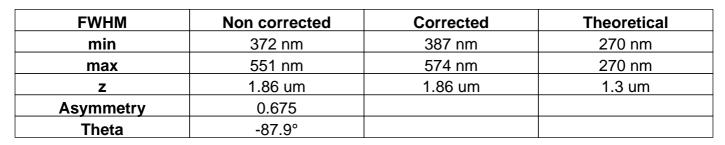
Date: Mon Oct 17 13:53:27 PDT 2022

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

Frame size: 12 pixels

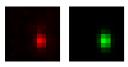
Coordinates: -131 um (x), 46.7 um (y), 47.5 um (z)

Corresponding bead: Not found

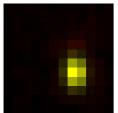


XY profile & fitting parameters :

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



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



Parameters:

A = 506.401 (brightness)

B = 121.297 (background)

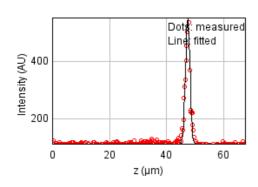
a = 0.971 px

b = -0.020 px

c = 0.443 px

xc = 7.329 pxyc = 7.025 px

Z profile & fitting parameters:



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

Sum of residuals squared: 53917.9448

Standard deviation: 13.25249

R^2: 0.95608 Parameters: a = 113.10690 b = 552.06864 c = 47.47564

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

Frame size: 12 pixels

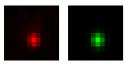
Coordinates: -65.3 um (x), 45.4 um (y), 47.9 um (z)

Corresponding bead: Not found

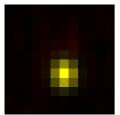
FWHM	Non corrected	Corrected	Theoretical
min	420 nm	437 nm	270 nm
max	502 nm	523 nm	270 nm
Z	2.16 um	2.17 um	1.3 um
Asymmetry	0.836		
Theta	-88.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 851.348 (brightness)

B = 130.917 (background)

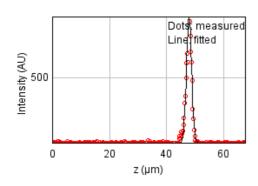
a = 0.761 px

b = -0.008 px

c = 0.533 px

xc = 6.013 pxyc = 7.080 px

Z profile & fitting parameters:



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

Sum of residuals squared: 118691.831

Standard deviation: 19.66261

R^2: 0.97075 Parameters: a = 113.78786 b = 862.62562

c = 47.93334

Date: Mon Oct 17 13:53:27 PDT 2022

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

Frame size: 12 pixels

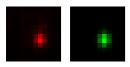
Coordinates: -14.1 um (x), 1.49 um (y), 47.6 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	379 nm	395 nm	270 nm
max	504 nm	525 nm	270 nm
Z	2.01 um	2.02 um	1.3 um
Asymmetry	0.751		
Theta	89.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 843.656 (brightness)

B = 126.172 (background)

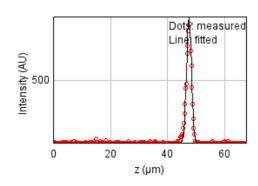
a = 0.935 px

b = 0.003 px

c = 0.528 px

xc = 6.926 pxyc = 6.750 px

Z profile & fitting parameters:



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

Sum of residuals squared: 44770.8789

Standard deviation: 12.07615

R^2: 0.98885 Parameters: a = 114.09644 b = 890.89411 c = 47.56263

Date: Mon Oct 17 13:53:27 PDT 2022

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

Frame size: 12 pixels

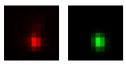
Coordinates: 40.8 um (x), -58.5 um (y), 47.9 um (z)

Corresponding bead: Not found

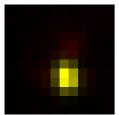
FWHM	Non corrected	Corrected	Theoretical
min	396 nm	412 nm	270 nm
max	512 nm	533 nm	270 nm
Z	1.95 um	1.95 um	1.3 um
Asymmetry	0.773		
Theta	-81.5°		

XY profile & fitting parameters :

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



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



A = 929.397 (brightness)

B = 126.786 (background)

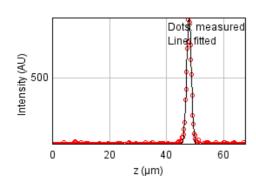
a = 0.848 px

b = -0.051 px

c = 0.519 px

xc = 6.260 pxyc = 7.453 px

Z profile & fitting parameters:



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

Sum of residuals squared: 26125.2202

Standard deviation: 9.22488

R^2: 0.99252 Parameters:

a = 113.73395

b = 851.37462

c = 47.91615

Date: Mon Oct 17 13:53:27 PDT 2022

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

Frame size: 12 pixels

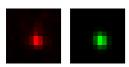
Coordinates: -13.6 um (x), -62.5 um (y), 48.0 um (z)

Corresponding bead: Not found

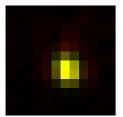
FWHM	Non corrected	Corrected	Theoretical
min	414 nm	432 nm	270 nm
max	504 nm	525 nm	270 nm
Z	1.97 um	1.97 um	1.3 um
Asymmetry	0.822		
Theta	-74.1°		

XY profile & fitting parameters :

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



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



A = 680.498 (brightness)

B = 125.395 (background)

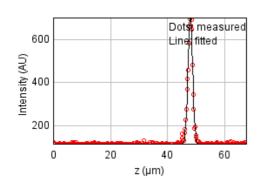
a = 0.762 px

b = -0.067 px

c = 0.547 px

xc = 6.228 pxyc = 6.500 px

Z profile & fitting parameters:



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

Sum of residuals squared: 33895.7165

Standard deviation: 10.50759

R^2: 0.98506 Parameters: a = 113.81643

b = 703.13678

c = 48.03475

Date: Mon Oct 17 13:53:27 PDT 2022

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

Frame size: 12 pixels

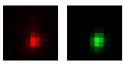
Coordinates: -108 um (x), -82.9 um (y), 47.7 um (z)

Corresponding bead: Not found

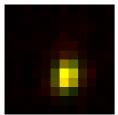
FWHM	Non corrected	Corrected	Theoretical
min	415 nm	432 nm	270 nm
max	540 nm	562 nm	270 nm
Z	2.22 um	2.23 um	1.3 um
Asymmetry	0.769		
Theta	77.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 596.259 (brightness)

B = 123.049 (background)

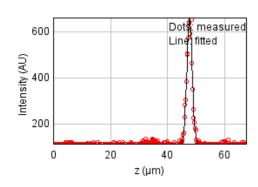
a = 0.764 px

b = 0.069 px

c = 0.477 px

xc = 6.265 pxyc = 7.316 px

Z profile & fitting parameters:



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

Sum of residuals squared: 45220.4418

Standard deviation: 12.13663

R^2: 0.97958 Parameters: a = 113.37183

b = 661.03370

c = 47.74811

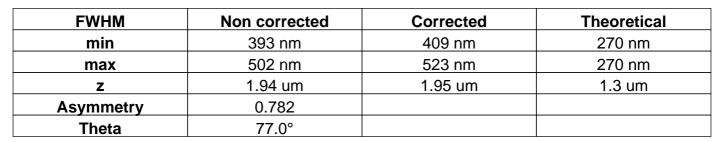
Date: Mon Oct 17 13:53:27 PDT 2022

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

Frame size: 12 pixels

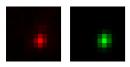
Coordinates: 2.42 um (x), -85.2 um (y), 47.9 um (z)

Corresponding bead: Not found



XY profile & fitting parameters :

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



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



Parameters:

A = 801.857 (brightness)

B = 128.227 (background)

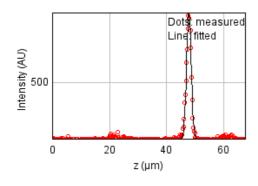
a = 0.851 px

b = 0.074 px

c = 0.549 px

xc = 6.994 pxyc = 6.950 px

Z profile & fitting parameters:



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

Sum of residuals squared: 68359.6047

Standard deviation: 14.92212

R^2: 0.98551 Parameters: a = 119.31394 b = 974.17388 c = 47.88124

Bead 2478 (Rejected)

Date: Mon Oct 17 13:53:27 PDT 2022

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

Frame size: 12 pixels

Coordinates: 102 um (x), 91.8 um (y), 43.8 um (z)

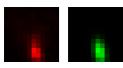
Corresponding bead: Not found

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

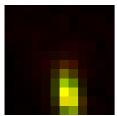
FWHM	Non corrected	Corrected	Theoretical
min	396 nm	412 nm	270 nm
max	828 nm	863 nm	270 nm
Z	3.47 um	3.49 um	1.3 um
Asymmetry	0.478		
Theta	-80.5°		

XY profile & fitting parameters :

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



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



Parameters:

A = 549.135 (brightness)

B = 127.065 (background)

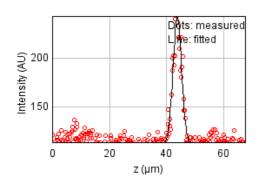
a = 0.838 px

b = -0.108 px

c = 0.214 px

xc = 6.413 pxyc = 9.310 px

Z profile & fitting parameters:



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

Sum of residuals squared: 19933.5634

Standard deviation: 8.05793

R^2: 0.90100 Parameters:

a = 113.82408

b = 242.46032

c = 43.82174

d = 1.47456

Date: Mon Oct 17 13:53:27 PDT 2022

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

Frame size: 12 pixels

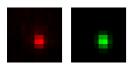
Coordinates: -35.5 um (x), 83.7 um (y), 47.9 um (z)

Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	387 nm	404 nm	270 nm
max	492 nm	512 nm	270 nm
Z	2.07 um	2.08 um	1.3 um
Asymmetry	0.788		
Theta	-86.1°		

XY profile & fitting parameters :

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



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



Parameters:

A = 877.246 (brightness)

B = 128.535 (background)

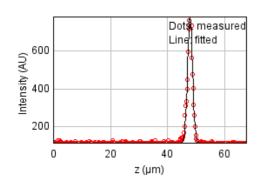
a = 0.892 px

b = -0.023 px

c = 0.556 px

xc = 6.556 pxyc = 6.845 px

Z profile & fitting parameters:



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

Sum of residuals squared: 36018.0524

Standard deviation: 10.83156

R^2: 0.98817 Parameters:

a = 113.59275

b = 780.98768

c = 47.94476

Date: Mon Oct 17 13:53:27 PDT 2022

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

Frame size: 12 pixels

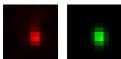
Coordinates: 148 um (x), -22.3 um (y), 47.7 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	408 nm	425 nm	270 nm
max	594 nm	619 nm	270 nm
Z	1.95 um	1.96 um	1.3 um
Asymmetry	0.687		
Theta	-86.0°		

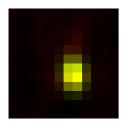
XY profile & fitting parameters :

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





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



Parameters:

A = 531.231(brightness)

B = 120.507 (background)

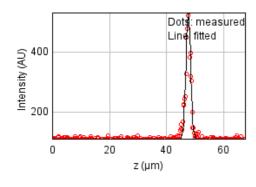
a = 0.803 px

b = -0.030 px

c = 0.382 px

xc = 6.582 pxyc = 6.651 px

Z profile & fitting parameters:



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

Sum of residuals squared: 38818.2556

Standard deviation: 11.24472

R^2: 0.96689 Parameters: a = 110.55072

b = 531.53495

c = 47.66760

Bead 2481 (Rejected)

Date: Mon Oct 17 13:53:27 PDT 2022

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

Frame size: 12 pixels

Coordinates: -135 um (x), -27.7 um (y), 45.0 um (z)

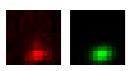
Corresponding bead: Not found

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

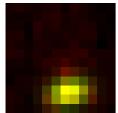
FWHM	Non corrected	Corrected	Theoretical
min	503 nm	524 nm	270 nm
max	730 nm	761 nm	270 nm
Z	3.17 um	3.18 um	1.3 um
Asymmetry	0.689		
Theta	12.6°		

XY profile & fitting parameters :

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



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



Parameters:

A = 230.221 (brightness) B = 118.445 (background)

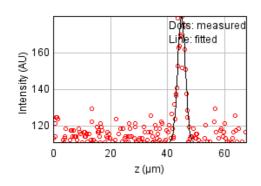
a = 0.265 px

b = 0.059 px

c = 0.517 px

xc = 6.377 pxyc = 9.240 px

Z profile & fitting parameters:



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

Sum of residuals squared: 13258.0293

Standard deviation: 6.57159

R^2: 0.78046 Parameters:

a = 111.26436

b = 179.64614

c = 44.95215

d = 1.34584

Date: Mon Oct 17 13:53:27 PDT 2022

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

Frame size: 12 pixels

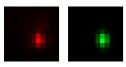
Coordinates: 35.4 um (x), -30.9 um (y), 48.1 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	380 nm	396 nm	270 nm
max	529 nm	551 nm	270 nm
Z	2.09 um	2.1 um	1.3 um
Asymmetry	0.718		
Theta	-86.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 691.351 (brightness)

B = 126.525 (background)

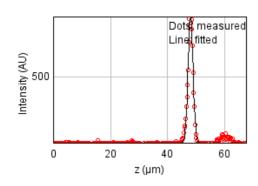
a = 0.929 px

b = -0.025 px

c = 0.481 px

xc = 7.114 pxyc = 6.804 px

Z profile & fitting parameters:



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

Sum of residuals squared: 63236.5007

Standard deviation: 14.35208

R^2: 0.98302 Parameters: a = 116.53270 b = 849.08748 c = 48.11711

Date: Mon Oct 17 13:53:27 PDT 2022

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

Frame size: 12 pixels

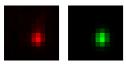
Coordinates: 47.0 um (x), -60.1 um (y), 48.0 um (z)

Corresponding bead: Not found

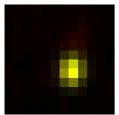
FWHM	Non corrected	Corrected	Theoretical
min	409 nm	426 nm	270 nm
max	532 nm	554 nm	270 nm
Z	2.0 um	2.01 um	1.3 um
Asymmetry	0.769		
Theta	86.5°		

XY profile & fitting parameters :

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



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



A = 673.610 (brightness)

B = 123.198 (background)

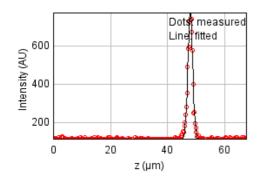
a = 0.800 px

b = 0.020 px

c = 0.475 px

xc = 6.849 pxyc = 6.699 px

Z profile & fitting parameters:



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

Sum of residuals squared: 36722.1793

Standard deviation: 10.93692

R^2: 0.98730 Parameters: a = 112.74207 b = 773.52571

c = 48.02942

Date: Mon Oct 17 13:53:28 PDT 2022

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

Frame size: 12 pixels

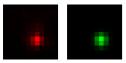
Coordinates: 21.8 um (x), -86.6 um (y), 48.1 um (z)

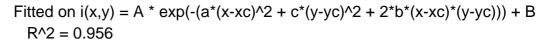
Corresponding bead: Not found

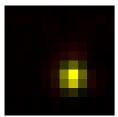
FWHM	Non corrected	Corrected	Theoretical
min	409 nm	426 nm	270 nm
max	456 nm	475 nm	270 nm
Z	1.96 um	1.97 um	1.3 um
Asymmetry	0.896		
Theta	84.1°		

XY profile & fitting parameters :

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







A = 947.961 (brightness)

B = 130.498 (background)

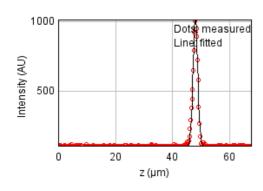
a = 0.800 px

b = 0.016 px

c = 0.646 px

xc = 6.912 pxyc = 7.272 px

Z profile & fitting parameters:



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

Sum of residuals squared: 47432.8963

Standard deviation: 12.42999

R^2: 0.99102 Parameters: a = 113.64611 b = 1017.14085 c = 48.07462

Date: Mon Oct 17 13:53:28 PDT 2022

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

Frame size: 12 pixels

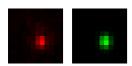
Coordinates: -131 um (x), -88.1 um (y), 47.8 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	376 nm	391 nm	270 nm
max	479 nm	499 nm	270 nm
Z	1.94 um	1.95 um	1.3 um
Asymmetry	0.783		
Theta	-89.0°		

XY profile & fitting parameters :

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



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



Parameters:

A = 506.652 (brightness)

B = 121.211 (background)

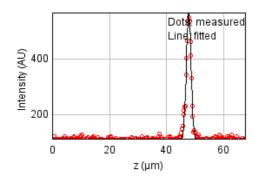
a = 0.951 px

b = -0.007 px

c = 0.584 px

xc = 6.755 pxyc = 6.744 px

Z profile & fitting parameters:



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

Sum of residuals squared: 23909.8275

Standard deviation: 8.82509

R^2: 0.98204 Parameters: a = 112.05925 b = 565.61681

000.0100

c = 47.81928

Date: Mon Oct 17 13:53:28 PDT 2022

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

Frame size: 12 pixels

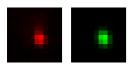
Coordinates: 74.1 um (x), 75.5 um (y), 48.5 um (z)

Corresponding bead: Not found

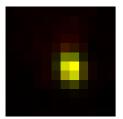
FWHM	Non corrected	Corrected	Theoretical
min	406 nm	422 nm	270 nm
max	534 nm	556 nm	270 nm
Z	1.87 um	1.88 um	1.3 um
Asymmetry	0.76		
Theta	-77.2°		

XY profile & fitting parameters :

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



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



A = 837.393 (brightness)

B = 128.702 (background)

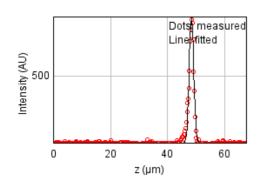
a = 0.799 px

b = -0.074 px

c = 0.488 px

xc = 6.617 pxyc = 6.235 px

Z profile & fitting parameters:



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

Sum of residuals squared: 68204.4226

Standard deviation: 14.90518

R^2: 0.97946 Parameters:

a = 114.03039

b = 841.73649

c = 48.45374

Date: Mon Oct 17 13:53:28 PDT 2022

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

Frame size: 12 pixels

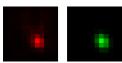
Coordinates: 44.0 um (x), 68.5 um (y), 48.4 um (z)

Corresponding bead: Not found

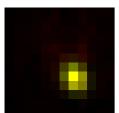
FWHM	Non corrected	Corrected	Theoretical
min	400 nm	417 nm	270 nm
max	505 nm	526 nm	270 nm
Z	1.89 um	1.9 um	1.3 um
Asymmetry	0.792		
Theta	-66.1°		

XY profile & fitting parameters :

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



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



A = 586.134 (brightness)

B = 126.337 (background)

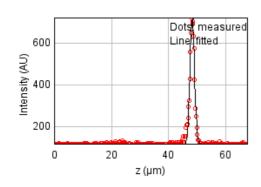
a = 0.787 px

b = -0.116 px

c = 0.577 px

xc = 7.172 pxyc = 7.159 px

Z profile & fitting parameters:



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

Sum of residuals squared: 34016.1708

Standard deviation: 10.52625

R^2: 0.98533 Parameters: a = 114.59581 b = 721.23753 c = 48.36451

Bead 2488 (Rejected)

Date: Mon Oct 17 13:53:28 PDT 2022

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

Frame size: 12 pixels

Coordinates: 135 um (x), 58.1 um (y), 45.0 um (z)

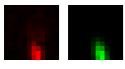
Corresponding bead: Not found

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

FWHM	Non corrected	Corrected	Theoretical
min	407 nm	424 nm	270 nm
max	890 nm	927 nm	270 nm
Z	3.23 um	3.24 um	1.3 um
Asymmetry	0.458		
Theta	-77.1°		

XY profile & fitting parameters :

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



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



A = 376.763 (brightness) B = 119.728 (background)

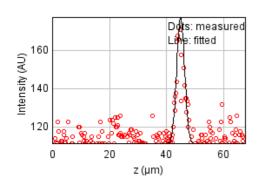
a = 0.777 px

b = -0.139 px

c = 0.201 px

xc = 6.660 pxyc = 10.462 px

Z profile & fitting parameters:



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

Sum of residuals squared: 14794.9494

Standard deviation: 6.94205

R^2: 0.75278

Parameters:

a = 111.25343

b = 177.56484

c = 44.98237

d = 1.36981

Bead 2489 (Rejected)

Date: Mon Oct 17 13:53:28 PDT 2022

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

Frame size: 12 pixels

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

Corresponding bead: Not found

Reason of rejection: R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	364 nm	379 nm	270 nm
max	666 nm	693 nm	270 nm
Z	1.61 um	1.62 um	1.3 um
Asymmetry	0.547		
Theta	-71.5°		

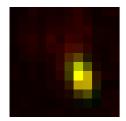
XY profile & fitting parameters :

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





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



Parameters:

A = 423.284 (brightness)

B = 124.147 (background)

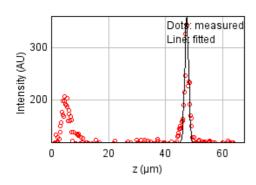
a = 0.941 px

b = -0.214 px

c = 0.375 px

xc = 7.309 pxyc = 7.048 px

Z profile & fitting parameters:



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

Sum of residuals squared: 113086.635

Standard deviation: 19.19272

R^2: 0.73919 Parameters:

a = 116.70044

b = 362.28198

c = 47.45270

Bead 2490 (Rejected)

Date: Mon Oct 17 13:53:28 PDT 2022

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

Frame size: 12 pixels

Coordinates: 161 um (x), 46.9 um (y), 49.0 um (z)

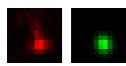
Corresponding bead: Not found

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

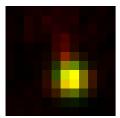
FWHM	Non corrected	Corrected	Theoretical
min	527 nm	549 nm	270 nm
max	612 nm	637 nm	270 nm
Z	4.14 um	4.15 um	1.3 um
Asymmetry	0.861		
Theta	-77.4°		

XY profile & fitting parameters :

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



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



Parameters:

A = 405.401 (brightness)

B = 126.211 (background)

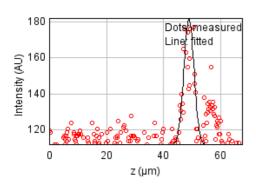
a = 0.478 px

b = -0.026 px

c = 0.365 px

xc = 6.644 pxyc = 7.375 px

Z profile & fitting parameters:



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

Sum of residuals squared: 29856.2558

Standard deviation: 9.86162

R^2: 0.67751 Parameters:

a = 111.96668

b = 181.82525

c = 48.95166

d = 1.75672

Date: Mon Oct 17 13:53:29 PDT 2022

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

Frame size: 12 pixels

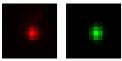
Coordinates: -60.7 um (x), 37.3 um (y), 47.9 um (z)

Corresponding bead: Not found

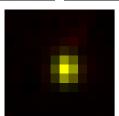
FWHM	Non corrected	Corrected	Theoretical
min	396 nm	413 nm	270 nm
max	493 nm	514 nm	270 nm
Z	1.96 um	1.96 um	1.3 um
Asymmetry	0.804		
Theta	-89.2°		

XY profile & fitting parameters :

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



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



A = 679.172 (brightness)

B = 124.344 (background)

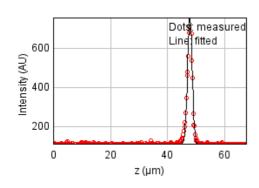
a = 0.854 px

b = -0.004 px

c = 0.552 px

xc = 6.204 pxyc = 5.978 px

Z profile & fitting parameters:



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

Sum of residuals squared: 42635.3879

Standard deviation: 11.78463

R^2: 0.98417 Parameters:

a = 113.30418

b = 756.94250

c = 47.86820

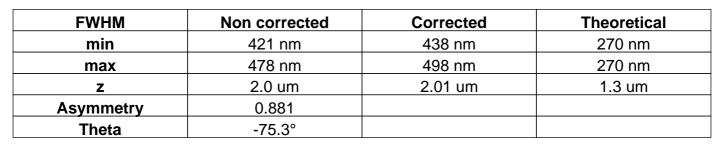
Date: Mon Oct 17 13:53:29 PDT 2022

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

Frame size: 12 pixels

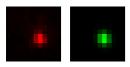
Coordinates: -41.4 um (x), 36.1 um (y), 48.1 um (z)

Corresponding bead: Not found

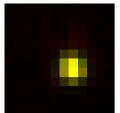


XY profile & fitting parameters :

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



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



Parameters:

A = 701.944 (brightness)

B = 125.372 (background)

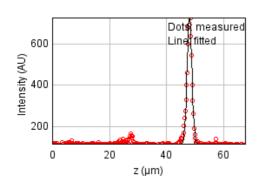
a = 0.746 px

b = -0.042 px

c = 0.598 px

xc = 6.890 pxyc = 6.549 px

Z profile & fitting parameters:



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

Sum of residuals squared: 41426.1001

Standard deviation: 11.61630

R^2: 0.98339 Parameters:

a = 115.77920

b = 728.32739

c = 48.09318

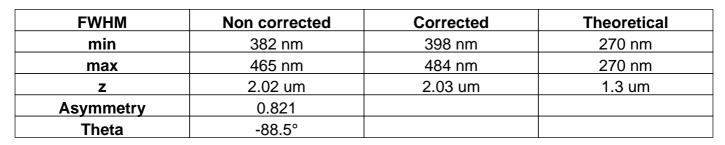
Date: Mon Oct 17 13:53:29 PDT 2022

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

Frame size: 12 pixels

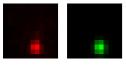
Coordinates: -44.3 um (x), 31.8 um (y), 51.2 um (z)

Corresponding bead: Not found

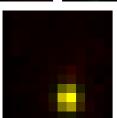


XY profile & fitting parameters :

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



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



Parameters:

A = 748.343 (brightness)

B = 128.277 (background)

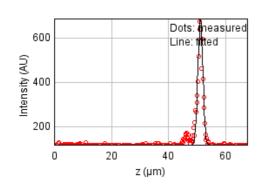
a = 0.919 px

b = -0.008 px

c = 0.621 px

xc = 6.664 pxyc = 9.089 px

Z profile & fitting parameters:



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

Sum of residuals squared: 91684.2320

Standard deviation: 17.28137

R^2: 0.95911 Parameters:

a = 115.69686

b = 685.98601

c = 51.21521

Date: Mon Oct 17 13:53:29 PDT 2022

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

Frame size: 12 pixels

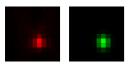
Coordinates: 13.0 um (x), 28.2 um (y), 48.5 um (z)

Corresponding bead: Not found

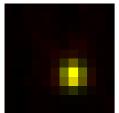
FWHM	Non corrected	Corrected	Theoretical
min	398 nm	415 nm	270 nm
max	465 nm	485 nm	270 nm
Z	1.88 um	1.88 um	1.3 um
Asymmetry	0.856		
Theta	-87.6°		

XY profile & fitting parameters :

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



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



A = 797.291 (brightness)

B = 126.484 (background)

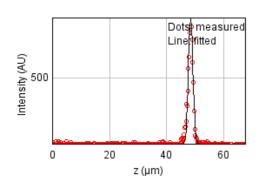
a = 0.846 px

b = -0.010 px

c = 0.620 px

xc = 6.960 pxyc = 7.327 px

Z profile & fitting parameters:



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

Sum of residuals squared: 57756.7926

Standard deviation: 13.71615

R^2: 0.98318 Parameters: a = 116.51758 b = 857.29270 c = 48.51240

Date: Mon Oct 17 13:53:29 PDT 2022

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

Frame size: 12 pixels

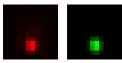
Coordinates: -71.3 um (x), -8.56 um (y), 44.1 um (z)

Corresponding bead: Not found

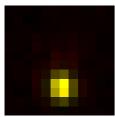
FWHM	Non corrected	Corrected	Theoretical
min	406 nm	423 nm	270 nm
max	471 nm	491 nm	270 nm
Z	1.93 um	1.94 um	1.3 um
Asymmetry	0.861		
Theta	-80.7°		

XY profile & fitting parameters :

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



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



A = 740.645 (brightness)

B = 123.118 (background)

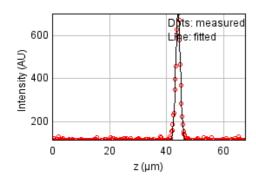
a = 0.810 px

b = -0.034 px

c = 0.609 px

xc = 5.730 pxyc = 8.412 px

Z profile & fitting parameters:



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

Sum of residuals squared: 21303.3836

Standard deviation: 8.33019

R^2: 0.99046 Parameters:

a = 113.44418

b = 704.86178

c = 44.08111

Bead 2496 (Rejected)

Date: Mon Oct 17 13:53:29 PDT 2022

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

Frame size: 12 pixels

Coordinates: 429 nm (x), -30.0 um (y), 48.7 um (z)

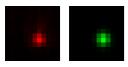
Corresponding bead: Not found

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

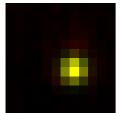
FWHM	Non corrected	Corrected	Theoretical
min	439 nm	457 nm	270 nm
max	474 nm	494 nm	270 nm
Z	3.37 um	3.38 um	1.3 um
Asymmetry	0.925		
Theta	-87.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 805.766 (brightness)

B = 129.011 (background)

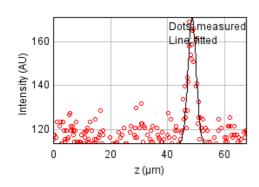
a = 0.696 px

b = -0.005 px

c = 0.597 px

xc = 6.949 pxyc = 6.756 px

Z profile & fitting parameters:



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

Sum of residuals squared: 15332.0415

Standard deviation: 7.06693

R^2: 0.69270 Parameters:

a = 113.88945

b = 170.81680

c = 48.65944

d = 1.43081

Date: Mon Oct 17 13:53:29 PDT 2022

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

Frame size: 12 pixels

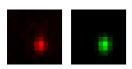
Coordinates: 11.6 um (x), -32.5 um (y), 48.1 um (z)

Corresponding bead : Not found

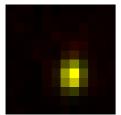
FWHM	Non corrected	Corrected	Theoretical
min	399 nm	416 nm	270 nm
max	533 nm	555 nm	270 nm
Z	1.98 um	1.99 um	1.3 um
Asymmetry	0.749		
Theta	86.0°		

XY profile & fitting parameters :

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



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



A = 577.107 (brightness)

B = 125.970 (background)

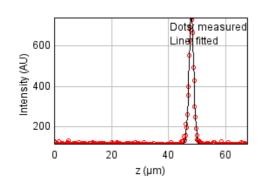
a = 0.839 px

b = 0.026 px

c = 0.474 px

xc = 6.789 pxyc = 7.224 px

Z profile & fitting parameters:



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

Sum of residuals squared: 27820.7923

Standard deviation: 9.51953

R^2: 0.98927 Parameters:

a = 114.57197

b = 744.12230

c = 48.06254

Date: Mon Oct 17 13:53:30 PDT 2022

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

Frame size: 12 pixels

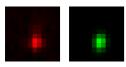
Coordinates: 134 um (x), -48.4 um (y), 48.1 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	423 nm	270 nm
max	564 nm	587 nm	270 nm
Z	1.92 um	1.93 um	1.3 um
Asymmetry	0.72		
Theta	83.3°		

XY profile & fitting parameters :

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



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



Parameters:

A = 549.675 (brightness)

B = 120.232 (background)

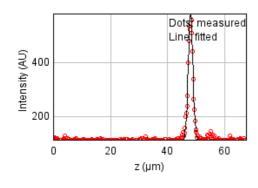
a = 0.809 px

b = 0.046 px

c = 0.428 px

xc = 6.268 pxyc = 7.311 px

Z profile & fitting parameters:



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

Sum of residuals squared: 23231.4795

Standard deviation: 8.69900

R^2: 0.98363 Parameters: a = 111.62304 b = 582.28121 c = 48.12739

Date: Mon Oct 17 13:53:30 PDT 2022

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

Frame size: 12 pixels

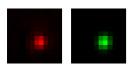
Coordinates: -76.8 um (x), -78.8 um (y), 48.5 um (z)

Corresponding bead: Not found

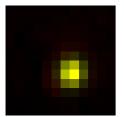
FWHM	Non corrected	Corrected	Theoretical
min	434 nm	452 nm	270 nm
max	496 nm	516 nm	270 nm
Z	1.89 um	1.9 um	1.3 um
Asymmetry	0.876		
Theta	80.8°		

XY profile & fitting parameters :

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



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



Parameters:

A = 808.533 (brightness)

B = 126.712 (background)

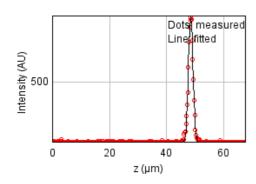
a = 0.708 px

b = 0.026 px

c = 0.550 px

xc = 6.708 pxyc = 6.845 px

Z profile & fitting parameters:



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

Sum of residuals squared: 18701.3573

Standard deviation: 7.80490

R^2: 0.99546 Parameters:

a = 112.87382

b = 925.55684

c = 48.54035

Date: Mon Oct 17 13:53:30 PDT 2022

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

Frame size: 12 pixels

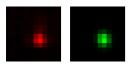
Coordinates: 34.7 um (x), -83.4 um (y), 48.1 um (z)

Corresponding bead: Not found

FWHM	Non corrected	Corrected	Theoretical
min	432 nm	450 nm	270 nm
max	503 nm	523 nm	270 nm
Z	2.09 um	2.1 um	1.3 um
Asymmetry	0.86		
Theta	-81.2°		

XY profile & fitting parameters :

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



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



A = 706.776 (brightness)

B = 126.680 (background)

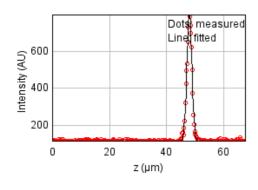
a = 0.713 px

b = -0.028 px

c = 0.536 px

xc = 6.819 pxyc = 6.713 px

Z profile & fitting parameters:



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

Sum of residuals squared: 27333.4884

Standard deviation: 9.43579

R^2: 0.99165 Parameters:

a = 112.94879

b = 803.21951

c = 48.07219