Bead 3401

Date : Mon Oct 17 13:54:16 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels
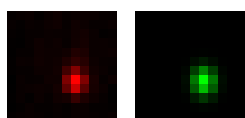
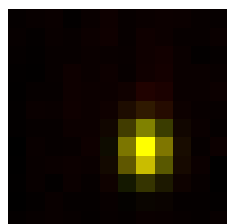Coordinates : -3.3 um (x), 13.5 um (y), 59.0 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	417 nm	434 nm	270 nm
max	523 nm	544 nm	270 nm
z	1.98 um	1.98 um	1.3 um
Asymmetry	0.798		
Theta	-89.3°		

XY profile & fitting parameters :

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

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

Parameters:
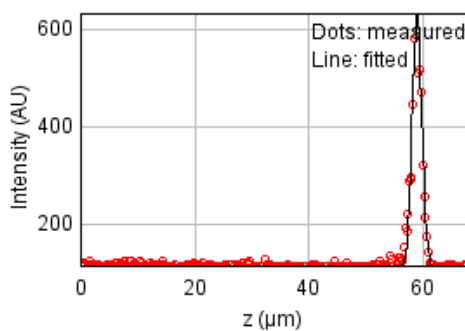 A = 580.639   (brightness)
 B = 120.845   (background)
 a = 0.772 px
 b = -0.004 px
 c = 0.491 px

xc = 7.001 px
yc = 7.190 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 71009.8842
Standard deviation: 15.20863
R^2: 0.96121
Parameters:
 a = 113.97597
 b = 635.66679
 c = 59.02869
 d = 0.83940

Bead 3402

Date : Mon Oct 17 13:54:16 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
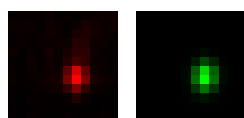Frame size : 12 pixels

Coordinates : 54.8 um (x), 12.9 um (y), 58.8 um (z)
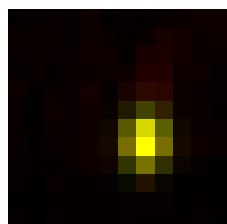Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	396 nm	413 nm	270 nm
max	525 nm	546 nm	270 nm
z	2.0 um	2.01 um	1.3 um
Asymmetry	0.755		
Theta	86.3°		

XY profile & fitting parameters :

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

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

Parameters:
A = 610.873   (brightness)
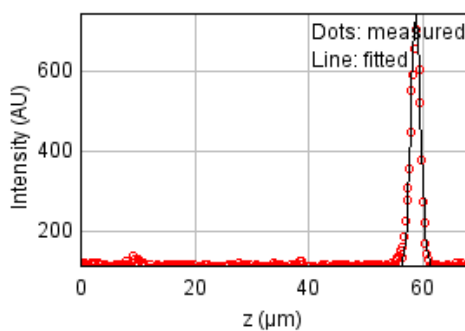B = 125.483   (background)
a = 0.853 px
b = 0.024 px
c = 0.489 px

xc = 7.010 px
yc = 6.678 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 50439.1856
Standard deviation: 12.81784
R^2: 0.98117
Parameters:
a = 113.63722
b = 747.04148
c = 58.79436
d = 0.85089

Bead 3403 (Rejected)

Date : Mon Oct 17 13:54:17 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -43.8 um (x), 10.9 um (y), 59.4 um (z)
Corresponding bead : Not found
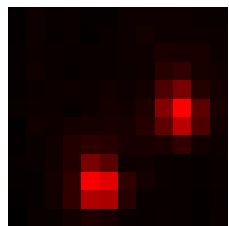Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	590 nm	615 nm	270 nm
max	3.25 um	3.38 um	270 nm
z	1.9 um	1.91 um	1.3 um
Asymmetry	0.182		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
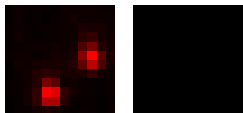
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.056$

Parameters:
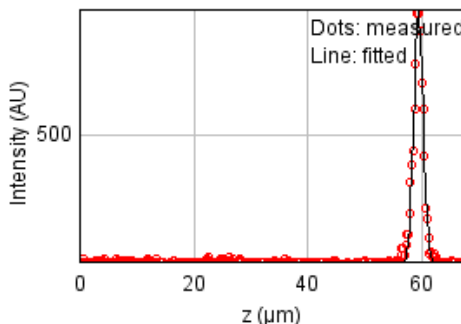 A = -66.486   (brightness)
 B = 218.641   (background)
 a = 0.223 px
 b = -0.196 px
 c = 0.150 px

xc = 5.684 px
yc = 5.811 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 42546.9243
Standard deviation: 11.77240
R^2: 0.98857
Parameters:
 a = 114.42513
 b = 883.37806
 c = 59.44176
 d = 0.80685

Bead 3404 (Rejected)

Date : Mon Oct 17 13:54:17 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

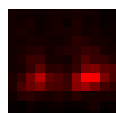Coordinates : -41.4 um (x), 10.0 um (y), 60.2 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

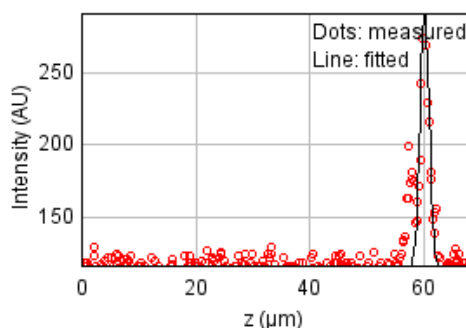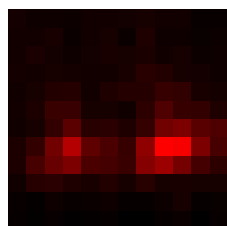| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	1.84 um	1.85 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal 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: 45879.0574
Standard deviation: 12.22470
R^2: 0.80540
Parameters:
 a = 115.46790
 b = 292.89993
 c = 60.17858
 d = 0.78051

Bead 3405 (Rejected)

Date : Mon Oct 17 13:54:17 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

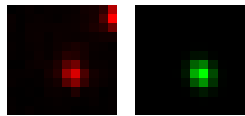Coordinates : 25.0 um (x), 3.4 um (y), 59.1 um (z)
Corresponding bead : Not found
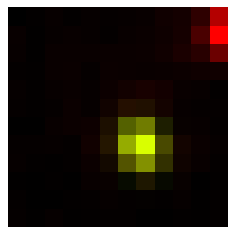Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	397 nm	413 nm	270 nm
max	465 nm	485 nm	270 nm
z	1.93 um	1.94 um	1.3 um
Asymmetry	0.852		
Theta	-69.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.467$

Parameters:
 A = 809.622   (brightness)
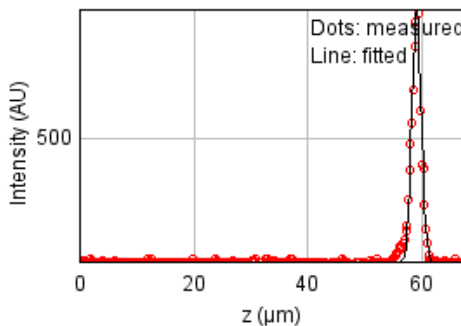 B = 153.101   (background)
 a = 0.825 px
 b = -0.075 px
 c = 0.647 px

xc = 6.743 px
yc = 7.032 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 75840.0409
Standard deviation: 15.71738
R^2: 0.98111
Parameters:
 a = 114.58434
 b = 903.63758
 c = 59.11658
 d = 0.82067

Bead 3406 (Rejected)

Date : Mon Oct 17 13:54:17 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 94.2 um (x), 568 nm (y), 57.8 um (z)
Corresponding bead : Not found
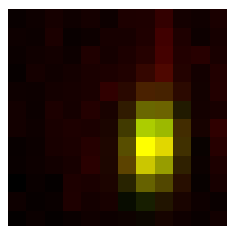Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	446 nm	465 nm	270 nm
max	763 nm	794 nm	270 nm
z	2.6 um	2.61 um	1.3 um
Asymmetry	0.585		
Theta	85.3°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
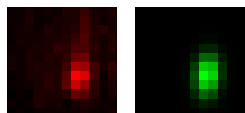
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.903$

Parameters:
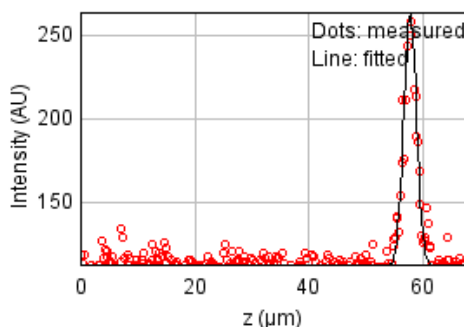 A = 239.712   (brightness)
 B = 120.951   (background)
 a = 0.671 px
 b = 0.036 px
 c = 0.234 px

xc = 7.378 px
yc = 6.916 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15091.4551
Standard deviation: 7.01126
R^2: 0.92714
Parameters:
 a = 112.24199
 b = 263.59681
 c = 57.81256
 d = 1.10436

Bead 3407

Date : Mon Oct 17 13:54:17 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
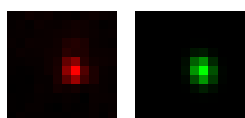Frame size : 12 pixels

Coordinates : -15.9 um (x), -111 nm (y), 59.4 um (z)
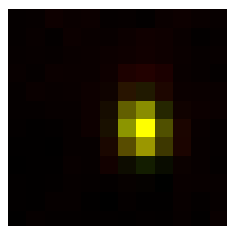Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	394 nm	410 nm	270 nm
max	496 nm	517 nm	270 nm
z	1.91 um	1.91 um	1.3 um
Asymmetry	0.794		
Theta	-76.2°		

XY profile & fitting parameters :

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

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

Parameters:
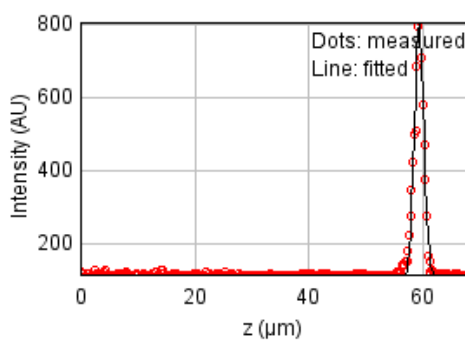 A = 731.034   (brightness)
 B = 126.686   (background)
 a = 0.846 px
 b = -0.074 px
 c = 0.563 px

xc = 6.818 px
yc = 6.006 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 42885.5128
Standard deviation: 11.81915
R^2: 0.98592
Parameters:
 a = 114.12993
 b = 807.46227
 c = 59.37377
 d = 0.80940

Bead 3408

Date : Mon Oct 17 13:54:17 PDT 2022
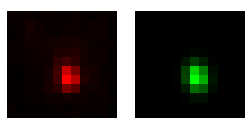Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 4.01 um (x), -711 nm (y), 59.2 um (z)
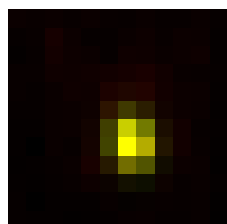Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	391 nm	408 nm	270 nm
max	508 nm	529 nm	270 nm
z	1.98 um	1.99 um	1.3 um
Asymmetry	0.77		
Theta	-78.5°		

XY profile & fitting parameters :

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

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

Parameters:
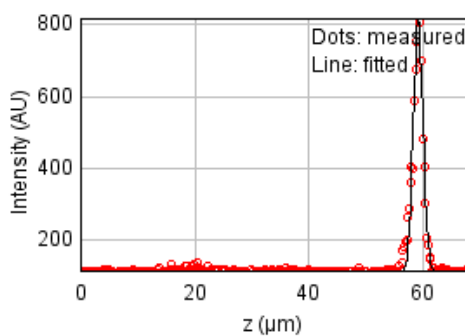 A = 758.471   (brightness)
 B = 127.116   (background)
 a = 0.862 px
 b = -0.069 px
 c = 0.534 px

xc = 6.250 px
yc = 6.731 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 68289.3846
Standard deviation: 14.91446
R^2: 0.97906
Parameters:
 a = 115.01203
 b = 816.34519
 c = 59.21798
 d = 0.84275

Bead 3409

Date : Mon Oct 17 13:54:17 PDT 2022
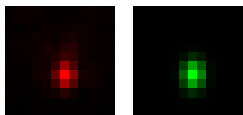Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -12.7 um (x), -1.43 um (y), 59.3 um (z)
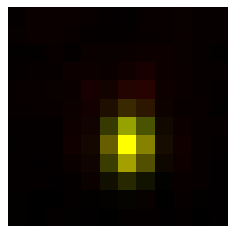Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	400 nm	416 nm	270 nm
max	539 nm	561 nm	270 nm
z	1.95 um	1.96 um	1.3 um
Asymmetry	0.741		
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
   $R^2 = 0.964$

Parameters:
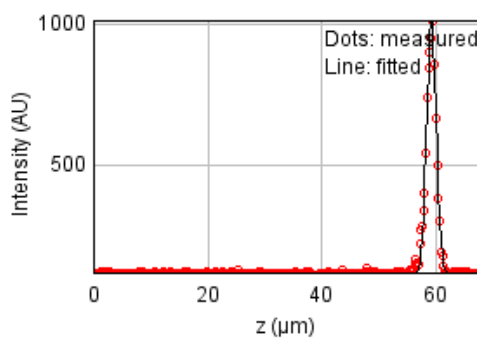 A = 813.495   (brightness)
 B = 130.122   (background)
 a = 0.840 px
 b = 0.013 px
 c = 0.462 px

xc = 6.094 px
yc = 6.990 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 51104.5292
Standard deviation: 12.90210
R^2: 0.99027
Parameters:
 a = 114.73619
 b = 1017.17418
 c = 59.26722
 d = 0.82835

Bead 3410 (Rejected)

Date : Mon Oct 17 13:54:18 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 35.8 um (x), -6.25 um (y), 11.1 um (z)
Corresponding bead : Not found
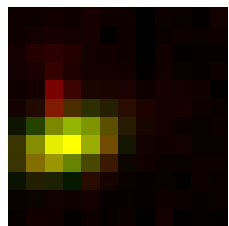Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	496 nm	517 nm	270 nm
max	837 nm	872 nm	270 nm
z	3.85 um	3.86 um	1.3 um
Asymmetry	0.592		
Theta	18.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
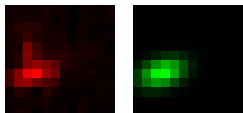
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.854$

Parameters:
A = 252.555   (brightness)
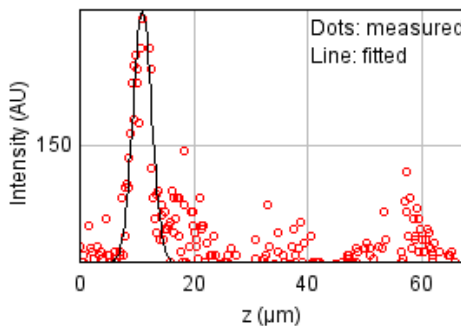B = 120.564   (background)
a = 0.226 px
b = 0.105 px
c = 0.511 px

xc = 2.692 px
yc = 6.908 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 20807.5398
Standard deviation: 8.23268
R^2: 0.76194
Parameters:
a = 115.88913
b = 190.28846
c = 11.08007
d = 1.63285

Bead 3411 (Rejected)

Date : Mon Oct 17 13:54:18 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -27.0 um (x), -7.41 um (y), 57.9 um (z)
Corresponding bead : Not found
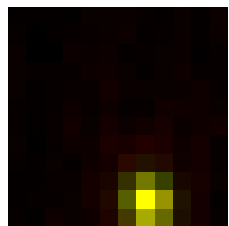Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	415 nm	432 nm	270 nm
max	482 nm	502 nm	270 nm
z	3.44 um	3.45 um	1.3 um
Asymmetry	0.861		
Theta	-78.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
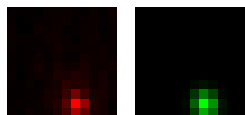
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.955$

Parameters:
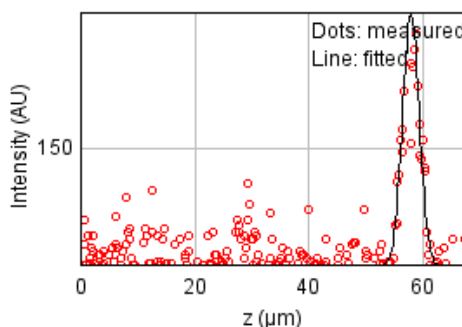 A = 595.323   (brightness)
 B = 125.819   (background)
 a = 0.772 px
 b = -0.038 px
 c = 0.586 px

xc = 7.150 px
yc = 10.159 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17881.5281
Standard deviation: 7.63191
R^2: 0.79190
Parameters:
 a = 113.38638
 b = 192.55318
 c = 57.94983
 d = 1.45896

Bead 3412

Date : Mon Oct 17 13:54:18 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
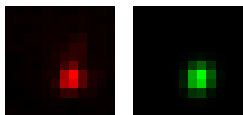Frame size : 12 pixels

Coordinates : -12.2 um (x), -11.0 um (y), 59.6 um (z)
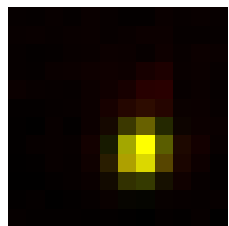Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	426 nm	443 nm	270 nm
max	497 nm	517 nm	270 nm
z	1.9 um	1.91 um	1.3 um
Asymmetry	0.857		
Theta	69.2°		

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:
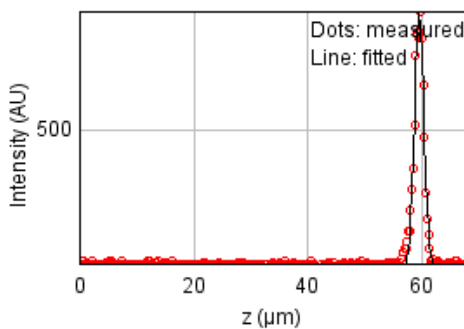 A = 739.594   (brightness)
 B = 125.880   (background)
 a = 0.716 px
 b = 0.065 px
 c = 0.569 px

xc = 6.763 px
yc = 7.377 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 44478.9144
Standard deviation: 12.03671
R^2: 0.98675
Parameters:
 a = 114.26610
 b = 843.90973
 c = 59.55967
 d = 0.80641

Bead 3413

Date : Mon Oct 17 13:54:18 PDT 2022
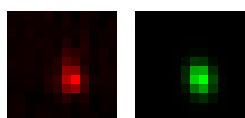Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 152 um (x), -11.1 um (y), 58.8 um (z)
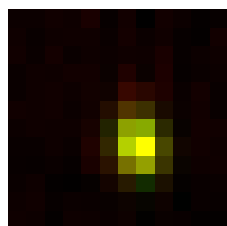Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	421 nm	439 nm	270 nm
max	566 nm	589 nm	270 nm
z	1.78 um	1.78 um	1.3 um
Asymmetry	0.745		
Theta	-77.2°		

XY profile & fitting parameters :

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

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

Parameters:
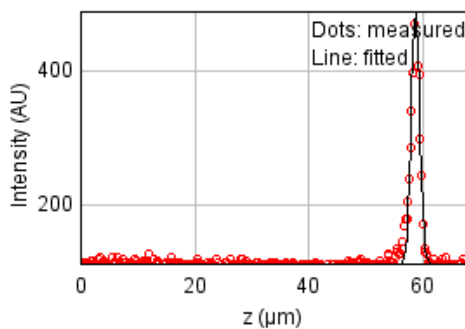 A = 391.572   (brightness)
 B = 117.372   (background)
 a = 0.740 px
 b = -0.073 px
 c = 0.436 px

xc = 6.628 px
yc = 6.903 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 22518.4716
Standard deviation: 8.56447
R^2: 0.97400
Parameters:
 a = 110.03536
 b = 490.25442
 c = 58.75290
 d = 0.75416

Bead 3414

Date : Mon Oct 17 13:54:18 PDT 2022
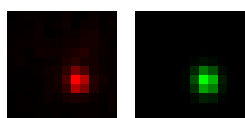Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 13.7 um (x), -11.4 um (y), 59.3 um (z)
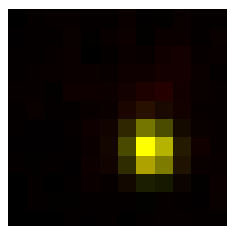Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	471 nm	490 nm	270 nm
z	1.96 um	1.97 um	1.3 um
Asymmetry	0.871		
Theta	-77.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 753.749   (brightness)
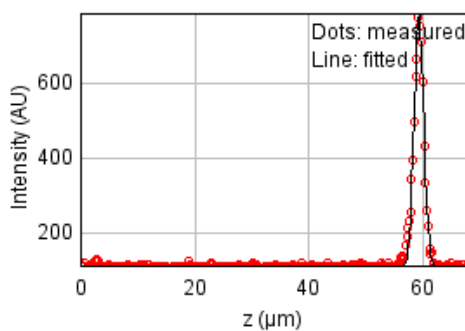 B = 127.250   (background)
 a = 0.790 px
 b = -0.040 px
 c = 0.614 px

xc = 7.282 px
yc = 7.149 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 34337.8621
Standard deviation: 10.57590
R^2: 0.98836
Parameters:
 a = 114.00926
 b = 787.59759
 c = 59.34540
 d = 0.83393

Bead 3415

Date : Mon Oct 17 13:54:18 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
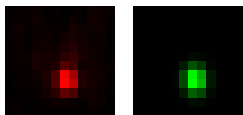Frame size : 12 pixels

Coordinates : 9.74 um (x), -11.5 um (y), 59.4 um (z)
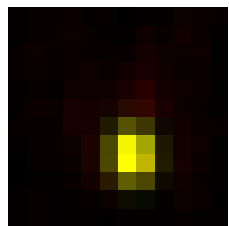Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	407 nm	424 nm	270 nm
max	508 nm	529 nm	270 nm
z	2.05 um	2.06 um	1.3 um
Asymmetry	0.802		
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 = 0.963

Parameters:
 A = 822.379   (brightness)
 B = 129.089   (background)
 a = 0.807 px
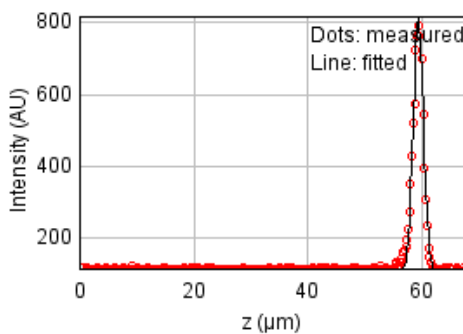 b = -0.020 px
 c = 0.521 px

xc = 6.278 px
yc = 7.554 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 41179.1408
Standard deviation: 11.58162
R^2: 0.98765
Parameters:
 a = 114.43870
 b = 815.50157
 c = 59.41878
 d = 0.87119

Bead 3416

Date : Mon Oct 17 13:54:18 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
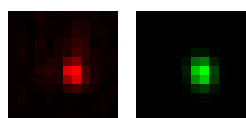Frame size : 12 pixels

Coordinates : 68.8 um (x), -15.1 um (y), 59.2 um (z)
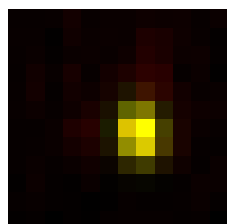Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	402 nm	419 nm	270 nm
max	522 nm	544 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.77		
Theta	-82.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.944$

Parameters:
A = 537.252   (brightness)
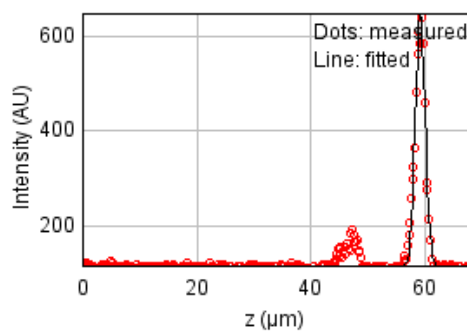B = 123.824   (background)
a = 0.823 px
b = -0.045 px
c = 0.498 px

xc = 6.676 px
yc = 6.234 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 81092.7889
Standard deviation: 16.25257
R^2: 0.95830
Parameters:
a = 115.24896
b = 646.87227
c = 59.22788
d = 0.85689

Bead 3417

Date : Mon Oct 17 13:54:19 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
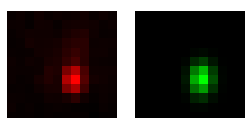Frame size : 12 pixels

Coordinates : 81.6 um (x), -16.1 um (y), 59.0 um (z)
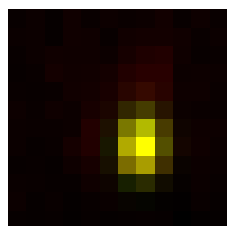Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	412 nm	429 nm	270 nm
max	577 nm	601 nm	270 nm
z	2.1 um	2.11 um	1.3 um
Asymmetry	0.714		
Theta	87.7°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.945$

  Parameters:
  A = 615.650   (brightness)
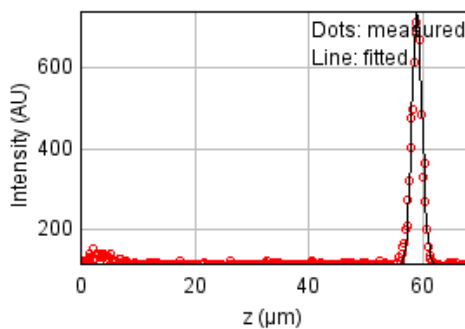 B = 126.903   (background)
  a = 0.790 px
  b = 0.016 px
  c = 0.403 px

  xc = 6.759 px
  yc = 6.903 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 60101.4731
Standard deviation: 13.99179
R^2: 0.97811
Parameters:
 a = 114.99636
 b = 741.36125
 c = 59.01894
 d = 0.89105

Bead 3418

Date : Mon Oct 17 13:54:19 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
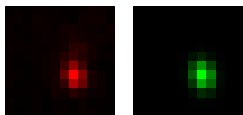Frame size : 12 pixels

Coordinates : 14.3 um (x), -16.0 um (y), 59.5 um (z)
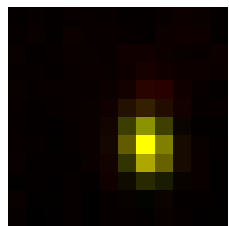Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	407 nm	270 nm
max	534 nm	557 nm	270 nm
z	2.01 um	2.01 um	1.3 um
Asymmetry	0.73		
Theta	-78.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 713.742   (brightness)
 B = 125.751   (background)
 a = 0.865 px
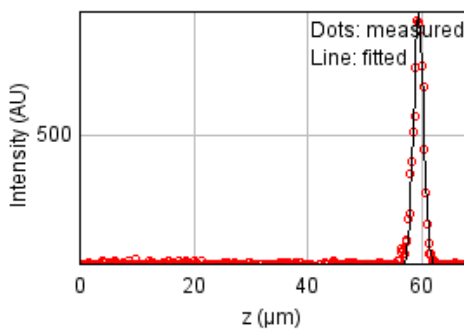 b = -0.079 px
 c = 0.486 px

xc = 7.105 px
yc = 7.079 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 53836.9036
Standard deviation: 13.24253
R^2: 0.98590
Parameters:
 a = 113.74671
 b = 871.39224
 c = 59.46468
 d = 0.85202

Bead 3419

Date : Mon Oct 17 13:54:19 PDT 2022
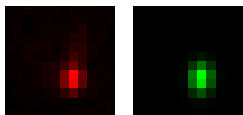Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 73.7 um (x), -16.3 um (y), 59.2 um (z)
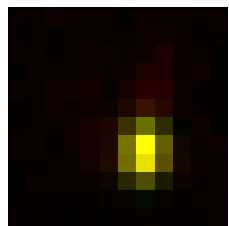Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	529 nm	551 nm	270 nm
z	2.07 um	2.08 um	1.3 um
Asymmetry	0.735		
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 = 0.955

Parameters:
 A = 544.400   (brightness)
 B = 125.123   (background)
 a = 0.886 px
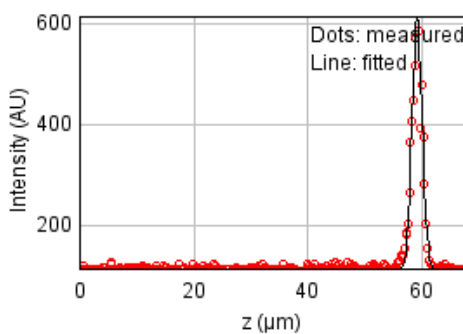 b = 0.021 px
 c = 0.481 px

xc = 6.930 px
yc = 7.371 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 38378.0705
Standard deviation: 11.18079
R^2: 0.97797
Parameters:
 a = 112.35499
 b = 614.61265
 c = 59.20697
 d = 0.87874

Bead 3420

Date : Mon Oct 17 13:54:19 PDT 2022
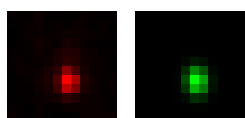Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 22.9 um (x), -19.3 um (y), 59.5 um (z)
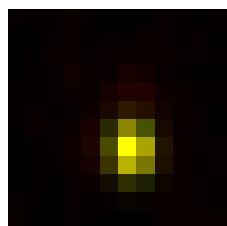Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	399 nm	416 nm	270 nm
max	517 nm	539 nm	270 nm
z	1.92 um	1.92 um	1.3 um
Asymmetry	0.772		
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:
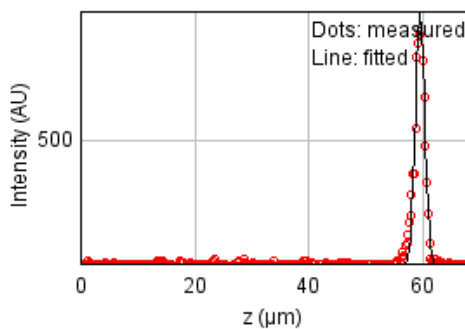 A = 872.288   (brightness)
 B = 131.608   (background)
 a = 0.840 px
 b = -0.022 px
 c = 0.503 px

xc = 6.237 px
yc = 7.153 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 70587.8240
Standard deviation: 15.16337
R^2: 0.98240
Parameters:
 a = 114.43841
 b = 906.79772
 c = 59.53285
 d = 0.81380

Bead 3421

Date : Mon Oct 17 13:54:19 PDT 2022
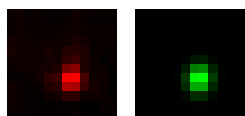Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 76.0 um (x), -22.6 um (y), 59.4 um (z)
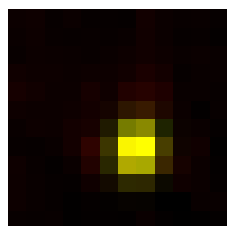Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	427 nm	445 nm	270 nm
max	507 nm	528 nm	270 nm
z	2.15 um	2.16 um	1.3 um
Asymmetry	0.842		
Theta	83.1°		

XY profile & fitting parameters :

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

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

Parameters:
A = 711.960   (brightness)
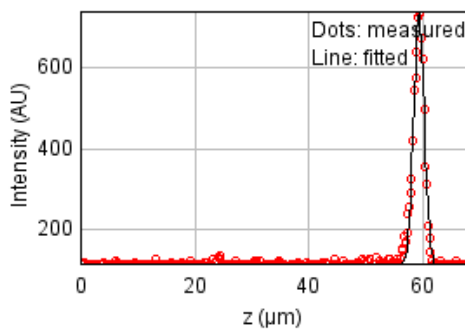B = 132.963   (background)
a = 0.733 px
b = 0.026 px
c = 0.524 px

xc = 6.525 px
yc = 7.121 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 40311.8996
Standard deviation: 11.45902
R^2: 0.98556
Parameters:
 a = 113.86811
 b = 740.31896
 c = 59.35127
 d = 0.91370

Bead 3422

Date : Mon Oct 17 13:54:19 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
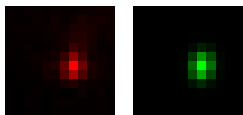Frame size : 12 pixels

Coordinates : 73.9 um (x), -23.0 um (y), 59.3 um (z)
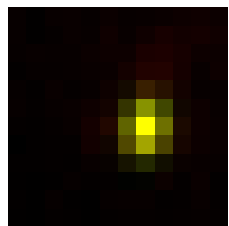Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	524 nm	545 nm	270 nm
z	2.05 um	2.05 um	1.3 um
Asymmetry	0.743		
Theta	82.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.950$

Parameters:
A = 660.468 (brightness)
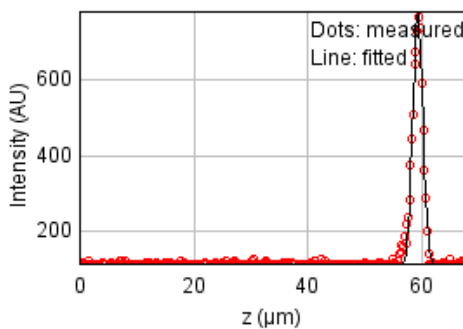B = 128.083 (background)
a = 0.880 px
b = 0.051 px
c = 0.496 px

xc = 7.029 px
yc = 6.056 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 39720.3450
Standard deviation: 11.37463
R^2: 0.98691
Parameters:
a = 113.13260
b = 782.49491
c = 59.32794
d = 0.86896

Bead 3423 (Rejected)

Date : Mon Oct 17 13:54:19 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 8.02 um (x), 53.1 nm (y), 59.6 um (z)
Corresponding bead : Not found
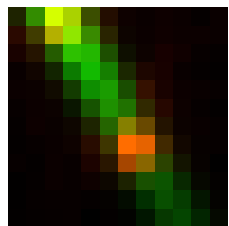Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	500 nm	521 nm	270 nm
max	17.8 um	18.6 um	270 nm
z	2.22 um	2.23 um	1.3 um
Asymmetry	0.028		
Theta	-59.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
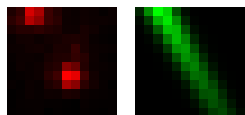
Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
    R^2 = 0.397

Parameters:
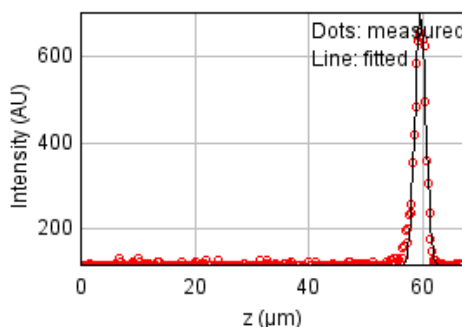 A = 90362.895   (brightness)
 B = 127.121   (background)
 a = 0.398 px
 b = -0.235 px
 c = 0.139 px
xc = -56.542 px
yc = -99.741 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 45679.8242
Standard deviation: 12.19812
R^2: 0.98198
Parameters:
 a = 115.00086
 b = 702.61750
 c = 59.58763
 d = 0.94109

Bead 3424

Date : Mon Oct 17 13:54:20 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
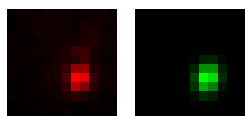Frame size : 12 pixels

Coordinates : 63.4 um (x), -23.0 um (y), 59.4 um (z)
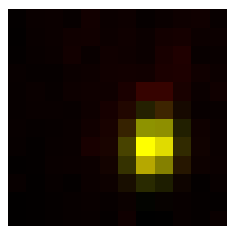Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	419 nm	437 nm	270 nm
max	534 nm	556 nm	270 nm
z	2.06 um	2.07 um	1.3 um
Asymmetry	0.786		
Theta	77.6°		

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 = 0.953

Parameters:
A = 582.965   (brightness)
B = 125.263   (background)
a = 0.750 px
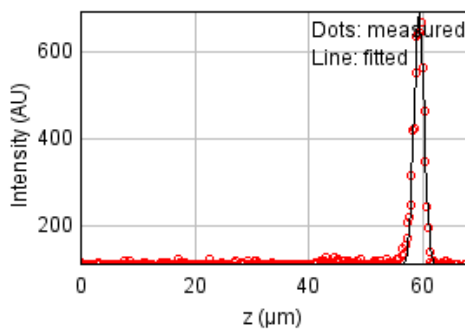b = 0.061 px
c = 0.484 px

xc = 7.396 px
yc = 7.019 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 37667.7467
Standard deviation: 11.07683
R^2: 0.98362
Parameters:
 a = 112.13405
 b = 691.42538
 c = 59.36427
 d = 0.87658

Bead 3425 (Rejected)

Date : Mon Oct 17 13:54:20 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

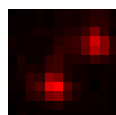Coordinates : 84.9 um (x), -22.8 um (y), 59.6 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

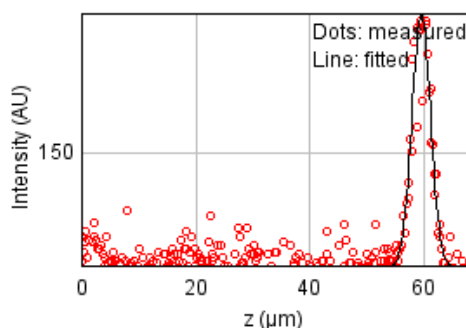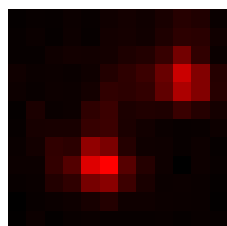| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	3.81 um	3.83 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal 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: 15165.6917
Standard deviation: 7.02849
R^2: 0.85179
Parameters:
 a = 111.72855
 b = 197.15012
 c = 59.57974
 d = 1.61990

Bead 3426

Date : Mon Oct 17 13:54:20 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
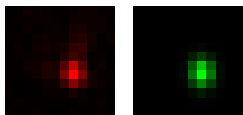Frame size : 12 pixels

Coordinates : 89.1 um (x), -24.7 um (y), 59.1 um (z)
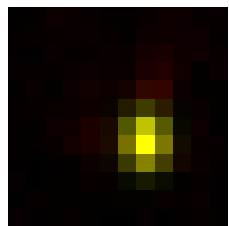Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	535 nm	557 nm	270 nm
z	1.98 um	1.99 um	1.3 um
Asymmetry	0.767		
Theta	-89.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.949$

Parameters:
A = 601.780   (brightness)
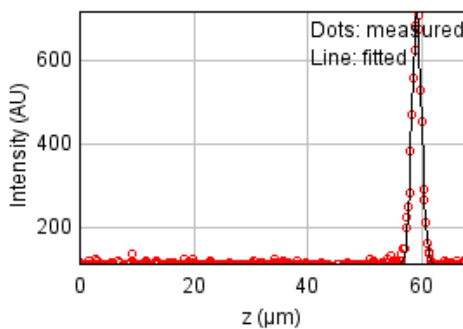B = 126.347   (background)
a = 0.797 px
b = -0.002 px
c = 0.469 px

xc = 7.018 px
yc = 6.777 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25740.7131
Standard deviation: 9.15674
R^2: 0.98921
Parameters:
 a = 113.47793
 b = 717.27944
 c = 59.14121
 d = 0.84043

Bead 3427

Date : Mon Oct 17 13:54:20 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
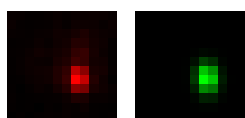Frame size : 12 pixels

Coordinates : 50.7 um (x), -26.0 um (y), 59.4 um (z)
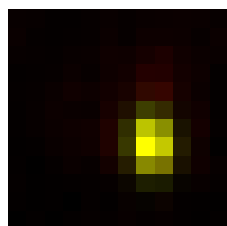Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	551 nm	574 nm	270 nm
z	2.09 um	2.1 um	1.3 um
Asymmetry	0.706		
Theta	-85.6°		

XY profile & fitting parameters :

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

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

Parameters:
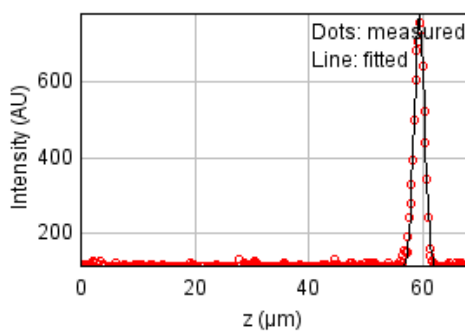 A = 694.031   (brightness)
 B = 129.358   (background)
 a = 0.885 px
 b = -0.034 px
 c = 0.445 px

xc = 7.353 px
yc = 6.824 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 29431.1954
Standard deviation: 9.79117
R^2: 0.99039
Parameters:
 a = 114.26405
 b = 781.07946
 c = 59.42416
 d = 0.88761

Bead 3428

Date : Mon Oct 17 13:54:20 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
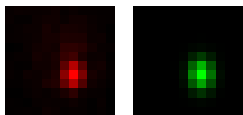Frame size : 12 pixels

Coordinates : 153 um (x), -26.5 um (y), 59.0 um (z)
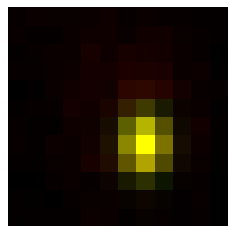Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	431 nm	449 nm	270 nm
max	582 nm	606 nm	270 nm
z	2.09 um	2.1 um	1.3 um
Asymmetry	0.741		
Theta	-89.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 501.488   (brightness)
 B = 119.844   (background)
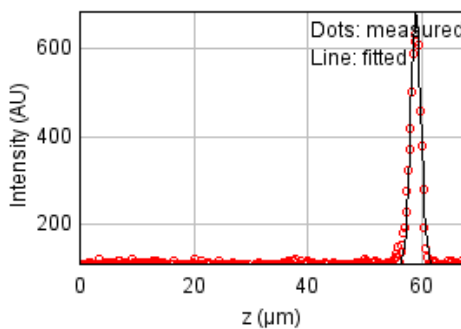 a = 0.723 px
 b = -0.001 px
 c = 0.397 px

xc = 6.940 px
yc = 6.934 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 50219.0036
Standard deviation: 12.78983
R^2: 0.97809
Parameters:
 a = 110.43729
 b = 683.29025
 c = 58.98505
 d = 0.88913

Bead 3429

Date : Mon Oct 17 13:54:20 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
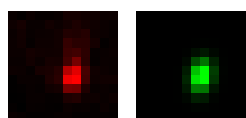Frame size : 12 pixels

Coordinates : 76.5 um (x), -32.4 um (y), 59.3 um (z)
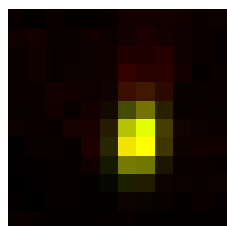Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	393 nm	410 nm	270 nm
max	597 nm	622 nm	270 nm
z	2.31 um	2.32 um	1.3 um
Asymmetry	0.659		
Theta	80.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.944$

Parameters:
 A = 610.002   (brightness)
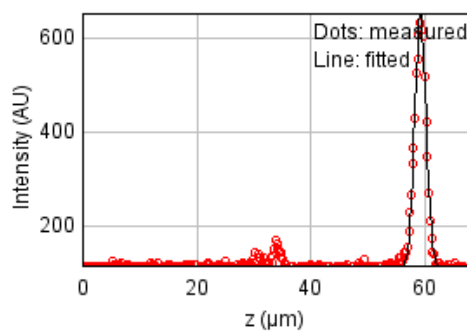 B = 128.047   (background)
 a = 0.855 px
 b = 0.079 px
 c = 0.390 px

xc = 6.604 px
yc = 6.589 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 37103.1614
Standard deviation: 10.99351
R^2: 0.98325
Parameters:
 a = 115.21936
 b = 654.59368
 c = 59.25392
 d = 0.97949

Bead 3430

Date : Mon Oct 17 13:54:21 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
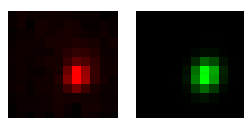Frame size : 12 pixels

Coordinates : -105 um (x), -88.4 um (y), 58.9 um (z)
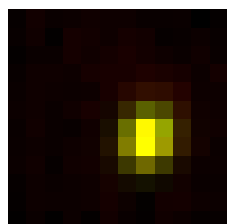Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	465 nm	484 nm	270 nm
max	549 nm	571 nm	270 nm
z	2.38 um	2.39 um	1.3 um
Asymmetry	0.847		
Theta	73.9°		

XY profile & fitting parameters :

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

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

Parameters:
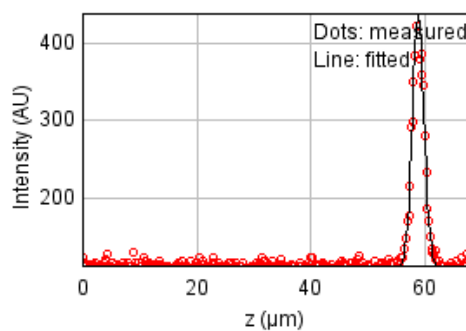 A = 355.849   (brightness)
 B = 119.674   (background)
 a = 0.607 px
 b = 0.047 px
 c = 0.459 px

 xc = 7.124 px
 yc = 6.514 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 16253.3541
Standard deviation: 7.27616
R^2: 0.98090
Parameters:
 a = 111.42660
 b = 440.20966
 c = 58.86850
 d = 1.01215

Bead 3431

Date : Mon Oct 17 13:54:21 PDT 2022
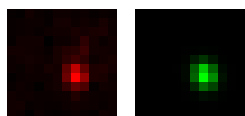Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -141 um (x), 66.2 um (y), 59.0 um (z)
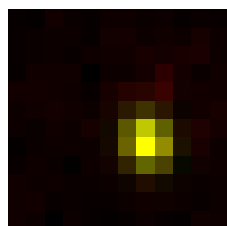Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	411 nm	428 nm	270 nm
max	491 nm	511 nm	270 nm
z	2.12 um	2.13 um	1.3 um
Asymmetry	0.838		
Theta	-72.9°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.947$

 Parameters:
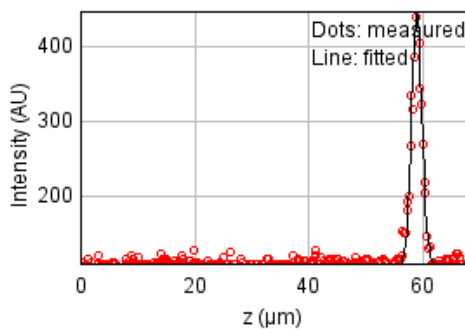 A = 349.894   (brightness)
  B = 117.285   (background)
  a = 0.773 px
  b = -0.066 px
  c = 0.578 px

 xc = 7.088 px
 yc = 6.720 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 20577.1320
Standard deviation: 8.18697
R^2: 0.97422
Parameters:
 a = 110.92965
 b = 446.13471
 c = 58.97440
 d = 0.90166

Bead 3432

Date : Mon Oct 17 13:54:21 PDT 2022
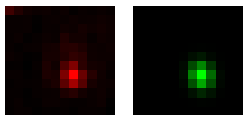Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -134 um (x), 56.0 um (y), 59.3 um (z)
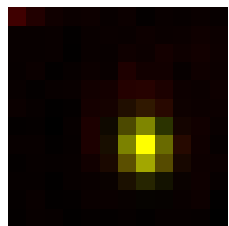Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	431 nm	270 nm
max	502 nm	523 nm	270 nm
z	1.87 um	1.88 um	1.3 um
Asymmetry	0.825		
Theta	-81.2°		

XY profile & fitting parameters :

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

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

Parameters:
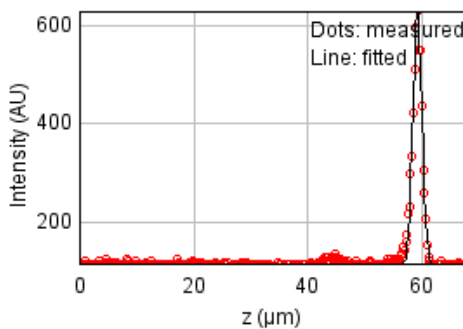 A = 510.198   (brightness)
 B = 124.667   (background)
 a = 0.776 px
 b = -0.038 px
 c = 0.539 px

xc = 6.939 px
yc = 7.100 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 23530.6945
Standard deviation: 8.75484
R^2: 0.98588
Parameters:
 a = 113.50369
 b = 631.37541
 c = 59.26198
 d = 0.79313

Bead 3433 (Rejected)

Date : Mon Oct 17 13:54:21 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

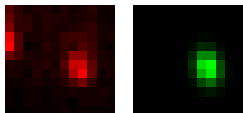Coordinates : -132 um (x), 55.3 um (y), 58.3 um (z)
Corresponding bead : Not found
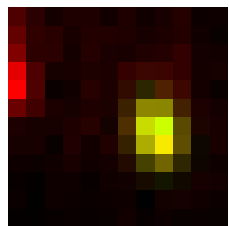Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	436 nm	454 nm	270 nm
max	614 nm	640 nm	270 nm
z	3.15 um	3.16 um	1.3 um
Asymmetry	0.709		
Theta	-78.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.547$

Parameters:
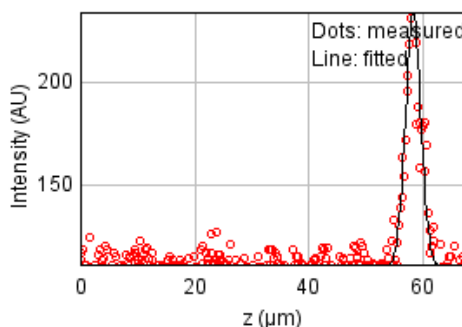 A = 237.647   (brightness)
 B = 131.755   (background)
 a = 0.692 px
 b = -0.072 px
 c = 0.371 px

xc = 7.637 px
yc = 6.302 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18946.8666
Standard deviation: 7.85596
R^2: 0.88808
Parameters:
 a = 111.33308
 b = 233.87809
 c = 58.33953
 d = 1.33602

Bead 3434 (Rejected)

Date : Mon Oct 17 13:54:21 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -155 um (x), 53.5 um (y), 56.2 um (z)
Corresponding bead : Not found
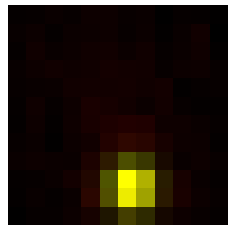Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	427 nm	445 nm	270 nm
max	461 nm	480 nm	270 nm
z	3.46 um	3.47 um	1.3 um
Asymmetry	0.926		
Theta	86.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
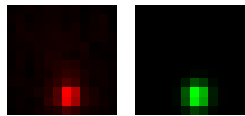
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.955$

Parameters:
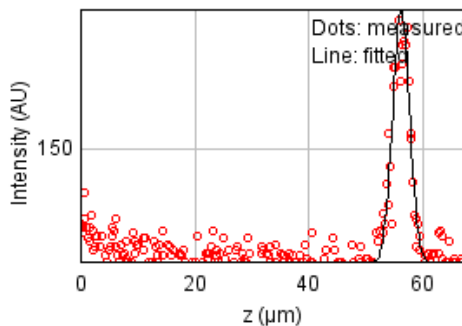A = 628.994   (brightness)
B = 124.332   (background)
a = 0.736 px
b = 0.006 px
c = 0.632 px

xc = 6.247 px
yc = 9.435 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15490.1810
Standard deviation: 7.10328
R^2: 0.84590
Parameters:
a = 110.47799
b = 198.73546
c = 56.23247
d = 1.46758

Bead 3435

Date : Mon Oct 17 13:54:21 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
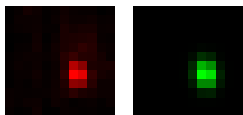Frame size : 12 pixels

Coordinates : -124 um (x), 53.8 um (y), 58.9 um (z)
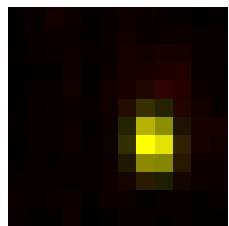Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	385 nm	401 nm	270 nm
max	527 nm	548 nm	270 nm
z	2.07 um	2.08 um	1.3 um
Asymmetry	0.732		
Theta	-82.8°		

XY profile & fitting parameters :

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

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

Parameters:
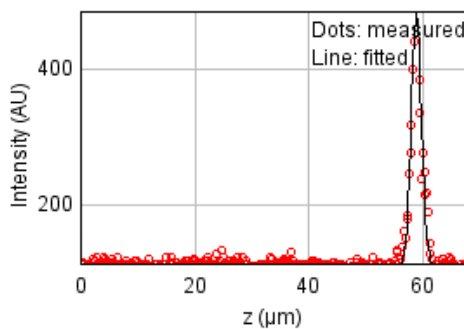 A = 511.644   (brightness)
 B = 122.070   (background)
 a = 0.897 px
 b = -0.052 px
 c = 0.491 px

xc = 7.427 px
yc = 6.907 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 42969.3775
Standard deviation: 11.83070
R^2: 0.95609
Parameters:
 a = 113.63658
 b = 485.80099
 c = 58.90175
 d = 0.87892

Bead 3436

Date : Mon Oct 17 13:54:21 PDT 2022
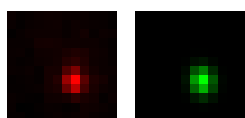Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -108 um (x), 46.1 um (y), 59.4 um (z)
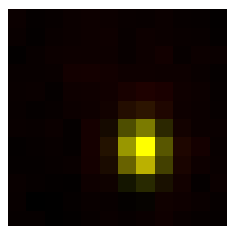Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	407 nm	424 nm	270 nm
max	496 nm	517 nm	270 nm
z	1.67 um	1.67 um	1.3 um
Asymmetry	0.82		
Theta	-82.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.968$

Parameters:
A = 534.861   (brightness)
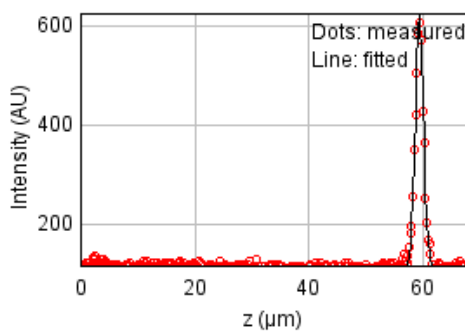B = 122.014   (background)
a = 0.806 px
b = -0.035 px
c = 0.550 px

xc = 6.831 px
yc = 7.156 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 20402.4824
Standard deviation: 8.15215
R^2: 0.98602
Parameters:
 a = 113.83378
 b = 625.64253
 c = 59.42665
 d = 0.70792

Bead 3437 (Rejected)

Date : Mon Oct 17 13:54:21 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

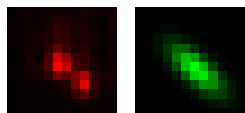Coordinates : -117 um (x), 38.3 um (y), 59.2 um (z)
Corresponding bead : Not found
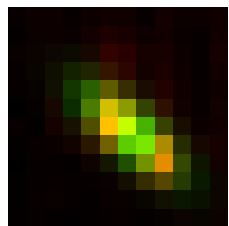Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	481 nm	501 nm	270 nm
max	1.18 um	1.23 um	270 nm
z	2.29 um	2.3 um	1.3 um
Asymmetry	0.409		
Theta	-42.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.767$

Parameters:
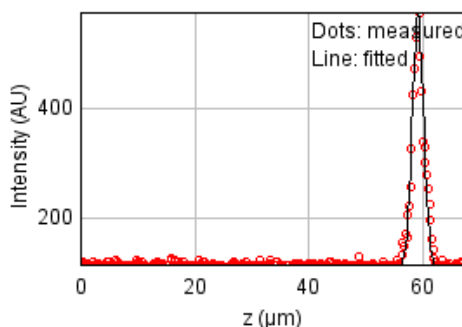 A = 420.866   (brightness)
 B = 123.548   (background)
 a = 0.317 px
 b = -0.240 px
 c = 0.359 px

xc = 6.160 px
yc = 6.296 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 42193.1724
Standard deviation: 11.72335
R^2: 0.97390
Parameters:
 a = 113.16866
 b = 573.34241
 c = 59.17683
 d = 0.97214

Bead 3438

Date : Mon Oct 17 13:54:22 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
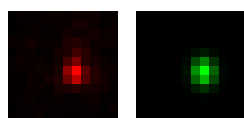Frame size : 12 pixels

Coordinates : -127 um (x), 32.9 um (y), 59.5 um (z)
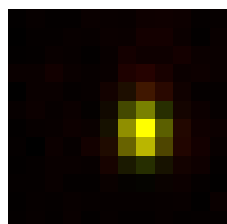Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	412 nm	429 nm	270 nm
max	511 nm	532 nm	270 nm
z	1.98 um	1.98 um	1.3 um
Asymmetry	0.807		
Theta	-87.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 486.583   (brightness)
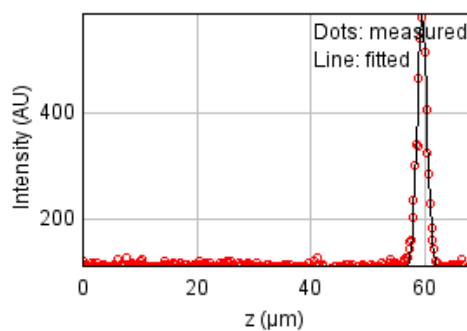 B = 121.221   (background)
 a = 0.790 px
 b = -0.010 px
 c = 0.515 px

xc = 6.871 px
yc = 6.166 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 27597.1307
Standard deviation: 9.48119
R^2: 0.98142
Parameters:
 a = 112.56235
 b = 587.49980
 c = 59.54535
 d = 0.83913

Bead 3439

Date : Mon Oct 17 13:54:22 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
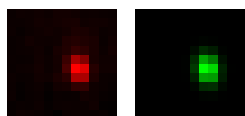Frame size : 12 pixels

Coordinates : -96.3 um (x), 32.7 um (y), 59.2 um (z)
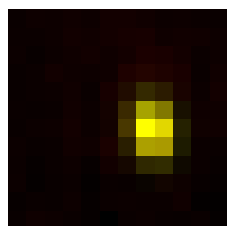Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	396 nm	412 nm	270 nm
max	548 nm	571 nm	270 nm
z	2.07 um	2.08 um	1.3 um
Asymmetry	0.722		
Theta	-80.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 624.086   (brightness)
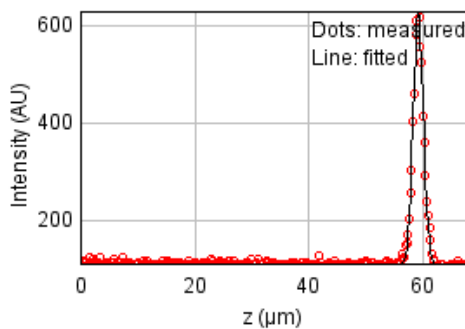 B = 120.540   (background)
 a = 0.845 px
 b = -0.067 px
 c = 0.457 px

xc = 7.401 px
yc = 6.050 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17398.2751
Standard deviation: 7.52807
R^2: 0.99050
Parameters:
 a = 112.07719
 b = 630.02533
 c = 59.23476
 d = 0.87983

Bead 3440 (Rejected)

Date : Mon Oct 17 13:54:22 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -63.2 um (x), 30.9 um (y), 51.5 um (z)
Corresponding bead : Not found
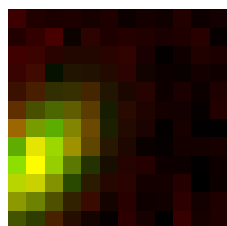Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	757 nm	789 nm	270 nm
max	1.28 um	1.34 um	270 nm
z	1.06 um	1.06 um	1.3 um
Asymmetry	0.59		
Theta	50.2°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
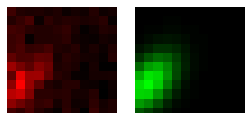
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.827$

Parameters:
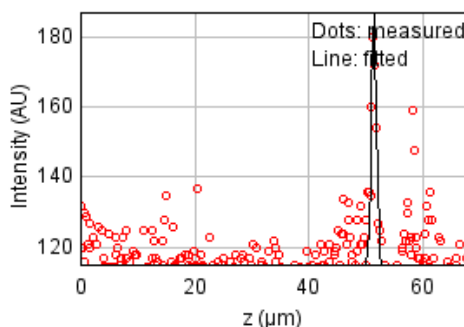 A = 76.522   (brightness)
 B = 115.161   (background)
 a = 0.171 px
 b = 0.075 px
 c = 0.144 px

xc = 0.952 px
yc = 7.865 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19355.8044
Standard deviation: 7.94029
R^2: 0.48486
Parameters:
 a = 114.86990
 b = 186.74381
 c = 51.46219
 d = 0.44824

Bead 3441

Date : Mon Oct 17 13:54:22 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
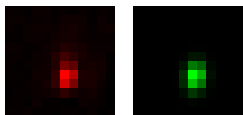Frame size : 12 pixels

Coordinates : -91.9 um (x), 30.7 um (y), 59.3 um (z)
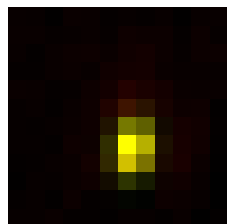Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	357 nm	372 nm	270 nm
max	515 nm	537 nm	270 nm
z	1.91 um	1.91 um	1.3 um
Asymmetry	0.693		
Theta	82.2°		

XY profile & fitting parameters :

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

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

Parameters:
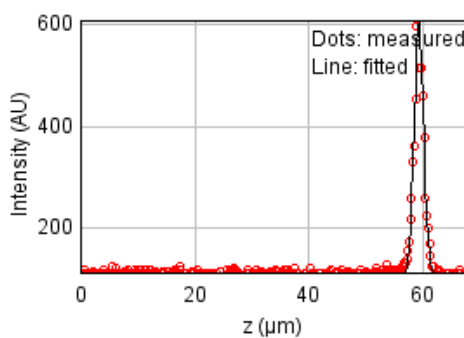A = 571.398   (brightness)
B = 124.573   (background)
a = 1.042 px
b = 0.073 px
c = 0.515 px

xc = 6.308 px
yc = 7.180 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 26373.0086
Standard deviation: 9.26853
R^2: 0.98299
Parameters:
a = 113.05971
b = 606.89948
c = 59.33943
d = 0.80982

Bead 3442

Date : Mon Oct 17 13:54:22 PDT 2022
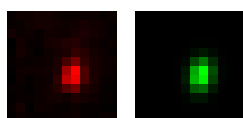Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -132 um (x), 29.7 um (y), 59.0 um (z)
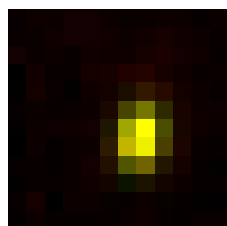Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	405 nm	422 nm	270 nm
max	578 nm	602 nm	270 nm
z	2.05 um	2.06 um	1.3 um
Asymmetry	0.701		
Theta	80.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 397.039   (brightness)
 B = 115.287   (background)
 a = 0.807 px
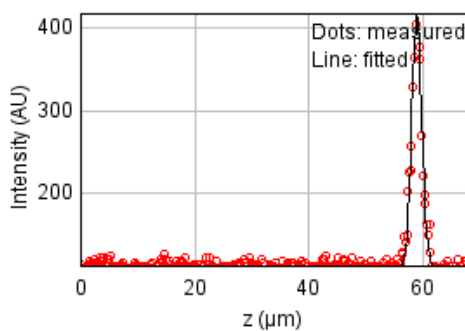 b = 0.069 px
 c = 0.414 px

xc = 6.720 px
yc = 6.477 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 19474.5211
Standard deviation: 7.96460
R^2: 0.96989
Parameters:
 a = 111.45359
 b = 417.53107
 c = 58.97700
 d = 0.87065

Bead 3443

Date : Mon Oct 17 13:54:22 PDT 2022
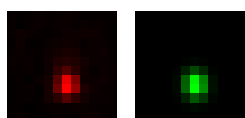Origin : data_traditional.tif   (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -65.1 um (x), 29.9 um (y), 59.3 um (z)
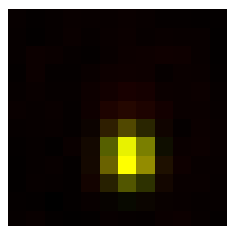Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	431 nm	270 nm
max	484 nm	504 nm	270 nm
z	1.77 um	1.78 um	1.3 um
Asymmetry	0.854		
Theta	-85.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 758.413   (brightness)
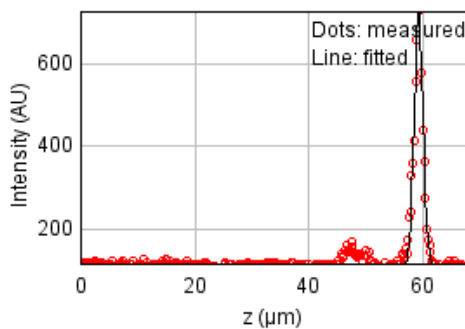 B = 125.269   (background)
 a = 0.783 px
 b = -0.018 px
 c = 0.574 px

xc = 6.103 px
yc = 7.553 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 58817.9883
Standard deviation: 13.84159
R^2: 0.97376
Parameters:
 a = 117.54381
 b = 729.72534
 c = 59.29404
 d = 0.75261

Bead 3444

Date : Mon Oct 17 13:54:23 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
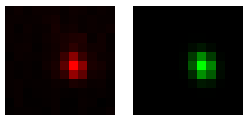Frame size : 12 pixels

Coordinates : -91.7 um (x), 25.2 um (y), 59.5 um (z)
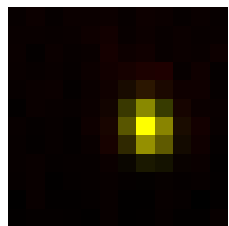Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	386 nm	402 nm	270 nm
max	485 nm	505 nm	270 nm
z	1.71 um	1.72 um	1.3 um
Asymmetry	0.796		
Theta	-73.1°		

XY profile & fitting parameters :

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

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

Parameters:
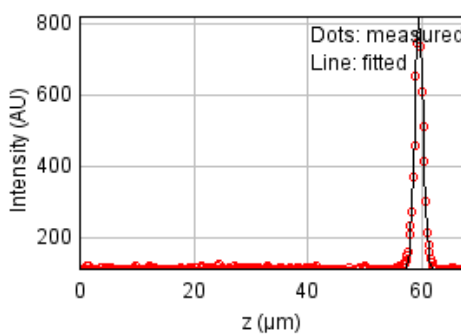 A = 731.918 (brightness)
 B = 124.773 (background)
 a = 0.873 px
 b = -0.092 px
 c = 0.598 px

xc = 7.127 px
yc = 6.040 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 26685.0781
Standard deviation: 9.32320
R^2: 0.99073
Parameters:
 a = 113.87251
 b = 824.92761
 c = 59.51815
 d = 0.72791

Bead 3445

Date : Mon Oct 17 13:54:23 PDT 2022
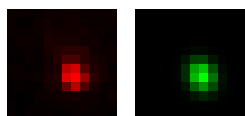Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -68.0 um (x), 24.6 um (y), 59.5 um (z)
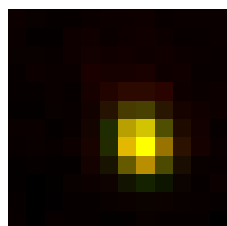Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	479 nm	499 nm	270 nm
max	578 nm	602 nm	270 nm
z	2.01 um	2.02 um	1.3 um
Asymmetry	0.829		
Theta	-68.5°		

XY profile & fitting parameters :

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

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

Parameters:
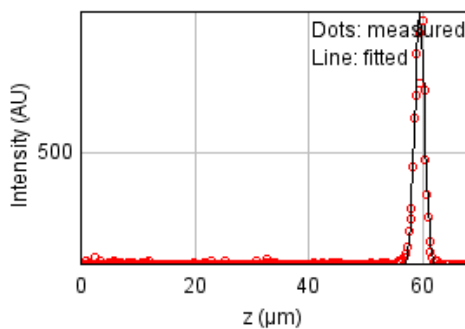 A = 703.917   (brightness)
 B = 126.189   (background)
 a = 0.561 px
 b = -0.063 px
 c = 0.427 px

 xc = 6.767 px
 yc = 6.778 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 144862.401
Standard deviation: 21.72244
R^2: 0.97197
Parameters:
 a = 113.91831
 b = 988.70318
 c = 59.48058
 d = 0.85272

Bead 3446

Date : Mon Oct 17 13:54:23 PDT 2022
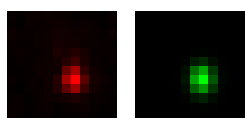Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -83.9 um (x), 21.2 um (y), 59.6 um (z)
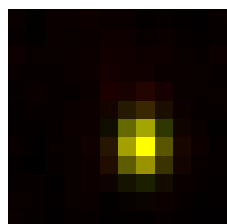Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	415 nm	432 nm	270 nm
max	520 nm	542 nm	270 nm
z	1.76 um	1.77 um	1.3 um
Asymmetry	0.798		
Theta	-88.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.975$

Parameters:
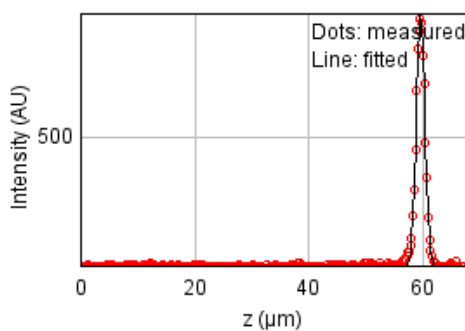A = 739.826 (brightness)
B = 125.880 (background)
a = 0.778 px
b = -0.006 px
c = 0.496 px

xc = 6.798 px
yc = 6.941 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 19188.6915
Standard deviation: 7.90594
R^2: 0.99417
Parameters:
a = 114.03287
b = 865.64445
c = 59.63120
d = 0.74826

Bead 3447 (Rejected)

Date : Mon Oct 17 13:54:23 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -124 um (x), 19.3 um (y), 56.5 um (z)
Corresponding bead : Not found
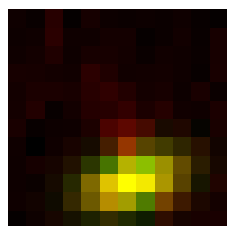Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	549 nm	572 nm	270 nm
max	932 nm	971 nm	270 nm
z	3.28 um	3.29 um	1.3 um
Asymmetry	0.589		
Theta	16.7°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
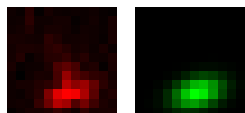
Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B

$R^2 = 0.872$

Parameters:
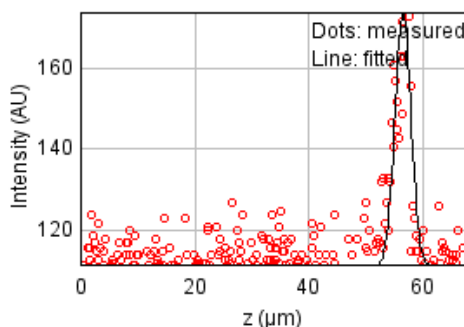 A = 183.763   (brightness)
 B = 119.972   (background)
 a = 0.178 px
 b = 0.080 px
 c = 0.422 px

xc = 6.309 px
yc = 8.866 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 17101.7333
Standard deviation: 7.46364
R^2: 0.70329
Parameters:
 a = 111.33294
 b = 173.76050
 c = 56.54740
 d = 1.39249

Bead 3448

Date : Mon Oct 17 13:54:23 PDT 2022
Origin : data_traditional.tif   (Nikon 40x0.95 air)
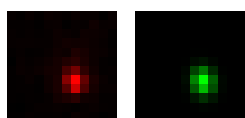Frame size : 12 pixels

Coordinates : -47.1 um (x), 17.0 um (y), 59.4 um (z)
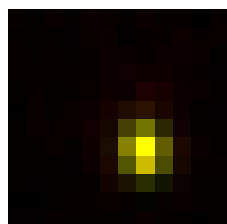Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	398 nm	415 nm	270 nm
max	498 nm	518 nm	270 nm
z	1.95 um	1.95 um	1.3 um
Asymmetry	0.8		
Theta	-80.9°		

XY profile & fitting parameters :

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

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

Parameters:
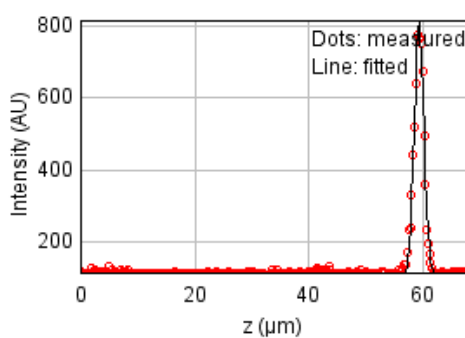 A = 749.853   (brightness)
 B = 125.298   (background)
 a = 0.839 px
 b = -0.048 px
 c = 0.549 px

xc = 6.915 px
yc = 7.206 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 39159.8702
Standard deviation: 11.29409
R^2: 0.98761
Parameters:
 a = 113.64280
 b = 813.55399
 c = 59.37467
 d = 0.82662

Bead 3449 (Rejected)

Date : Mon Oct 17 13:54:24 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -157 um (x), 17.0 um (y), 58.1 um (z)
Corresponding bead : Not found
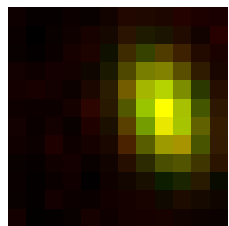Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	677 nm	705 nm	270 nm
max	1.05 um	1.09 um	270 nm
z	2.67 um	2.68 um	1.3 um
Asymmetry	0.647		
Theta	-67.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
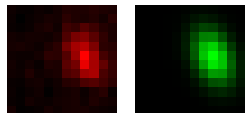
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.951$

Parameters:
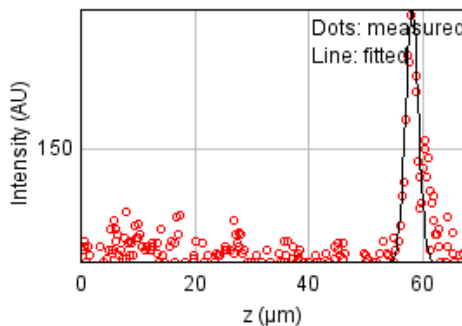 A = 224.976   (brightness)
 B = 120.382   (background)
 a = 0.269 px
 b = -0.059 px
 c = 0.147 px

xc = 8.019 px
yc = 5.157 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19777.3240
Standard deviation: 8.02628
R^2: 0.76211
Parameters:
 a = 111.48260
 b = 197.34591
 c = 58.13541
 d = 1.13396

Bead 3450 (Rejected)

Date : Mon Oct 17 13:54:24 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -157 um (x), 17.0 um (y), 58.1 um (z)
Corresponding bead : Not found
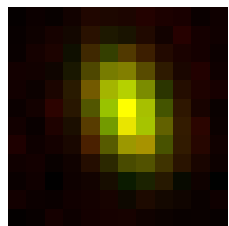Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	668 nm	695 nm	270 nm
max	1.03 um	1.07 um	270 nm
z	2.67 um	2.68 um	1.3 um
Asymmetry	0.648		
Theta	-67.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
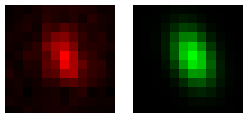
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.950$

Parameters:
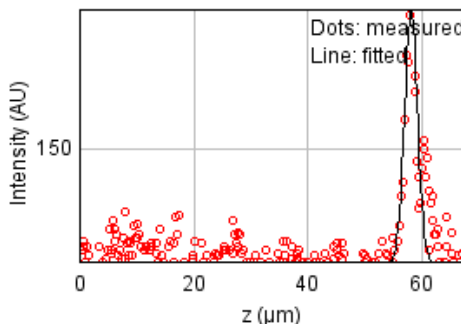 A = 224.416   (brightness)
 B = 122.319   (background)
 a = 0.275 px
 b = -0.062 px
 c = 0.152 px
xc = 6.024 px
yc = 5.160 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19777.3240
Standard deviation: 8.02628
R^2: 0.76211
Parameters:
 a = 111.48260
 b = 197.34591
 c = 58.13541
 d = 1.13396

Bead 3451

Date : Mon Oct 17 13:54:24 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
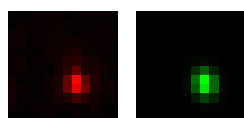Frame size : 12 pixels

Coordinates : -80.1 um (x), 15.4 um (y), 59.7 um (z)
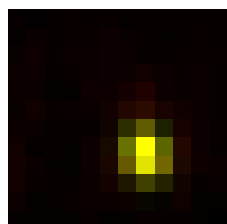Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	406 nm	270 nm
max	488 nm	508 nm	270 nm
z	1.62 um	1.63 um	1.3 um
Asymmetry	0.798		
Theta	-78.9°		

XY profile & fitting parameters :

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

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

Parameters:
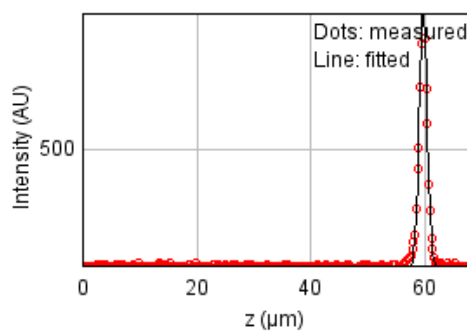 A = 906.235   (brightness)
 B = 133.474   (background)
 a = 0.872 px
 b = -0.061 px
 c = 0.575 px

xc = 6.997 px
yc = 7.402 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 25989.6808
Standard deviation: 9.20092
R^2: 0.99323
Parameters:
 a = 114.05715
 b = 957.66561
 c = 59.73544
 d = 0.68960

Bead 3452

Date : Mon Oct 17 13:54:24 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
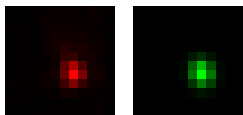Frame size : 12 pixels

Coordinates : -73.3 um (x), 12.0 um (y), 59.7 um (z)
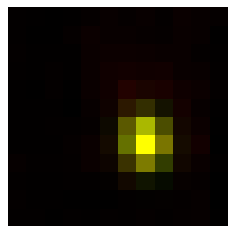Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	408 nm	425 nm	270 nm
max	506 nm	527 nm	270 nm
z	1.88 um	1.89 um	1.3 um
Asymmetry	0.805		
Theta	-81.2°		

XY profile & fitting parameters :

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

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

Parameters:
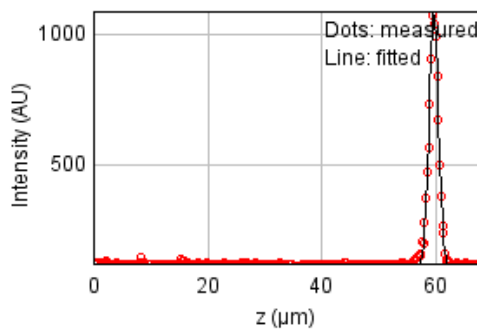 A = 965.593   (brightness)
 B = 126.781   (background)
 a = 0.801 px
 b = -0.043 px
 c = 0.530 px

xc = 7.001 px
yc = 6.807 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 28620.6843
Standard deviation: 9.65541
R^2: 0.99516
Parameters:
 a = 114.69704
 b = 1090.89154
 c = 59.66555
 d = 0.79976

Bead 3453 (Rejected)

Date : Mon Oct 17 13:54:24 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

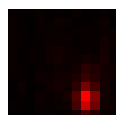Coordinates : 20.9 um (x), 11.5 um (y), 58.7 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

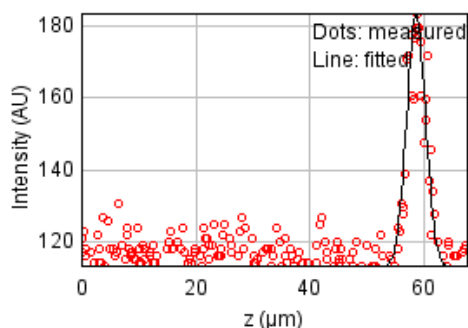| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	3.88 um	3.89 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal 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: 16729.8306
Standard deviation: 7.38204
R^2: 0.78311
Parameters:
 a = 113.00887
 b = 183.59597
 c = 58.68405
 d = 1.64658

Bead 3454 (Rejected)

Date : Mon Oct 17 13:54:25 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

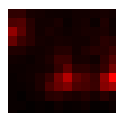Coordinates : -41.4 um (x), 10.0 um (y), 60.2 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

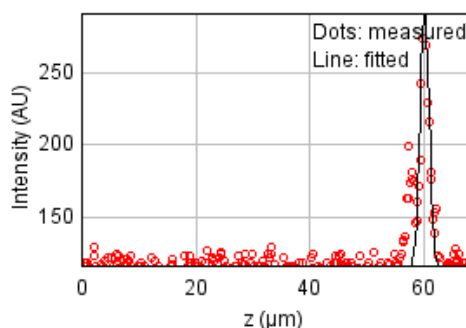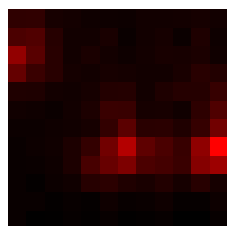| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	1.84 um	1.85 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal 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: 45879.0574
Standard deviation: 12.22470
R^2: 0.80540
Parameters:
 a = 115.46790
 b = 292.89993
 c = 60.17858
 d = 0.78051

Bead 3455

Date : Mon Oct 17 13:54:25 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
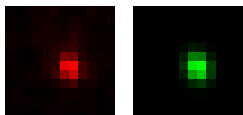Frame size : 12 pixels

Coordinates : -25.4 um (x), 3.15 um (y), 59.5 um (z)
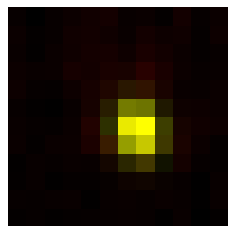Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	434 nm	270 nm
max	520 nm	542 nm	270 nm
z	1.82 um	1.83 um	1.3 um
Asymmetry	0.8		
Theta	-74.0°		

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
  $R^2 = 0.962$

Parameters:
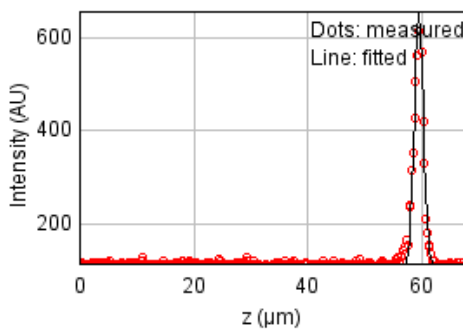 A = 566.019 (brightness)
 B = 122.893 (background)
 a = 0.753 px
 b = -0.074 px
 c = 0.517 px

xc = 6.577 px
yc = 6.203 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 45728.1962
Standard deviation: 12.20458
R^2: 0.97501
Parameters:
 a = 114.21481
 b = 660.86677
 c = 59.50498
 d = 0.77240

Bead 3456

Date : Mon Oct 17 13:54:25 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
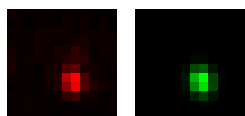Frame size : 12 pixels

Coordinates : -10.4 um (x), -409 nm (y), 59.5 um (z)
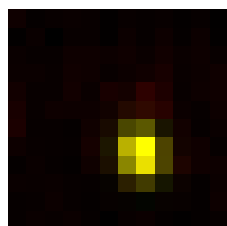Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	393 nm	409 nm	270 nm
max	480 nm	500 nm	270 nm
z	1.76 um	1.76 um	1.3 um
Asymmetry	0.817		
Theta	-74.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.961$

Parameters:
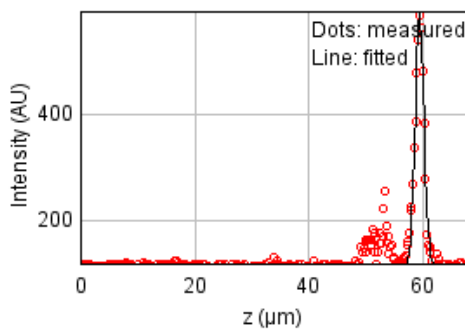 A = 539.972   (brightness)
 B = 126.277   (background)
 a = 0.851 px
 b = -0.073 px
 c = 0.601 px

xc = 6.746 px
yc = 7.359 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 107251.363
Standard deviation: 18.69099
R^2: 0.92366
Parameters:
 a = 119.32284
 b = 593.23722
 c = 59.45598
 d = 0.74626

Bead 3457 (Rejected)

Date : Mon Oct 17 13:54:25 PDT 2022
Origin : data_traditional.tif   (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -69.9 um (x), -1.06 um (y), 13.0 um (z)
Corresponding bead : Not found
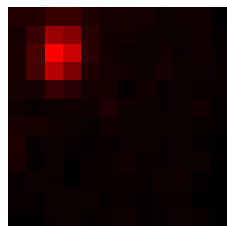Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	101 nm	106 nm	270 nm
max	4.88 um	5.09 um	270 nm
z	3.07 um	3.08 um	1.3 um
Asymmetry	0.021		
Theta	0.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.034$

Parameters:
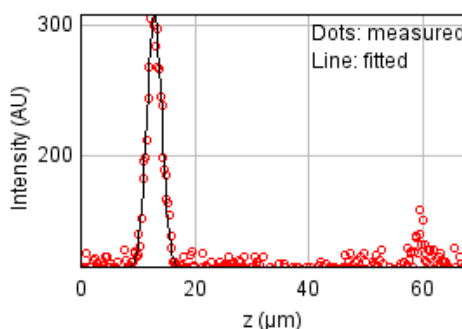 A = -66.730   (brightness)
 B = 134.751   (background)
 a = 6.590 px
 b = 6.516 px
 c = 6.431 px

xc = 4.185 px
yc = 4.340 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 21808.4395
Standard deviation: 8.42836
R^2: 0.94358
Parameters:
 a = 114.86261
 b = 307.97449
 c = 12.98835
 d = 1.30271

Bead 3458

Date : Mon Oct 17 13:54:25 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
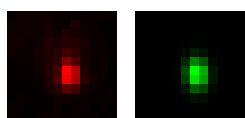Frame size : 12 pixels

Coordinates : 5.12 um (x), -5.69 um (y), 59.3 um (z)
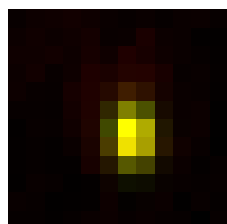Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	420 nm	270 nm
max	576 nm	600 nm	270 nm
z	2.11 um	2.12 um	1.3 um
Asymmetry	0.7		
Theta	-86.3°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.954$

   Parameters:
   A = 497.002   (brightness)
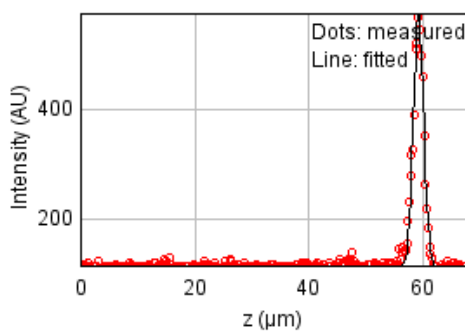   B = 123.778   (background)
   a = 0.825 px
   b = -0.027 px
   c = 0.406 px

xc = 6.269 px
yc = 6.363 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 27002.4436
Standard deviation: 9.37848
R^2: 0.98174
Parameters:
 a = 115.28239
 b = 574.85329
 c = 59.27581
 d = 0.89492

Bead 3459

Date : Mon Oct 17 13:54:25 PDT 2022
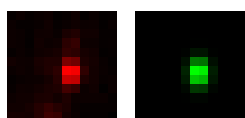Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -32.2 um (x), -7.64 um (y), 59.5 um (z)
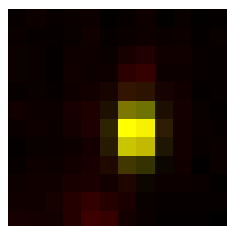Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	361 nm	376 nm	270 nm
max	513 nm	535 nm	270 nm
z	2.11 um	2.12 um	1.3 um
Asymmetry	0.703		
Theta	89.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 728.844   (brightness)
 B = 140.798   (background)
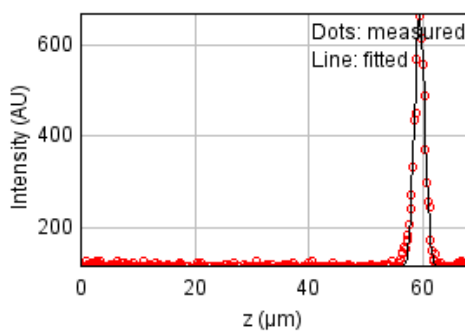 a = 1.031 px
 b = 0.005 px
 c = 0.509 px

xc = 6.471 px
yc = 6.244 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 28793.0163
Standard deviation: 9.68444
R^2: 0.98665
Parameters:
 a = 114.30570
 b = 670.36506
 c = 59.46743
 d = 0.89618

Bead 3460

Date : Mon Oct 17 13:54:25 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
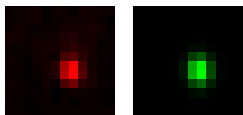Frame size : 12 pixels

Coordinates : 45.5 um (x), -9.03 um (y), 59.1 um (z)
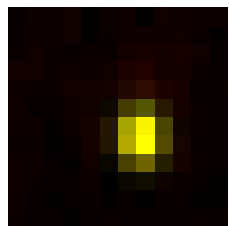Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	423 nm	270 nm
max	522 nm	543 nm	270 nm
z	2.17 um	2.18 um	1.3 um
Asymmetry	0.778		
Theta	-88.1°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.973$

Parameters:
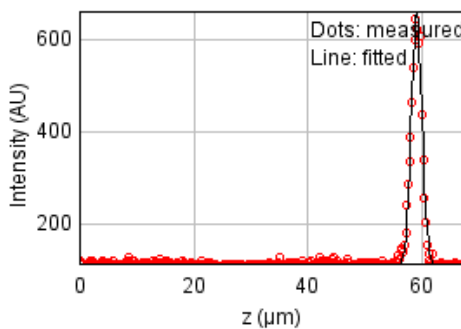 A = 587.574   (brightness)
 B = 121.593   (background)
 a = 0.814 px
 b = -0.010 px
 c = 0.494 px

xc = 6.745 px
yc = 6.544 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 37727.4734
Standard deviation: 11.08561
R^2: 0.98235
Parameters:
 a = 114.05077
 b = 659.56888
 c = 59.12945
 d = 0.92002

Bead 3461

Date : Mon Oct 17 13:54:26 PDT 2022
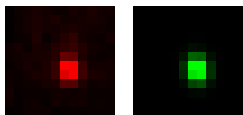Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 32.9 um (x), -12.1 um (y), 59.2 um (z)
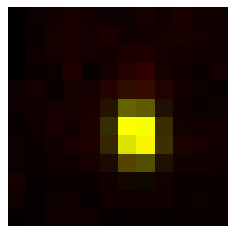Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	394 nm	410 nm	270 nm
max	502 nm	523 nm	270 nm
z	2.22 um	2.23 um	1.3 um
Asymmetry	0.784		
Theta	-83.1°		

XY profile & fitting parameters :

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

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

Parameters:
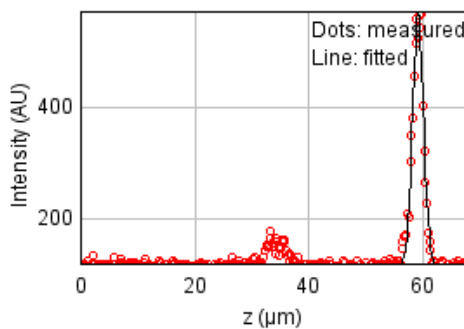 A = 555.367   (brightness)
 B = 123.827   (background)
 a = 0.861 px
 b = -0.040 px
 c = 0.537 px

xc = 6.518 px
yc = 6.425 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 63672.3485
Standard deviation: 14.40145
R^2: 0.95908
Parameters:
 a = 117.51707
 b = 572.52016
 c = 59.19587
 d = 0.94108

Bead 3462

Date : Mon Oct 17 13:54:26 PDT 2022
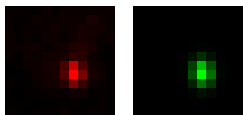Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 42.0 um (x), -12.4 um (y), 59.2 um (z)
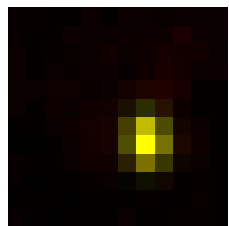Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	364 nm	379 nm	270 nm
max	490 nm	510 nm	270 nm
z	2.0 um	2.0 um	1.3 um
Asymmetry	0.743		
Theta	-84.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 605.694   (brightness)
 B = 124.940   (background)
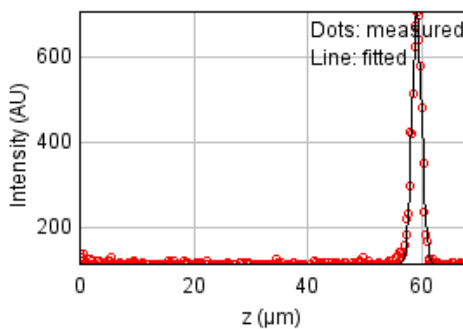 a = 1.008 px
 b = -0.042 px
 c = 0.563 px

xc = 7.083 px
yc = 6.779 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 32785.7131
Standard deviation: 10.33411
R^2: 0.98594
Parameters:
 a = 114.56411
 b = 708.02595
 c = 59.16762
 d = 0.84760

Bead 3463

Date : Mon Oct 17 13:54:26 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
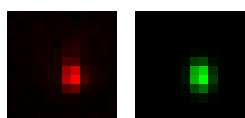Frame size : 12 pixels

Coordinates : -41.2 um (x), -14.3 um (y), 59.7 um (z)
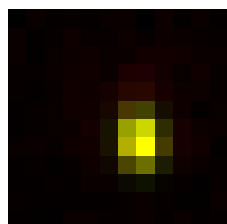Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	378 nm	394 nm	270 nm
max	519 nm	541 nm	270 nm
z	2.18 um	2.19 um	1.3 um
Asymmetry	0.729		
Theta	-83.6°		

XY profile & fitting parameters :

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

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

Parameters:
A = 662.170 (brightness)
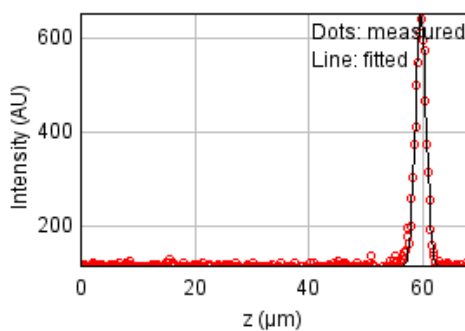B = 122.582 (background)
a = 0.931 px
b = -0.048 px
c = 0.503 px

xc = 6.683 px
yc = 6.642 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 28502.6160
Standard deviation: 9.63548
R^2: 0.98642
Parameters:
a = 114.43137
b = 654.30556
c = 59.66198
d = 0.92635

Bead 3464

Date : Mon Oct 17 13:54:26 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
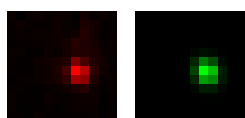Frame size : 12 pixels

Coordinates : 32.0 um (x), -16.2 um (y), 59.4 um (z)
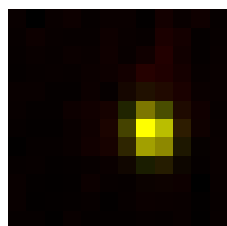Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	400 nm	417 nm	270 nm
max	474 nm	493 nm	270 nm
z	1.97 um	1.98 um	1.3 um
Asymmetry	0.845		
Theta	-72.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 592.998 (brightness)
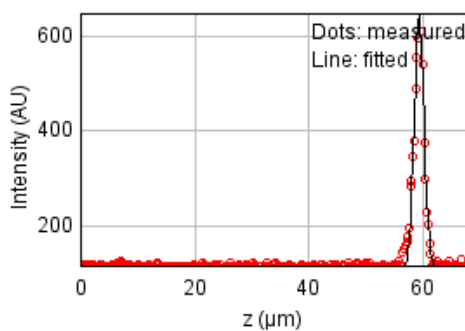 B = 123.339 (background)
 a = 0.817 px
 b = -0.069 px
 c = 0.620 px

xc = 7.331 px
yc = 6.156 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 33927.1785
Standard deviation: 10.51247
R^2: 0.98189
Parameters:
 a = 113.66509
 b = 647.38474
 c = 59.38330
 d = 0.83853

Bead 3465

Date : Mon Oct 17 13:54:27 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
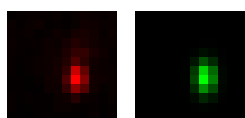Frame size : 12 pixels

Coordinates : -4.15 um (x), -19.2 um (y), 59.4 um (z)
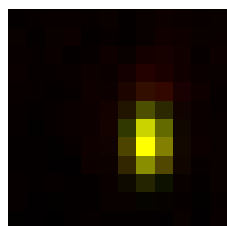Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	365 nm	380 nm	270 nm
max	586 nm	610 nm	270 nm
z	2.01 um	2.02 um	1.3 um
Asymmetry	0.623		
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

$R^2 = 0.960$

Parameters:
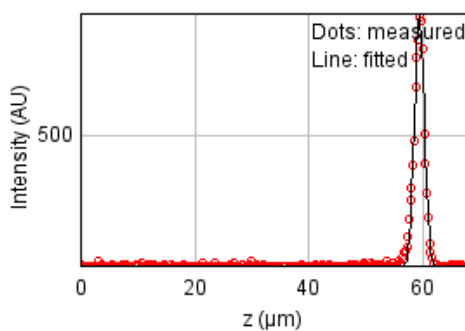 A = 760.516   (brightness)
 B = 128.271   (background)
 a = 1.009 px
 b = 0.003 px
 c = 0.391 px

xc = 7.156 px
yc = 6.748 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 46366.5967
Standard deviation: 12.28948
R^2: 0.98747
Parameters:
 a = 113.51648
 b = 858.85548
 c = 59.42910
 d = 0.85466

Bead 3466

Date : Mon Oct 17 13:54:27 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
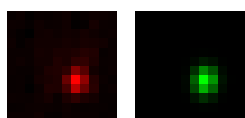Frame size : 12 pixels

Coordinates : 38.8 um (x), -19.7 um (y), 59.3 um (z)
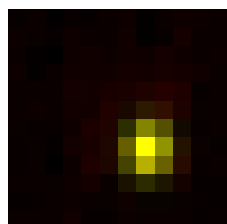Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	433 nm	270 nm
max	511 nm	532 nm	270 nm
z	2.07 um	2.08 um	1.3 um
Asymmetry	0.815		
Theta	85.0°		

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 = 0.952

Parameters:
 A = 469.354   (brightness)
 B = 125.670   (background)
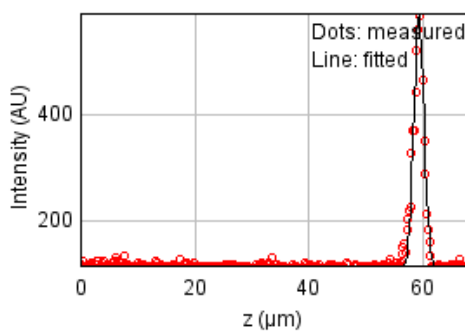 a = 0.773 px
 b = 0.023 px
 c = 0.517 px

xc = 7.143 px
yc = 7.131 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 42082.3932
Standard deviation: 11.70795
R^2: 0.97378
Parameters:
 a = 113.42558
 b = 594.75077
 c = 59.34288
 d = 0.87761

Bead 3467

Date : Mon Oct 17 13:54:27 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
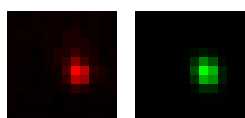Frame size : 12 pixels

Coordinates : -71.7 um (x), -22.1 um (y), 59.2 um (z)
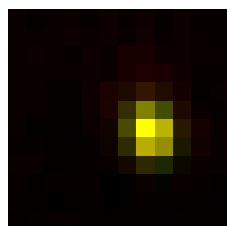Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	404 nm	421 nm	270 nm
max	511 nm	532 nm	270 nm
z	1.93 um	1.94 um	1.3 um
Asymmetry	0.791		
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 = 0.969

Parameters:
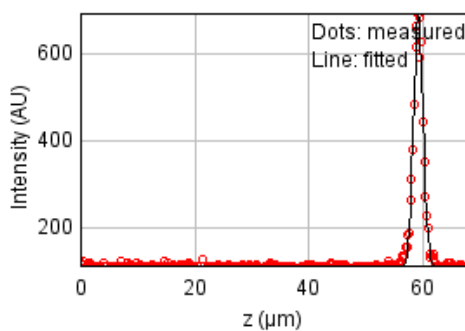 A = 624.504   (brightness)
 B = 123.036   (background)
 a = 0.799 px
 b = -0.081 px
 c = 0.537 px

xc = 7.294 px
yc = 6.181 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 24200.0212
Standard deviation: 8.87848
R^2: 0.98885
Parameters:
 a = 112.74972
 b = 695.78107
 c = 59.24532
 d = 0.81908

Bead 3468

Date : Mon Oct 17 13:54:27 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
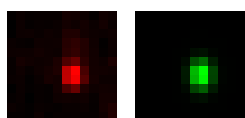Frame size : 12 pixels

Coordinates : 49.2 um (x), -22.2 um (y), 59.2 um (z)
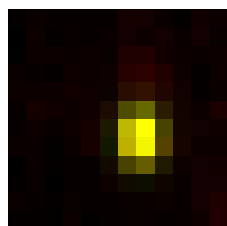Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	401 nm	418 nm	270 nm
max	535 nm	557 nm	270 nm
z	2.26 um	2.27 um	1.3 um
Asymmetry	0.75		
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 = 0.956

Parameters:
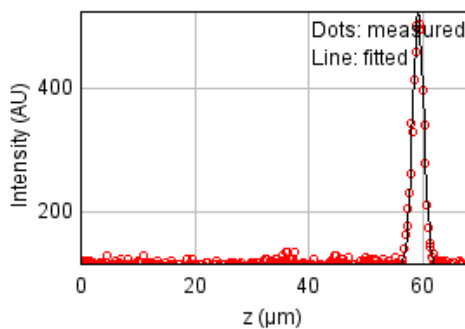A = 506.693   (brightness)
B = 129.483   (background)
a = 0.833 px
b = -0.002 px
c = 0.469 px

xc = 6.699 px
yc = 6.457 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 22347.3432
Standard deviation: 8.53186
R^2: 0.98202
Parameters:
a = 115.88043
b = 523.50585
c = 59.22771
d = 0.96005

Bead 3469

Date : Mon Oct 17 13:54:27 PDT 2022
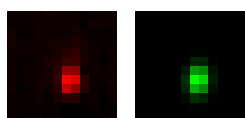Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 9.33 um (x), -22.6 um (y), 59.4 um (z)
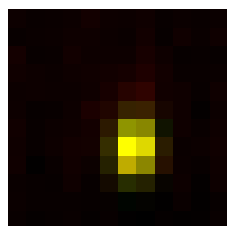Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	376 nm	392 nm	270 nm
max	536 nm	559 nm	270 nm
z	2.16 um	2.17 um	1.3 um
Asymmetry	0.702		
Theta	85.4°		

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
   $R^2 = 0.964$

Parameters:
A = 613.598   (brightness)
B = 128.234   (background)
a = 0.944 px
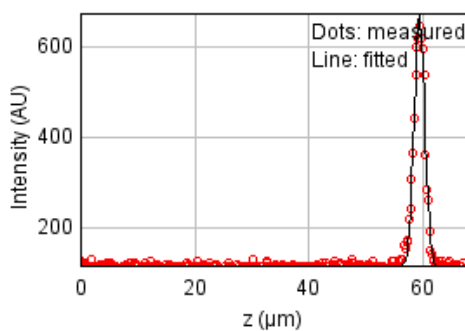b = 0.039 px
c = 0.470 px

xc = 6.409 px
yc = 7.045 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 27060.7425
Standard deviation: 9.38860
R^2: 0.98790
Parameters:
 a = 114.17391
 b = 673.86527
 c = 59.43955
 d = 0.91931

Bead 3470

Date : Mon Oct 17 13:54:27 PDT 2022
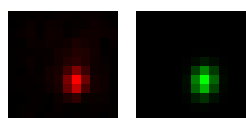Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 1.52 um (x), -23.0 um (y), 59.6 um (z)
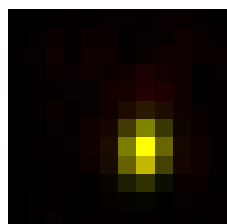Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	419 nm	270 nm
max	521 nm	543 nm	270 nm
z	2.05 um	2.06 um	1.3 um
Asymmetry	0.773		
Theta	82.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 904.156   (brightness)
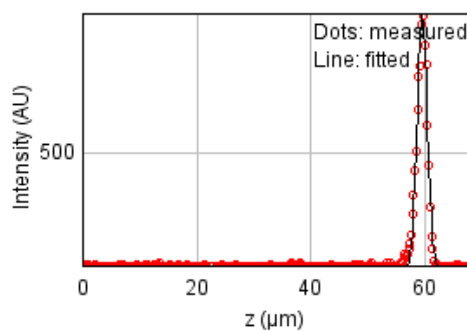 B = 128.969   (background)
 a = 0.822 px
 b = 0.044 px
 c = 0.500 px

 xc = 6.926 px
 yc = 7.171 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 55865.2171
Standard deviation: 13.48968
R^2: 0.98899
Parameters:
 a = 114.16360
 b = 979.54685
 c = 59.57097
 d = 0.87126

Bead 3471 (Rejected)

Date : Mon Oct 17 13:54:27 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

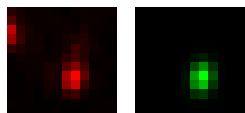Coordinates : 50.8 um (x), -23.3 um (y), 59.5 um (z)
Corresponding bead : Not found
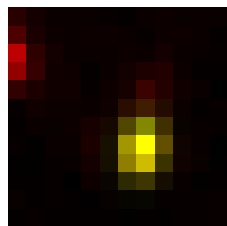Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	395 nm	412 nm	270 nm
max	540 nm	563 nm	270 nm
z	2.2 um	2.21 um	1.3 um
Asymmetry	0.731		
Theta	80.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.700$

Parameters:
 A = 685.731   (brightness)
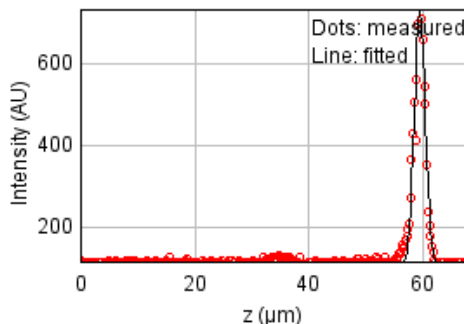 B = 147.542   (background)
 a = 0.848 px
 b = 0.064 px
 c = 0.470 px

xc = 6.796 px
yc = 7.201 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 68432.5338
Standard deviation: 14.93008
R^2: 0.97595
Parameters:
 a = 114.96571
 b = 737.72690
 c = 59.49976
 d = 0.93460

Bead 3472

Date : Mon Oct 17 13:54:27 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
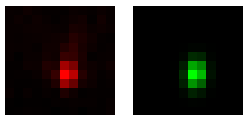Frame size : 12 pixels

Coordinates : 6.9 um (x), -23.4 um (y), 59.5 um (z)
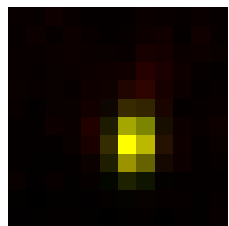Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	361 nm	376 nm	270 nm
max	528 nm	550 nm	270 nm
z	2.16 um	2.17 um	1.3 um
Asymmetry	0.683		
Theta	85.3°		

XY profile & fitting parameters :

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

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

Parameters:
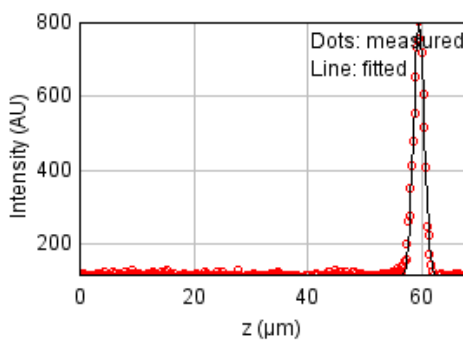 A = 760.817 (brightness)
 B = 127.360 (background)
 a = 1.028 px
 b = 0.045 px
 c = 0.485 px

xc = 6.347 px
yc = 6.903 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 41568.0670
Standard deviation: 11.63619
R^2: 0.98779
Parameters:
 a = 113.86420
 b = 805.43529
 c = 59.51750
 d = 0.91703

Bead 3473

Date : Mon Oct 17 13:54:28 PDT 2022
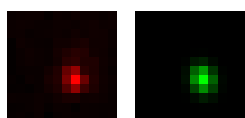Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -25.1 um (x), -23.6 um (y), 59.8 um (z)
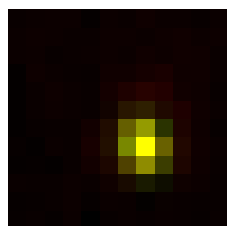Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	405 nm	422 nm	270 nm
max	503 nm	524 nm	270 nm
z	1.95 um	1.96 um	1.3 um
Asymmetry	0.805		
Theta	-75.3°		

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 = 0.956

Parameters:
 A = 690.894   (brightness)
 B = 127.587   (background)
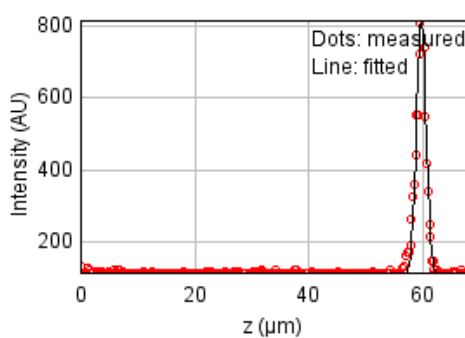 a = 0.798 px
 b = -0.070 px
 c = 0.548 px

xc = 6.888 px
yc = 6.940 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 56904.6738
Standard deviation: 13.61460
R^2: 0.98232
Parameters:
 a = 113.49636
 b = 816.92547
 c = 59.75324
 d = 0.82899

Bead 3474

Date : Mon Oct 17 13:54:28 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
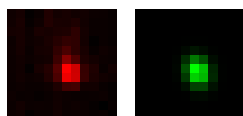Frame size : 12 pixels

Coordinates : 150 um (x), -24.8 um (y), 58.9 um (z)
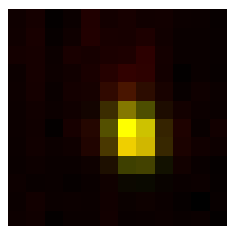Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	427 nm	445 nm	270 nm
max	540 nm	562 nm	270 nm
z	2.33 um	2.34 um	1.3 um
Asymmetry	0.791		
Theta	-73.1°		

XY profile & fitting parameters :

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

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

Parameters:
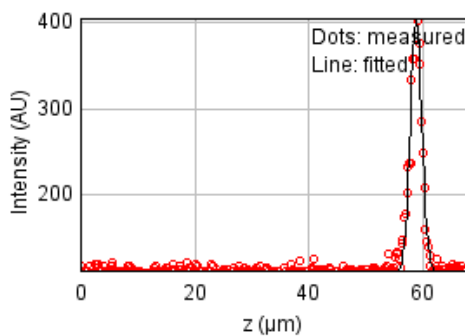 A = 448.073   (brightness)
 B = 116.125   (background)
 a = 0.712 px
 b = -0.076 px
 c = 0.484 px

xc = 6.345 px
yc = 6.338 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17835.9098
Standard deviation: 7.62217
R^2: 0.97388
Parameters:
 a = 109.88796
 b = 406.31304
 c = 58.86148
 d = 0.99085

Bead 3475

Date : Mon Oct 17 13:54:28 PDT 2022
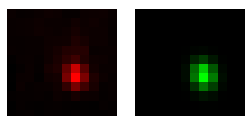Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -2.64 um (x), -25.3 um (y), 59.6 um (z)
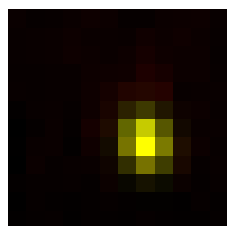Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	432 nm	270 nm
max	515 nm	537 nm	270 nm
z	2.06 um	2.07 um	1.3 um
Asymmetry	0.804		
Theta	-77.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 772.934   (brightness)
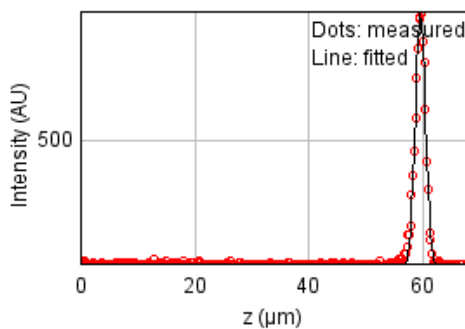 B = 128.425   (background)
 a = 0.769 px
 b = -0.058 px
 c = 0.518 px

xc = 6.997 px
yc = 6.722 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 33889.2726
Standard deviation: 10.50659
R^2: 0.99205
Parameters:
 a = 113.79821
 b = 906.62061
 c = 59.59936
 d = 0.87567

Bead 3476

Date : Mon Oct 17 13:54:28 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
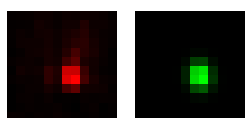Frame size : 12 pixels

Coordinates : 84.8 um (x), -27.7 um (y), 59.1 um (z)
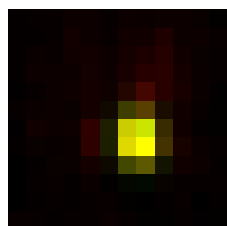Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	483 nm	503 nm	270 nm
z	2.28 um	2.29 um	1.3 um
Asymmetry	0.805		
Theta	-85.1°		

XY profile & fitting parameters :

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

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

Parameters:
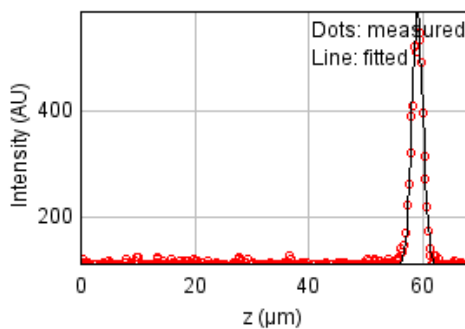 A = 592.519   (brightness)
 B = 124.558   (background)
 a = 0.886 px
 b = -0.027 px
 c = 0.579 px

xc = 6.580 px
yc = 6.575 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 22548.0810
Standard deviation: 8.57009
R^2: 0.98666
Parameters:
 a = 112.20295
 b = 587.00476
 c = 59.09006
 d = 0.96704

Bead 3477 (Rejected)

Date : Mon Oct 17 13:54:28 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 50.7 um (x), -30.4 um (y), 31.4 um (z)
Corresponding bead : Not found
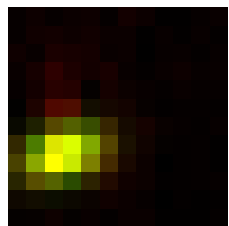Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	490 nm	511 nm	270 nm
max	769 nm	801 nm	270 nm
z	3.24 um	3.25 um	1.3 um
Asymmetry	0.638		
Theta	17.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
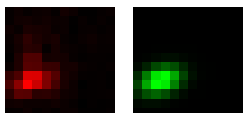
Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
  R^2 = 0.923

Parameters:
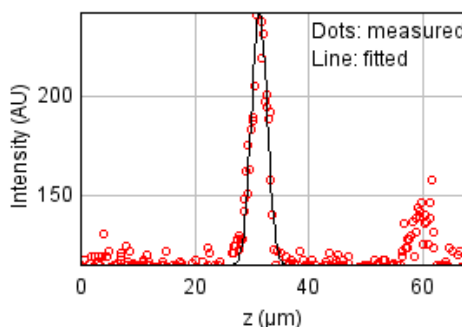 A = 423.264 (brightness)
 B = 124.312 (background)
 a = 0.257 px
 b = 0.095 px
 c = 0.528 px

  xc = 2.509 px
  yc = 7.511 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 25344.4745
Standard deviation: 9.08599
R^2: 0.86992
Parameters:
 a = 114.52658
 b = 242.96506
 c = 31.37612
 d = 1.37407

Bead 3478

Date : Mon Oct 17 13:54:28 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
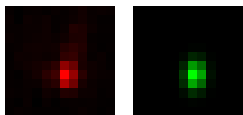Frame size : 12 pixels

Coordinates : 103 um (x), -30.5 um (y), 59.3 um (z)
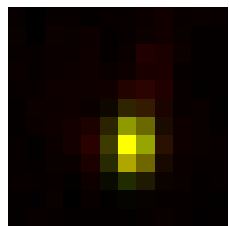Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	376 nm	392 nm	270 nm
max	537 nm	560 nm	270 nm
z	1.84 um	1.85 um	1.3 um
Asymmetry	0.7		
Theta	86.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.942$

Parameters:
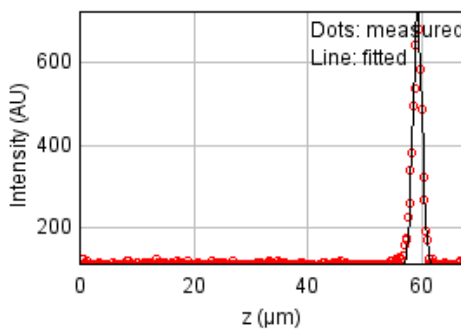A = 633.621   (brightness)
B = 127.646   (background)
a = 0.947 px
b = 0.027 px
c = 0.466 px

xc = 6.269 px
yc = 7.028 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 42608.8477
Standard deviation: 11.78096
R^2: 0.98160
Parameters:
 a = 112.30091
 b = 725.56571
 c = 59.26947
 d = 0.78231

Bead 3479

Date : Mon Oct 17 13:54:28 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
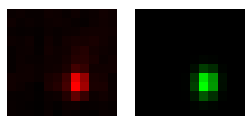Frame size : 12 pixels

Coordinates : 39.7 um (x), -33.5 um (y), 59.7 um (z)
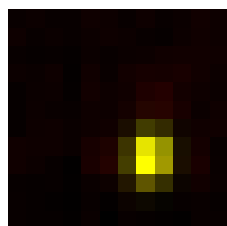Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	373 nm	388 nm	270 nm
max	471 nm	490 nm	270 nm
z	2.14 um	2.15 um	1.3 um
Asymmetry	0.792		
Theta	84.1°		

XY profile & fitting parameters :

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

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

Parameters:
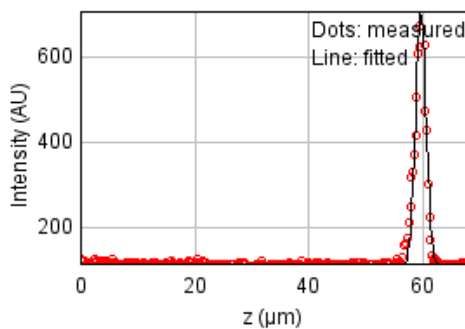 A = 716.438   (brightness)
 B = 129.046   (background)
 a = 0.961 px
 b = 0.037 px
 c = 0.609 px

xc = 7.250 px
yc = 7.578 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 60552.9278
Standard deviation: 14.04424
R^2: 0.97595
Parameters:
 a = 113.16818
 b = 706.10166
 c = 59.67012
 d = 0.91081

Bead 3480

Date : Mon Oct 17 13:54:29 PDT 2022
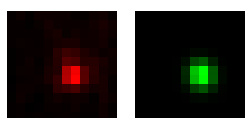Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -104 um (x), -53.0 um (y), 59.3 um (z)
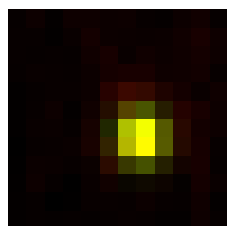Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	448 nm	466 nm	270 nm
max	493 nm	513 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.908		
Theta	-79.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.943$

Parameters:
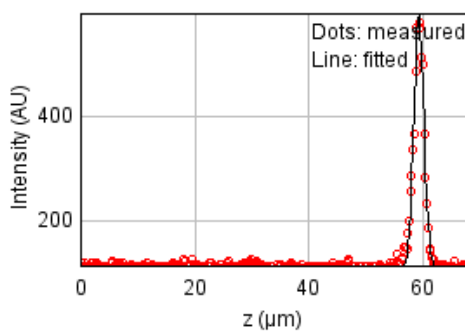A = 523.432   (brightness)
B = 122.905   (background)
a = 0.665 px
b = -0.021 px
c = 0.556 px

xc = 6.723 px
yc = 6.474 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 25112.3624
Standard deviation: 9.04429
R^2: 0.98427
Parameters:
a = 112.97845
b = 600.39807
c = 59.33311
d = 0.85975

Bead 3481

Date : Mon Oct 17 13:54:29 PDT 2022
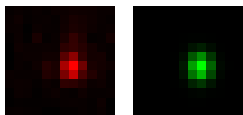Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 116 um (x), -56.2 um (y), 59.1 um (z)
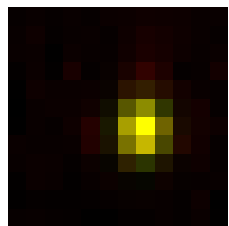Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	434 nm	452 nm	270 nm
max	537 nm	559 nm	270 nm
z	2.14 um	2.15 um	1.3 um
Asymmetry	0.808		
Theta	89.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 434.012   (brightness)
 B = 118.239   (background)
 a = 0.714 px
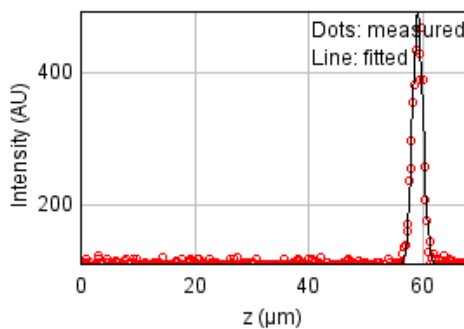 b = 0.002 px
 c = 0.466 px

xc = 6.833 px
yc = 6.146 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 34035.3459
Standard deviation: 10.52921
R^2: 0.96729
Parameters:
 a = 111.04408
 b = 490.93878
 c = 59.14522
 d = 0.90897

Bead 3482

Date : Mon Oct 17 13:54:29 PDT 2022
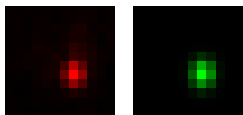Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 31.9 um (x), -68.9 um (y), 59.5 um (z)
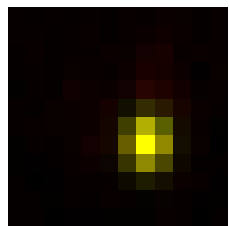Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	423 nm	270 nm
max	517 nm	539 nm	270 nm
z	1.91 um	1.92 um	1.3 um
Asymmetry	0.785		
Theta	87.5°		

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
  $R^2 = 0.971$

Parameters:
  A = 747.583   (brightness)
  B = 126.188   (background)
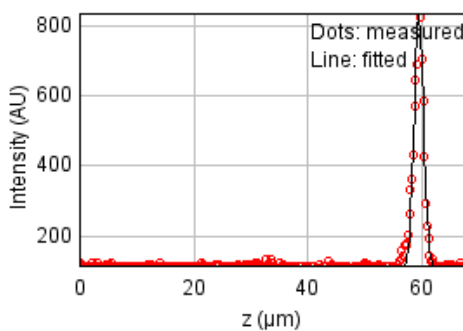 a = 0.813 px
  b = 0.013 px
  c = 0.502 px

xc = 7.115 px
yc = 6.874 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 55259.2513
Standard deviation: 13.41632
R^2: 0.98355
Parameters:
 a = 114.02291
 b = 840.69137
 c = 59.50350
 d = 0.81091

Bead 3483 (Rejected)

Date : Mon Oct 17 13:54:29 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 112 um (x), -89.4 um (y), 56.3 um (z)
Corresponding bead : Not found
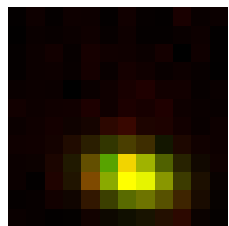Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	498 nm	519 nm	270 nm
max	803 nm	836 nm	270 nm
z	3.9 um	3.92 um	1.3 um
Asymmetry	0.62		
Theta	-11.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
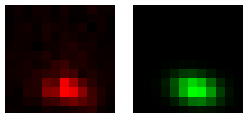
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.920$

Parameters:
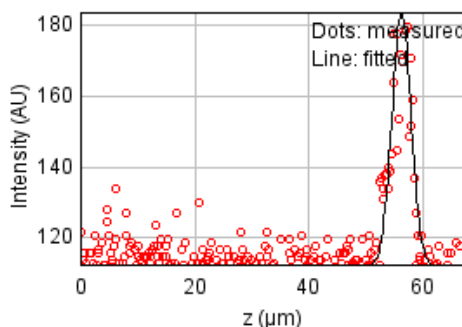 A = 250.615   (brightness)
 B = 119.046   (background)
 a = 0.222 px
 b = -0.065 px
 c = 0.528 px

xc = 6.320 px
yc = 8.711 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15058.8366
Standard deviation: 7.00368
R^2: 0.80496
Parameters:
 a = 112.23224
 b = 183.60223
 c = 56.29406
 d = 1.65828

Bead 3484

Date : Mon Oct 17 13:54:29 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
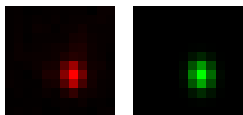Frame size : 12 pixels

Coordinates : 33.2 um (x), -90.8 um (y), 59.7 um (z)
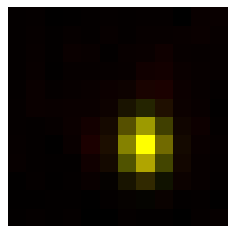Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	433 nm	270 nm
max	533 nm	555 nm	270 nm
z	1.75 um	1.76 um	1.3 um
Asymmetry	0.78		
Theta	-88.6°		

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 = 0.979

Parameters:
A = 795.003   (brightness)
B = 126.062   (background)
a = 0.775 px
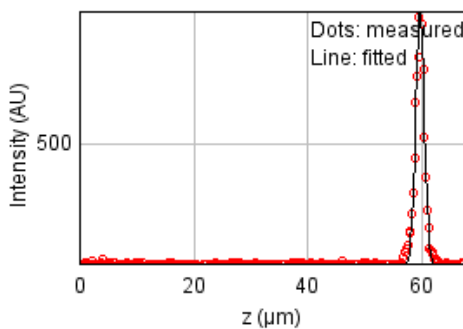b = -0.008 px
c = 0.472 px

xc = 6.934 px
yc = 7.033 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 49840.0642
Standard deviation: 12.74149
R^2: 0.98726
Parameters:
a = 114.18710
b = 932.69224
c = 59.70140
d = 0.74432

Bead 3485 (Rejected)

Date : Mon Oct 17 13:54:29 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 103 um (x), 85.2 um (y), 57.5 um (z)
Corresponding bead : Not found
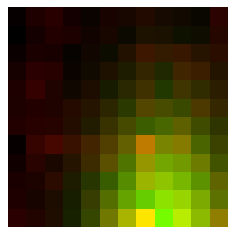Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	1.31 um	1.36 um	270 nm
max	2.73 um	2.84 um	270 nm
z	3.02 um	3.03 um	1.3 um
Asymmetry	0.479		
Theta	89.7°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
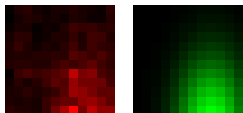
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.806$

Parameters:
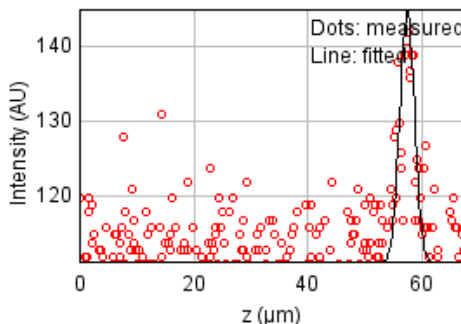 A = 84.354   (brightness)
 B = 117.722   (background)
 a = 0.079 px
 b = 0.000 px
 c = 0.018 px

xc = 8.046 px
yc = 13.392 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 12797.7923
Standard deviation: 6.45652
R^2: 0.46107
Parameters:
 a = 111.23508
 b = 144.93025
 c = 57.46951
 d = 1.28308

Bead 3486 (Rejected)

Date : Mon Oct 17 13:54:30 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 40.1 um (x), 83.3 um (y), 57.3 um (z)
Corresponding bead : Not found
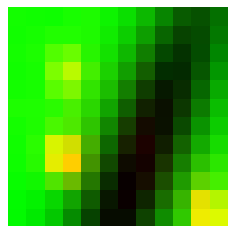Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	968 nm	1.01 um	270 nm
max	5.5 um	5.73 um	270 nm
z	4.4 um	4.42 um	1.3 um
Asymmetry	0.176		
Theta	68.3°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
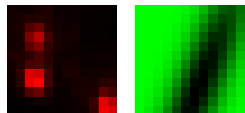
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.163$

Parameters:
 A = -164.983   (brightness)
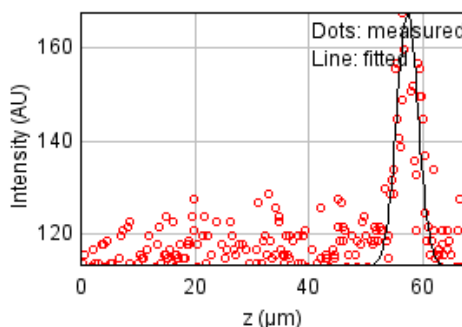 B = 300.357   (background)
 a = 0.123 px
 b = 0.051 px
 c = 0.016 px

xc = 6.389 px
yc = 8.658 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17343.5368
Standard deviation: 7.51622
R^2: 0.69766
Parameters:
 a = 113.42311
 b = 167.70340
 c = 57.34168
 d = 1.86866

Bead 3487

Date : Mon Oct 17 13:54:30 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
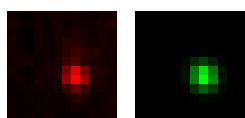Frame size : 12 pixels

Coordinates : -146 um (x), 63.1 um (y), 59.1 um (z)
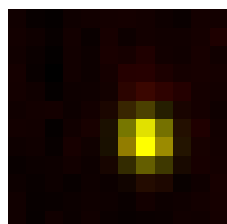Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	447 nm	465 nm	270 nm
max	496 nm	516 nm	270 nm
z	2.15 um	2.16 um	1.3 um
Asymmetry	0.901		
Theta	-70.6°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.952$

Parameters:
A = 388.294   (brightness)
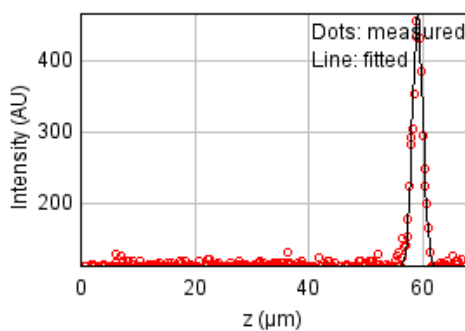B = 116.694   (background)
a = 0.659 px
b = -0.040 px
c = 0.560 px

xc = 7.018 px
yc = 6.615 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 20485.7399
Standard deviation: 8.16877
R^2: 0.97761
Parameters:
 a = 110.54620
 b = 467.80909
 c = 59.13576
 d = 0.91358

Bead 3488

Date : Mon Oct 17 13:54:30 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
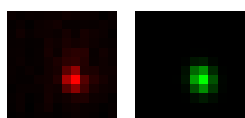Frame size : 12 pixels

Coordinates : -125 um (x), 50.7 um (y), 59.3 um (z)
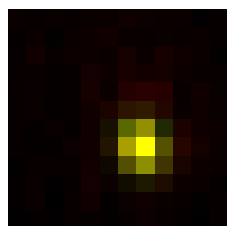Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	404 nm	420 nm	270 nm
max	490 nm	511 nm	270 nm
z	1.89 um	1.89 um	1.3 um
Asymmetry	0.823		
Theta	-74.7°		

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 = 0.945

Parameters:
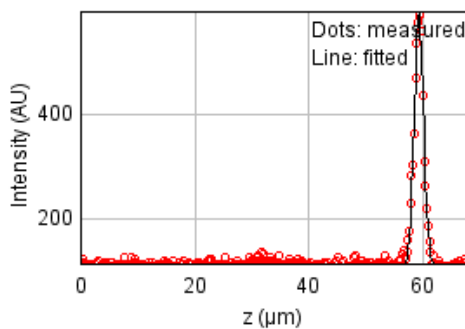A = 474.380   (brightness)
B = 121.739   (background)
a = 0.806 px
b = -0.068 px
c = 0.577 px

xc = 6.793 px
yc = 6.971 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 27073.4088
Standard deviation: 9.39079
R^2: 0.98161
Parameters:
a = 113.49658
b = 596.81785
c = 59.34671
d = 0.80138

Bead 3489

Date : Mon Oct 17 13:54:30 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
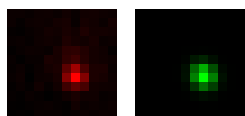Frame size : 12 pixels

Coordinates : -140 um (x), 44.6 um (y), 59.4 um (z)
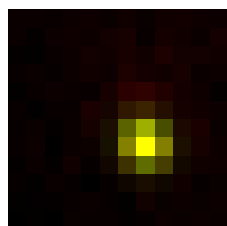Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	431 nm	449 nm	270 nm
max	480 nm	500 nm	270 nm
z	1.95 um	1.96 um	1.3 um
Asymmetry	0.898		
Theta	-61.5°		

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
    $R^2 = 0.938$

Parameters:
 A = 368.973   (brightness)
 B = 119.191   (background)
 a = 0.690 px
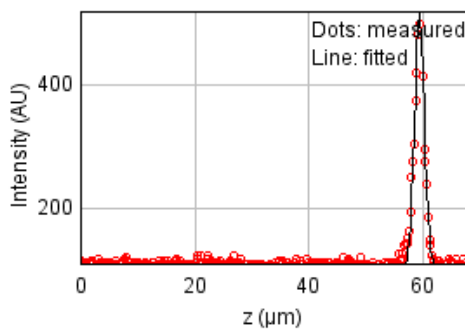 b = -0.058 px
 c = 0.614 px

 xc = 6.982 px
 yc = 6.803 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 29218.3015
Standard deviation: 9.75570
R^2: 0.97281
Parameters:
 a = 111.99131
 b = 516.61253
 c = 59.44660
 d = 0.82853

Bead 3490

Date : Mon Oct 17 13:54:30 PDT 2022
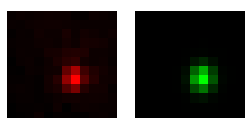Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -132 um (x), 36.2 um (y), 59.6 um (z)
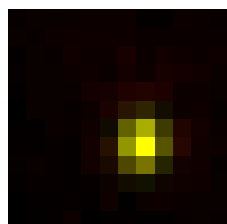Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	404 nm	421 nm	270 nm
max	477 nm	497 nm	270 nm
z	1.97 um	1.98 um	1.3 um
Asymmetry	0.846		
Theta	85.5°		

XY profile & fitting parameters :

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

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

Parameters:
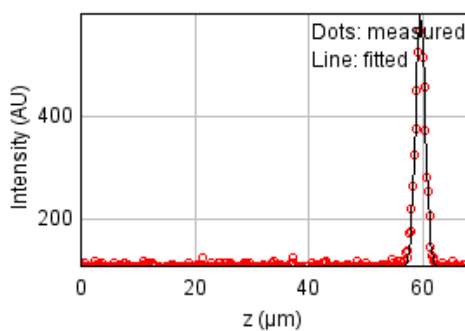 A = 519.469 (brightness)
 B = 123.416 (background)
 a = 0.820 px
 b = 0.018 px
 c = 0.590 px

xc = 6.825 px
yc = 6.838 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 19232.7213
Standard deviation: 7.91500
R^2: 0.98749
Parameters:
 a = 111.12422
 b = 596.25805
 c = 59.60057
 d = 0.83758

Bead 3491

Date : Mon Oct 17 13:54:30 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
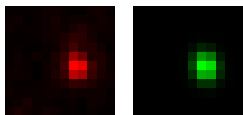Frame size : 12 pixels

Coordinates : -126 um (x), 34.8 um (y), 59.3 um (z)
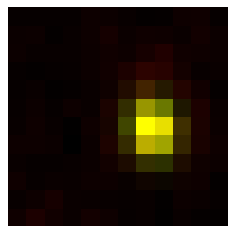Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	431 nm	449 nm	270 nm
max	543 nm	566 nm	270 nm
z	2.17 um	2.18 um	1.3 um
Asymmetry	0.794		
Theta	-80.5°		

XY profile & fitting parameters :

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

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

Parameters:
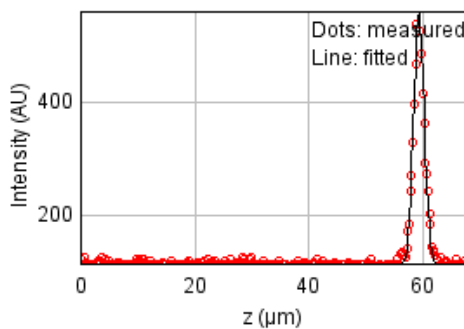 A = 521.673 (brightness)
 B = 127.873 (background)
 a = 0.714 px
 b = -0.043 px
 c = 0.462 px

xc = 7.411 px
yc = 6.114 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 19933.2270
Standard deviation: 8.05786
R^2: 0.98626
Parameters:
 a = 111.90606
 b = 561.74219
 c = 59.34679
 d = 0.92246

Bead 3492

Date : Mon Oct 17 13:54:31 PDT 2022
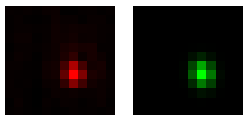Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -153 um (x), 32.5 um (y), 59.7 um (z)
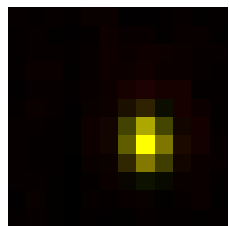Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	385 nm	401 nm	270 nm
max	481 nm	501 nm	270 nm
z	2.1 um	2.11 um	1.3 um
Asymmetry	0.8		
Theta	-81.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.973$

Parameters:
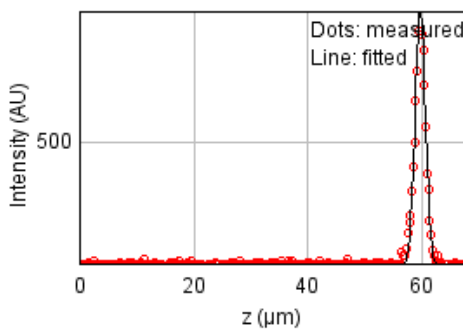A = 851.562   (brightness)
B = 127.506   (background)
a = 0.896 px
b = -0.050 px
c = 0.587 px

xc = 7.063 px
yc = 6.864 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 32980.7545
Standard deviation: 10.36480
R^2: 0.99262
Parameters:
a = 111.85318
b = 915.69688
c = 59.74730
d = 0.89370

Bead 3493

Date : Mon Oct 17 13:54:31 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
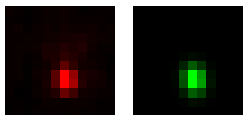Frame size : 12 pixels

Coordinates : -154 um (x), 29.5 um (y), 59.9 um (z)
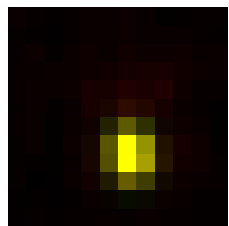Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	404 nm	421 nm	270 nm
max	512 nm	534 nm	270 nm
z	2.01 um	2.02 um	1.3 um
Asymmetry	0.789		
Theta	-82.5°		

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 = 855.340   (brightness)
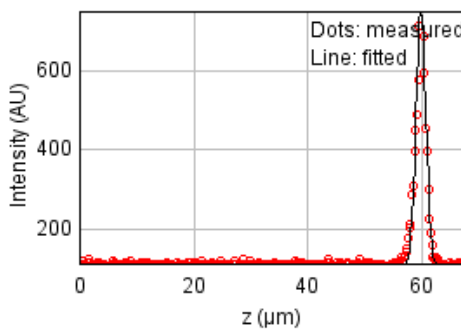B = 127.830   (background)
a = 0.817 px
b = -0.040 px
c = 0.517 px

xc = 6.191 px
yc = 7.521 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 53157.1236
Standard deviation: 13.15866
R^2: 0.98047
Parameters:
 a = 111.36329
 b = 748.21479
 c = 59.86879
 d = 0.85515

Bead 3494 (Rejected)

Date : Mon Oct 17 13:54:31 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

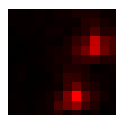Coordinates : -106 um (x), 28.5 um (y), 60.0 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

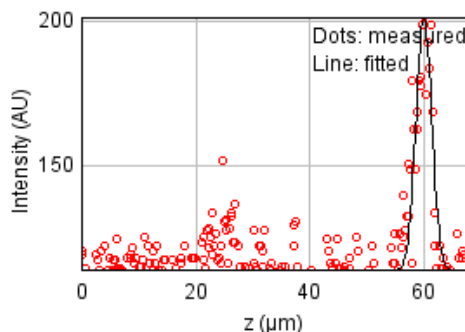| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	3.27 um	3.28 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal 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: 26739.2543
Standard deviation: 9.33266
R^2: 0.74545
Parameters:
 a = 114.20962
 b = 201.09330
 c = 60.03935
 d = 1.38842

Bead 3495

Date : Mon Oct 17 13:54:31 PDT 2022
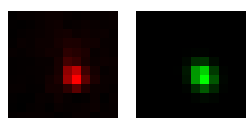Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -72.4 um (x), 28.6 um (y), 59.4 um (z)
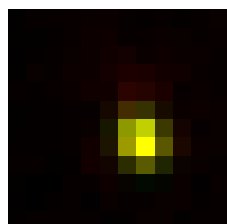Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	399 nm	415 nm	270 nm
max	481 nm	501 nm	270 nm
z	1.82 um	1.83 um	1.3 um
Asymmetry	0.829		
Theta	-65.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.960$

Parameters:
 A = 680.699   (brightness)
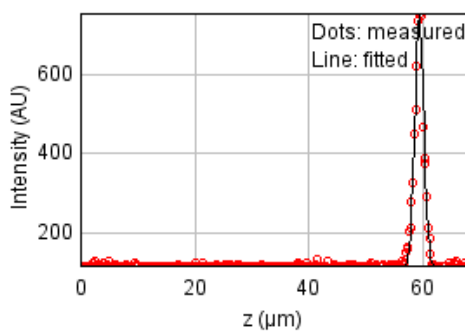 B = 122.871   (background)
 a = 0.798 px
 b = -0.100 px
 c = 0.625 px

xc = 6.770 px
yc = 6.626 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 43605.7535
Standard deviation: 11.91798
R^2: 0.98259
Parameters:
 a = 114.68989
 b = 756.04056
 c = 59.41377
 d = 0.77408

Bead 3496

Date : Mon Oct 17 13:54:31 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
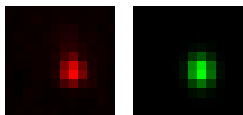Frame size : 12 pixels

Coordinates : -87.1 um (x), 27.0 um (y), 59.4 um (z)
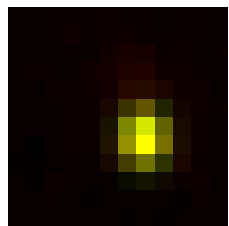Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	437 nm	455 nm	270 nm
max	543 nm	566 nm	270 nm
z	1.95 um	1.96 um	1.3 um
Asymmetry	0.804		
Theta	-87.3°		

XY profile & fitting parameters :

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

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

Parameters:
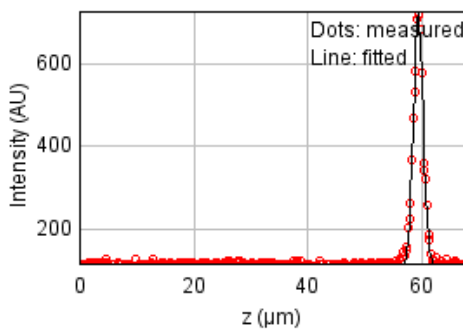 A = 667.625   (brightness)
 B = 122.983   (background)
 a = 0.703 px
 b = -0.012 px
 c = 0.456 px

xc = 6.899 px
yc = 6.600 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 38715.6406
Standard deviation: 11.22985
R^2: 0.98402
Parameters:
 a = 114.65928
 b = 726.10318
 c = 59.41265
 d = 0.82722

Bead 3497 (Rejected)

Date : Mon Oct 17 13:54:31 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
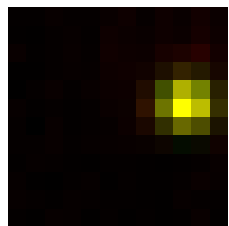Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	459 nm	478 nm	270 nm
max	497 nm	518 nm	270 nm
z	4.5 um	4.52 um	1.3 um
Asymmetry	0.923		
Theta	-1.3°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
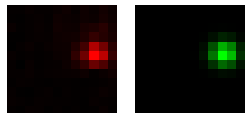
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.968$

Parameters:
A = 738.861   (brightness)
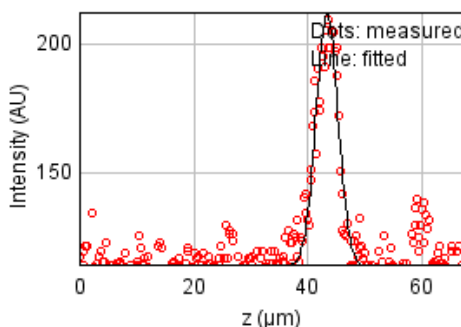B = 122.636   (background)
a = 0.543 px
b = -0.002 px
c = 0.637 px
xc = 9.223 px
yc = 4.795 px

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
d = 1.91169

Bead 3498

Date : Mon Oct 17 13:54:31 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
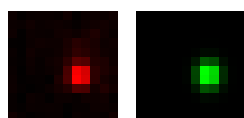Frame size : 12 pixels

Coordinates : -63.7 um (x), 26.2 um (y), 59.2 um (z)
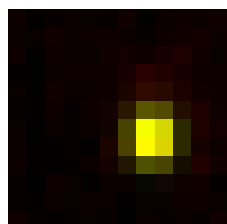Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	424 nm	442 nm	270 nm
max	493 nm	513 nm	270 nm
z	1.94 um	1.95 um	1.3 um
Asymmetry	0.861		
Theta	89.5°		

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

$R^2 = 0.965$

Parameters:
A = 571.455   (brightness)
B = 124.158   (background)
a = 0.746 px
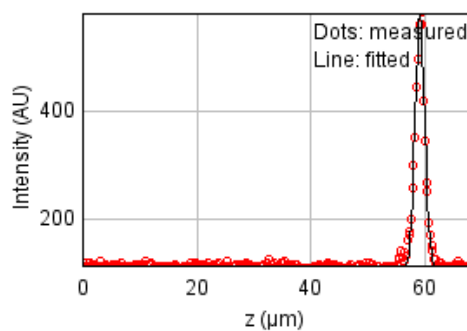b = 0.002 px
c = 0.552 px

xc = 7.388 px
yc = 6.478 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 23918.6297
Standard deviation: 8.82671
R^2: 0.98294
Parameters:
 a = 114.19809
 b = 579.74457
 c = 59.16999
 d = 0.82498

Bead 3499

Date : Mon Oct 17 13:54:32 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
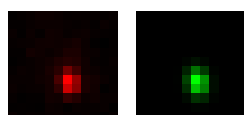Frame size : 12 pixels

Coordinates : -74.5 um (x), 24.7 um (y), 59.4 um (z)
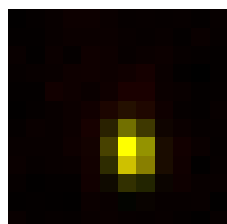Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	374 nm	389 nm	270 nm
max	498 nm	519 nm	270 nm
z	1.73 um	1.74 um	1.3 um
Asymmetry	0.75		
Theta	-80.5°		

XY profile & fitting parameters :

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

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

Parameters:
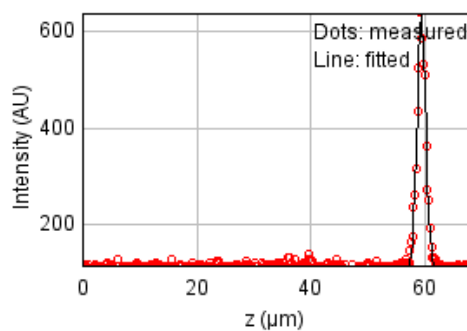 A = 611.582   (brightness)
 B = 121.583   (background)
 a = 0.950 px
 b = -0.069 px
 c = 0.553 px

xc = 6.227 px
yc = 7.277 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 27141.0623
Standard deviation: 9.40252
R^2: 0.98295
Parameters:
 a = 114.47918
 b = 638.25905
 c = 59.43388
 d = 0.73635

Bead 3500 (Rejected)

Date : Mon Oct 17 13:54:32 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -139 um (x), 17.7 um (y), 59.3 um (z)
Corresponding bead : Not found
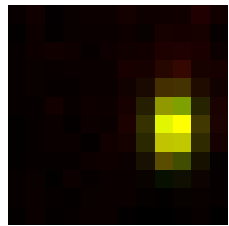Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	431 nm	270 nm
max	616 nm	642 nm	270 nm
z	4.33 um	4.35 um	1.3 um
Asymmetry	0.672		
Theta	88.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
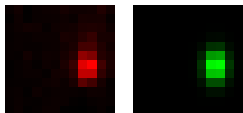
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.960$

Parameters:
A = 480.136   (brightness)
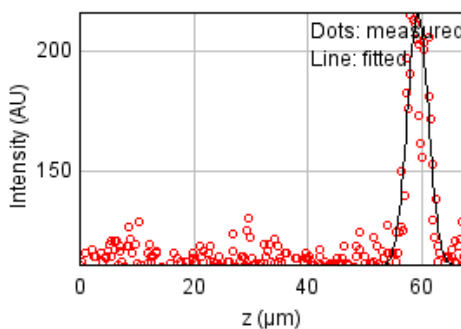B = 121.031   (background)
a = 0.783 px
b = 0.008 px
c = 0.354 px

xc = 8.522 px
yc = 6.164 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 28777.6890
Standard deviation: 9.68186
R^2: 0.83650
Parameters:
a = 110.86797
b = 215.70294
c = 59.32442
d = 1.83988