Bead 3601

Date : Mon Oct 17 13:54:32 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels
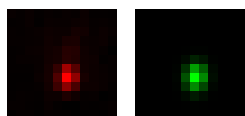
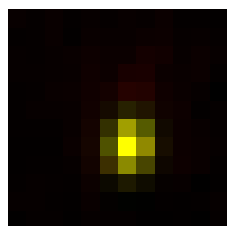Coordinates : -16.9 um (x), -61.0 um (y), 60.2 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	497 nm	517 nm	270 nm
z	2.08 um	2.09 um	1.3 um
Asymmetry	0.784		
Theta	84.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.967$

Parameters:
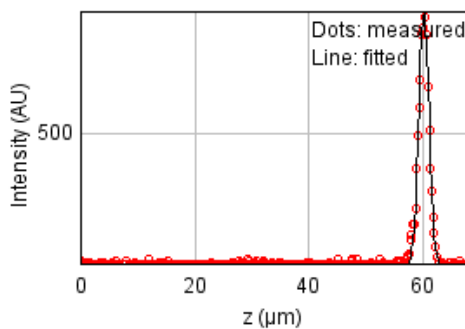A = 789.446   (brightness)
B = 127.311   (background)
a = 0.883 px
b = 0.031 px
c = 0.547 px

xc = 6.148 px
yc = 6.926 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 33044.8514
Standard deviation: 10.37487
R^2: 0.99142
Parameters:
a = 114.22336
b = 864.68172
c = 60.22061
d = 0.88242

Bead 3602

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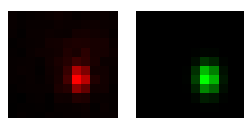Frame size : 12 pixels

Coordinates : -12.7 um (x), -67.0 um (y), 60.1 um (z)
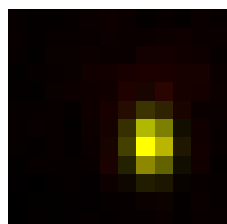Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	394 nm	410 nm	270 nm
max	530 nm	552 nm	270 nm
z	2.03 um	2.03 um	1.3 um
Asymmetry	0.743		
Theta	-88.1°		

XY profile & fitting parameters :

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

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

Parameters:
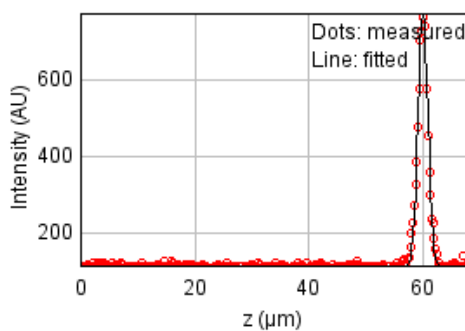 A = 685.551   (brightness)
 B = 126.885   (background)
 a = 0.866 px
 b = -0.013 px
 c = 0.478 px

  xc = 7.298 px
  yc = 6.849 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 34038.8133
Standard deviation: 10.52975
R^2: 0.98821
Parameters:
 a = 114.73456
 b = 771.18264
 c = 60.05368
 d = 0.86060

Bead 3603

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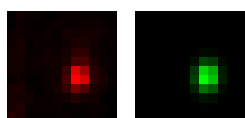Frame size : 12 pixels

Coordinates : 5.14 um (x), -69.1 um (y), 60.3 um (z)
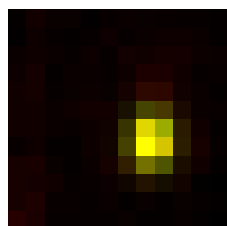Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	405 nm	421 nm	270 nm
max	523 nm	545 nm	270 nm
z	2.05 um	2.06 um	1.3 um
Asymmetry	0.774		
Theta	86.7°		

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
   $R^2 = 0.959$

Parameters:
 A = 618.037   (brightness)
 B = 132.826   (background)
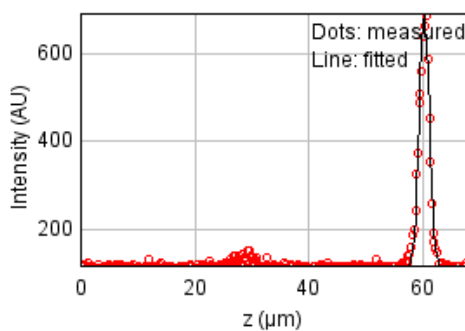 a = 0.818 px
 b = 0.019 px
 c = 0.492 px

xc = 7.345 px
yc = 6.661 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 46794.9149
Standard deviation: 12.34611
R^2: 0.97915
Parameters:
 a = 116.42728
 b = 689.09206
 c = 60.28682
 d = 0.87135

Bead 3604

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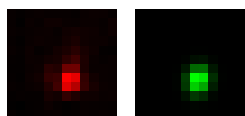Frame size : 12 pixels

Coordinates : 63.7 um (x), -72.1 um (y), 60.4 um (z)
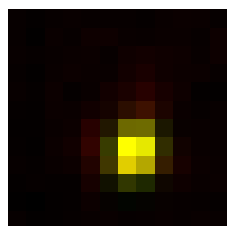Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	431 nm	270 nm
max	500 nm	521 nm	270 nm
z	2.01 um	2.02 um	1.3 um
Asymmetry	0.827		
Theta	76.5°		

XY profile & fitting parameters :

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

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

Parameters:
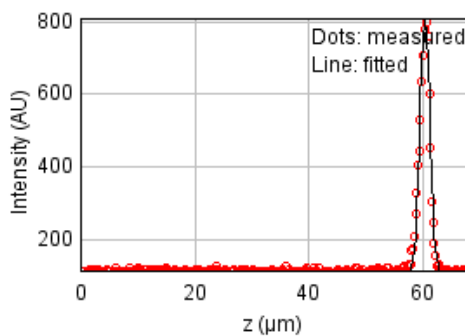 A = 873.774   (brightness)
 B = 129.313   (background)
 a = 0.771 px
 b = 0.056 px
 c = 0.550 px

xc = 6.418 px
yc = 7.261 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 48410.0863
Standard deviation: 12.55737
R^2: 0.98514
Parameters:
 a = 113.88276
 b = 813.13998
 c = 60.39933
 d = 0.85264

Bead 3605 (Rejected)

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

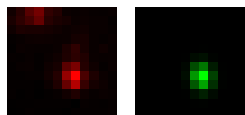Coordinates : 3.47 um (x), -73.8 um (y), 60.6 um (z)
Corresponding bead : Not found
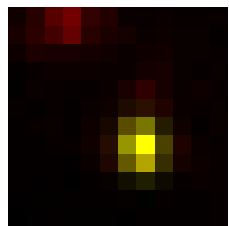Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	375 nm	390 nm	270 nm
max	472 nm	492 nm	270 nm
z	1.87 um	1.88 um	1.3 um
Asymmetry	0.794		
Theta	-82.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 795.134   (brightness)
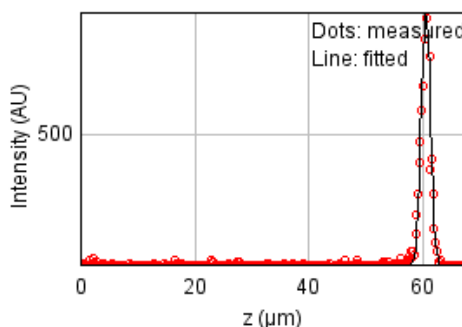 B = 145.737   (background)
 a = 0.949 px
 b = -0.047 px
 c = 0.609 px

xc = 6.784 px
yc = 7.120 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 76093.8466
Standard deviation: 15.74366
R^2: 0.97853
Parameters:
 a = 114.05293
 b = 865.44107
 c = 60.55643
 d = 0.79542

Bead 3606

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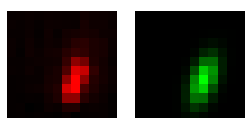Frame size : 12 pixels

Coordinates : -10.6 um (x), -81.1 um (y), 60.5 um (z)
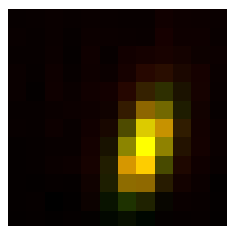Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	430 nm	448 nm	270 nm
max	898 nm	935 nm	270 nm
z	2.43 um	2.44 um	1.3 um
Asymmetry	0.479		
Theta	70.9°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.957$

Parameters:
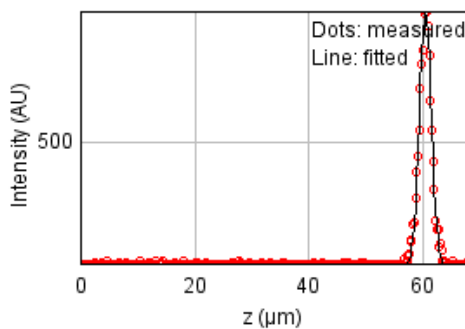 A = 929.271   (brightness)
 B = 135.153   (background)
 a = 0.665 px
 b = 0.173 px
 c = 0.226 px

xc = 6.987 px
yc = 7.023 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 30882.0393
Standard deviation: 10.02960
R^2: 0.99387
Parameters:
 a = 113.84592
 b = 912.50122
 c = 60.48350
 d = 1.03052

Bead 3607

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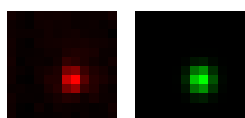Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -154 um (x), 12.9 um (y), 60.2 um (z)
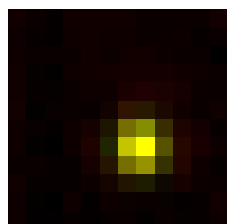Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	438 nm	456 nm	270 nm
max	485 nm	506 nm	270 nm
z	2.0 um	2.01 um	1.3 um
Asymmetry	0.902		
Theta	-86.2°		

XY profile & fitting parameters :

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

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

Parameters:
A = 444.366   (brightness)
B = 120.803   (background)
a = 0.699 px
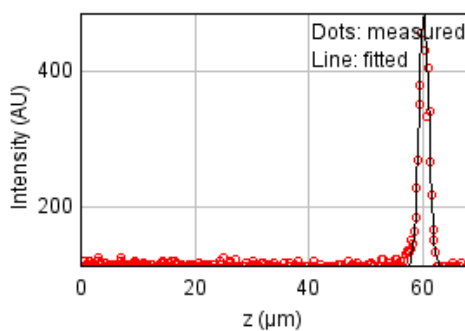b = -0.009 px
c = 0.570 px

xc = 6.691 px
yc = 7.012 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 29596.6602
Standard deviation: 9.81866
R^2: 0.96904
Parameters:
a = 110.99744
b = 487.52805
c = 60.22094
d = 0.84865

Bead 3608

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

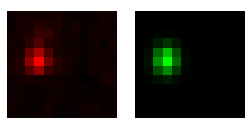Coordinates : -157 um (x), 12.5 um (y), 42.4 um (z)
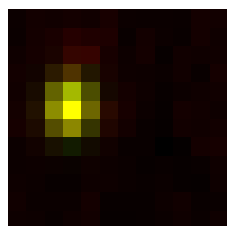Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	421 nm	439 nm	270 nm
max	529 nm	551 nm	270 nm
z	1.99 um	2.0 um	1.3 um
Asymmetry	0.796		
Theta	86.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.942$

Parameters:
A = 394.318   (brightness)
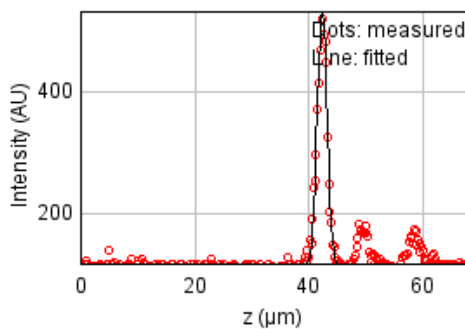B = 114.806   (background)
a = 0.754 px
b = 0.019 px
c = 0.480 px

xc = 2.897 px
yc = 4.839 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 78818.5358
Standard deviation: 16.02304
R^2: 0.93414
Parameters:
a = 117.36907
b = 531.53799
c = 42.39784
d = 0.84645

Bead 3609

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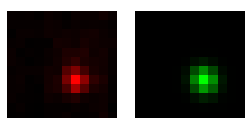Frame size : 12 pixels

Coordinates : -139 um (x), 1.42 um (y), 60.2 um (z)
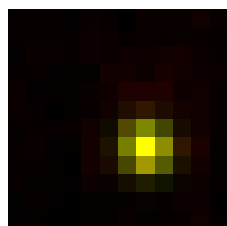Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	451 nm	469 nm	270 nm
max	491 nm	511 nm	270 nm
z	1.97 um	1.97 um	1.3 um
Asymmetry	0.918		
Theta	-67.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.957$

Parameters:
A = 463.340   (brightness)
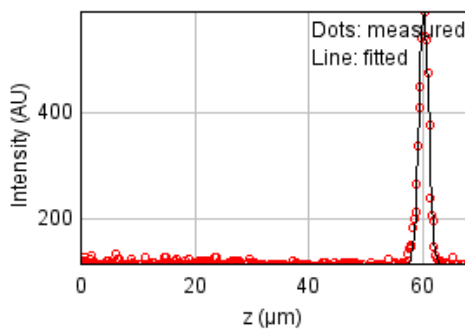B = 118.228   (background)
a = 0.646 px
b = -0.037 px
c = 0.572 px

xc = 7.043 px
yc = 7.056 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 23828.6037
Standard deviation: 8.81009
R^2: 0.98437
Parameters:
 a = 112.54416
 b = 595.58257
 c = 60.21222
 d = 0.83480

Bead 3610

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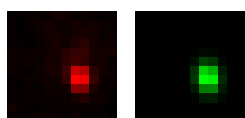Frame size : 12 pixels

Coordinates : -150 um (x), 820 nm (y), 60.0 um (z)
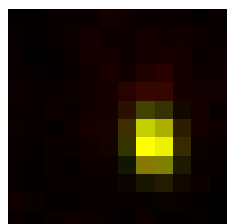Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	399 nm	416 nm	270 nm
max	538 nm	560 nm	270 nm
z	2.36 um	2.37 um	1.3 um
Asymmetry	0.742		
Theta	-81.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.955$

Parameters:
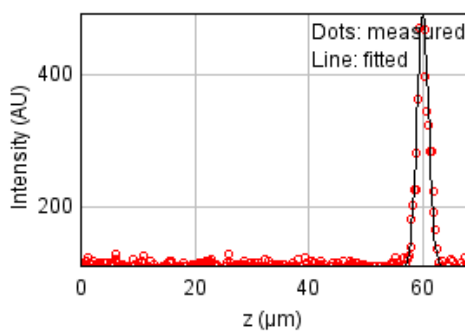 A = 503.153   (brightness)
 B = 123.051   (background)
 a = 0.834 px
 b = -0.053 px
 c = 0.471 px

xc = 7.448 px
yc = 6.773 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 41977.0263
Standard deviation: 11.69329
R^2: 0.96393
Parameters:
 a = 110.62056
 b = 493.84196
 c = 60.01843
 d = 1.00035

Bead 3611

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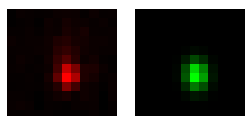Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -129 um (x), -3.56 um (y), 60.0 um (z)
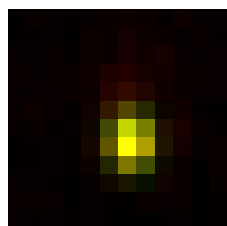Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	413 nm	430 nm	270 nm
max	535 nm	557 nm	270 nm
z	2.27 um	2.28 um	1.3 um
Asymmetry	0.772		
Theta	-86.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.954$

Parameters:
A = 562.532   (brightness)
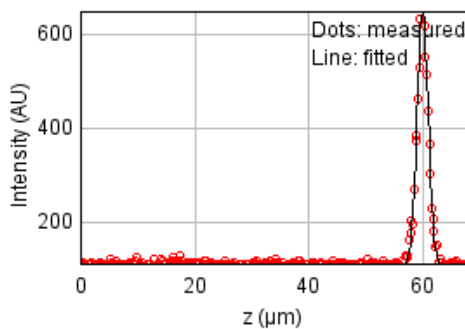B = 121.806   (background)
a = 0.785 px
b = -0.019 px
c = 0.470 px

xc = 6.190 px
yc = 6.698 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21744.1832
Standard deviation: 8.41593
R^2: 0.98995
Parameters:
 a = 111.81063
 b = 650.37667
 c = 59.99268
 d = 0.96529

Bead 3612

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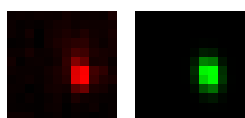Frame size : 12 pixels

Coordinates : -119 um (x), -9.66 um (y), 60.0 um (z)
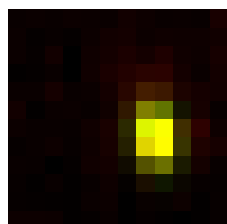Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	407 nm	270 nm
max	586 nm	610 nm	270 nm
z	2.66 um	2.67 um	1.3 um
Asymmetry	0.666		
Theta	-82.1°		

XY profile & fitting parameters :

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

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

Parameters:
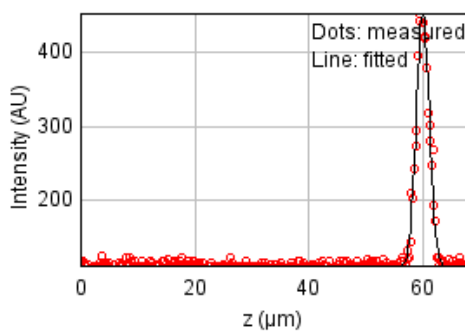 A = 464.750   (brightness)
 B = 120.813   (background)
 a = 0.871 px
 b = -0.067 px
 c = 0.400 px

xc = 7.556 px
yc = 6.410 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 24367.1697
Standard deviation: 8.90909
R^2: 0.97597
Parameters:
 a = 111.95790
 b = 452.06795
 c = 60.01847
 d = 1.12873

Bead 3613

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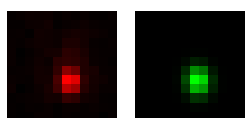Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -152 um (x), -12.0 um (y), 60.5 um (z)
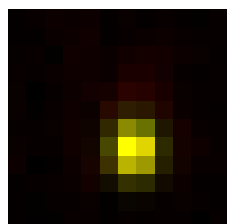Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	430 nm	448 nm	270 nm
max	528 nm	550 nm	270 nm
z	2.19 um	2.2 um	1.3 um
Asymmetry	0.816		
Theta	-86.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.966$

Parameters:
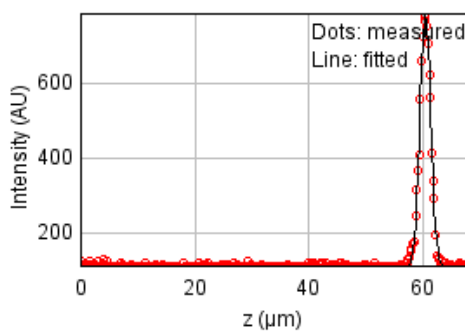A = 732.043   (brightness)
B = 125.088   (background)
a = 0.723 px
b = -0.013 px
c = 0.482 px

xc = 6.378 px
yc = 7.141 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21335.6665
Standard deviation: 8.33650
R^2: 0.99343
Parameters:
a = 111.97901
b = 783.81549
c = 60.46962
d = 0.93203

Bead 3614

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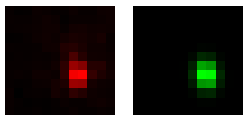Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -147 um (x), -12.6 um (y), 60.4 um (z)
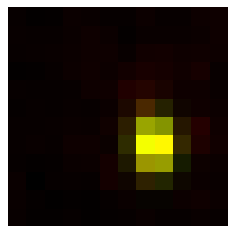Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	387 nm	403 nm	270 nm
max	527 nm	549 nm	270 nm
z	2.36 um	2.37 um	1.3 um
Asymmetry	0.734		
Theta	-84.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.966$

Parameters:
 A = 665.236   (brightness)
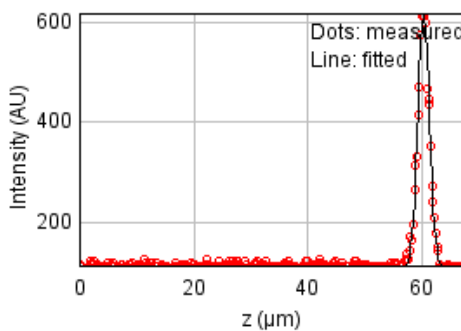 B = 125.803   (background)
 a = 0.894 px
 b = -0.038 px
 c = 0.487 px

xc = 7.484 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: 24993.7649
Standard deviation: 9.02291
R^2: 0.98746
Parameters:
 a = 111.49993
 b = 619.13258
 c = 60.35194
 d = 1.00055

Bead 3615

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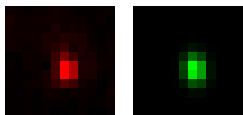Frame size : 12 pixels

Coordinates : -112 um (x), -15.8 um (y), 60.2 um (z)
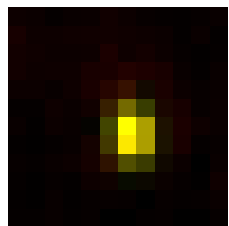Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	387 nm	403 nm	270 nm
max	526 nm	548 nm	270 nm
z	2.06 um	2.07 um	1.3 um
Asymmetry	0.735		
Theta	-84.0°		

XY profile & fitting parameters :

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

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

Parameters:
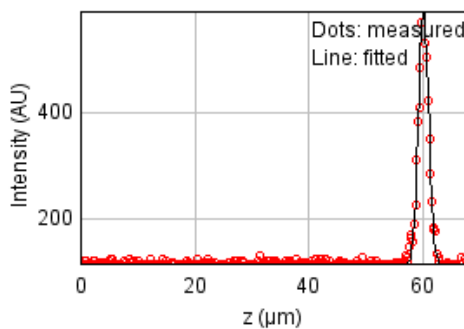 A = 611.813   (brightness)
 B = 123.268   (background)
 a = 0.892 px
 b = -0.043 px
 c = 0.489 px

xc = 6.256 px
yc = 6.424 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 21628.0226
Standard deviation: 8.39343
R^2: 0.98647
Parameters:
 a = 112.30243
 b = 596.84291
 c = 60.15508
 d = 0.87359

Bead 3616

Date : Mon Oct 17 13:54:33 PDT 2022
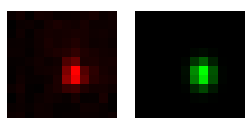Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -99.0 um (x), -15.6 um (y), 60.2 um (z)
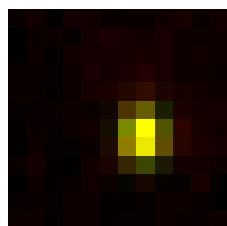Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	394 nm	411 nm	270 nm
max	494 nm	514 nm	270 nm
z	2.01 um	2.02 um	1.3 um
Asymmetry	0.799		
Theta	-88.8°		

XY profile & fitting parameters :

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

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

 Parameters:
  A = 398.871   (brightness)
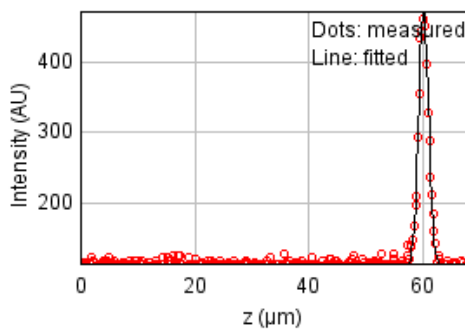 B = 119.543   (background)
  a = 0.863 px
  b = -0.006 px
  c = 0.551 px

xc = 6.857 px
yc = 6.413 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 16720.1886
Standard deviation: 7.37992
R^2: 0.98069
Parameters:
 a = 113.68522
 b = 473.33208
 c = 60.17276
 d = 0.85314

Bead 3617 (Rejected)

Date : Mon Oct 17 13:54:33 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -105 um (x), -17.8 um (y), 60.9 um (z)
Corresponding bead : Not found
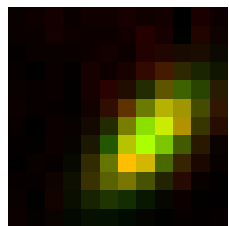Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	578 nm	602 nm	270 nm
max	1.21 um	1.26 um	270 nm
z	2.78 um	2.79 um	1.3 um
Asymmetry	0.478		
Theta	48.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
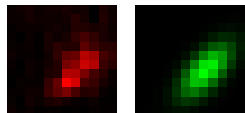
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.869$

Parameters:
A = 304.052   (brightness)
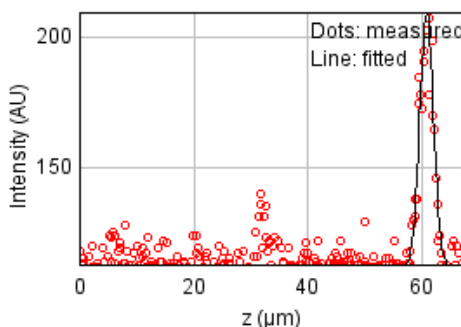B = 120.948   (background)
a = 0.263 px
b = 0.154 px
c = 0.230 px
xc = 7.229 px
yc = 6.629 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15513.1126
Standard deviation: 7.10854
R^2: 0.84504
Parameters:
a = 112.17185
b = 209.51046
c = 60.87833
d = 1.18125

Bead 3618

Date : Mon Oct 17 13:54:33 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
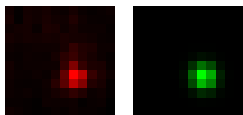Frame size : 12 pixels

Coordinates : -124 um (x), -18.6 um (y), 60.0 um (z)
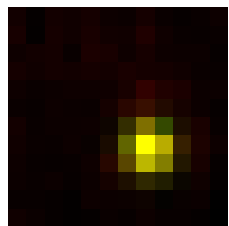Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	450 nm	469 nm	270 nm
max	480 nm	500 nm	270 nm
z	1.93 um	1.94 um	1.3 um
Asymmetry	0.938		
Theta	-80.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 439.995   (brightness)
 B = 124.105   (background)
 a = 0.660 px
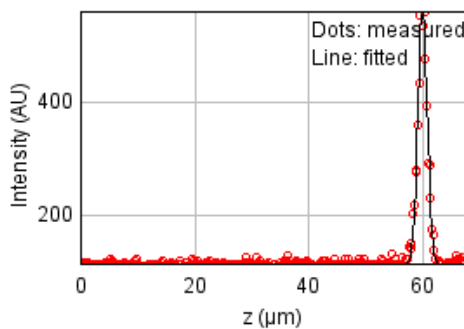 b = -0.013 px
 c = 0.585 px

xc = 7.206 px
yc = 7.217 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25234.1961
Standard deviation: 9.06621
R^2: 0.98090
Parameters:
 a = 112.07678
 b = 564.90765
 c = 59.98042
 d = 0.81973

Bead 3619

Date : Mon Oct 17 13:54:33 PDT 2022
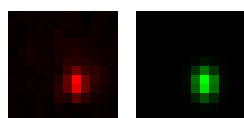Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -121 um (x), -22.2 um (y), 60.4 um (z)
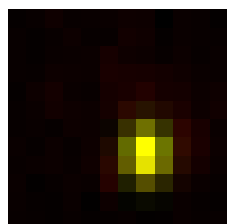Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	402 nm	419 nm	270 nm
max	532 nm	554 nm	270 nm
z	1.89 um	1.9 um	1.3 um
Asymmetry	0.755		
Theta	-88.7°		

XY profile & fitting parameters :

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

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

 Parameters:
  A = 559.660   (brightness)
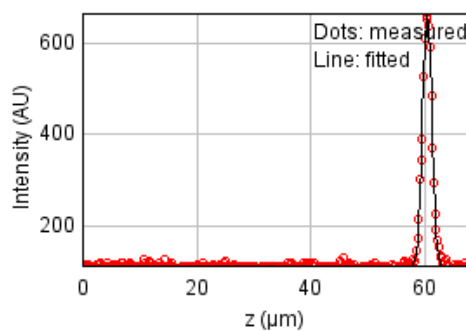 B = 125.226   (background)
  a = 0.831 px
  b = -0.008 px
  c = 0.474 px

xc = 7.030 px
yc = 7.370 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 16589.6950
Standard deviation: 7.35106
R^2: 0.99130
Parameters:
 a = 112.25882
 b = 665.09019
 c = 60.44849
 d = 0.80162

Bead 3620

Date : Mon Oct 17 13:54:33 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
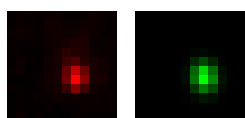Frame size : 12 pixels

Coordinates : -107 um (x), -22.5 um (y), 60.2 um (z)
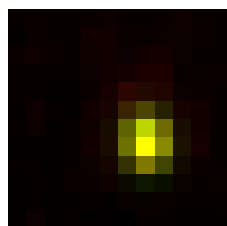Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	430 nm	448 nm	270 nm
max	539 nm	561 nm	270 nm
z	2.06 um	2.06 um	1.3 um
Asymmetry	0.799		
Theta	-82.1°		

XY profile & fitting parameters :

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

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

Parameters:
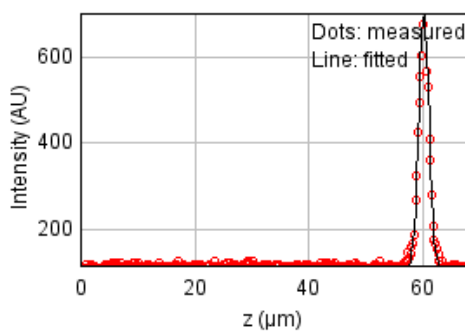 A = 612.714   (brightness)
 B = 123.212   (background)
 a = 0.720 px
 b = -0.036 px
 c = 0.468 px

xc = 7.052 px
yc = 6.700 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25435.0353
Standard deviation: 9.10221
R^2: 0.98918
Parameters:
 a = 113.45656
 b = 701.96563
 c = 60.21605
 d = 0.87324

Bead 3621

Date : Mon Oct 17 13:54:33 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
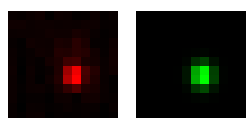Frame size : 12 pixels

Coordinates : -84.1 um (x), -23.1 um (y), 60.2 um (z)
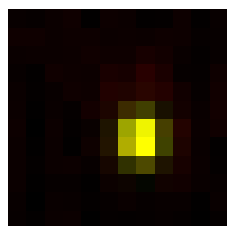Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	392 nm	409 nm	270 nm
max	454 nm	473 nm	270 nm
z	1.99 um	2.0 um	1.3 um
Asymmetry	0.864		
Theta	-89.5°		

XY profile & fitting parameters :

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

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

Parameters:
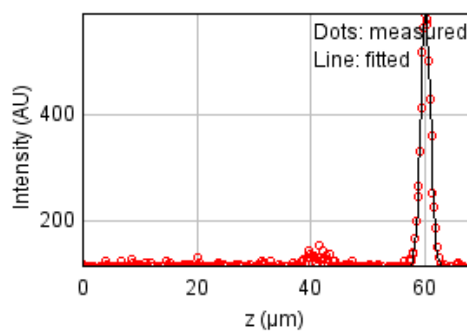 A = 546.019   (brightness)
  B = 124.112   (background)
  a = 0.872 px
  b = -0.002 px
  c = 0.651 px

xc = 6.725 px
yc = 6.535 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 25058.3267
Standard deviation: 9.03456
R^2: 0.98333
Parameters:
 a = 114.84262
 b = 591.53649
 c = 60.17227
 d = 0.84481

Bead 3622

Date : Mon Oct 17 13:54:33 PDT 2022
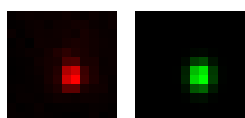Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -58.4 um (x), -37.9 um (y), 60.2 um (z)
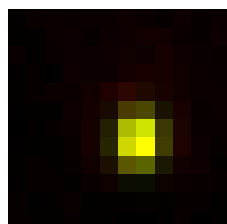Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	409 nm	426 nm	270 nm
max	507 nm	528 nm	270 nm
z	1.92 um	1.93 um	1.3 um
Asymmetry	0.807		
Theta	88.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 650.545 (brightness)
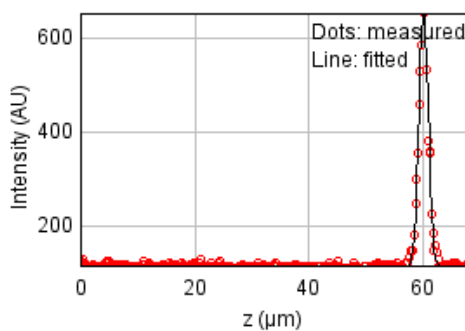 B = 124.164 (background)
 a = 0.800 px
 b = 0.008 px
 c = 0.522 px

xc = 6.611 px
yc = 6.617 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 28413.1221
Standard deviation: 9.62034
R^2: 0.98499
Parameters:
 a = 112.90833
 b = 656.89048
 c = 60.17442
 d = 0.81707

Bead 3623

Date : Mon Oct 17 13:54:34 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
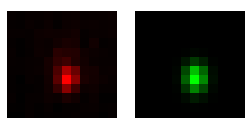Frame size : 12 pixels

Coordinates : -63.6 um (x), -37.9 um (y), 60.3 um (z)
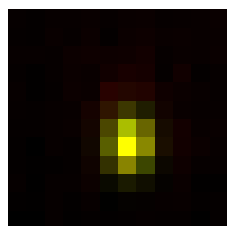Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	407 nm	424 nm	270 nm
max	531 nm	553 nm	270 nm
z	2.08 um	2.09 um	1.3 um
Asymmetry	0.767		
Theta	-89.9°		

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

$R^2 = 0.962$

Parameters:
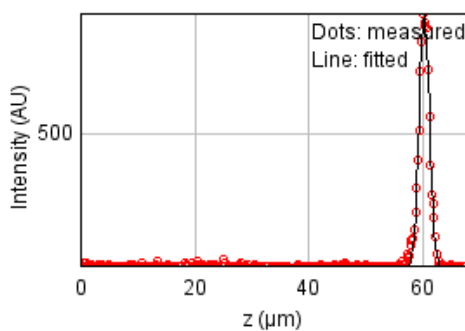A = 689.581   (brightness)
B = 124.865   (background)
a = 0.809 px
b = -0.000 px
c = 0.477 px

xc = 6.110 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: 32218.8207
Standard deviation: 10.24438
R^2: 0.99127
Parameters:
a = 113.11014
b = 846.85655
c = 60.28868
d = 0.88468

Bead 3624

Date : Mon Oct 17 13:54:34 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
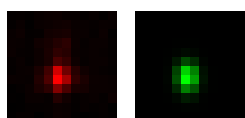Frame size : 12 pixels

Coordinates : -21.7 um (x), -50.9 um (y), 14.0 um (z)
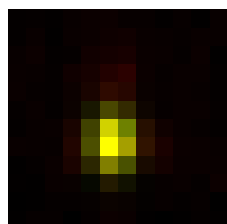Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	420 nm	270 nm
max	548 nm	570 nm	270 nm
z	2.08 um	2.09 um	1.3 um
Asymmetry	0.736		
Theta	-88.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 545.032   (brightness)
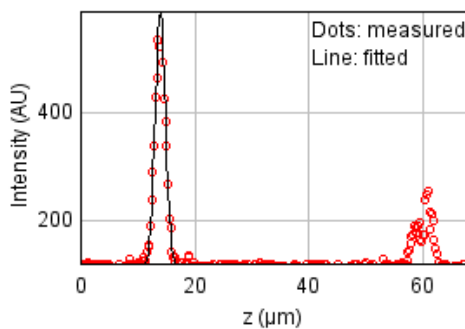 B = 123.269   (background)
 a = 0.826 px
 b = -0.009 px
 c = 0.448 px

  xc = 5.210 px
  yc = 6.723 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 161343.698
Standard deviation: 22.92487
R^2: 0.90276
Parameters:
 a = 119.68332
 b = 589.30042
 c = 14.03785
 d = 0.88391

Bead 3625

Date : Mon Oct 17 13:54:34 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
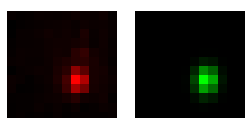Frame size : 12 pixels

Coordinates : 17.2 um (x), -56.4 um (y), 60.1 um (z)
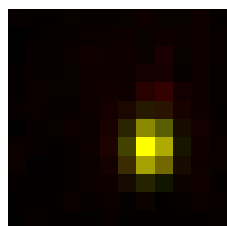Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	392 nm	408 nm	270 nm
max	499 nm	519 nm	270 nm
z	1.97 um	1.98 um	1.3 um
Asymmetry	0.786		
Theta	86.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 743.831   (brightness)
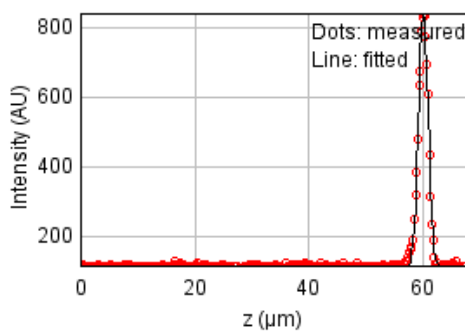 B = 129.799   (background)
 a = 0.872 px
 b = 0.019 px
 c = 0.541 px

xc = 7.265 px
yc = 7.066 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 23931.0675
Standard deviation: 8.82901
R^2: 0.99301
Parameters:
 a = 114.14611
 b = 840.91147
 c = 60.12012
 d = 0.83605

Bead 3626

Date : Mon Oct 17 13:54:34 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
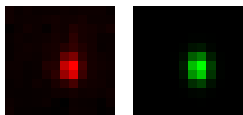Frame size : 12 pixels

Coordinates : -6.67 um (x), -57.8 um (y), 60.3 um (z)
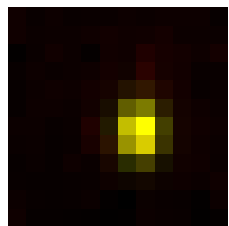Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	397 nm	413 nm	270 nm
max	530 nm	552 nm	270 nm
z	1.97 um	1.98 um	1.3 um
Asymmetry	0.749		
Theta	-88.1°		

XY profile & fitting parameters :

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

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

Parameters:
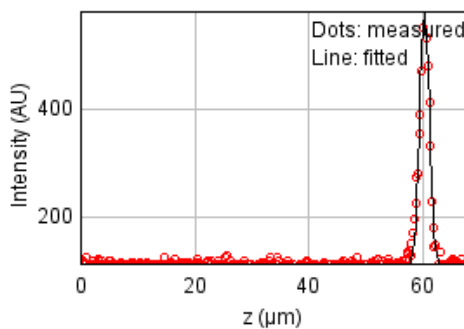 A = 547.285   (brightness)
 B = 122.072   (background)
 a = 0.852 px
 b = -0.012 px
 c = 0.478 px

xc = 6.678 px
yc = 6.256 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 27719.3657
Standard deviation: 9.50216
R^2: 0.98082
Parameters:
 a = 112.99568
 b = 582.20837
 c = 60.33383
 d = 0.83581

Bead 3627

Date : Mon Oct 17 13:54:34 PDT 2022
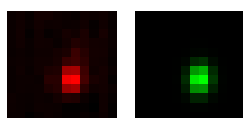Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 21.2 um (x), -58.0 um (y), 60.1 um (z)
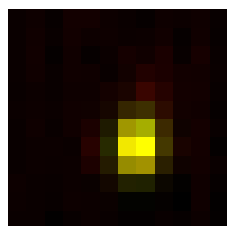Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	408 nm	425 nm	270 nm
max	536 nm	558 nm	270 nm
z	2.12 um	2.13 um	1.3 um
Asymmetry	0.761		
Theta	85.7°		

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
$R^2 = 0.959$

Parameters:
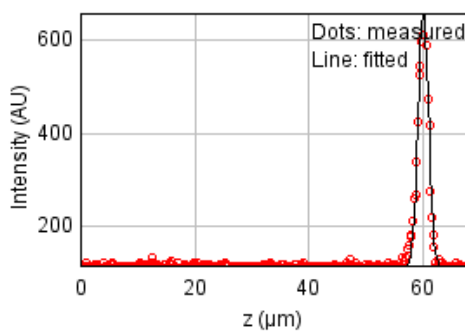A = 575.613   (brightness)
B = 124.252   (background)
a = 0.805 px
b = 0.026 px
c = 0.469 px

xc = 6.562 px
yc = 6.930 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 33052.4927
Standard deviation: 10.37607
R^2: 0.98414
Parameters:
a = 113.99573
b = 658.39736
c = 60.12710
d = 0.90142

Bead 3628

Date : Mon Oct 17 13:54:34 PDT 2022
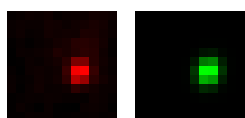Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -9.35 um (x), -59.5 um (y), 60.1 um (z)
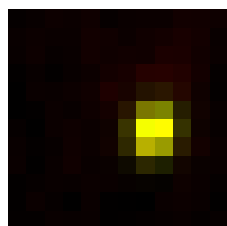Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	405 nm	422 nm	270 nm
max	490 nm	510 nm	270 nm
z	2.1 um	2.11 um	1.3 um
Asymmetry	0.828		
Theta	77.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.963$

Parameters:
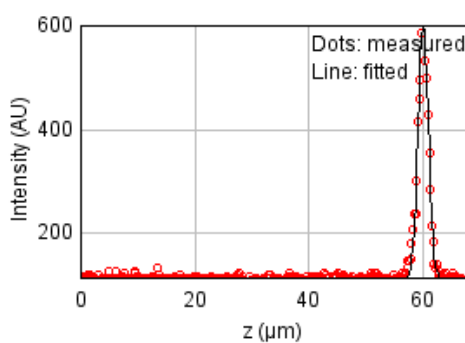A = 615.117   (brightness)
B = 124.256   (background)
a = 0.804 px
b = 0.056 px
c = 0.573 px

xc = 7.484 px
yc = 6.125 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 20929.4175
Standard deviation: 8.25675
R^2: 0.98734
Parameters:
a = 113.97756
b = 601.99211
c = 60.10261
d = 0.89202

Bead 3629

Date : Mon Oct 17 13:54:34 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
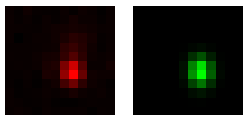Frame size : 12 pixels

Coordinates : 16.9 um (x), -62.1 um (y), 60.1 um (z)
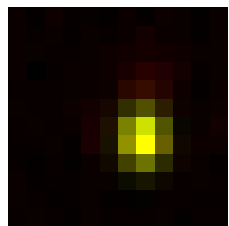Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	433 nm	270 nm
max	540 nm	562 nm	270 nm
z	1.94 um	1.95 um	1.3 um
Asymmetry	0.77		
Theta	-89.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 688.158   (brightness)
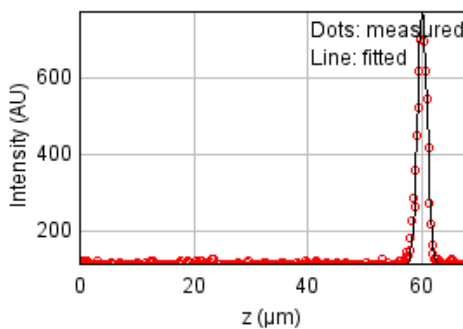 B = 126.935   (background)
 a = 0.777 px
 b = -0.002 px
 c = 0.461 px

xc = 6.864 px
yc = 6.631 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 37720.7059
Standard deviation: 11.08462
R^2: 0.98641
Parameters:
 a = 114.79442
 b = 771.42428
 c = 60.12444
 d = 0.82354

Bead 3630

Date : Mon Oct 17 13:54:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
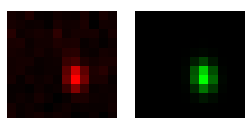Frame size : 12 pixels

Coordinates : -162 um (x), -66.0 um (y), 59.2 um (z)
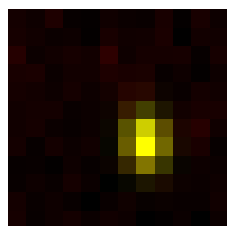Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	374 nm	390 nm	270 nm
max	523 nm	544 nm	270 nm
z	1.97 um	1.98 um	1.3 um
Asymmetry	0.716		
Theta	-83.9°		

XY profile & fitting parameters :

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

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

Parameters:
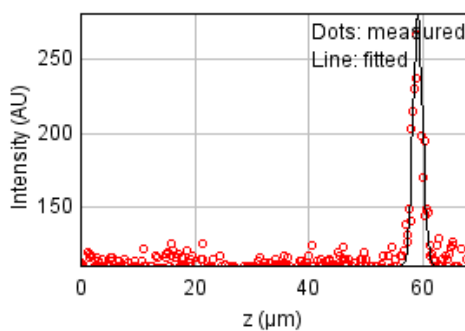 A = 190.022   (brightness)
 B = 112.370   (background)
 a = 0.954 px
 b = -0.050 px
 c = 0.497 px

xc = 7.012 px
yc = 6.715 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 17784.9207
Standard deviation: 7.61126
R^2: 0.91201
Parameters:
 a = 110.94357
 b = 280.02078
 c = 59.15843
 d = 0.83698

Bead 3631

Date : Mon Oct 17 13:54:35 PDT 2022
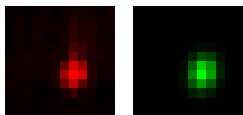Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 25.5 um (x), -66.3 um (y), 60.2 um (z)
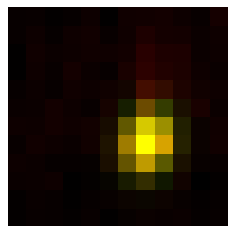Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	474 nm	493 nm	270 nm
max	613 nm	638 nm	270 nm
z	2.23 um	2.24 um	1.3 um
Asymmetry	0.773		
Theta	76.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.942$

Parameters:
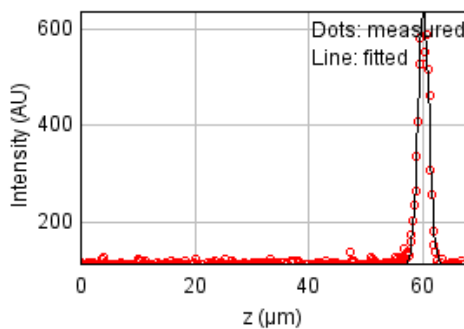A = 450.064   (brightness)
B = 124.051   (background)
a = 0.586 px
b = 0.054 px
c = 0.370 px

xc = 7.136 px
yc = 6.804 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 49678.9999
Standard deviation: 12.72088
R^2: 0.97575
Parameters:
a = 113.18973
b = 637.95100
c = 60.15014
d = 0.94808

Bead 3632

Date : Mon Oct 17 13:54:35 PDT 2022
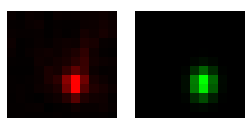Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 60.3 um (x), -66.6 um (y), 60.3 um (z)
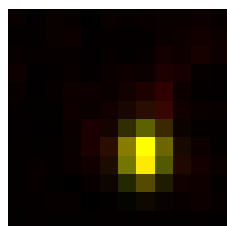Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	404 nm	421 nm	270 nm
max	506 nm	527 nm	270 nm
z	2.07 um	2.08 um	1.3 um
Asymmetry	0.798		
Theta	85.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.945$

Parameters:
 A = 570.402   (brightness)
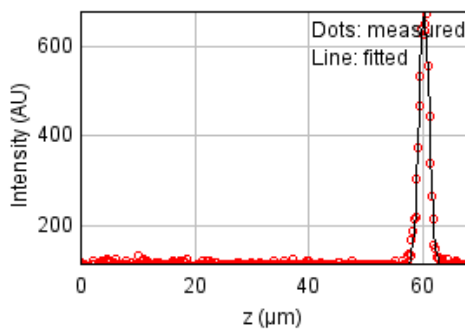 B = 126.275   (background)
 a = 0.820 px
 b = 0.024 px
 c = 0.526 px

 xc = 6.929 px
 yc = 7.419 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 24857.0403
Standard deviation: 8.99820
R^2: 0.98852
Parameters:
 a = 113.16200
 b = 676.33120
 c = 60.25952
 d = 0.87805

Bead 3633

Date : Mon Oct 17 13:54:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
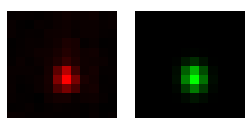Frame size : 12 pixels

Coordinates : 3.07 um (x), -70.0 um (y), 60.3 um (z)
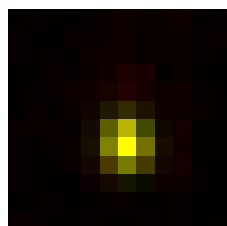Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	437 nm	270 nm
max	500 nm	520 nm	270 nm
z	2.08 um	2.09 um	1.3 um
Asymmetry	0.84		
Theta	-83.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 792.662   (brightness)
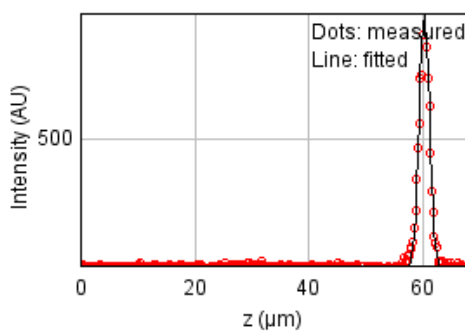 B = 134.599   (background)
 a = 0.760 px
 b = -0.025 px
 c = 0.541 px

xc = 5.950 px
yc = 6.823 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 40477.5801
Standard deviation: 11.48254
R^2: 0.99005
Parameters:
 a = 114.38015
 b = 883.74919
 c = 60.30005
 d = 0.88534

Bead 3634

Date : Mon Oct 17 13:54:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
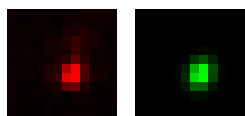Frame size : 12 pixels

Coordinates : 57.8 um (x), -72.8 um (y), 60.1 um (z)
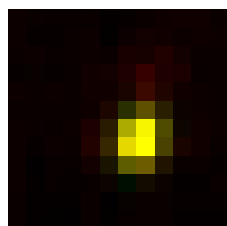Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	411 nm	428 nm	270 nm
max	517 nm	539 nm	270 nm
z	2.3 um	2.31 um	1.3 um
Asymmetry	0.795		
Theta	70.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.955$

Parameters:
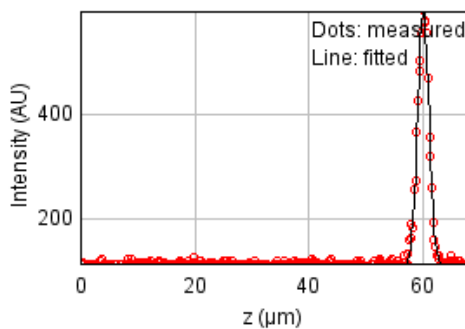A = 586.679   (brightness)
B = 123.727   (background)
a = 0.761 px
b = 0.092 px
c = 0.534 px

xc = 6.660 px
yc = 6.596 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 20764.1013
Standard deviation: 8.22408
R^2: 0.98825
Parameters:
a = 112.76075
b = 596.43866
c = 60.11468
d = 0.97655

Bead 3635

Date : Mon Oct 17 13:54:35 PDT 2022
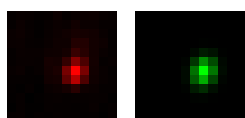Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 38.3 um (x), -81.3 um (y), 60.6 um (z)
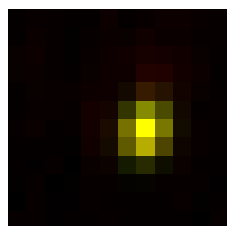Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	407 nm	424 nm	270 nm
max	529 nm	550 nm	270 nm
z	1.89 um	1.9 um	1.3 um
Asymmetry	0.77		
Theta	75.6°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.967$

 Parameters:
 A = 704.114   (brightness)
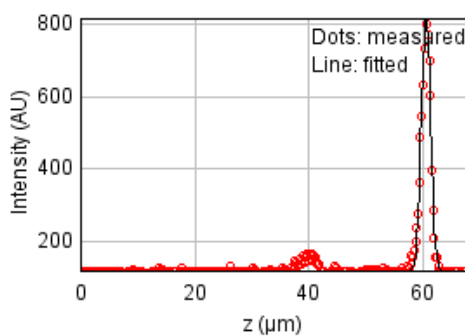 B = 125.521   (background)
 a = 0.789 px
 b = 0.079 px
 c = 0.501 px

 xc = 7.004 px
 yc = 6.109 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 61409.9412
Standard deviation: 14.14328
R^2: 0.98025
Parameters:
 a = 117.36570
 b = 818.56843
 c = 60.58724
 d = 0.80324

Bead 3636

Date : Mon Oct 17 13:54:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
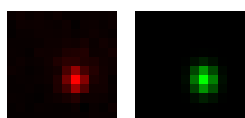Frame size : 12 pixels

Coordinates : -47.5 um (x), -82.4 um (y), 60.2 um (z)
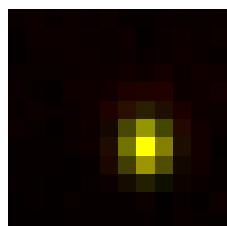Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	437 nm	270 nm
max	500 nm	521 nm	270 nm
z	2.09 um	2.1 um	1.3 um
Asymmetry	0.839		
Theta	-83.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 715.798   (brightness)
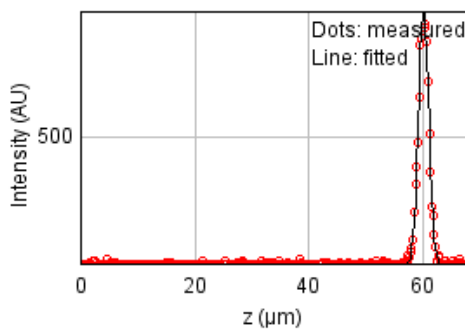 B = 126.374   (background)
 a = 0.759 px
 b = -0.024 px
 c = 0.538 px

xc = 7.035 px
yc = 6.998 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 24295.1313
Standard deviation: 8.89591
R^2: 0.99413
Parameters:
 a = 114.16166
 b = 890.94101
 c = 60.17468
 d = 0.88789

Bead 3637

Date : Mon Oct 17 13:54:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

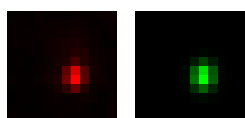Coordinates : 2.63 um (x), -86.3 um (y), 60.6 um (z)
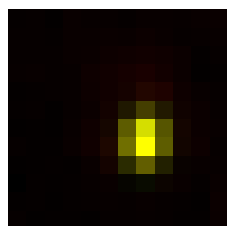Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	381 nm	396 nm	270 nm
max	486 nm	506 nm	270 nm
z	2.01 um	2.02 um	1.3 um
Asymmetry	0.783		
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
   $R^2 = 0.974$

Parameters:
 A = 890.329   (brightness)
 B = 128.075   (background)
 a = 0.925 px
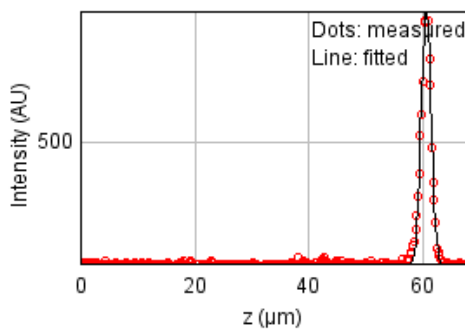 b = 0.025 px
 c = 0.570 px

 xc = 6.960 px
 yc = 6.624 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 41311.8196
Standard deviation: 11.60027
R^2: 0.99035
Parameters:
 a = 116.22787
 b = 919.40033
 c = 60.62266
 d = 0.85375

Bead 3638 (Rejected)

Date : Mon Oct 17 13:54:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 147 um (x), -89.9 um (y), 57.3 um (z)
Corresponding bead : Not found
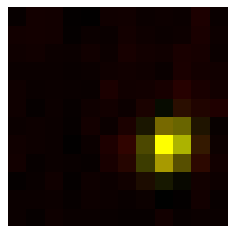Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	383 nm	399 nm	270 nm
max	479 nm	499 nm	270 nm
z	3.77 um	3.78 um	1.3 um
Asymmetry	0.8		
Theta	54.8°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
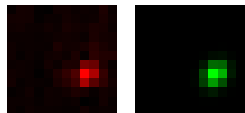
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.939$

Parameters:
 A = 289.669   (brightness)
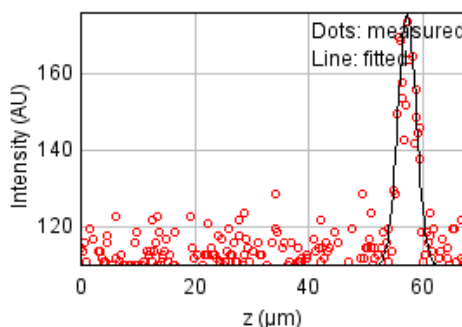 B = 114.021   (background)
 a = 0.804 px
 b = 0.155 px
 c = 0.694 px

xc = 8.265 px
yc = 7.077 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18343.6547
Standard deviation: 7.72990
R^2: 0.73725
Parameters:
 a = 110.06772
 b = 176.09172
 c = 57.28152
 d = 1.59937

Bead 3639

Date : Mon Oct 17 13:54:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
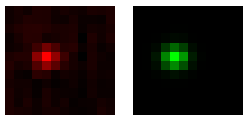Frame size : 12 pixels

Coordinates : -158 um (x), 13.5 um (y), 6.43 um (z)
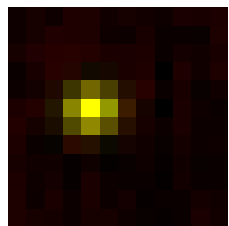Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	418 nm	435 nm	270 nm
max	479 nm	498 nm	270 nm
z	2.73 um	2.74 um	1.3 um
Asymmetry	0.873		
Theta	3.8°		

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
$R^2 = 0.918$

Parameters:
A = 190.616   (brightness)
B = 114.431   (background)
a = 0.587 px
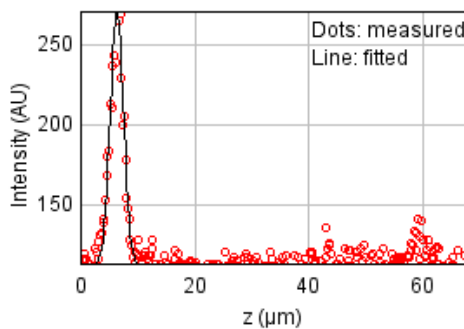b = 0.012 px
c = 0.769 px

xc = 4.055 px
yc = 5.094 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 19827.2341
Standard deviation: 8.03641
R^2: 0.91634
Parameters:
a = 113.24511
b = 270.48848
c = 6.42835
d = 1.16070

Bead 3640

Date : Mon Oct 17 13:54:35 PDT 2022
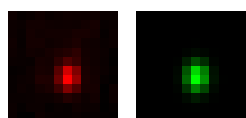Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -156 um (x), -42.6 nm (y), 60.4 um (z)
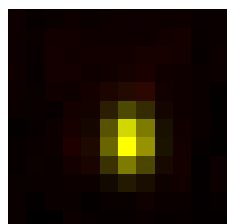Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	425 nm	443 nm	270 nm
max	548 nm	571 nm	270 nm
z	2.23 um	2.24 um	1.3 um
Asymmetry	0.775		
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 = 0.969

Parameters:
 A = 501.334   (brightness)
 B = 118.528   (background)
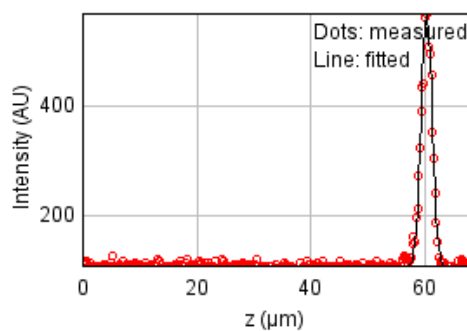 a = 0.743 px
 b = 0.006 px
 c = 0.446 px

xc = 6.128 px
yc = 6.694 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 23132.0121
Standard deviation: 8.68036
R^2: 0.98490
Parameters:
 a = 110.57492
 b = 566.79293
 c = 60.35376
 d = 0.94688

Bead 3641

Date : Mon Oct 17 13:54:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
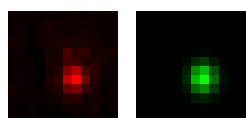Frame size : 12 pixels

Coordinates : -117 um (x), -9.53 um (y), 60.3 um (z)
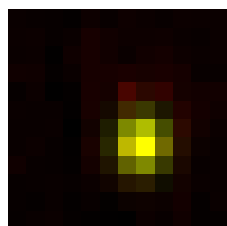Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	469 nm	489 nm	270 nm
max	540 nm	562 nm	270 nm
z	1.86 um	1.87 um	1.3 um
Asymmetry	0.869		
Theta	-87.9°		

XY profile & fitting parameters :

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

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

Parameters:
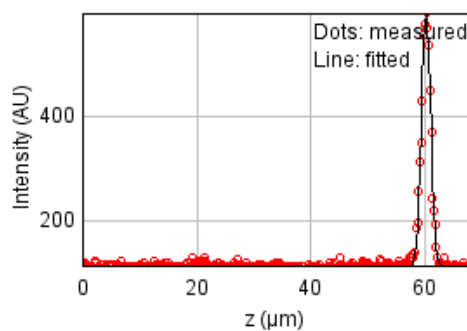 A = 446.186   (brightness)
 B = 124.014   (background)
 a = 0.610 px
 b = -0.005 px
 c = 0.460 px

xc = 6.767 px
yc = 6.825 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 20972.8968
Standard deviation: 8.26533
R^2: 0.98548
Parameters:
 a = 113.24865
 b = 595.95929
 c = 60.25690
 d = 0.79082

Bead 3642

Date : Mon Oct 17 13:54:36 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
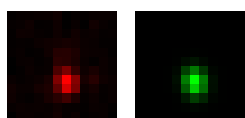Frame size : 12 pixels

Coordinates : -147 um (x), -10.1 um (y), 60.5 um (z)
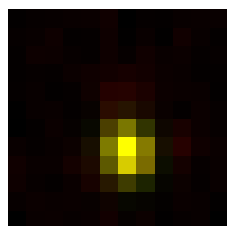Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	424 nm	442 nm	270 nm
max	525 nm	546 nm	270 nm
z	2.0 um	2.01 um	1.3 um
Asymmetry	0.809		
Theta	-78.8°		

XY profile & fitting parameters :

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

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

Parameters:
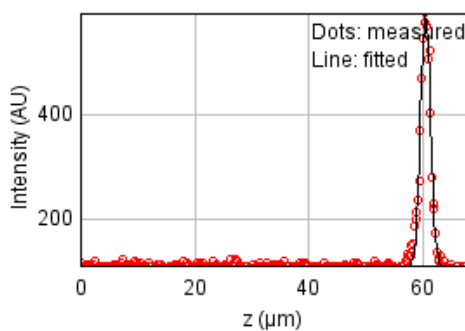 A = 480.276   (brightness)
 B = 125.339   (background)
 a = 0.735 px
 b = -0.049 px
 c = 0.497 px

 xc = 6.015 px
 yc = 7.271 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 27685.4231
Standard deviation: 9.49634
R^2: 0.98228
Parameters:
 a = 110.84001
 b = 594.81136
 c = 60.50550
 d = 0.85112

Bead 3643

Date : Mon Oct 17 13:54:36 PDT 2022
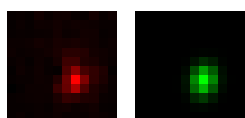Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -123 um (x), -15.5 um (y), 60.4 um (z)
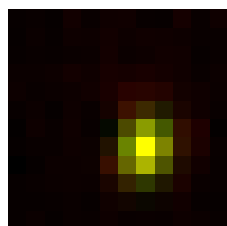Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	447 nm	466 nm	270 nm
max	572 nm	596 nm	270 nm
z	1.85 um	1.86 um	1.3 um
Asymmetry	0.781		
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 = 0.932

Parameters:
 A = 470.760   (brightness)
 B = 125.510   (background)
 a = 0.663 px
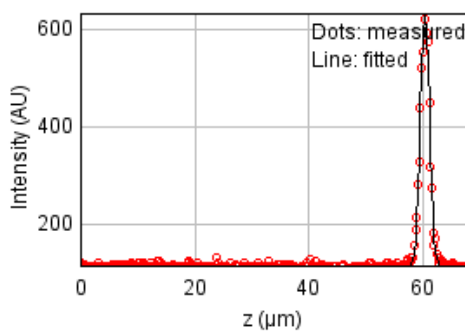 b = 0.047 px
 c = 0.419 px

xc = 6.991 px
yc = 7.085 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 19341.0864
Standard deviation: 7.93727
R^2: 0.98856
Parameters:
 a = 112.48804
 b = 636.65489
 c = 60.40420
 d = 0.78759

Bead 3644

Date : Mon Oct 17 13:54:36 PDT 2022
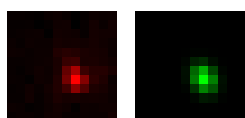Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -127 um (x), -17.5 um (y), 60.3 um (z)
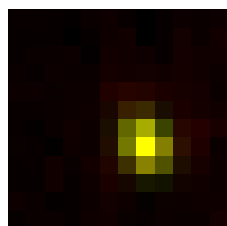Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	432 nm	270 nm
max	532 nm	555 nm	270 nm
z	2.11 um	2.11 um	1.3 um
Asymmetry	0.778		
Theta	-65.1°		

XY profile & fitting parameters :

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

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

Parameters:
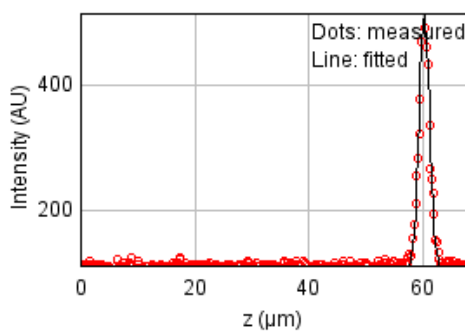 A = 421.108   (brightness)
 B = 119.653   (background)
 a = 0.727 px
 b = -0.118 px
 c = 0.528 px

xc = 6.997 px
yc = 6.865 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 19814.9205
Standard deviation: 8.03391
R^2: 0.98238
Parameters:
 a = 112.05117
 b = 513.21640
 c = 60.29694
 d = 0.89399

Bead 3645

Date : Mon Oct 17 13:54:36 PDT 2022
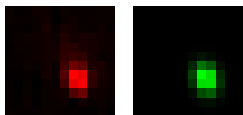Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -129 um (x), -21.1 um (y), 60.3 um (z)
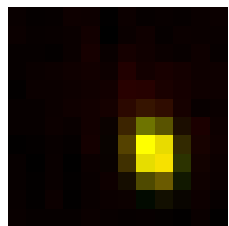Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	433 nm	270 nm
max	551 nm	574 nm	270 nm
z	2.1 um	2.11 um	1.3 um
Asymmetry	0.755		
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:
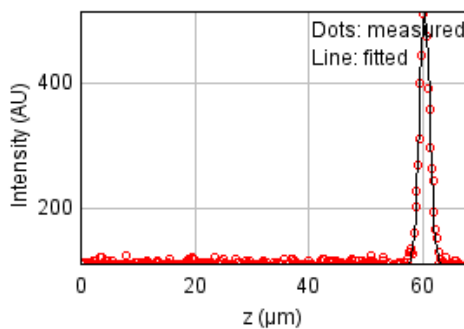 A = 539.004   (brightness)
 B = 122.539   (background)
 a = 0.751 px
 b = -0.089 px
 c = 0.468 px

xc = 7.447 px
yc = 7.428 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 18036.8533
Standard deviation: 7.66498
R^2: 0.98397
Parameters:
 a = 112.57515
 b = 514.69390
 c = 60.34754
 d = 0.89135

Bead 3646

Date : Mon Oct 17 13:54:36 PDT 2022
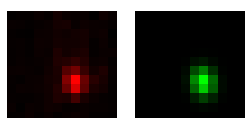Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -110 um (x), -22.6 um (y), 60.4 um (z)
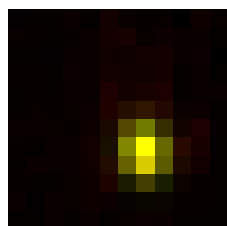Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	433 nm	270 nm
max	534 nm	556 nm	270 nm
z	1.99 um	2.0 um	1.3 um
Asymmetry	0.779		
Theta	-81.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 485.880   (brightness)
 B = 120.624   (background)
 a = 0.768 px
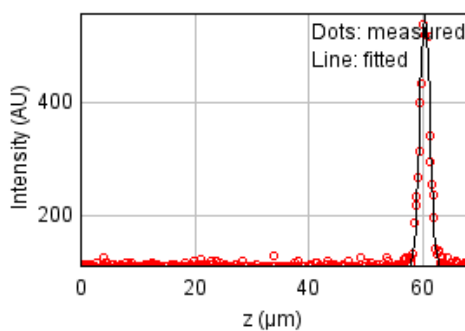 b = -0.046 px
 c = 0.478 px

xc = 6.929 px
yc = 7.256 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 30491.7246
Standard deviation: 9.96602
R^2: 0.97684
Parameters:
 a = 113.13712
 b = 557.40547
 c = 60.37915
 d = 0.84608

Bead 3647

Date : Mon Oct 17 13:54:36 PDT 2022
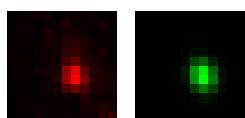Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -115 um (x), -24.2 um (y), 60.3 um (z)
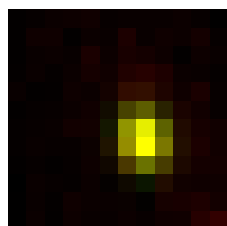Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	440 nm	458 nm	270 nm
max	564 nm	588 nm	270 nm
z	2.23 um	2.24 um	1.3 um
Asymmetry	0.779		
Theta	-76.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.940$

Parameters:
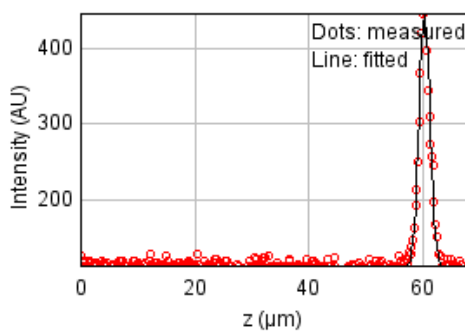A = 379.266   (brightness)
B = 124.673   (background)
a = 0.679 px
b = -0.061 px
c = 0.436 px

xc = 6.897 px
yc = 6.564 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 21534.7470
Standard deviation: 8.37531
R^2: 0.97384
Parameters:
a = 112.80712
b = 445.27457
c = 60.32714
d = 0.94703

Bead 3648

Date : Mon Oct 17 13:54:36 PDT 2022
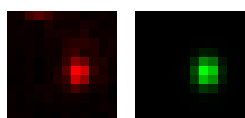Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -114 um (x), -25.9 um (y), 60.3 um (z)
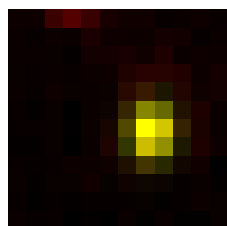Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	438 nm	270 nm
max	528 nm	550 nm	270 nm
z	2.31 um	2.32 um	1.3 um
Asymmetry	0.796		
Theta	88.0°		

XY profile & fitting parameters :

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

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

Parameters:
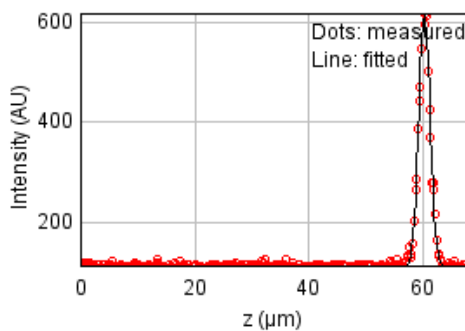 A = 523.201   (brightness)
 B = 127.388   (background)
 a = 0.759 px
 b = 0.010 px
 c = 0.482 px

xc = 7.329 px
yc = 6.177 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 26250.4691
Standard deviation: 9.24697
R^2: 0.98645
Parameters:
 a = 111.28280
 b = 616.49183
 c = 60.31071
 d = 0.97962

Bead 3649

Date : Mon Oct 17 13:54:36 PDT 2022
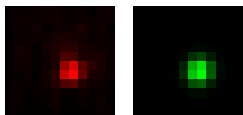Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -118 um (x), -28.6 um (y), 60.5 um (z)
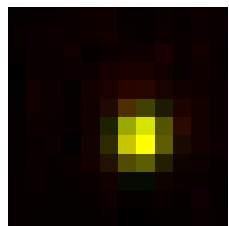Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	453 nm	472 nm	270 nm
max	492 nm	512 nm	270 nm
z	1.88 um	1.88 um	1.3 um
Asymmetry	0.921		
Theta	74.6°		

XY profile & fitting parameters :

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

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

Parameters:
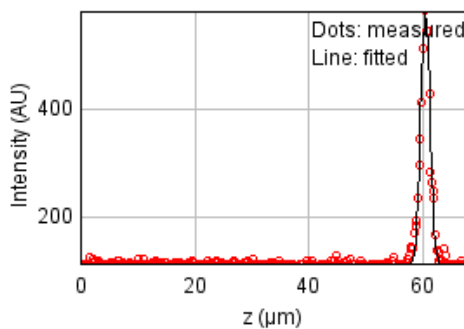 A = 515.829   (brightness)
 B = 120.267   (background)
 a = 0.647 px
 b = 0.025 px
 c = 0.562 px

xc = 6.714 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: 33278.5768
Standard deviation: 10.41150
R^2: 0.97624
Parameters:
 a = 111.48009
 b = 582.89503
 c = 60.47940
 d = 0.79687

Bead 3650

Date : Mon Oct 17 13:54:36 PDT 2022
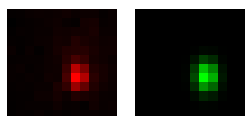Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -104 um (x), -31.8 um (y), 60.3 um (z)
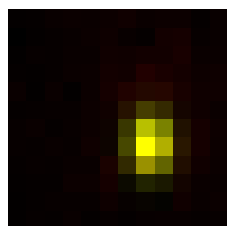Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	404 nm	421 nm	270 nm
max	560 nm	584 nm	270 nm
z	2.31 um	2.32 um	1.3 um
Asymmetry	0.722		
Theta	-89.4°		

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:
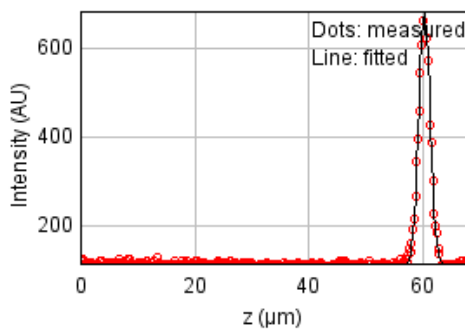A = 621.221   (brightness)
B = 124.034   (background)
a = 0.820 px
b = -0.004 px
c = 0.427 px

xc = 7.269 px
yc = 6.840 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25094.6944
Standard deviation: 9.04111
R^2: 0.98976
Parameters:
a = 112.52471
b = 680.69025
c = 60.31497
d = 0.98283

Bead 3651

Date : Mon Oct 17 13:54:37 PDT 2022
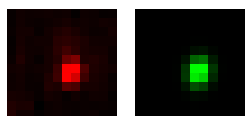Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -99.1 um (x), -37.8 um (y), 60.4 um (z)
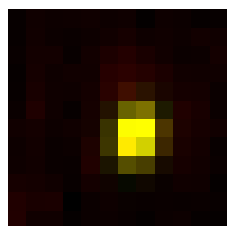Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	408 nm	425 nm	270 nm
max	521 nm	543 nm	270 nm
z	2.27 um	2.28 um	1.3 um
Asymmetry	0.782		
Theta	78.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.958$

Parameters:
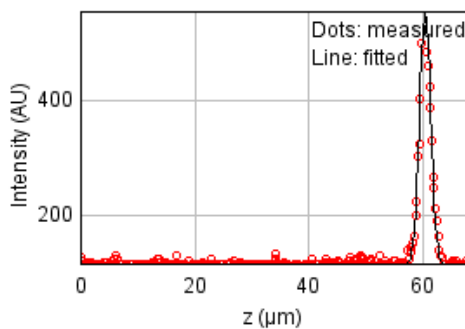A = 604.660   (brightness)
B = 128.759   (background)
a = 0.793 px
b = 0.062 px
c = 0.507 px

xc = 6.477 px
yc = 6.364 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 26115.0095
Standard deviation: 9.22308
R^2: 0.98245
Parameters:
a = 112.96625
b = 558.01913
c = 60.43954
d = 0.96461

Bead 3652

Date : Mon Oct 17 13:54:37 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
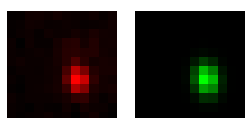Frame size : 12 pixels

Coordinates : -101 um (x), -38.8 um (y), 60.4 um (z)
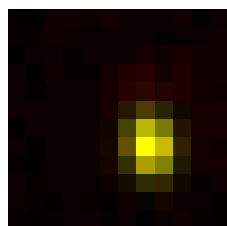Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	430 nm	447 nm	270 nm
max	582 nm	606 nm	270 nm
z	2.46 um	2.47 um	1.3 um
Asymmetry	0.738		
Theta	-81.0°		

XY profile & fitting parameters :

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

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

Parameters:
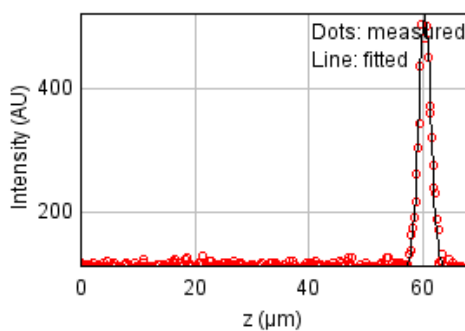 A = 451.908 (brightness)
 B = 123.749 (background)
 a = 0.719 px
 b = -0.051 px
 c = 0.404 px

xc = 7.279 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: 25202.7055
Standard deviation: 9.06055
R^2: 0.98142
Parameters:
 a = 112.87054
 b = 522.04855
 c = 60.37378
 d = 1.04371

Bead 3653

Date : Mon Oct 17 13:54:37 PDT 2022
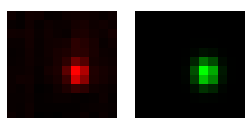Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -47.2 um (x), -39.1 um (y), 60.2 um (z)
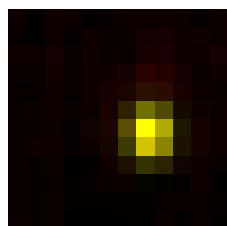Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	409 nm	426 nm	270 nm
max	495 nm	516 nm	270 nm
z	1.95 um	1.96 um	1.3 um
Asymmetry	0.826		
Theta	-88.3°		

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:
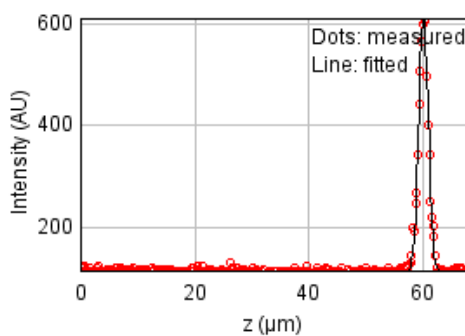 A = 526.487 (brightness)
 B = 124.157 (background)
 a = 0.802 px
 b = -0.007 px
 c = 0.547 px

xc = 7.246 px
yc = 6.260 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21005.8397
Standard deviation: 8.27182
R^2: 0.98706
Parameters:
 a = 112.73402
 b = 613.86322
 c = 60.15503
 d = 0.82752

Bead 3654

Date : Mon Oct 17 13:54:38 PDT 2022
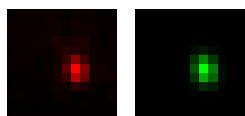Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -52.3 um (x), -45.0 um (y), 60.3 um (z)
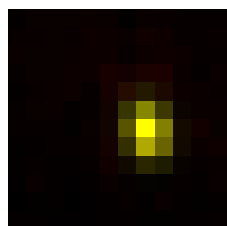Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	381 nm	397 nm	270 nm
max	514 nm	536 nm	270 nm
z	1.94 um	1.95 um	1.3 um
Asymmetry	0.741		
Theta	-77.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 647.687   (brightness)
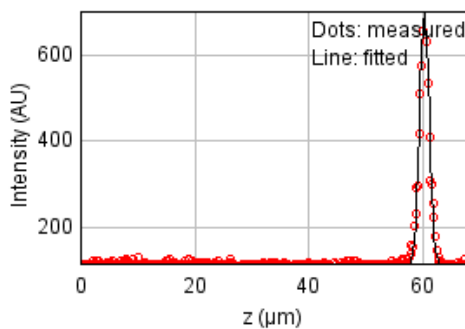 B = 122.918   (background)
 a = 0.905 px
 b = -0.086 px
 c = 0.526 px

xc = 7.125 px
yc = 6.129 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 35162.6090
Standard deviation: 10.70216
R^2: 0.98414
Parameters:
 a = 113.58055
 b = 700.05536
 c = 60.31326
 d = 0.82267

Bead 3655

Date : Mon Oct 17 13:54:38 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
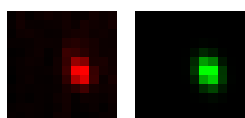Frame size : 12 pixels

Coordinates : -72.3 um (x), -52.1 um (y), 60.5 um (z)
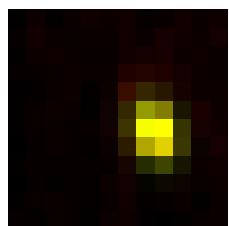Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	420 nm	270 nm
max	562 nm	585 nm	270 nm
z	2.24 um	2.25 um	1.3 um
Asymmetry	0.718		
Theta	-72.4°		

XY profile & fitting parameters :

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

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

Parameters:
A = 535.232   (brightness)
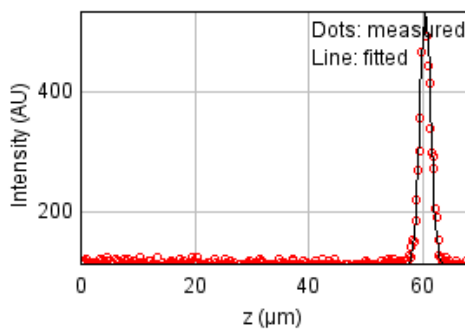B = 120.768   (background)
a = 0.788 px
b = -0.115 px
c = 0.462 px

xc = 7.527 px
yc = 6.165 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 30313.2602
Standard deviation: 9.93681
R^2: 0.97681
Parameters:
a = 113.75316
b = 532.70689
c = 60.46694
d = 0.95026

Bead 3656

Date : Mon Oct 17 13:54:38 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
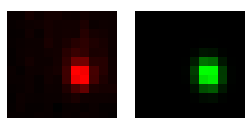Frame size : 12 pixels

Coordinates : -83.7 um (x), -53.0 um (y), 60.2 um (z)
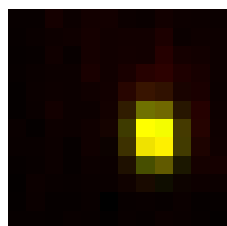Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	426 nm	444 nm	270 nm
max	539 nm	561 nm	270 nm
z	2.14 um	2.15 um	1.3 um
Asymmetry	0.791		
Theta	-82.4°		

XY profile & fitting parameters :

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

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

Parameters:
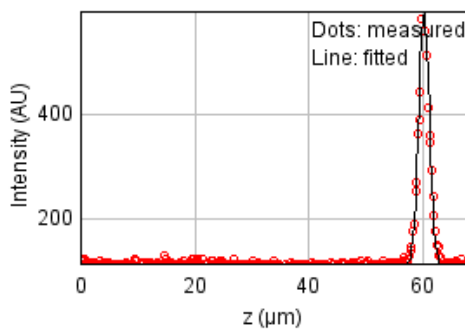 A = 677.773   (brightness)
 B = 123.572   (background)
 a = 0.734 px
 b = -0.036 px
 c = 0.468 px

xc = 7.514 px
yc = 6.408 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 31894.2933
Standard deviation: 10.19265
R^2: 0.98114
Parameters:
 a = 112.87256
 b = 600.14849
 c = 60.23958
 d = 0.91072

Bead 3657 (Rejected)

Date : Mon Oct 17 13:54:38 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 7.66 um (x), -54.4 um (y), 58.9 um (z)
Corresponding bead : Not found
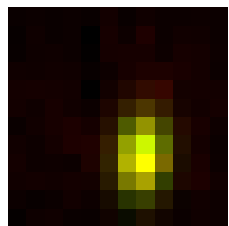Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	465 nm	484 nm	270 nm
max	750 nm	781 nm	270 nm
z	2.54 um	2.55 um	1.3 um
Asymmetry	0.62		
Theta	85.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
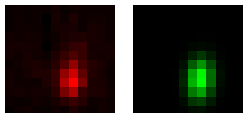
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.957$

Parameters:
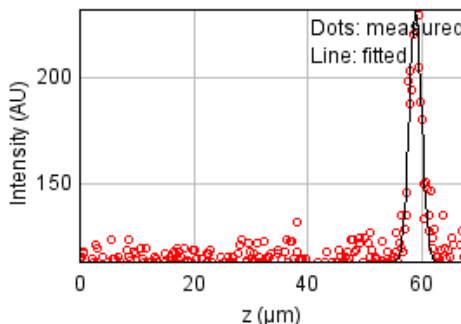 A = 262.036 (brightness)
 B = 122.617 (background)
 a = 0.619 px
 b = 0.032 px
 c = 0.241 px
xc = 6.810 px
yc = 7.593 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15242.8053
Standard deviation: 7.04633
R^2: 0.88484
Parameters:
 a = 112.74468
 b = 232.19966
 c = 58.91685
 d = 1.07979

Bead 3658

Date : Mon Oct 17 13:54:38 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
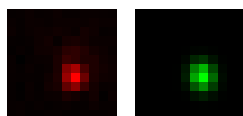Frame size : 12 pixels

Coordinates : -79.0 um (x), -58.8 um (y), 60.8 um (z)
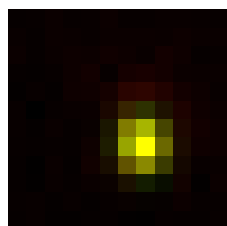Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	445 nm	464 nm	270 nm
max	529 nm	551 nm	270 nm
z	2.01 um	2.02 um	1.3 um
Asymmetry	0.842		
Theta	-80.9°		

XY profile & fitting parameters :

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

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

Parameters:
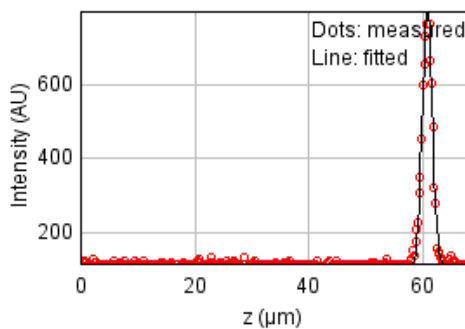 A = 639.097   (brightness)
 B = 125.267   (background)
 a = 0.672 px
 b = -0.031 px
 c = 0.485 px

  xc = 6.821 px
  yc = 6.843 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 28255.1144
Standard deviation: 9.59355
R^2: 0.99107
Parameters:
 a = 112.82481
 b = 804.31980
 c = 60.82399
 d = 0.85242

Bead 3659

Date : Mon Oct 17 13:54:38 PDT 2022
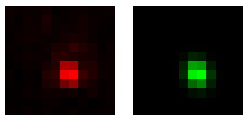Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -42.6 um (x), -60.8 um (y), 60.6 um (z)
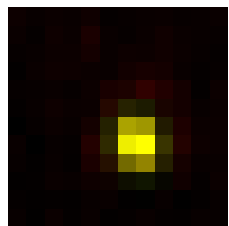Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	397 nm	413 nm	270 nm
max	484 nm	504 nm	270 nm
z	2.08 um	2.09 um	1.3 um
Asymmetry	0.82		
Theta	-74.3°		

XY profile & fitting parameters :

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

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

Parameters:
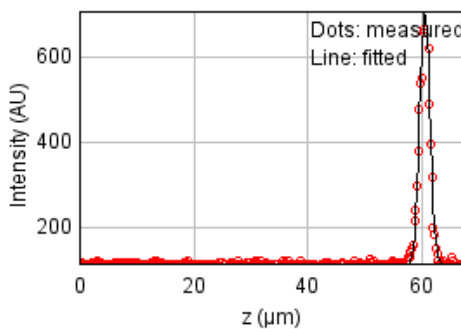A = 650.037   (brightness)
B = 123.556   (background)
a = 0.832 px
b = -0.073 px
c = 0.593 px

xc = 6.533 px
yc = 6.885 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 32208.1564
Standard deviation: 10.24268
R^2: 0.98674
Parameters:
a = 113.04480
b = 707.57291
c = 60.55665
d = 0.88253

Bead 3660

Date : Mon Oct 17 13:54:38 PDT 2022
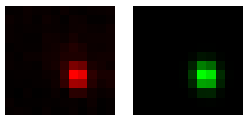Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -47.9 um (x), -61.5 um (y), 60.6 um (z)
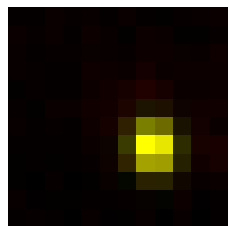Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	411 nm	428 nm	270 nm
max	485 nm	505 nm	270 nm
z	2.13 um	2.13 um	1.3 um
Asymmetry	0.847		
Theta	-80.6°		

XY profile & fitting parameters :

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

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

Parameters:
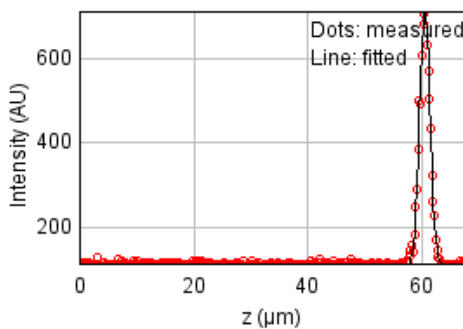 A = 681.160   (brightness)
 B = 121.287   (background)
 a = 0.789 px
 b = -0.036 px
 c = 0.576 px

xc = 7.439 px
yc = 7.135 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21406.2114
Standard deviation: 8.35027
R^2: 0.99146
Parameters:
 a = 111.87445
 b = 710.98039
 c = 60.55987
 d = 0.90252

Bead 3661

Date : Mon Oct 17 13:54:38 PDT 2022
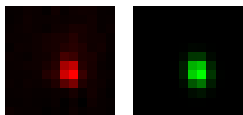Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -36.6 um (x), -63.6 um (y), 60.5 um (z)
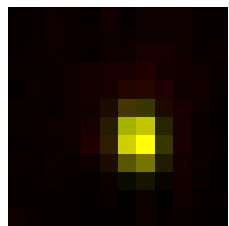Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	387 nm	403 nm	270 nm
max	509 nm	531 nm	270 nm
z	2.06 um	2.06 um	1.3 um
Asymmetry	0.759		
Theta	-82.5°		

XY profile & fitting parameters :

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

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

Parameters:
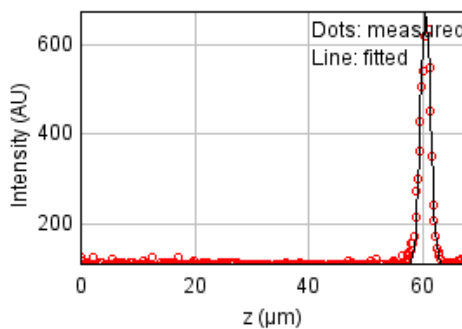 A = 686.785 (brightness)
 B = 127.108 (background)
 a = 0.891 px
 b = -0.049 px
 c = 0.523 px

xc = 6.598 px
yc = 6.708 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 30874.1909
Standard deviation: 10.02833
R^2: 0.98554
Parameters:
 a = 112.28099
 b = 672.09797
 c = 60.50738
 d = 0.87301

Bead 3662

Date : Mon Oct 17 13:54:38 PDT 2022
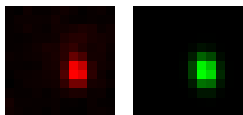Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -30.1 um (x), -65.6 um (y), 60.2 um (z)
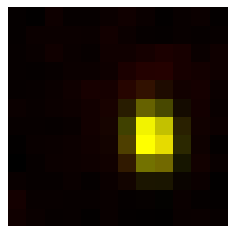Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	415 nm	432 nm	270 nm
max	562 nm	585 nm	270 nm
z	2.31 um	2.32 um	1.3 um
Asymmetry	0.738		
Theta	-83.5°		

XY profile & fitting parameters :

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

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

Parameters:
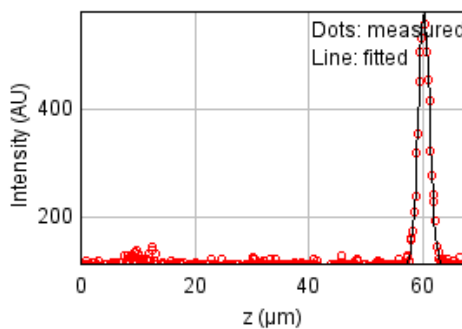 A = 524.954   (brightness)
 B = 125.598   (background)
 a = 0.776 px
 b = -0.040 px
 c = 0.430 px

xc = 7.380 px
yc = 6.593 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 24412.3287
Standard deviation: 8.91734
R^2: 0.98505
Parameters:
 a = 114.86800
 b = 578.27364
 c = 60.23003
 d = 0.97968

Bead 3663

Date : Mon Oct 17 13:54:38 PDT 2022
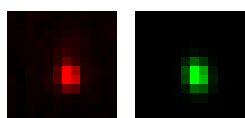Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -35.6 um (x), -66.9 um (y), 60.4 um (z)
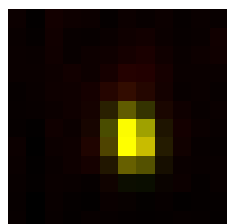Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	401 nm	418 nm	270 nm
max	526 nm	548 nm	270 nm
z	2.2 um	2.21 um	1.3 um
Asymmetry	0.762		
Theta	-78.0°		

XY profile & fitting parameters :

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

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

Parameters:
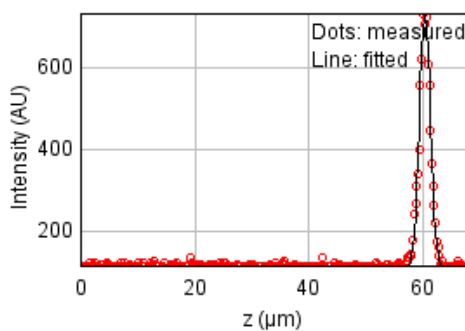 A = 697.276   (brightness)
 B = 126.377   (background)
 a = 0.820 px
 b = -0.071 px
 c = 0.500 px

xc = 6.275 px
yc = 6.553 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 29442.2903
Standard deviation: 9.79302
R^2: 0.98957
Parameters:
 a = 113.09126
 b = 737.61184
 c = 60.39731
 d = 0.93497

Bead 3664

Date : Mon Oct 17 13:54:38 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
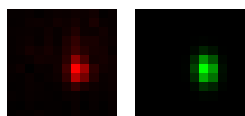Frame size : 12 pixels

Coordinates : -32.3 um (x), -67.2 um (y), 60.4 um (z)
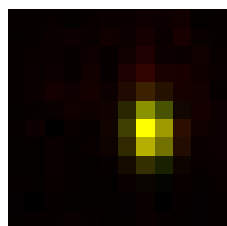Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	377 nm	393 nm	270 nm
max	536 nm	558 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.704		
Theta	-86.1°		

XY profile & fitting parameters :

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

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

Parameters:
A = 602.859   (brightness)
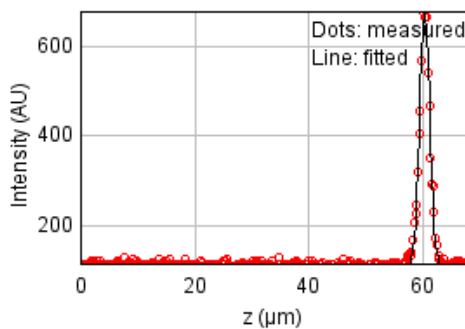B = 123.262   (background)
a = 0.942 px
b = -0.032 px
c = 0.470 px

xc = 7.236 px
yc = 6.112 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 26616.7153
Standard deviation: 9.31125
R^2: 0.98759
Parameters:
 a = 114.00344
 b = 680.53205
 c = 60.36635
 d = 0.85779

Bead 3665 (Rejected)

Date : Mon Oct 17 13:54:39 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

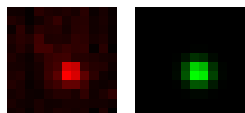Coordinates : -161 um (x), -76.2 um (y), 59.6 um (z)
Corresponding bead : Not found
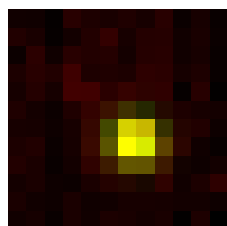Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	455 nm	474 nm	270 nm
max	482 nm	501 nm	270 nm
z	2.31 um	2.32 um	1.3 um
Asymmetry	0.945		
Theta	-25.0°		

XY profile & fitting parameters :

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

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

Parameters:
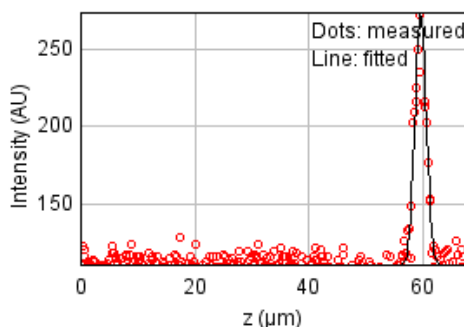A = 170.560   (brightness)
B = 113.672   (background)
a = 0.591 px
b = -0.026 px
c = 0.635 px
xc = 6.416 px
yc = 6.669 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18087.8573
Standard deviation: 7.67581
R^2: 0.91557
Parameters:
a = 111.31785
b = 273.04024
c = 59.63209
d = 0.98126

Bead 3666

Date : Mon Oct 17 13:54:39 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
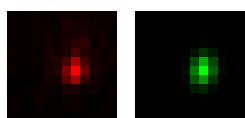Frame size : 12 pixels

Coordinates : 13.6 um (x), -78.4 um (y), 60.6 um (z)
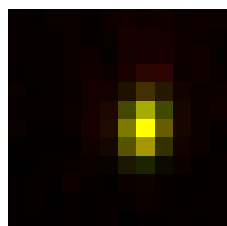Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	551 nm	573 nm	270 nm
z	2.1 um	2.11 um	1.3 um
Asymmetry	0.707		
Theta	81.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 547.220   (brightness)
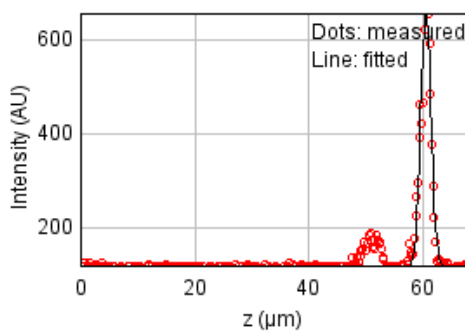 B = 123.646   (background)
 a = 0.875 px
 b = 0.066 px
 c = 0.453 px

xc = 6.929 px
yc = 5.939 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 100551.344
Standard deviation: 18.09776
R^2: 0.95215
Parameters:
 a = 116.60490
 b = 656.49153
 c = 60.56753
 d = 0.89390

Bead 3667

Date : Mon Oct 17 13:54:39 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
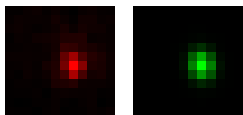Frame size : 12 pixels

Coordinates : -104 um (x), -80.8 um (y), 60.6 um (z)
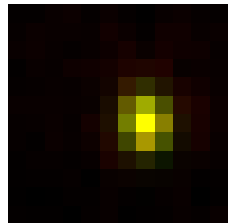Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	435 nm	453 nm	270 nm
max	543 nm	566 nm	270 nm
z	2.1 um	2.1 um	1.3 um
Asymmetry	0.801		
Theta	-81.7°		

XY profile & fitting parameters :

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

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

Parameters:
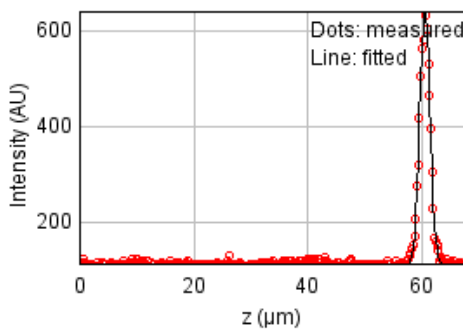 A = 507.420   (brightness)
 B = 124.324   (background)
 a = 0.703 px
 b = -0.036 px
 c = 0.460 px

xc = 7.001 px
yc = 5.937 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 15862.4326
Standard deviation: 7.18813
R^2: 0.99173
Parameters:
 a = 112.80488
 b = 640.23160
 c = 60.56659
 d = 0.88979

Bead 3668

Date : Mon Oct 17 13:54:39 PDT 2022
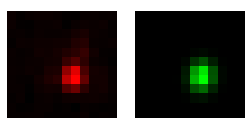Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 32.7 um (x), -81.9 um (y), 60.4 um (z)
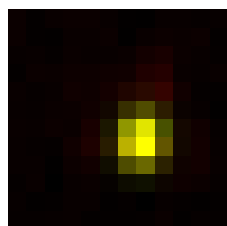Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	428 nm	446 nm	270 nm
max	520 nm	541 nm	270 nm
z	2.24 um	2.25 um	1.3 um
Asymmetry	0.823		
Theta	83.5°		

XY profile & fitting parameters :

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

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

Parameters:
  A = 616.233   (brightness)
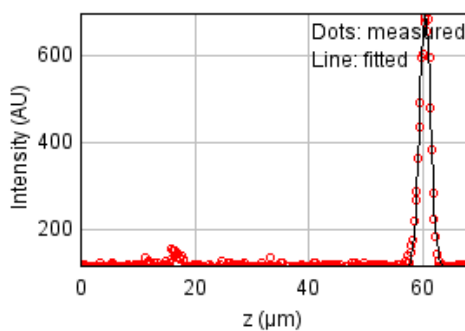 B = 124.598   (background)
  a = 0.730 px
  b = 0.027 px
  c = 0.500 px

  xc = 6.764 px
  yc = 6.620 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 38498.1794
Standard deviation: 11.19827
R^2: 0.98477
Parameters:
 a = 114.73112
 b = 699.50009
 c = 60.43817
 d = 0.95094

Bead 3669

Date : Mon Oct 17 13:54:39 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
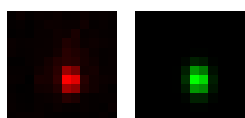Frame size : 12 pixels

Coordinates : -17.9 um (x), -82.8 um (y), 60.5 um (z)
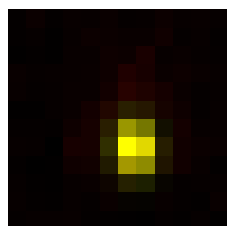Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	380 nm	395 nm	270 nm
max	508 nm	529 nm	270 nm
z	2.21 um	2.22 um	1.3 um
Asymmetry	0.747		
Theta	-84.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.968$

Parameters:
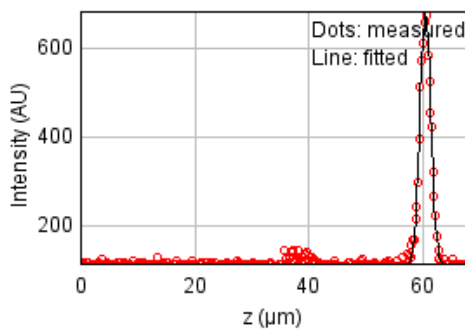A = 707.366   (brightness)
B = 127.003   (background)
a = 0.927 px
b = -0.036 px
c = 0.523 px

xc = 6.412 px
yc = 7.034 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 31263.3399
Standard deviation: 10.09133
R^2: 0.98673
Parameters:
a = 114.84180
b = 682.84797
c = 60.48327
d = 0.94036

Bead 3670

Date : Mon Oct 17 13:54:39 PDT 2022
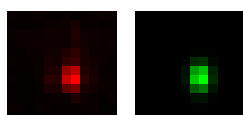Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 8.72 um (x), -82.6 um (y), 60.6 um (z)
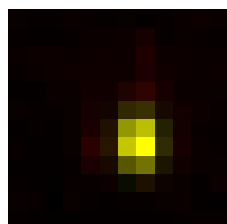Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	366 nm	381 nm	270 nm
max	495 nm	515 nm	270 nm
z	2.1 um	2.1 um	1.3 um
Asymmetry	0.739		
Theta	-88.3°		

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 = 0.961

Parameters:
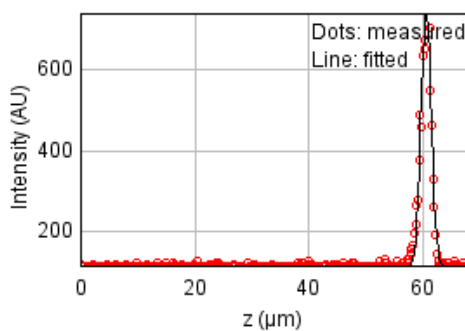A = 725.251   (brightness)
B = 126.243   (background)
a = 1.002 px
b = -0.013 px
c = 0.549 px
xc = 6.624 px
yc = 6.756 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 51607.7029
Standard deviation: 12.96546
R^2: 0.98143
Parameters:
a = 112.83320
b = 744.36179
c = 60.62002
d = 0.89019

Bead 3671

Date : Mon Oct 17 13:54:39 PDT 2022
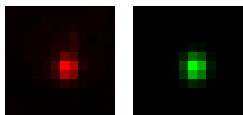Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -5.66 um (x), -83.3 um (y), 60.7 um (z)
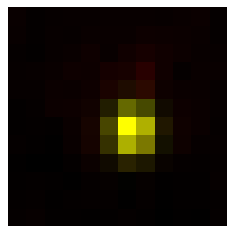Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	401 nm	418 nm	270 nm
max	461 nm	480 nm	270 nm
z	1.99 um	1.99 um	1.3 um
Asymmetry	0.87		
Theta	88.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.966$

Parameters:
A = 840.033   (brightness)
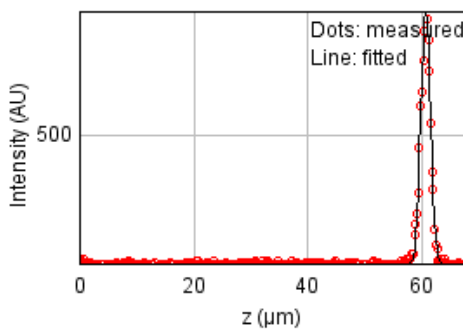B = 127.386   (background)
a = 0.835 px
b = 0.004 px
c = 0.631 px

xc = 6.274 px
yc = 6.202 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 30699.7911
Standard deviation: 9.99997
R^2: 0.99172
Parameters:
 a = 113.60804
 b = 866.05514
 c = 60.70862
 d = 0.84318

Bead 3672

Date : Mon Oct 17 13:54:39 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
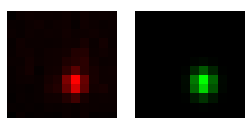Frame size : 12 pixels

Coordinates : -1.11 um (x), -83.6 um (y), 60.8 um (z)
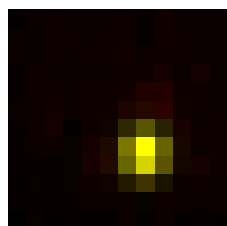Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	398 nm	414 nm	270 nm
max	461 nm	480 nm	270 nm
z	1.9 um	1.9 um	1.3 um
Asymmetry	0.862		
Theta	88.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.967$

Parameters:
A = 778.320   (brightness)
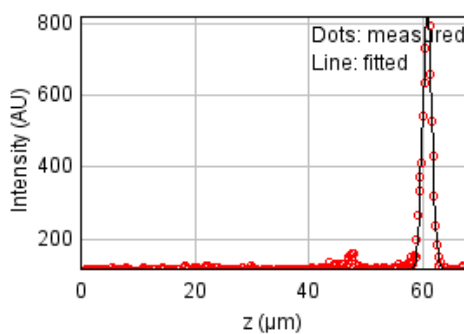B = 126.872   (background)
a = 0.848 px
b = 0.005 px
c = 0.631 px

xc = 6.946 px
yc = 7.356 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 49787.3238
Standard deviation: 12.73474
R^2: 0.98419
Parameters:
 a = 115.89860
 b = 822.43703
 c = 60.81068
 d = 0.80474

Bead 3673 (Rejected)

Date : Mon Oct 17 13:54:39 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

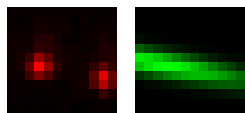Coordinates : 4.41 um (x), -88.0 um (y), 60.7 um (z)
Corresponding bead : Not found
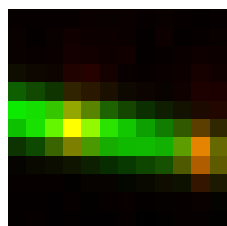Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	482 nm	502 nm	270 nm
max	3.67 um	3.83 um	270 nm
z	1.94 um	1.95 um	1.3 um
Asymmetry	0.131		
Theta	-10.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.437$

Parameters:
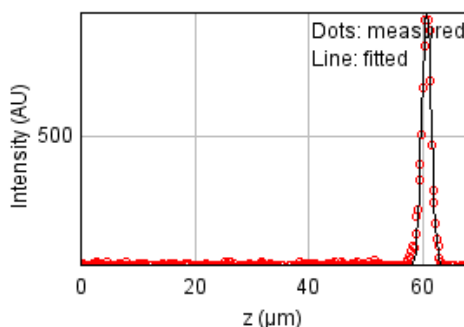 A = 177.772   (brightness)
 B = 135.164   (background)
 a = 0.011 px
 b = -0.108 px
 c = 0.558 px

xc = 2.043 px
yc = 5.700 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 44729.5508
Standard deviation: 12.07058
R^2: 0.98795
Parameters:
 a = 113.59311
 b = 873.09387
 c = 60.68694
 d = 0.82444

Bead 3674 (Rejected)

Date : Mon Oct 17 13:54:39 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -22.2 um (x), -90.5 um (y), 59.8 um (z)
Corresponding bead : Not found
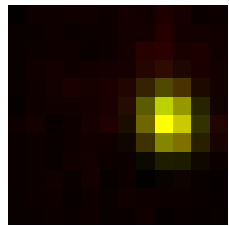Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	478 nm	498 nm	270 nm
max	567 nm	590 nm	270 nm
z	4.06 um	4.07 um	1.3 um
Asymmetry	0.843		
Theta	-75.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
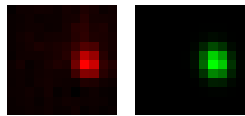
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
R^2 = 0.961

Parameters:
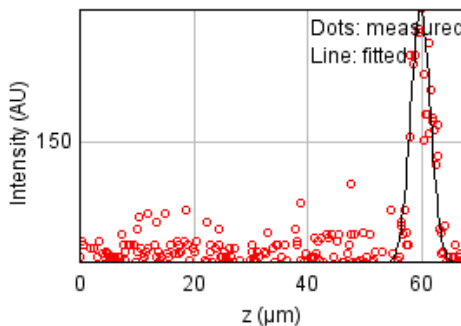A = 422.356   (brightness)
B = 123.089   (background)
a = 0.577 px
b = -0.040 px
c = 0.428 px

xc = 8.279 px
yc = 5.761 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19062.9482
Standard deviation: 7.87999
R^2: 0.80830
Parameters:
a = 112.19126
b = 191.96364
c = 59.80339
d = 1.72305

Bead 3675

Date : Mon Oct 17 13:54:39 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
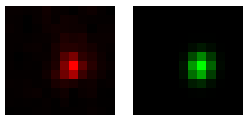Frame size : 12 pixels

Coordinates : -97.3 um (x), -91.7 um (y), 60.4 um (z)
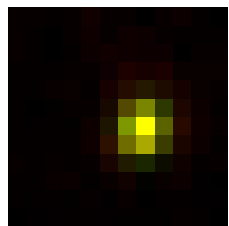Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	425 nm	443 nm	270 nm
max	506 nm	527 nm	270 nm
z	1.96 um	1.97 um	1.3 um
Asymmetry	0.84		
Theta	78.5°		

XY profile & fitting parameters :

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

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

Parameters:
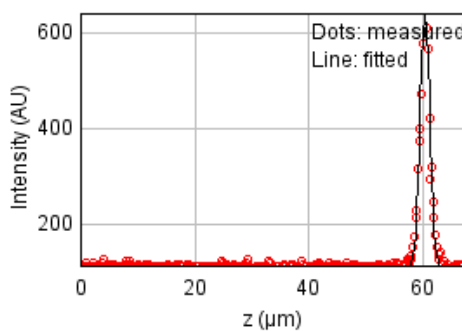 A = 543.727   (brightness)
 B = 124.127   (background)
 a = 0.734 px
 b = 0.043 px
 c = 0.532 px

xc = 6.848 px
yc = 6.122 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 35366.7588
Standard deviation: 10.73318
R^2: 0.98055
Parameters:
 a = 114.01926
 b = 641.51453
 c = 60.40794
 d = 0.83144

Bead 3676 (Rejected)

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

Coordinates : 94.2 um (x), -92.2 um (y), 56.6 um (z)
Corresponding bead : Not found
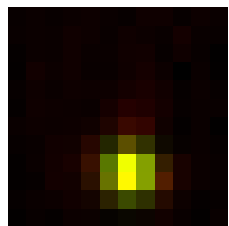Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	467 nm	486 nm	270 nm
max	476 nm	496 nm	270 nm
z	3.65 um	3.66 um	1.3 um
Asymmetry	0.981		
Theta	-60.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
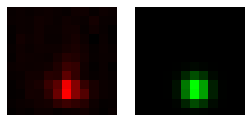
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.921$

Parameters:
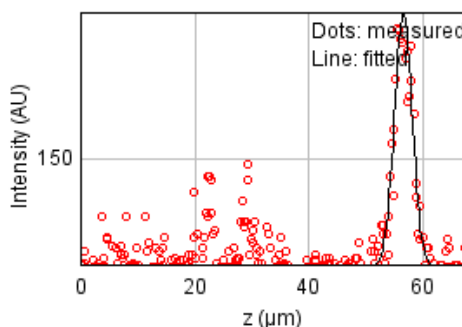 A = 466.614   (brightness)
 B = 122.163   (background)
 a = 0.610 px
 b = -0.010 px
 c = 0.598 px

xc = 6.126 px
yc = 8.483 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 22837.9865
Standard deviation: 8.62501
R^2: 0.78284
Parameters:
 a = 114.12888
 b = 198.85894
 c = 56.62101
 d = 1.54891

Bead 3677 (Rejected)

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

Coordinates : 112 um (x), 73.8 um (y), 57.2 um (z)
Corresponding bead : Not found
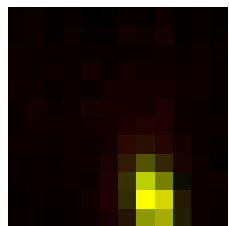Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	366 nm	381 nm	270 nm
max	642 nm	669 nm	270 nm
z	3.27 um	3.29 um	1.3 um
Asymmetry	0.57		
Theta	-76.2°		

XY profile & fitting parameters :

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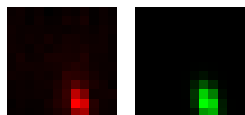
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.967$

Parameters:
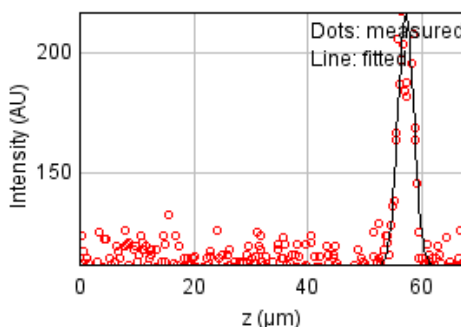 A = 558.942   (brightness)
 B = 126.211   (background)
 a = 0.964 px
 b = -0.157 px
 c = 0.364 px

 xc = 7.399 px
 yc = 9.953 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19470.0766
Standard deviation: 7.96370
R^2: 0.85270
Parameters:
 a = 112.08714
 b = 216.25831
 c = 57.23355
 d = 1.39031

Bead 3678

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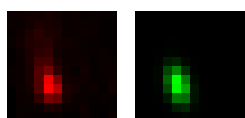Frame size : 12 pixels

Coordinates : 158 um (x), 67.3 um (y), 57.1 um (z)
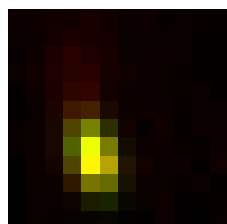Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	388 nm	404 nm	270 nm
max	660 nm	688 nm	270 nm
z	1.94 um	1.94 um	1.3 um
Asymmetry	0.588		
Theta	-73.6°		

XY profile & fitting parameters :

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

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

Parameters:
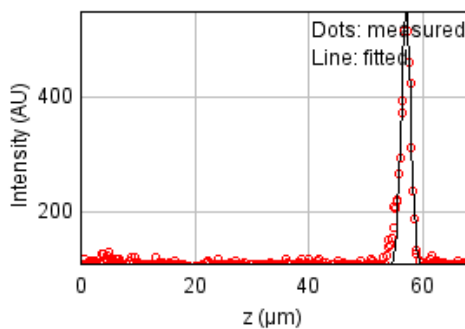 A = 544.910 (brightness)
 B = 123.085 (background)
 a = 0.845 px
 b = -0.158 px
 c = 0.354 px

xc = 4.167 px
yc = 7.527 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 47025.1031
Standard deviation: 12.37644
R^2: 0.96267
Parameters:
 a = 111.66435
 b = 549.08080
 c = 57.09060
 d = 0.82194

Bead 3679

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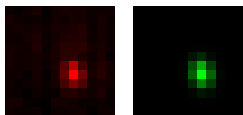Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -161 um (x), 40.8 um (y), 59.7 um (z)
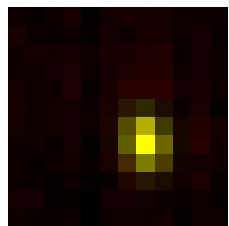Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	372 nm	388 nm	270 nm
max	505 nm	526 nm	270 nm
z	1.83 um	1.84 um	1.3 um
Asymmetry	0.737		
Theta	-79.0°		

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 = 0.932

Parameters:
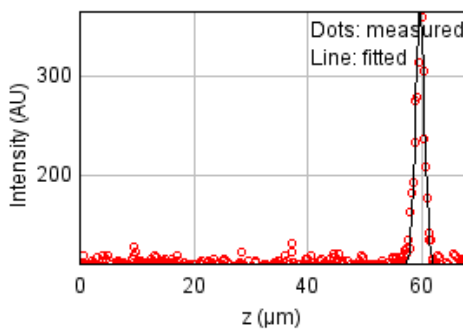A = 265.686   (brightness)
B = 114.879   (background)
a = 0.953 px
b = -0.083 px
c = 0.543 px

xc = 7.009 px
yc = 6.856 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 16199.0747
Standard deviation: 7.26400
R^2: 0.96033
Parameters:
a = 111.06741
b = 366.51910
c = 59.69925
d = 0.77760

Bead 3680 (Rejected)

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

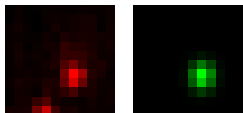Coordinates : -157 um (x), 5.33 um (y), 60.2 um (z)
Corresponding bead : Not found
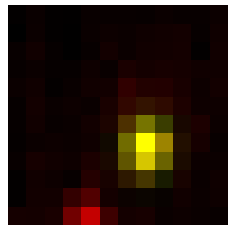Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	419 nm	437 nm	270 nm
max	509 nm	530 nm	270 nm
z	1.93 um	1.93 um	1.3 um
Asymmetry	0.824		
Theta	87.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.710$

Parameters:
 A = 394.210   (brightness)
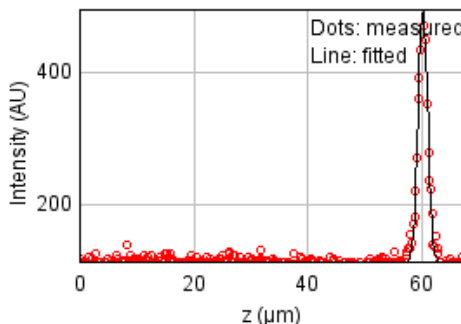 B = 129.603   (background)
 a = 0.762 px
 b = 0.012 px
 c = 0.519 px

xc = 7.063 px
yc = 7.254 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 22496.4614
Standard deviation: 8.56028
R^2: 0.97661
Parameters:
 a = 111.19493
 b = 497.13300
 c = 60.21510
 d = 0.81754

Bead 3681

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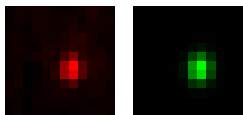Frame size : 12 pixels

Coordinates : -156 um (x), -6.13 um (y), 60.4 um (z)
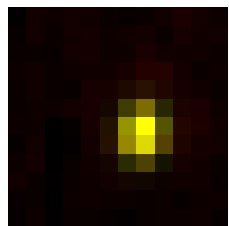Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	402 nm	419 nm	270 nm
max	516 nm	537 nm	270 nm
z	1.86 um	1.87 um	1.3 um
Asymmetry	0.779		
Theta	84.2°		

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 = 420.124   (brightness)
 B = 118.984   (background)
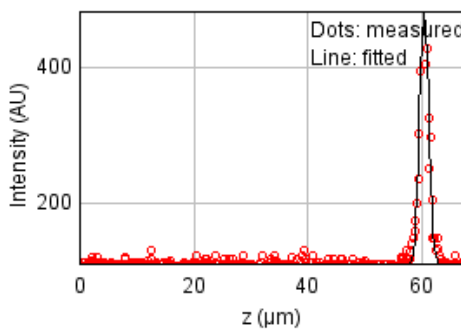 a = 0.828 px
 b = 0.033 px
 c = 0.507 px

xc = 6.810 px
yc = 6.347 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 30417.7095
Standard deviation: 9.95392
R^2: 0.96534
Parameters:
 a = 111.10674
 b = 483.65410
 c = 60.43463
 d = 0.79042

Bead 3682

Date : Mon Oct 17 13:54:41 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
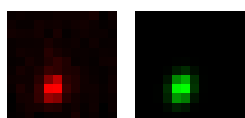Frame size : 12 pixels

Coordinates : -134 um (x), -6.69 um (y), 57.1 um (z)
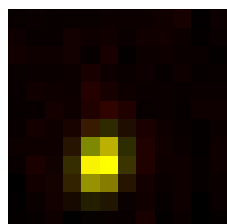Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	396 nm	412 nm	270 nm
max	517 nm	539 nm	270 nm
z	2.16 um	2.17 um	1.3 um
Asymmetry	0.765		
Theta	71.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.963$

Parameters:
A = 381.456   (brightness)
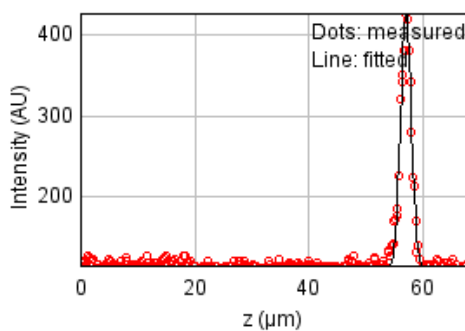B = 118.696   (background)
a = 0.819 px
b = 0.108 px
c = 0.538 px

xc = 4.541 px
yc = 7.930 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19220.8203
Standard deviation: 7.91256
R^2: 0.97335
Parameters:
 a = 112.96371
 b = 429.03864
 c = 57.08396
 d = 0.91611

Bead 3683

Date : Mon Oct 17 13:54:41 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
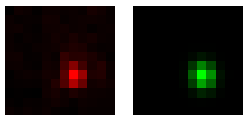Frame size : 12 pixels

Coordinates : -144 um (x), -15.1 um (y), 60.6 um (z)
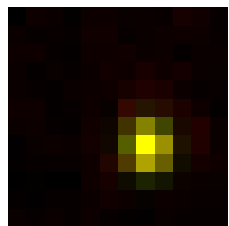Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	431 nm	270 nm
max	489 nm	509 nm	270 nm
z	1.98 um	1.99 um	1.3 um
Asymmetry	0.846		
Theta	-84.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 401.596   (brightness)
 B = 118.989   (background)
 a = 0.781 px
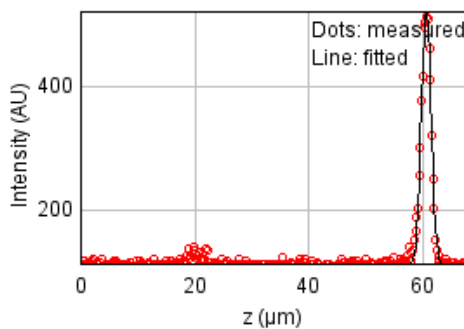 b = -0.022 px
 c = 0.563 px

  xc = 7.137 px
  yc = 7.105 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 22680.9920
Standard deviation: 8.59532
R^2: 0.97962
Parameters:
 a = 112.77171
 b = 522.76866
 c = 60.63432
 d = 0.84221

Bead 3684

Date : Mon Oct 17 13:54:41 PDT 2022
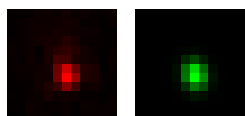Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -120 um (x), -17.9 um (y), 60.4 um (z)
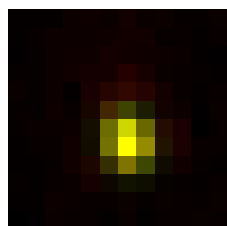Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	432 nm	450 nm	270 nm
max	534 nm	556 nm	270 nm
z	2.18 um	2.19 um	1.3 um
Asymmetry	0.808		
Theta	-74.9°		

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 = 0.953

Parameters:
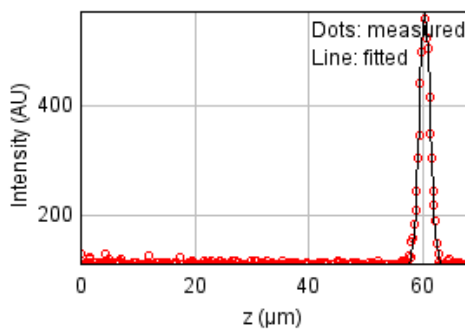A = 477.002   (brightness)
B = 122.623   (background)
a = 0.702 px
b = -0.063 px
c = 0.487 px

xc = 6.041 px
yc = 6.688 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 15270.8246
Standard deviation: 7.05281
R^2: 0.99002
Parameters:
a = 111.68729
b = 573.73097
c = 60.37140
d = 0.92514

Bead 3685

Date : Mon Oct 17 13:54:41 PDT 2022
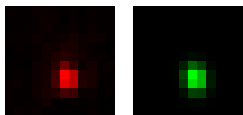Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -155 um (x), -21.3 um (y), 60.8 um (z)
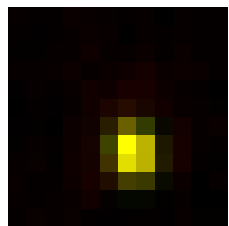Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	396 nm	412 nm	270 nm
max	497 nm	518 nm	270 nm
z	1.99 um	1.99 um	1.3 um
Asymmetry	0.797		
Theta	-77.3°		

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:
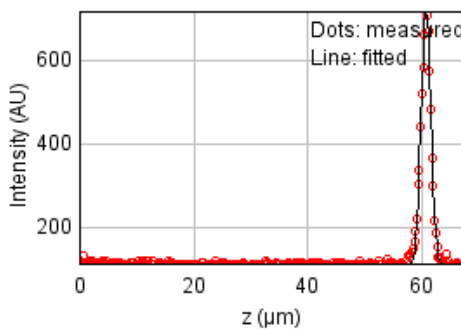 A = 763.238   (brightness)
 B = 126.825   (background)
 a = 0.841 px
 b = -0.067 px
 c = 0.558 px

xc = 6.322 px
yc = 7.412 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 22179.4992
Standard deviation: 8.49976
R^2: 0.99081
Parameters:
 a = 111.72784
 b = 718.50426
 c = 60.76587
 d = 0.84297

Bead 3686 (Rejected)

Date : Mon Oct 17 13:54:41 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 84.1 um (x), -21.7 um (y), 59.6 um (z)
Corresponding bead : Not found
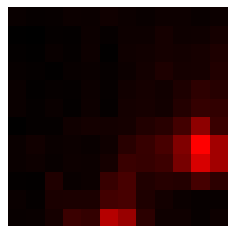Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	2.18 um	2.27 um	270 nm
max	6.08 um	6.33 um	270 nm
z	3.81 um	3.83 um	1.3 um
Asymmetry	0.359		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
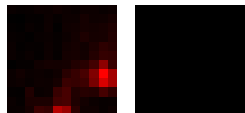
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.340$

Parameters:
 A = -119.728   (brightness)
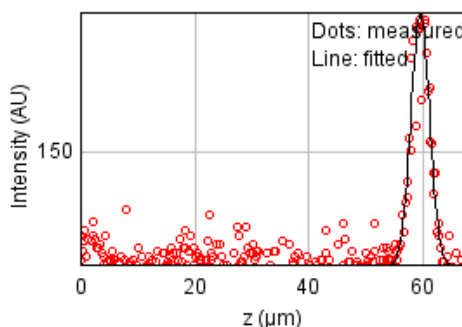 B = 231.510   (background)
 a = 0.013 px
 b = 0.016 px
 c = 0.012 px

xc = 3.234 px
yc = 2.304 px

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 3687

Date : Mon Oct 17 13:54:41 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
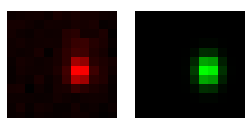Frame size : 12 pixels

Coordinates : -111 um (x), -25.9 um (y), 60.3 um (z)
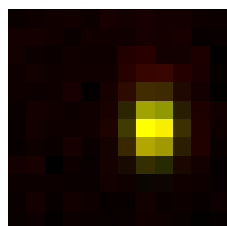Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	417 nm	435 nm	270 nm
max	554 nm	577 nm	270 nm
z	2.31 um	2.32 um	1.3 um
Asymmetry	0.753		
Theta	89.4°		

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
  $R^2 = 0.950$

Parameters:
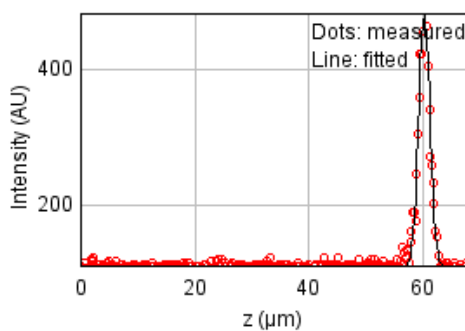 A = 432.253   (brightness)
 B = 120.968   (background)
 a = 0.770 px
 b = 0.003 px
 c = 0.437 px

xc = 7.454 px
yc = 6.007 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 18685.1450
Standard deviation: 7.80152
R^2: 0.98193
Parameters:
 a = 112.23634
 b = 479.90166
 c = 60.28514
 d = 0.98308

Bead 3688 (Rejected)

Date : Mon Oct 17 13:54:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

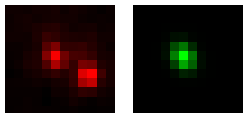Coordinates : -137 um (x), -36.7 um (y), 60.9 um (z)
Corresponding bead : Not found
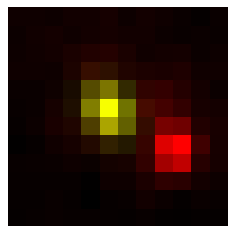Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	401 nm	418 nm	270 nm
max	503 nm	523 nm	270 nm
z	1.95 um	1.96 um	1.3 um
Asymmetry	0.799		
Theta	-59.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.367$

Parameters:
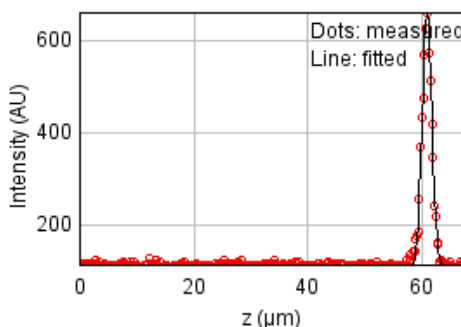 A = 497.701   (brightness)
 B = 154.251   (background)
 a = 0.756 px
 b = -0.131 px
 c = 0.608 px

xc = 4.994 px
yc = 5.139 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19913.5776
Standard deviation: 8.05389
R^2: 0.98972
Parameters:
 a = 111.95036
 b = 659.44617
 c = 60.94854
 d = 0.83012

Bead 3689

Date : Mon Oct 17 13:54:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
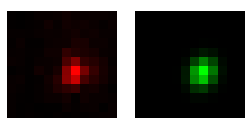Frame size : 12 pixels

Coordinates : -147 um (x), -37.1 um (y), 61.1 um (z)
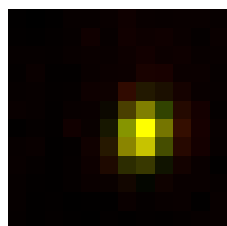Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	441 nm	460 nm	270 nm
max	542 nm	565 nm	270 nm
z	1.91 um	1.92 um	1.3 um
Asymmetry	0.814		
Theta	69.4°		

XY profile & fitting parameters :

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

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

Parameters:
A = 641.629   (brightness)
B = 120.760   (background)
a = 0.660 px
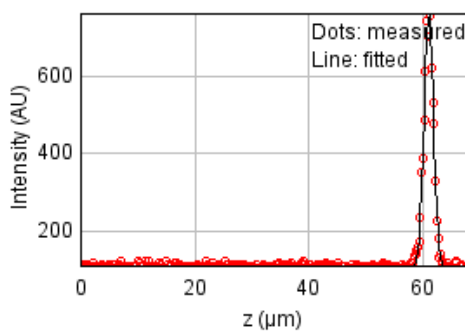b = 0.077 px
c = 0.485 px

xc = 6.881 px
yc = 6.240 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25498.0225
Standard deviation: 9.11348
R^2: 0.99050
Parameters:
a = 111.51963
b = 762.94497
c = 61.07896
d = 0.81175

Bead 3690

Date : Mon Oct 17 13:54:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
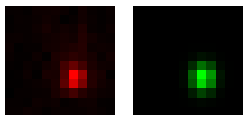Frame size : 12 pixels

Coordinates : -105 um (x), -39.1 um (y), 60.6 um (z)
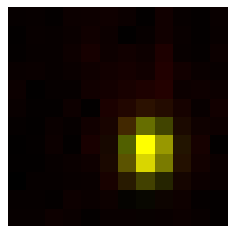Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	423 nm	441 nm	270 nm
max	514 nm	535 nm	270 nm
z	2.05 um	2.06 um	1.3 um
Asymmetry	0.823		
Theta	85.7°		

XY profile & fitting parameters :

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

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

Parameters:
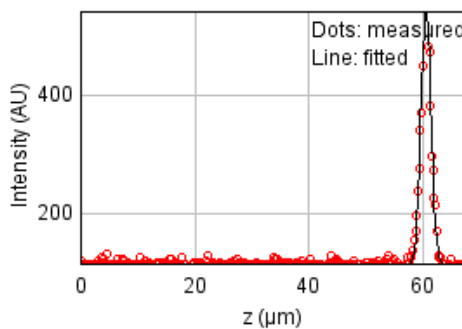 A = 462.677   (brightness)
 B = 124.233   (background)
 a = 0.748 px
 b = 0.018 px
 c = 0.510 px

 xc = 7.146 px
 yc = 7.322 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18610.8331
Standard deviation: 7.78599
R^2: 0.98516
Parameters:
 a = 113.13867
 b = 542.48010
 c = 60.58927
 d = 0.87192

Bead 3691 (Rejected)

Date : Mon Oct 17 13:54:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 63.3 um (x), -41.1 um (y), 56.9 um (z)
Corresponding bead : Not found
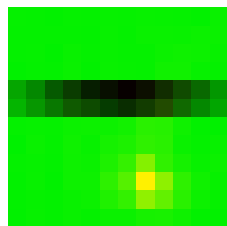Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	142 nm	148 nm	270 nm
max	1.97 um	2.05 um	270 nm
z	3.35 um	3.37 um	1.3 um
Asymmetry	0.072		
Theta	0.0°		

XY profile & fitting parameters :

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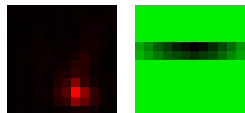
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.056$

Parameters:
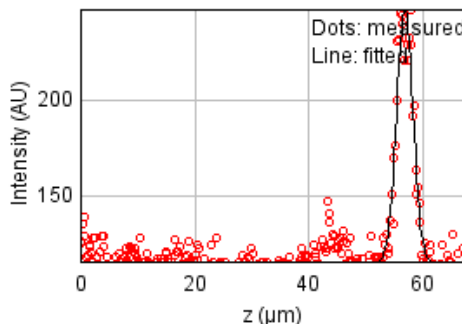 A = -74.366   (brightness)
 B = 153.779   (background)
 a = -0.035 px
 b = -0.000 px
 c = 6.689 px
xc = 5.797 px
yc = 4.483 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 22536.5977
Standard deviation: 8.56791
R^2: 0.89439
Parameters:
 a = 114.60197
 b = 248.65196
 c = 56.88460
 d = 1.42444

Bead 3692

Date : Mon Oct 17 13:54:42 PDT 2022
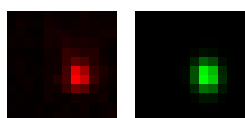Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -109 um (x), -46.9 um (y), 60.8 um (z)
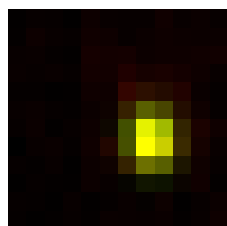Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	443 nm	461 nm	270 nm
max	555 nm	578 nm	270 nm
z	2.04 um	2.05 um	1.3 um
Asymmetry	0.798		
Theta	-84.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.958$

Parameters:
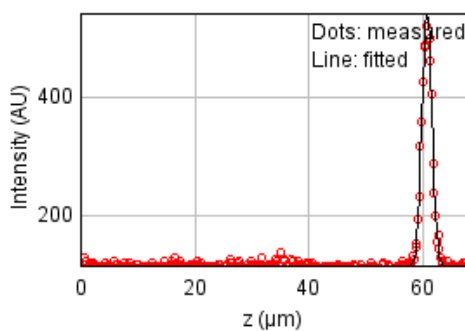A = 495.626   (brightness)
B = 121.572   (background)
a = 0.682 px
b = -0.024 px
c = 0.439 px

xc = 7.330 px
yc = 6.582 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 16672.1921
Standard deviation: 7.36932
R^2: 0.98660
Parameters:
a = 113.30837
b = 542.16986
c = 60.75798
d = 0.86773

Bead 3693

Date : Mon Oct 17 13:54:42 PDT 2022
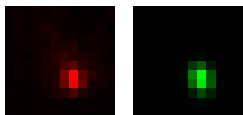Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -56.1 um (x), -49.0 um (y), 60.6 um (z)
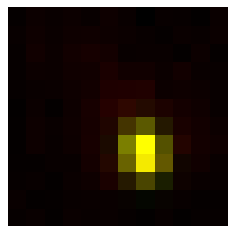Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	378 nm	394 nm	270 nm
max	493 nm	514 nm	270 nm
z	1.77 um	1.78 um	1.3 um
Asymmetry	0.766		
Theta	-77.9°		

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 = 0.950

Parameters:
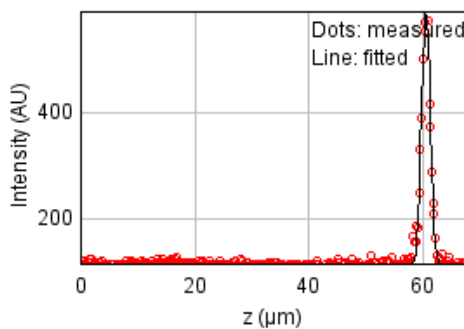 A = 503.587   (brightness)
 B = 122.978   (background)
 a = 0.923 px
 b = -0.080 px
 c = 0.569 px

xc = 6.916 px
yc = 7.411 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 22820.4310
Standard deviation: 8.62170
R^2: 0.98330
Parameters:
 a = 113.53600
 b = 593.96818
 c = 60.56795
 d = 0.75228

Bead 3694 (Rejected)

Date : Mon Oct 17 13:54:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 52.6 um (x), -55.5 um (y), 56.9 um (z)
Corresponding bead : Not found
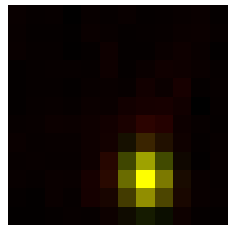Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	408 nm	425 nm	270 nm
max	506 nm	527 nm	270 nm
z	3.99 um	4.01 um	1.3 um
Asymmetry	0.807		
Theta	-87.7°		

XY profile & fitting parameters :

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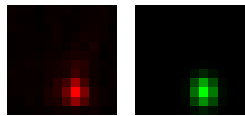
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.951$

Parameters:
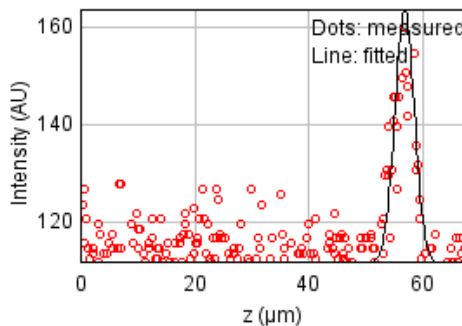 A = 692.320   (brightness)
 B = 125.113   (background)
 a = 0.806 px
 b = -0.011 px
 c = 0.525 px

xc = 7.033 px
yc = 8.939 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15210.4639
Standard deviation: 7.03886
R^2: 0.68595
Parameters:
 a = 111.95851
 b = 163.62808
 c = 56.85447
 d = 1.69486

Bead 3695

Date : Mon Oct 17 13:54:42 PDT 2022
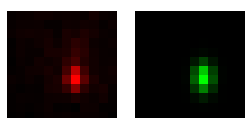Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -13.9 um (x), -56.6 um (y), 60.2 um (z)
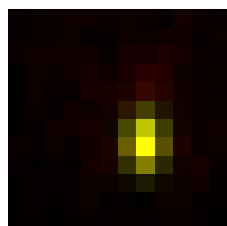Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	351 nm	366 nm	270 nm
max	535 nm	558 nm	270 nm
z	1.93 um	1.94 um	1.3 um
Asymmetry	0.656		
Theta	-90.0°		

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 = 0.936

Parameters:
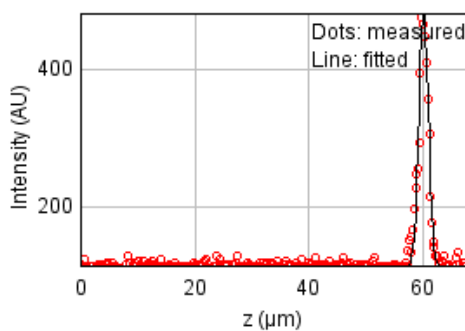 A = 396.850   (brightness)
 B = 122.305   (background)
 a = 1.087 px
 b = -0.000 px
 c = 0.468 px

xc = 6.960 px
yc = 6.764 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 25252.3133
Standard deviation: 9.06946
R^2: 0.97163
Parameters:
 a = 113.43952
 b = 483.49758
 c = 60.17983
 d = 0.81887

Bead 3696

Date : Mon Oct 17 13:54:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
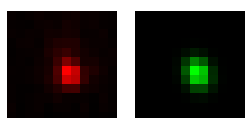Frame size : 12 pixels

Coordinates : -117 um (x), -66.6 um (y), 61.1 um (z)
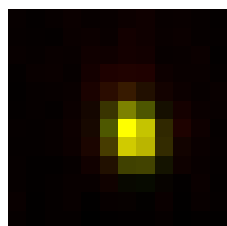Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	441 nm	459 nm	270 nm
max	558 nm	581 nm	270 nm
z	2.26 um	2.27 um	1.3 um
Asymmetry	0.791		
Theta	-72.1°		

XY profile & fitting parameters :

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

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

Parameters:
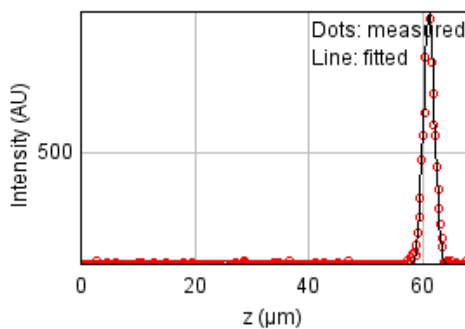A = 960.273   (brightness)
B = 131.401   (background)
a = 0.665 px
b = -0.076 px
c = 0.456 px

xc = 6.334 px
yc = 6.300 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 55226.1724
Standard deviation: 13.41230
R^2: 0.99032
Parameters:
a = 112.99820
b = 990.76881
c = 61.11162
d = 0.95805

Bead 3697

Date : Mon Oct 17 13:54:42 PDT 2022
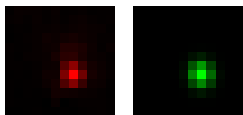Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -58.8 um (x), -70.9 um (y), 60.9 um (z)
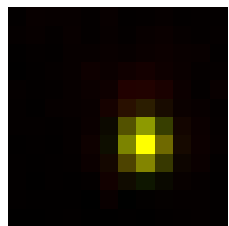Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	433 nm	270 nm
max	482 nm	502 nm	270 nm
z	1.92 um	1.93 um	1.3 um
Asymmetry	0.863		
Theta	-86.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 949.697   (brightness)
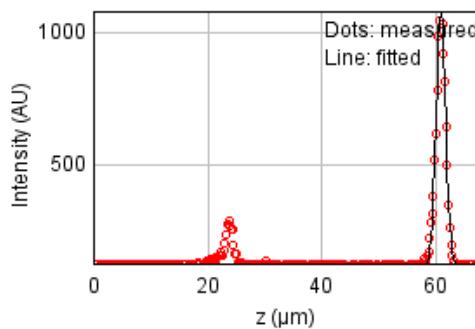 B = 130.441   (background)
 a = 0.776 px
 b = -0.013 px
 c = 0.580 px

xc = 6.928 px
yc = 6.935 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 192688.991
Standard deviation: 25.05297
R^2: 0.96799
Parameters:
 a = 120.37820
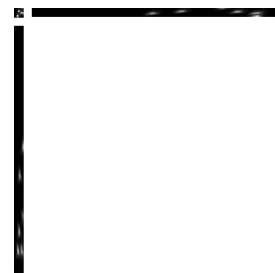 b = 1082.52645
 c = 60.92084
 d = 0.81601

Bead 3698

Date : Mon Oct 17 13:54:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

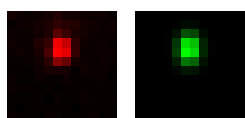Coordinates : -54.9 um (x), -75.7 um (y), 55.7 um (z)
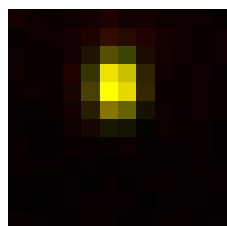Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	431 nm	270 nm
max	545 nm	567 nm	270 nm
z	2.21 um	2.22 um	1.3 um
Asymmetry	0.761		
Theta	88.8°		

XY profile & fitting parameters :

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

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

Parameters:
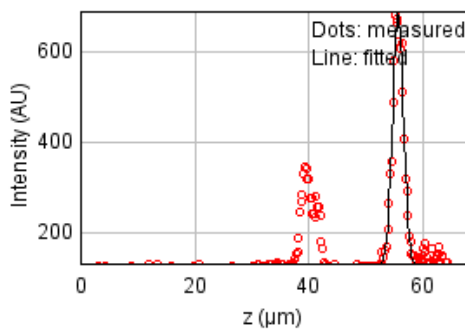A = 666.895   (brightness)
B = 122.868   (background)
a = 0.782 px
b = 0.007 px
c = 0.453 px

xc = 5.395 px
yc = 3.636 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 502622.607
Standard deviation: 40.46242
R^2: 0.81620
Parameters:
 a = 129.34087
 b = 686.92695
 c = 55.68037
 d = 0.93704

Bead 3699

Date : Mon Oct 17 13:54:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
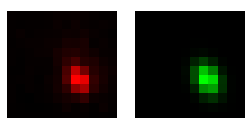Frame size : 12 pixels

Coordinates : -77.8 um (x), -82.8 um (y), 61.1 um (z)
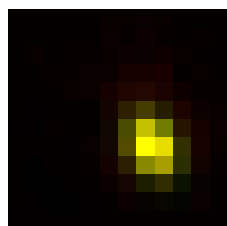Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	421 nm	438 nm	270 nm
max	594 nm	619 nm	270 nm
z	2.22 um	2.23 um	1.3 um
Asymmetry	0.708		
Theta	-64.7°		

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:
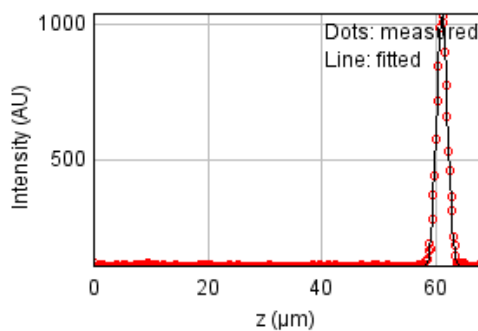A = 1011.571   (brightness)
B = 127.319   (background)
a = 0.689 px
b = -0.147 px
c = 0.450 px

xc = 7.375 px
yc = 6.929 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 27427.9333
Standard deviation: 9.45208
R^2: 0.99557
Parameters:
a = 112.52358
b = 1036.48869
c = 61.12614
d = 0.94332

Bead 3700

Date : Mon Oct 17 13:54:42 PDT 2022
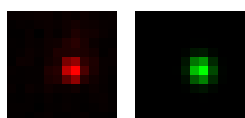Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -19.9 um (x), -85.5 um (y), 60.9 um (z)
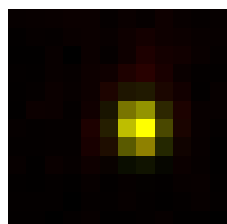Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	413 nm	430 nm	270 nm
max	469 nm	488 nm	270 nm
z	2.01 um	2.02 um	1.3 um
Asymmetry	0.881		
Theta	-79.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 663.617   (brightness)
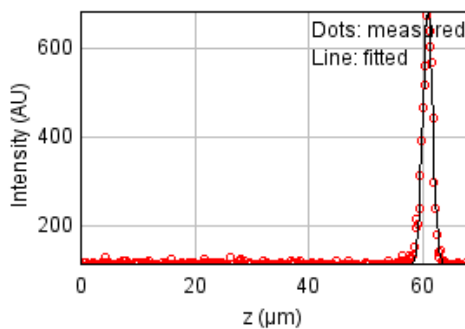 B = 123.844   (background)
 a = 0.780 px
 b = -0.032 px
 c = 0.616 px

xc = 6.687 px
yc = 5.927 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 36997.6370
Standard deviation: 10.97786
R^2: 0.98299
Parameters:
 a = 113.27813
 b = 683.74451
 c = 60.88919
 d = 0.85347