Bead 1401

Date : Mon Oct 17 13:29:02 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
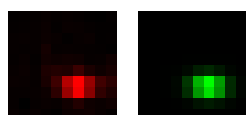

Coordinates : 145 um (x), 33.1 um (y), 30.9 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	366 nm	379 nm	223 nm
max	564 nm	583 nm	223 nm
z	1.85 um	1.86 um	885 nm
Asymmetry	0.65		
Theta	-2.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 611.979   (brightness)
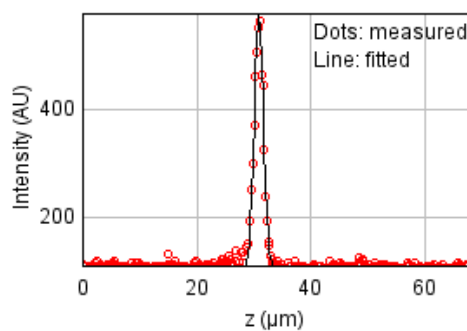 B = 117.439   (background)
 a = 0.423 px
 b = -0.022 px
 c = 0.999 px

 xc = 5.940 px
 yc = 6.440 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 23668.3950
Standard deviation: 8.78042
R^2: 0.98254
Parameters:
 a = 111.33904
 b = 579.39922
 c = 30.94974
 d = 0.78710

Bead 1402

Date : Mon Oct 17 13:29:02 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
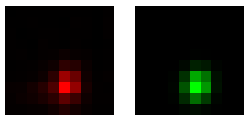Frame size : 10 pixels

Coordinates : -42.4 um (x), 22.3 um (y), 31.7 um (z)
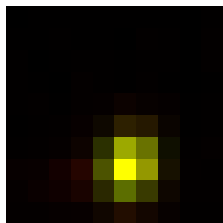Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	399 nm	412 nm	223 nm
max	469 nm	485 nm	223 nm
z	1.12 um	1.13 um	885 nm
Asymmetry	0.851		
Theta	73.6°		

XY profile & fitting parameters :

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

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

Parameters:
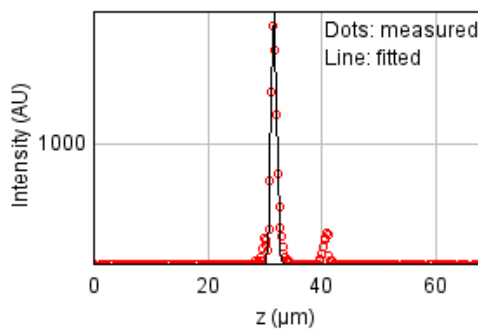 A = 1896.687   (brightness)
 B = 134.807   (background)
 a = 0.824 px
 b = 0.063 px
 c = 0.629 px

xc = 5.200 px
yc = 6.808 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 489203.163
Standard deviation: 39.91861
R^2: 0.96331
Parameters:
 a = 123.29573
 b = 1975.19176
 c = 31.67215
 d = 0.47682

Bead 1403 (Rejected)

Date : Mon Oct 17 13:29:02 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 163 um (x), -8.04 um (y), 29.8 um (z)
Corresponding bead : Not found
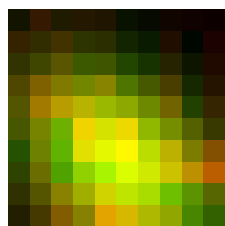Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	1.32 um	1.36 um	223 nm
max	1.92 um	1.99 um	223 nm
z	1.59 um	1.6 um	885 nm
Asymmetry	0.687		
Theta	-43.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
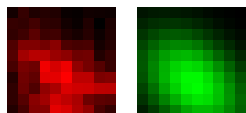
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.822$

Parameters:
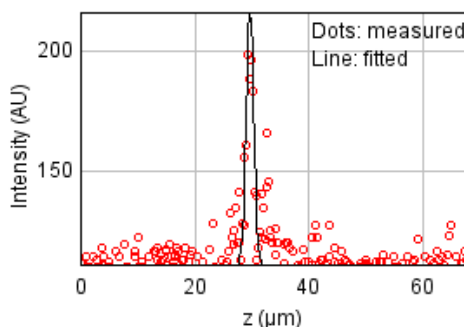A = 104.203   (brightness)
B = 103.667   (background)
a = 0.055 px
b = -0.020 px
c = 0.058 px

xc = 4.658 px
yc = 6.530 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 24373.1695
Standard deviation: 8.91019
R^2: 0.70408
Parameters:
a = 111.11153
b = 216.12051
c = 29.75025
d = 0.67671

Bead 1404

Date : Mon Oct 17 13:29:02 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
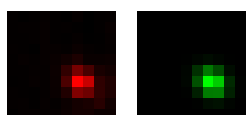Frame size : 10 pixels

Coordinates : 55.3 um (x), -16.3 um (y), 31.6 um (z)
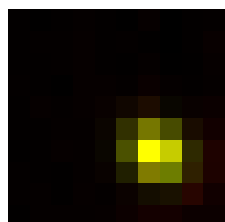Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	400 nm	413 nm	223 nm
max	476 nm	492 nm	223 nm
z	1.59 um	1.6 um	885 nm
Asymmetry	0.841		
Theta	-38.0°		

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:
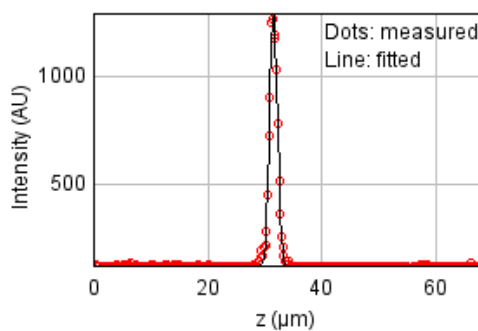 A = 1134.335   (brightness)
 B = 124.626   (background)
 a = 0.687 px
 b = -0.120 px
 c = 0.746 px

 xc = 6.346 px
 yc = 6.065 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 52272.7228
Standard deviation: 13.04873
R^2: 0.99301
Parameters:
 a = 114.23190
 b = 1304.37792
 c = 31.59767
 d = 0.67481

Bead 1405

Date : Mon Oct 17 13:29:02 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
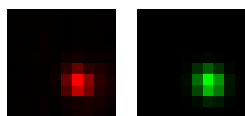Frame size : 10 pixels

Coordinates : 88.0 um (x), -19.6 um (y), 31.4 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	423 nm	437 nm	223 nm
max	458 nm	474 nm	223 nm
z	1.25 um	1.25 um	885 nm
Asymmetry	0.922		
Theta	-48.7°		

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
  $R^2 = 0.979$

Parameters:
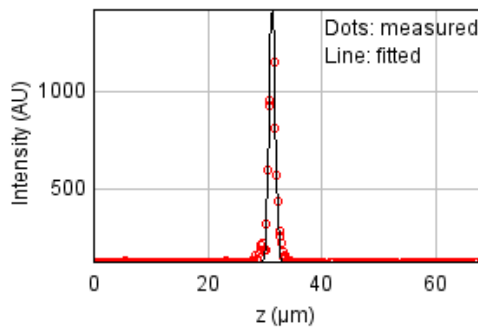 A = 1485.236   (brightness)
 B = 126.725   (background)
 a = 0.703 px
 b = -0.056 px
 c = 0.688 px

xc = 6.131 px
yc = 6.273 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 186730.543
Standard deviation: 24.66258
R^2: 0.97539
Parameters:
 a = 115.21151
 b = 1451.51089
 c = 31.36362
 d = 0.52910

Bead 1406

Date : Mon Oct 17 13:29:02 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
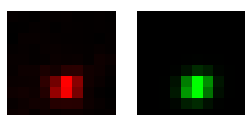Frame size : 10 pixels

Coordinates : -134 um (x), -33.8 um (y), 30.5 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	379 nm	392 nm	223 nm
max	465 nm	480 nm	223 nm
z	1.29 um	1.29 um	885 nm
Asymmetry	0.817		
Theta	19.7°		

XY profile & fitting parameters :

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

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

Parameters:
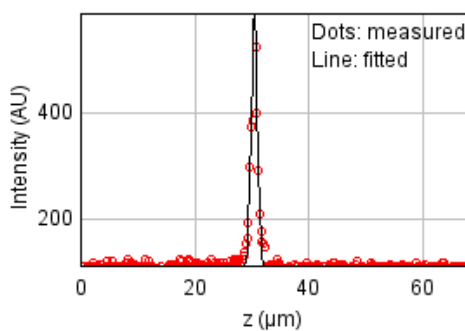 A = 617.248   (brightness)
 B = 116.321   (background)
 a = 0.657 px
 b = 0.098 px
 c = 0.897 px

xc = 4.971 px
yc = 6.500 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 35477.6673
Standard deviation: 10.75000
R^2: 0.96442
Parameters:
 a = 112.84180
 b = 586.91852
 c = 30.51704
 d = 0.54665

Bead 1407

Date : Mon Oct 17 13:29:02 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
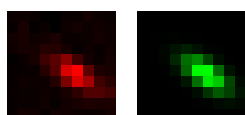Frame size : 10 pixels

Coordinates : 155 um (x), -59.7 um (y), 30.3 um (z)
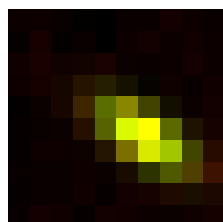Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	373 nm	385 nm	223 nm
max	818 nm	846 nm	223 nm
z	1.76 um	1.77 um	885 nm
Asymmetry	0.456		
Theta	-34.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 289.579   (brightness)
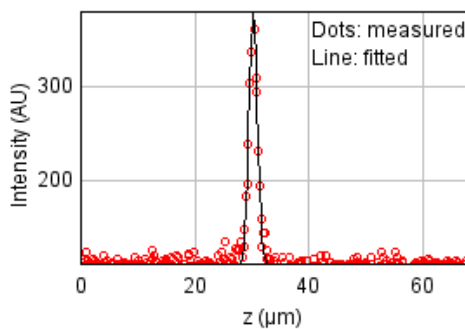 B = 114.380   (background)
 a = 0.450 px
 b = -0.358 px
 c = 0.716 px

xc = 5.786 px
yc = 5.327 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 14619.2487
Standard deviation: 6.90070
R^2: 0.96659
Parameters:
 a = 109.92839
 b = 380.43672
 c = 30.32185
 d = 0.74658

Bead 1408 (Rejected)

Date : Mon Oct 17 13:29:02 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -132 um (x), -85.3 um (y), 10.4 um (z)
Corresponding bead : Not found
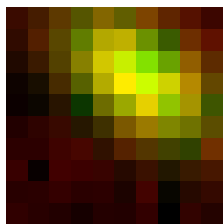Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	800 nm	827 nm	223 nm
max	1.36 um	1.41 um	223 nm
z	3.55 um	3.57 um	885 nm
Asymmetry	0.588		
Theta	-37.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
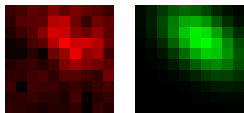
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.813$

Parameters:
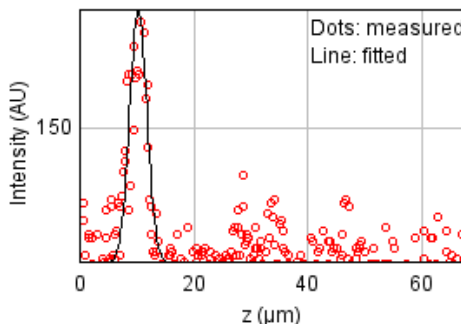 A = 90.018   (brightness)
 B = 119.953   (background)
 a = 0.123 px
 b = -0.066 px
 c = 0.159 px

xc = 5.628 px
yc = 2.724 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 22725.7611
Standard deviation: 8.60379
R^2: 0.72364
Parameters:
 a = 111.52526
 b = 184.43052
 c = 10.35976
 d = 1.50869

Bead 1409

Date : Mon Oct 17 13:29:03 PDT 2022
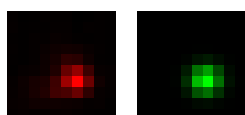Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -68.9 um (x), 63.2 um (y), 32.3 um (z)
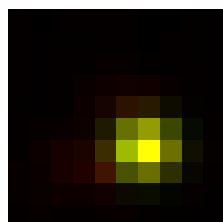Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	449 nm	464 nm	223 nm
max	488 nm	504 nm	223 nm
z	1.51 um	1.51 um	885 nm
Asymmetry	0.92		
Theta	5.9°		

XY profile & fitting parameters :

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

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

Parameters:
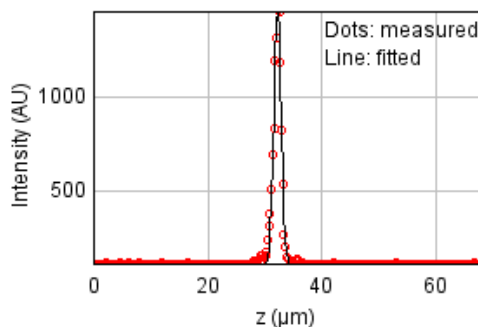 A = 1279.228   (brightness)
 B = 133.732   (background)
 a = 0.565 px
 b = 0.010 px
 c = 0.666 px

xc = 5.775 px
yc = 5.868 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 116831.369
Standard deviation: 19.50790
R^2: 0.98699
Parameters:
 a = 115.53178
 b = 1450.03057
 c = 32.30160
 d = 0.63915

Bead 1410

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
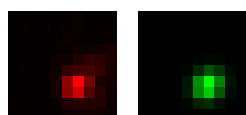Frame size : 10 pixels

Coordinates : 91.7 um (x), 44.8 um (y), 31.6 um (z)
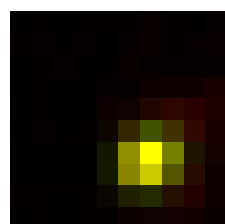Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	423 nm	437 nm	223 nm
max	484 nm	501 nm	223 nm
z	1.4 um	1.41 um	885 nm
Asymmetry	0.874		
Theta	36.3°		

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 = 0.944

Parameters:
 A = 790.350   (brightness)
 B = 124.187   (background)
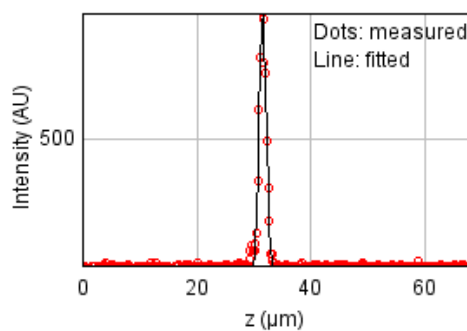 a = 0.634 px
 b = 0.085 px
 c = 0.687 px

xc = 5.920 px
yc = 6.340 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 36908.9885
Standard deviation: 10.96470
R^2: 0.98698
Parameters:
 a = 112.93177
 b = 888.35094
 c = 31.63405
 d = 0.59638

Bead 1411

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
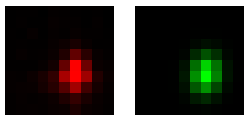Frame size : 10 pixels

Coordinates : -24.2 um (x), 41.6 um (y), 31.9 um (z)
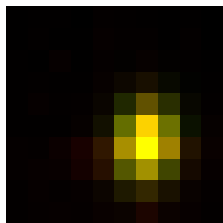Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	459 nm	474 nm	223 nm
max	597 nm	617 nm	223 nm
z	1.35 um	1.36 um	885 nm
Asymmetry	0.768		
Theta	82.8°		

XY profile & fitting parameters :

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

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

Parameters:
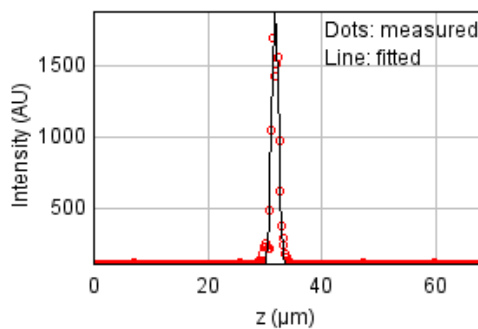 A = 1434.154   (brightness)
 B = 125.305   (background)
 a = 0.633 px
 b = 0.033 px
 c = 0.380 px

xc = 5.970 px
yc = 5.760 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 698070.725
Standard deviation: 47.68486
R^2: 0.95251
Parameters:
 a = 116.97998
 b = 1882.86450
 c = 31.86388
 d = 0.57461

Bead 1412 (Rejected)

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

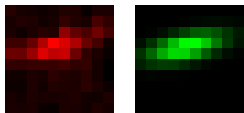Coordinates : -154 um (x), 17.7 um (y), 5.41 um (z)
Corresponding bead : Not found
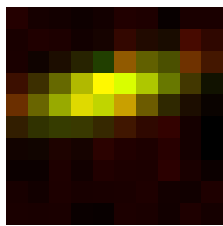Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	413 nm	427 nm	223 nm
max	1.18 um	1.22 um	223 nm
z	2.08 um	2.09 um	885 nm
Asymmetry	0.349		
Theta	13.4°		

XY profile & fitting parameters :

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

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

Parameters:
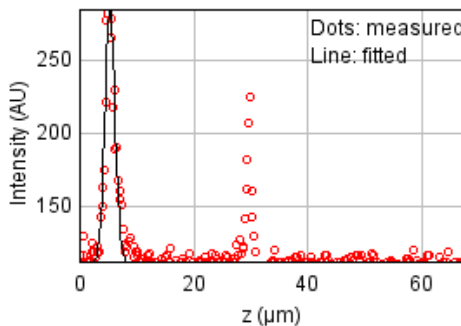A = 168.988   (brightness)
B = 112.542   (background)
a = 0.133 px
b = 0.156 px
c = 0.749 px

xc = 4.170 px
yc = 3.365 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 51865.0400
Standard deviation: 12.99775
R^2: 0.79620
Parameters:
a = 112.18393
b = 284.82741
c = 5.40968
d = 0.88475

Bead 1413

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
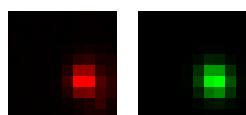Frame size : 10 pixels

Coordinates : 65.2 um (x), -1.52 um (y), 32.0 um (z)
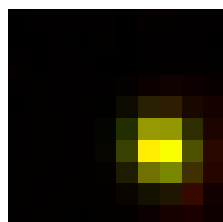Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	457 nm	472 nm	223 nm
max	497 nm	513 nm	223 nm
z	1.82 um	1.83 um	885 nm
Asymmetry	0.92		
Theta	-53.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.963$

Parameters:
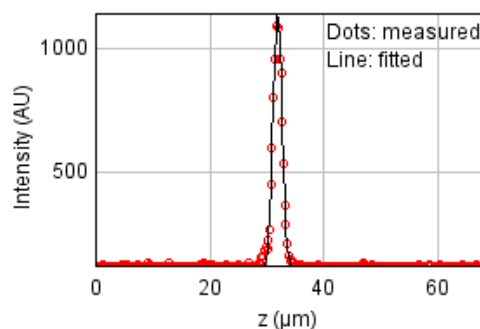A = 1179.465   (brightness)
B = 125.418   (background)
a = 0.608 px
b = -0.047 px
c = 0.579 px

xc = 6.561 px
yc = 5.912 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 32214.8696
Standard deviation: 10.24375
R^2: 0.99498
Parameters:
a = 112.73654
b = 1145.94146
c = 31.95237
d = 0.77311

Bead 1414

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
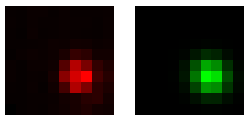Frame size : 10 pixels

Coordinates : 79.9 um (x), -20.7 um (y), 31.7 um (z)
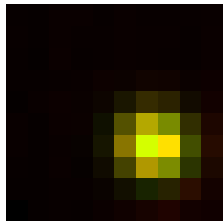Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	522 nm	539 nm	223 nm
max	554 nm	572 nm	223 nm
z	1.58 um	1.59 um	885 nm
Asymmetry	0.943		
Theta	-38.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 952.059   (brightness)
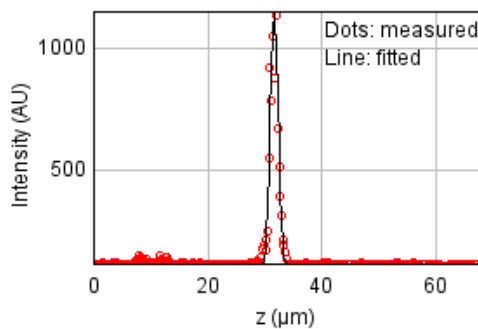 B = 116.470   (background)
 a = 0.459 px
 b = -0.027 px
 c = 0.472 px

xc = 6.352 px
yc = 5.967 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 302052.258
Standard deviation: 31.36692
R^2: 0.94899
Parameters:
 a = 115.78213
 b = 1152.55154
 c = 31.73191
 d = 0.67259

Bead 1415

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
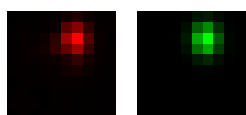Frame size : 10 pixels

Coordinates : -61.2 um (x), -43.6 um (y), 38.9 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	423 nm	437 nm	223 nm
max	507 nm	524 nm	223 nm
z	1.33 um	1.33 um	885 nm
Asymmetry	0.834		
Theta	-88.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.981$

Parameters:
A = 1631.531   (brightness)
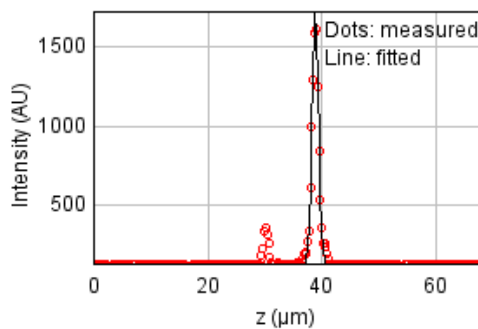B = 131.336   (background)
a = 0.750 px
b = -0.007 px
c = 0.522 px

xc = 5.783 px
yc = 2.086 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 310133.879
Standard deviation: 31.78377
R^2: 0.97348
Parameters:
a = 120.23573
b = 1727.88379
c = 38.91948
d = 0.56332

Bead 1416

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
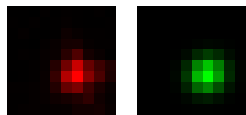Frame size : 10 pixels

Coordinates : 66.2 um (x), -94.1 um (y), 31.4 um (z)
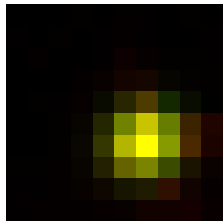Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	531 nm	548 nm	223 nm
max	573 nm	593 nm	223 nm
z	1.6 um	1.61 um	885 nm
Asymmetry	0.925		
Theta	26.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.964$

Parameters:
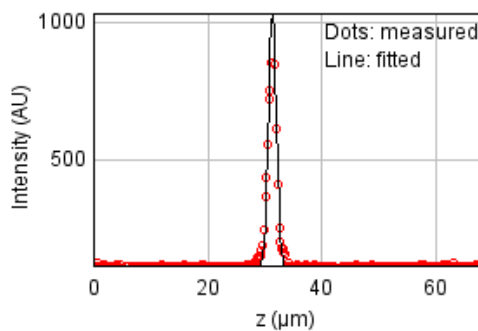A = 1000.245   (brightness)
B = 123.857   (background)
a = 0.422 px
b = 0.027 px
c = 0.463 px

x_c = 5.919 px
y_c = 5.794 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 128991.053
Standard deviation: 20.49796
R^2: 0.97183
Parameters:
a = 113.76828
b = 1030.51887
c = 31.41654
d = 0.68140

Bead 1417

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
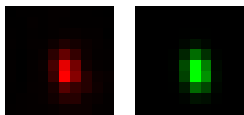Frame size : 10 pixels

Coordinates : 11.9 um (x), 12.0 um (y), 31.6 um (z)
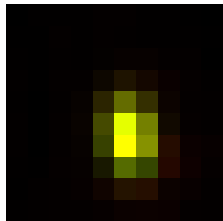Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	371 nm	384 nm	223 nm
max	562 nm	581 nm	223 nm
z	1.25 um	1.26 um	885 nm
Asymmetry	0.661		
Theta	-83.0°		

XY profile & fitting parameters :

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

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

Parameters:
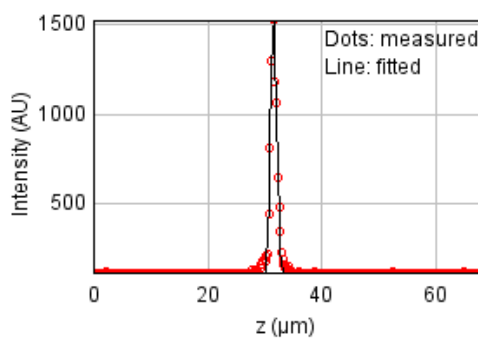 A = 1667.910   (brightness)
 B = 131.154   (background)
 a = 0.965 px
 b = -0.067 px
 c = 0.433 px

xc = 5.178 px
yc = 5.526 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 130191.230
Standard deviation: 20.59310
R^2: 0.98465
Parameters:
 a = 115.07973
 b = 1530.54268
 c = 31.62426
 d = 0.53204

Bead 1418

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
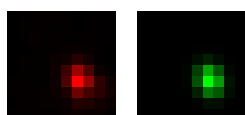Frame size : 10 pixels

Coordinates : 13.9 um (x), -634 nm (y), 31.9 um (z)
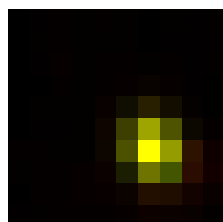Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	395 nm	408 nm	223 nm
max	480 nm	496 nm	223 nm
z	1.4 um	1.41 um	885 nm
Asymmetry	0.822		
Theta	-68.6°		

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 = 1388.456   (brightness)
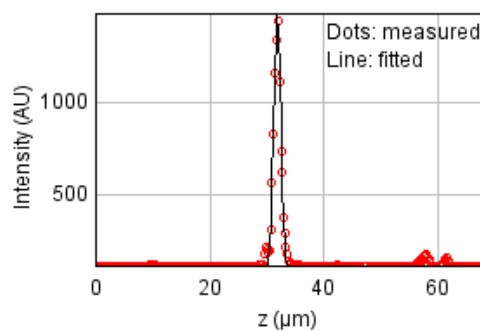 B = 128.131   (background)
 a = 0.824 px
 b = -0.095 px
 c = 0.619 px

xc = 6.185 px
yc = 5.883 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 112193.164
Standard deviation: 19.11675
R^2: 0.98699
Parameters:
 a = 118.32116
 b = 1472.90061
 c = 31.90352
 d = 0.59435

Bead 1419

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
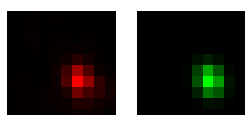Frame size : 10 pixels

Coordinates : 13.9 um (x), -634 nm (y), 31.9 um (z)
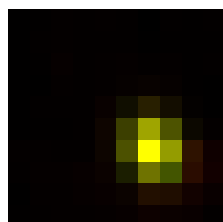Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	395 nm	408 nm	223 nm
max	480 nm	496 nm	223 nm
z	1.4 um	1.41 um	885 nm
Asymmetry	0.822		
Theta	-68.6°		

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 = 1388.456   (brightness)
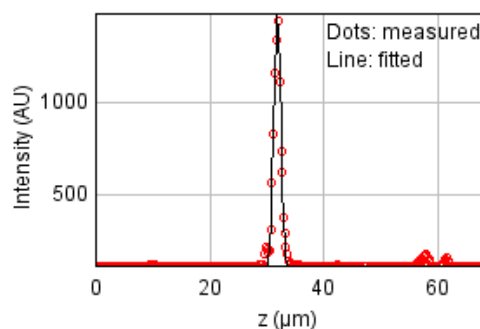B = 128.131   (background)
a = 0.824 px
b = -0.095 px
c = 0.619 px

xc = 6.185 px
yc = 5.883 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 112193.164
Standard deviation: 19.11675
R^2: 0.98699
Parameters:
a = 118.32116
b = 1472.90061
c = 31.90352
d = 0.59435

Bead 1420

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
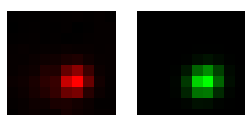Frame size : 10 pixels

Coordinates : -104 um (x), -4.62 um (y), 32.1 um (z)
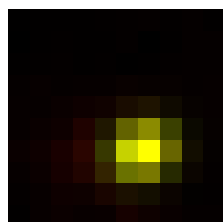Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	433 nm	448 nm	223 nm
max	504 nm	521 nm	223 nm
z	1.62 um	1.63 um	885 nm
Asymmetry	0.859		
Theta	24.5°		

XY profile & fitting parameters :

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

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

Parameters:
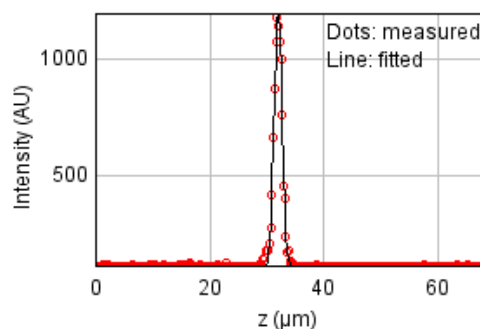A = 1039.891   (brightness)
B = 133.211   (background)
a = 0.561 px
b = 0.071 px
c = 0.684 px

xc = 5.677 px
yc = 5.978 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 40883.8222
Standard deviation: 11.54002
R^2: 0.99358
Parameters:
a = 113.63394
b = 1200.86247
c = 32.05442
d = 0.68954

Bead 1421 (Rejected)

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 162 um (x), -8.02 um (y), 29.8 um (z)
Corresponding bead : Not found
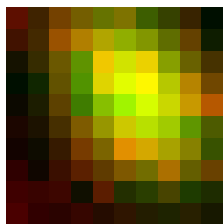Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	1.06 um	1.1 um	223 nm
max	1.57 um	1.62 um	223 nm
z	1.59 um	1.6 um	885 nm
Asymmetry	0.679		
Theta	-55.7°		

XY profile & fitting parameters :

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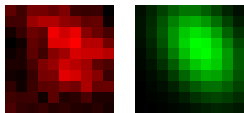
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.761$

Parameters:
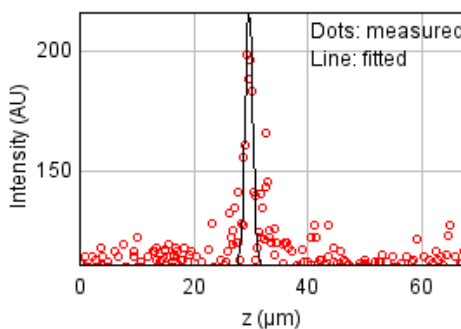A = 88.521   (brightness)
B = 123.888   (background)
a = 0.098 px
b = -0.030 px
c = 0.075 px

xc = 5.537 px
yc = 3.457 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 24373.1695
Standard deviation: 8.91019
R^2: 0.70408
Parameters:
a = 111.11153
b = 216.12051
c = 29.75025
d = 0.67671

Bead 1422

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
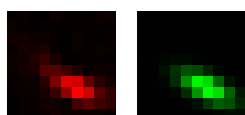Frame size : 10 pixels

Coordinates : 162 um (x), -10.7 um (y), 31.3 um (z)
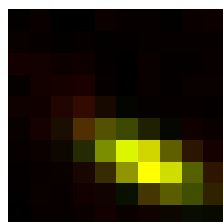Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	361 nm	374 nm	223 nm
max	871 nm	901 nm	223 nm
z	1.68 um	1.69 um	885 nm
Asymmetry	0.415		
Theta	-26.1°		

XY profile & fitting parameters :

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

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

Parameters:
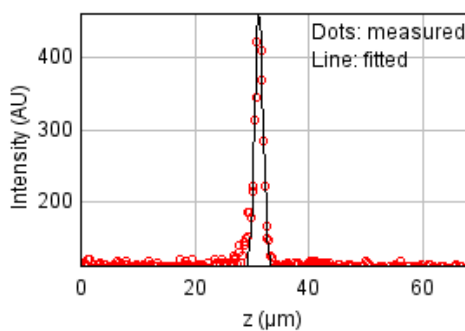 A = 400.245   (brightness)
 B = 119.232   (background)
 a = 0.342 px
 b = -0.336 px
 c = 0.863 px

xc = 5.826 px
yc = 6.533 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 27892.7619
Standard deviation: 9.53184
R^2: 0.96079
Parameters:
 a = 111.23041
 b = 462.32989
 c = 31.31532
 d = 0.71495

Bead 1423

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
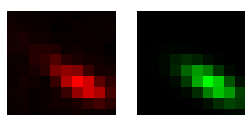Frame size : 10 pixels

Coordinates : 147 um (x), -28.4 um (y), 31.3 um (z)
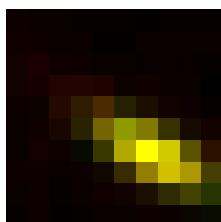Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	384 nm	397 nm	223 nm
max	970 nm	1.0 um	223 nm
z	1.52 um	1.53 um	885 nm
Asymmetry	0.395		
Theta	-29.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.977$

Parameters:
A = 518.889   (brightness)
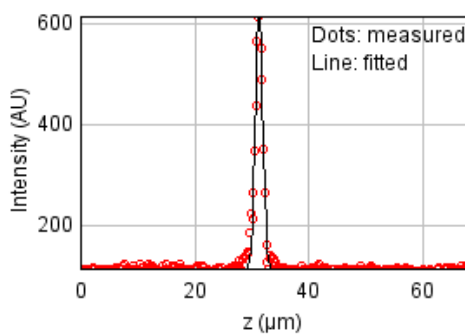B = 117.411   (background)
a = 0.328 px
b = -0.329 px
c = 0.727 px

xc = 6.279 px
yc = 6.142 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 29315.9397
Standard deviation: 9.77198
R^2: 0.97814
Parameters:
 a = 111.77555
 b = 621.92716
 c = 31.34202
 d = 0.64759

Bead 1424

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
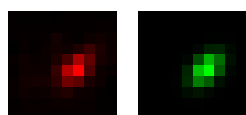Frame size : 10 pixels

Coordinates : -146 um (x), -35.6 um (y), 31.3 um (z)
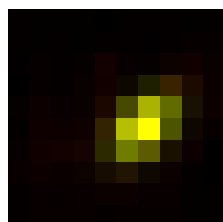Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	366 nm	378 nm	223 nm
max	580 nm	600 nm	223 nm
z	1.17 um	1.18 um	885 nm
Asymmetry	0.631		
Theta	45.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.980$

Parameters:
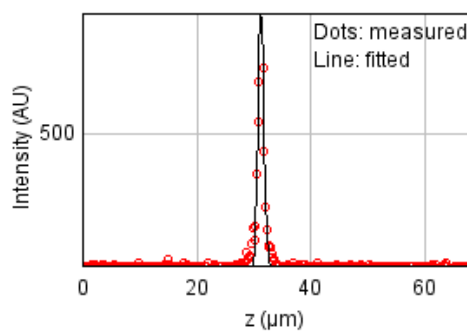 A = 769.679   (brightness)
 B = 122.750   (background)
 a = 0.703 px
 b = 0.302 px
 c = 0.698 px

xc = 5.769 px
yc = 4.858 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 55726.6478
Standard deviation: 13.47294
R^2: 0.97549
Parameters:
 a = 112.28376
 b = 865.95652
 c = 31.32480
 d = 0.49767

Bead 1425

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
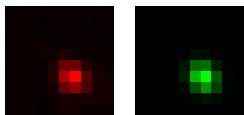Frame size : 10 pixels

Coordinates : 105 um (x), -46.7 um (y), 31.4 um (z)
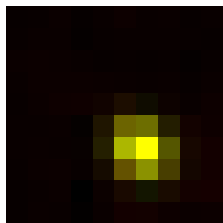Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	417 nm	223 nm
max	477 nm	493 nm	223 nm
z	1.26 um	1.26 um	885 nm
Asymmetry	0.846		
Theta	-47.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.986$

Parameters:
A = 1023.808   (brightness)
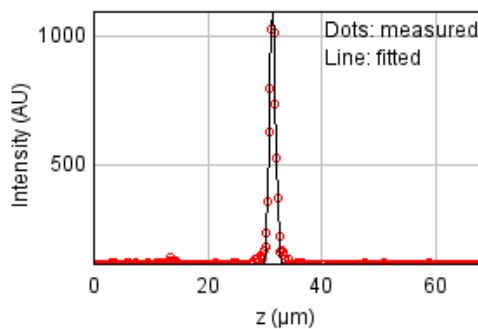B = 119.541   (background)
a = 0.716 px
b = -0.117 px
c = 0.699 px

xc = 5.745 px
yc = 6.057 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 32713.0392
Standard deviation: 10.32265
R^2: 0.99189
Parameters:
a = 113.72539
b = 1092.30033
c = 31.43475
d = 0.53316

Bead 1426

Date : Mon Oct 17 13:29:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
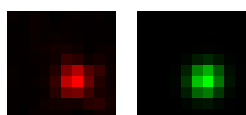Frame size : 10 pixels

Coordinates : 98.3 um (x), -83.6 um (y), 31.6 um (z)
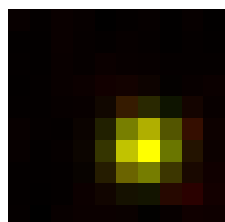Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	488 nm	504 nm	223 nm
max	515 nm	533 nm	223 nm
z	1.6 um	1.61 um	885 nm
Asymmetry	0.946		
Theta	31.0°		

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 = 0.969

Parameters:
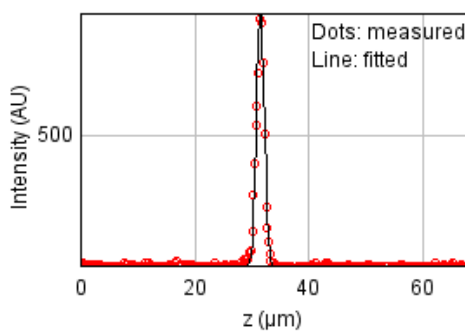 A = 801.112   (brightness)
 B = 124.514   (background)
 a = 0.521 px
 b = 0.026 px
 c = 0.549 px

xc = 5.765 px
yc = 5.856 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 53022.1465
Standard deviation: 13.14194
R^2: 0.98302
Parameters:
 a = 111.81547
 b = 874.13454
 c = 31.57832
 d = 0.67995

Bead 1427

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
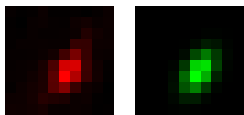Frame size : 10 pixels

Coordinates : -147 um (x), -87.9 um (y), 31.5 um (z)
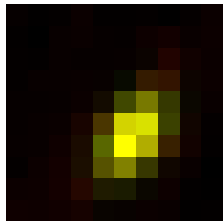Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	424 nm	223 nm
max	677 nm	699 nm	223 nm
z	1.75 um	1.76 um	885 nm
Asymmetry	0.606		
Theta	57.4°		

XY profile & fitting parameters :

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

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

Parameters:
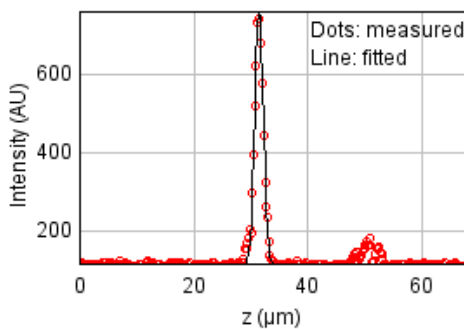 A = 675.321 (brightness)
 B = 123.819 (background)
 a = 0.651 px
 b = 0.229 px
 c = 0.439 px

xc = 5.364 px
yc = 5.531 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 58033.8012
Standard deviation: 13.74901
R^2: 0.97664
Parameters:
 a = 114.49702
 b = 764.15297
 c = 31.51453
 d = 0.74235

Bead 1428 (Rejected)

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

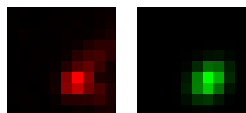Coordinates : 90.4 um (x), 72.1 um (y), 32.3 um (z)
Corresponding bead : Not found
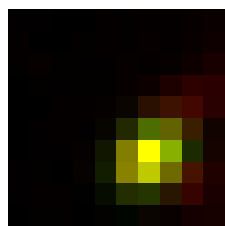Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	446 nm	461 nm	223 nm
max	573 nm	592 nm	223 nm
z	1.67 um	1.67 um	885 nm
Asymmetry	0.778		
Theta	43.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.881$

Parameters:
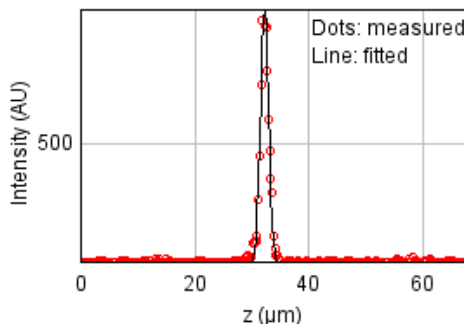A = 732.239   (brightness)
B = 130.288   (background)
a = 0.537 px
b = 0.133 px
c = 0.548 px

xc = 6.090 px
yc = 6.259 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 57274.0023
Standard deviation: 13.65871
R^2: 0.98488
Parameters:
a = 113.32176
b = 937.22232
c = 32.31311
d = 0.70839

Bead 1429

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
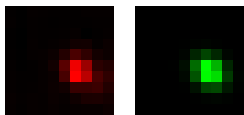Frame size : 10 pixels

Coordinates : 45.2 um (x), -11.6 um (y), 32.4 um (z)
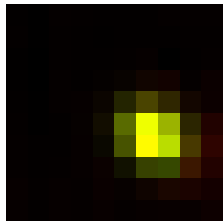Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	506 nm	523 nm	223 nm
z	1.76 um	1.76 um	885 nm
Asymmetry	0.83		
Theta	-38.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1229.710   (brightness)
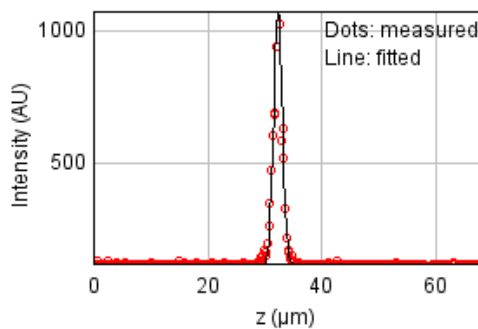 B = 126.051   (background)
 a = 0.616 px
 b = -0.115 px
 c = 0.669 px

xc = 6.311 px
yc = 5.540 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 167601.034
Standard deviation: 23.36518
R^2: 0.96948
Parameters:
 a = 114.52628
 b = 1074.51697
 c = 32.38880
 d = 0.74620

Bead 1430

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
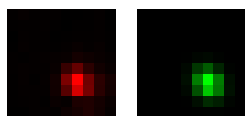Frame size : 10 pixels

Coordinates : 72.8 um (x), -37.0 um (y), 31.8 um (z)
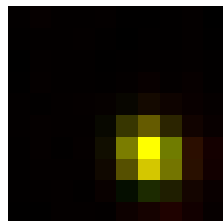Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	413 nm	427 nm	223 nm
max	482 nm	498 nm	223 nm
z	1.24 um	1.24 um	885 nm
Asymmetry	0.857		
Theta	-55.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.974$

Parameters:
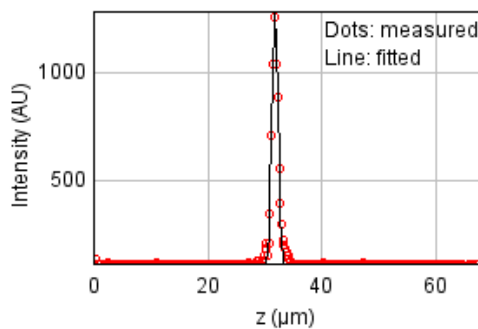A = 1215.410   (brightness)
B = 123.688   (background)
a = 0.720 px
b = -0.098 px
c = 0.644 px

xc = 6.041 px
yc = 6.310 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 93846.0130
Standard deviation: 17.48392
R^2: 0.98379
Parameters:
a = 114.28261
b = 1291.05977
c = 31.84970
d = 0.52484

Bead 1431 (Rejected)

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -67.3 um (x), -67.8 um (y), 20.0 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

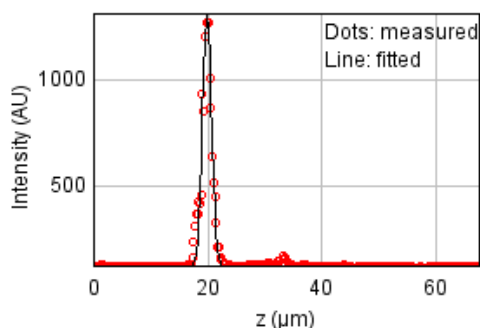| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.9 um	1.9 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 290687.682
Standard deviation: 30.77118
R^2: 0.96876
Parameters:
 a = 117.13832
 b = 1321.73330
 c = 19.95759
 d = 0.80492

Bead 1432

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
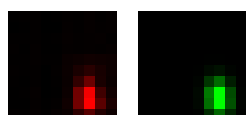Frame size : 10 pixels

Coordinates : -42.5 um (x), -87.9 um (y), 64.1 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	367 nm	380 nm	223 nm
max	548 nm	566 nm	223 nm
z	1.23 um	1.24 um	885 nm
Asymmetry	0.671		
Theta	-85.9°		

XY profile & fitting parameters :

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

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

Parameters:
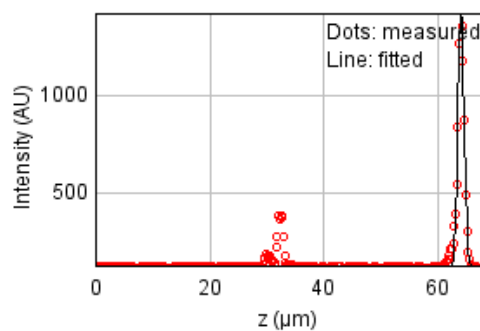 A = 1452.416   (brightness)
 B = 125.284   (background)
 a = 0.992 px
 b = -0.039 px
 c = 0.450 px

 xc = 6.901 px
 yc = 7.482 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 441407.815
Standard deviation: 37.91847
R^2: 0.94147
Parameters:
 a = 123.80043
 b = 1439.43786
 c = 64.10520
 d = 0.52351

Bead 1433

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
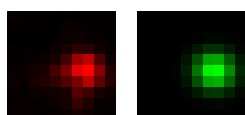Frame size : 10 pixels

Coordinates : -46.5 um (x), -93.7 um (y), 31.7 um (z)
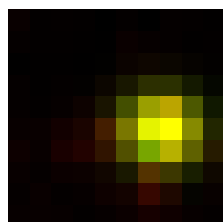Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	577 nm	597 nm	223 nm
max	636 nm	657 nm	223 nm
z	1.57 um	1.57 um	885 nm
Asymmetry	0.908		
Theta	-5.5°		

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 = 900.918 (brightness)
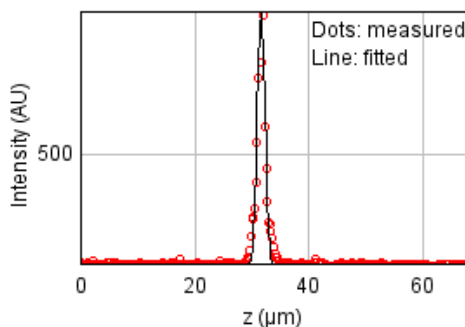 B = 128.573 (background)
 a = 0.333 px
 b = -0.007 px
 c = 0.402 px

xc = 6.577 px
yc = 5.035 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 149867.995
Standard deviation: 22.09456
R^2: 0.96412
Parameters:
 a = 115.55184
 b = 998.17778
 c = 31.70617
 d = 0.66475

Bead 1434

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
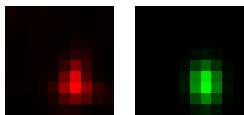Frame size : 10 pixels

Coordinates : -5.29 um (x), 87.6 um (y), 32.3 um (z)
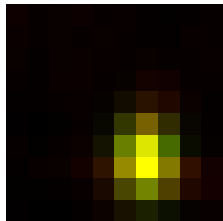Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	443 nm	458 nm	223 nm
max	595 nm	615 nm	223 nm
z	1.39 um	1.4 um	885 nm
Asymmetry	0.744		
Theta	-87.8°		

XY profile & fitting parameters :

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

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

Parameters:
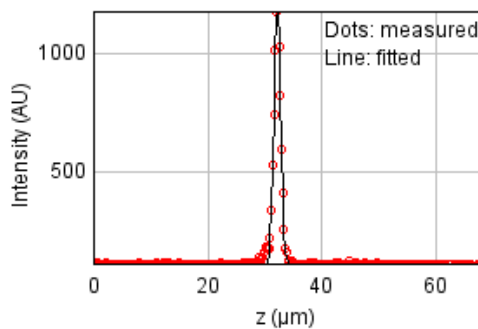 A = 1055.867   (brightness)
 B = 139.083   (background)
 a = 0.683 px
 b = -0.012 px
 c = 0.379 px

xc = 5.945 px
yc = 6.639 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 33421.3337
Standard deviation: 10.43380
R^2: 0.99372
Parameters:
 a = 115.45581
 b = 1186.24376
 c = 32.26065
 d = 0.59069

Bead 1435

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
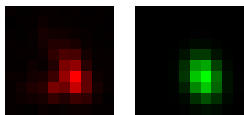Frame size : 10 pixels

Coordinates : -76.6 um (x), 88.0 um (y), 32.6 um (z)
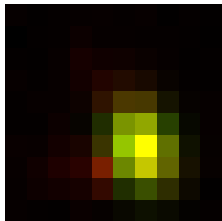Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	489 nm	506 nm	223 nm
max	651 nm	673 nm	223 nm
z	1.44 um	1.44 um	885 nm
Asymmetry	0.752		
Theta	-73.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.902$

  Parameters:
  A = 848.340   (brightness)
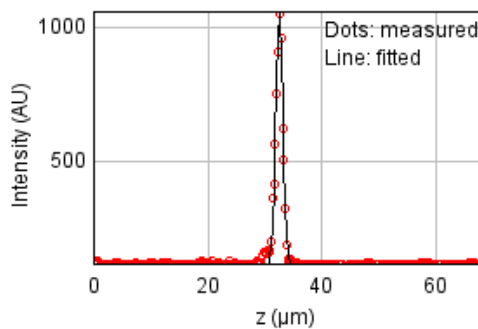 B = 133.622   (background)
  a = 0.540 px
  b = -0.068 px
  c = 0.338 px

xc = 5.746 px
yc = 6.077 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 56884.8999
Standard deviation: 13.61223
R^2: 0.98693
Parameters:
 a = 114.12722
 b = 1063.91878
 c = 32.62193
 d = 0.61061

Bead 1436

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
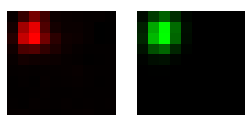Frame size : 10 pixels

Coordinates : 30.8 um (x), 51.4 um (y), 53.3 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	458 nm	473 nm	223 nm
max	540 nm	558 nm	223 nm
z	1.26 um	1.26 um	885 nm
Asymmetry	0.847		
Theta	77.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.975$

Parameters:
A = 1307.592   (brightness)
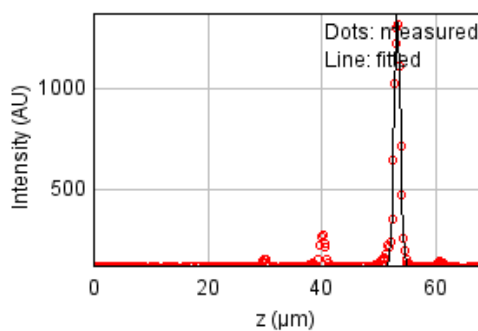B = 124.135   (background)
a = 0.632 px
b = 0.040 px
c = 0.469 px

xc = 1.789 px
yc = 1.536 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 180861.112
Standard deviation: 24.27188
R^2: 0.97307
Parameters:
a = 121.39845
b = 1370.77263
c = 53.27501
d = 0.53468

Bead 1437

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
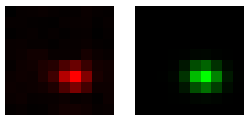Frame size : 10 pixels

Coordinates : -162 um (x), 33.2 um (y), 31.5 um (z)
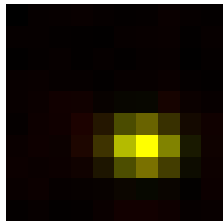Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	389 nm	402 nm	223 nm
max	523 nm	541 nm	223 nm
z	1.56 um	1.56 um	885 nm
Asymmetry	0.743		
Theta	-3.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.981$

Parameters:
A = 468.090   (brightness)
B = 113.272   (background)
a = 0.492 px
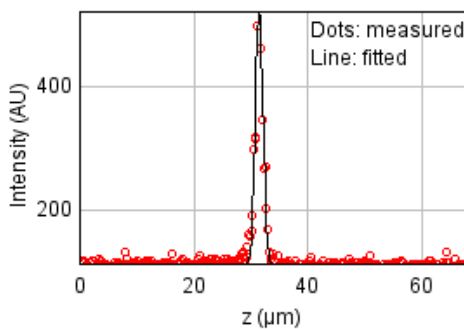b = -0.025 px
c = 0.886 px

xc = 5.820 px
yc = 6.031 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 38934.2506
Standard deviation: 11.26151
R^2: 0.95786
Parameters:
a = 111.65712
b = 526.54932
c = 31.54047
d = 0.66099

Bead 1438

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
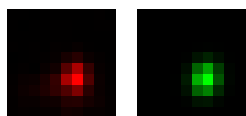Frame size : 10 pixels

Coordinates : -45.2 um (x), -13.0 um (y), 32.4 um (z)
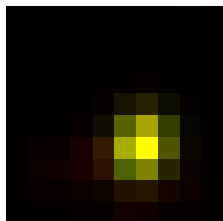Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	419 nm	433 nm	223 nm
max	494 nm	510 nm	223 nm
z	1.47 um	1.47 um	885 nm
Asymmetry	0.848		
Theta	75.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.968$

Parameters:
A = 1925.204   (brightness)
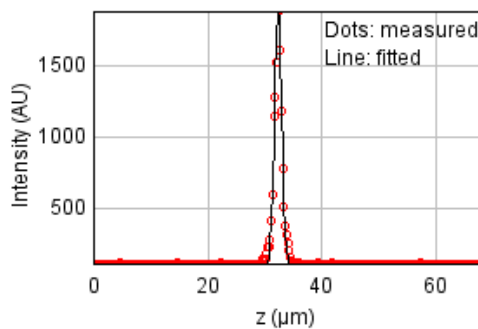B = 139.269   (background)
a = 0.752 px
b = 0.053 px
c = 0.565 px

xc = 5.768 px
yc = 5.917 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 178666.112
Standard deviation: 24.12414
R^2: 0.98839
Parameters:
a = 115.56592
b = 1886.14602
c = 32.40807
d = 0.62243

Bead 1439

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
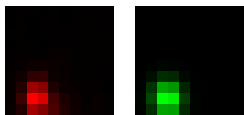Frame size : 10 pixels

Coordinates : 18.8 um (x), -35.6 um (y), 42.9 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	448 nm	463 nm	223 nm
max	553 nm	571 nm	223 nm
z	1.38 um	1.39 um	885 nm
Asymmetry	0.811		
Theta	-85.3°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.976$

Parameters:
 A = 1842.662   (brightness)
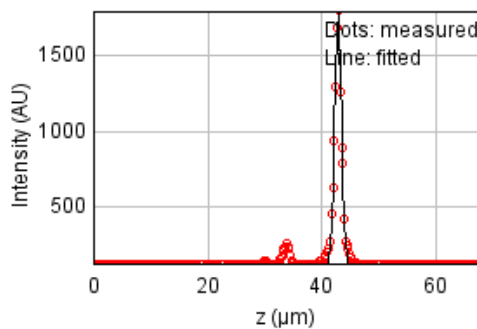 B = 128.325   (background)
 a = 0.667 px
 b = -0.019 px
 c = 0.441 px

xc = 2.452 px
yc = 8.007 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 250473.932
Standard deviation: 28.56354
R^2: 0.98076
Parameters:
 a = 120.56344
 b = 1788.46888
 c = 42.91031
 d = 0.58770

Bead 1440 (Rejected)

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

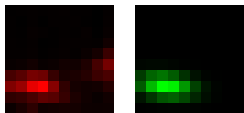Coordinates : -52.7 um (x), -92.6 um (y), 32.8 um (z)
Corresponding bead : Not found
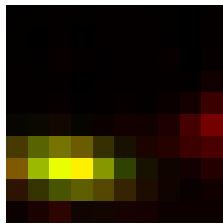Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	373 nm	385 nm	223 nm
max	851 nm	880 nm	223 nm
z	1.35 um	1.36 um	885 nm
Asymmetry	0.438		
Theta	-6.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 999.114 (brightness)
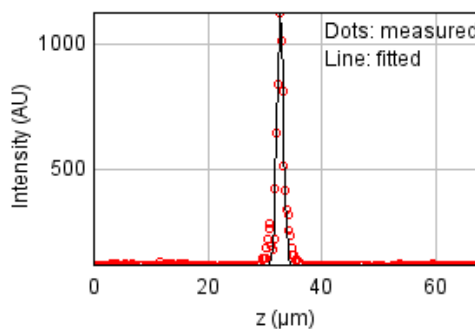 B = 153.519 (background)
 a = 0.195 px
 b = -0.089 px
 c = 0.955 px

 xc = 2.310 px
 yc = 6.945 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 178377.615
Standard deviation: 24.10466
R^2: 0.96239
Parameters:
 a = 118.35680
 b = 1127.50817
 c = 32.76157
 d = 0.57350

Bead 1441

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
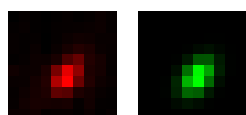Frame size : 10 pixels

Coordinates : -152 um (x), -93.2 um (y), 32.0 um (z)
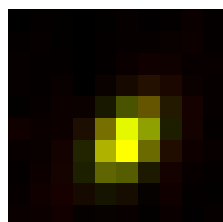Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	409 nm	423 nm	223 nm
max	624 nm	645 nm	223 nm
z	1.84 um	1.85 um	885 nm
Asymmetry	0.655		
Theta	50.7°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.980$

Parameters:
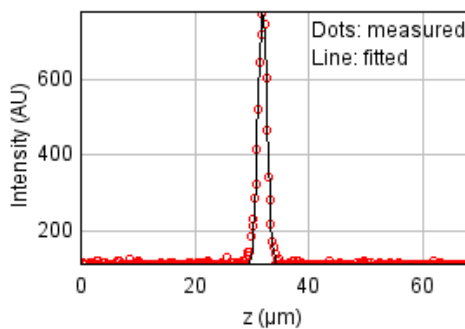 A = 698.575   (brightness)
 B = 122.874   (background)
 a = 0.619 px
 b = 0.224 px
 c = 0.528 px

xc = 4.950 px
yc = 5.550 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 30675.6373
Standard deviation: 9.99603
R^2: 0.98886
Parameters:
 a = 110.75924
 b = 781.63052
 c = 31.95528
 d = 0.78327

Bead 1442

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
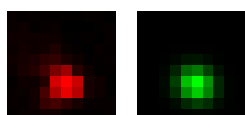Frame size : 10 pixels

Coordinates : -137 um (x), 65.5 um (y), 32.3 um (z)
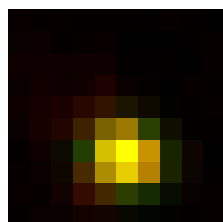Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	513 nm	530 nm	223 nm
max	577 nm	597 nm	223 nm
z	1.66 um	1.66 um	885 nm
Asymmetry	0.888		
Theta	-25.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 562.111   (brightness)
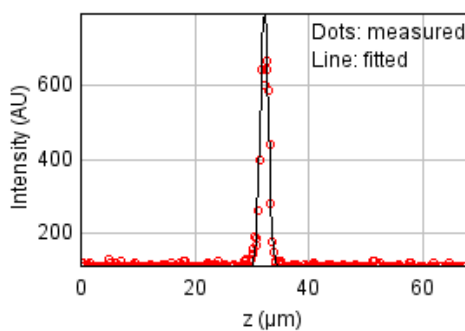 B = 118.370   (background)
 a = 0.422 px
 b = -0.041 px
 c = 0.490 px

xc = 4.870 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: 133231.214
Standard deviation: 20.83214
R^2: 0.95073
Parameters:
 a = 111.72921
 b = 797.71615
 c = 32.26499
 d = 0.70399

Bead 1443

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
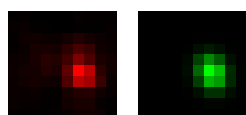Frame size : 10 pixels

Coordinates : -159 um (x), 30.8 um (y), 32.3 um (z)
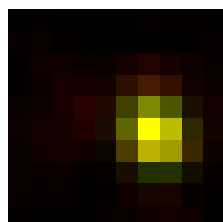Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	455 nm	470 nm	223 nm
max	546 nm	564 nm	223 nm
z	1.39 um	1.4 um	885 nm
Asymmetry	0.834		
Theta	-63.9°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 598.919   (brightness)
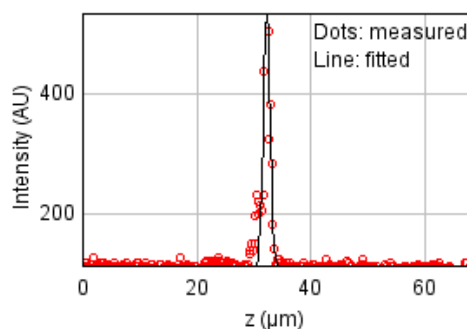 B = 126.862   (background)
 a = 0.610 px
 b = -0.078 px
 c = 0.489 px

xc = 6.276 px
yc = 5.179 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 85266.1585
Standard deviation: 16.66553
R^2: 0.90569
Parameters:
 a = 111.93997
 b = 533.49181
 c = 32.33937
 d = 0.59014

Bead 1444

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
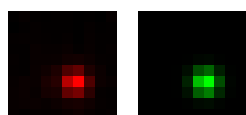Frame size : 10 pixels

Coordinates : -134 um (x), -5.73 um (y), 32.0 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	417 nm	223 nm
max	426 nm	441 nm	223 nm
z	1.34 um	1.35 um	885 nm
Asymmetry	0.945		
Theta	-1.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 902.346   (brightness)
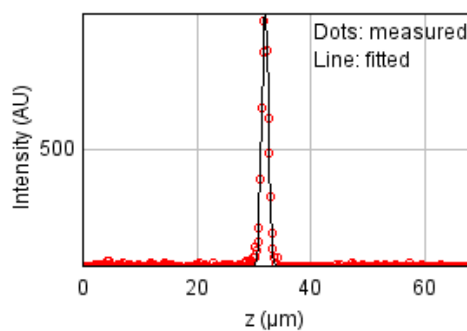 B = 120.083   (background)
 a = 0.738 px
 b = -0.002 px
 c = 0.826 px

xc = 5.694 px
yc = 6.068 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 30249.2586
Standard deviation: 9.92632
R^2: 0.99065
Parameters:
 a = 112.24903
 b = 960.39517
 c = 32.03477
 d = 0.56970

Bead 1445

Date : Mon Oct 17 13:29:04 PDT 2022
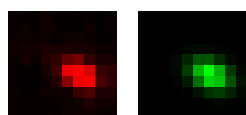Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 128 um (x), -5.8 um (y), 31.9 um (z)
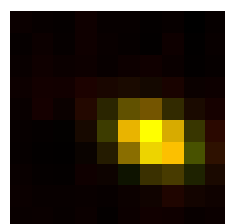Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	434 nm	449 nm	223 nm
max	661 nm	684 nm	223 nm
z	1.41 um	1.41 um	885 nm
Asymmetry	0.656		
Theta	-24.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 554.778 (brightness)
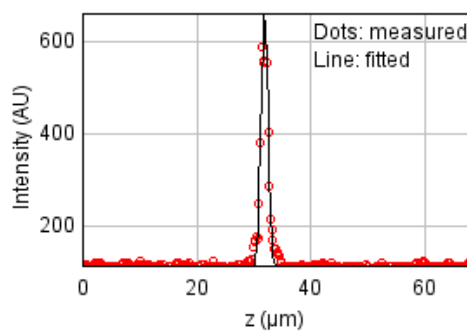 B = 115.533 (background)
 a = 0.375 px
 b = -0.152 px
 c = 0.644 px

xc = 6.120 px
yc = 5.384 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 64227.6582
Standard deviation: 14.46411
R^2: 0.95658
Parameters:
 a = 111.28517
 b = 661.70725
 c = 31.94630
 d = 0.59846

Bead 1446

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
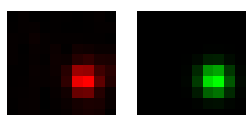Frame size : 10 pixels

Coordinates : 104 um (x), -7.23 um (y), 31.9 um (z)
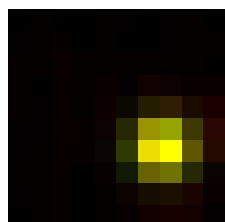Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	464 nm	479 nm	223 nm
max	473 nm	489 nm	223 nm
z	1.31 um	1.32 um	885 nm
Asymmetry	0.98		
Theta	-32.3°		

XY profile & fitting parameters :

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

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

Parameters:
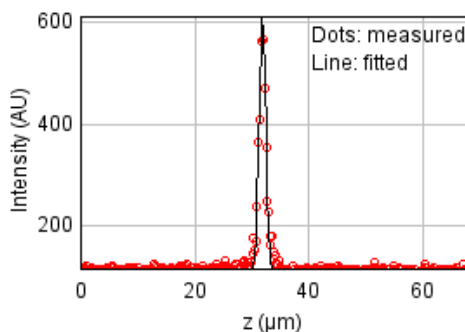 A = 675.244   (brightness)
 B = 116.252   (background)
 a = 0.606 px
 b = -0.011 px
 c = 0.617 px

xc = 6.609 px
yc = 5.848 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 36103.4485
Standard deviation: 10.84439
R^2: 0.96783
Parameters:
 a = 113.33208
 b = 612.55684
 c = 31.92870
 d = 0.55726

Bead 1447

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
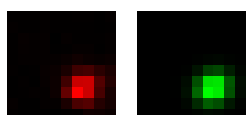Frame size : 10 pixels

Coordinates : 122 um (x), -10.5 um (y), 32.3 um (z)
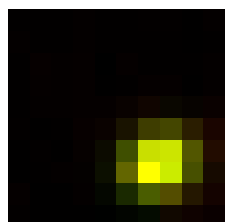Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	471 nm	487 nm	223 nm
max	532 nm	550 nm	223 nm
z	1.53 um	1.53 um	885 nm
Asymmetry	0.885		
Theta	27.5°		

XY profile & fitting parameters :

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

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

Parameters:
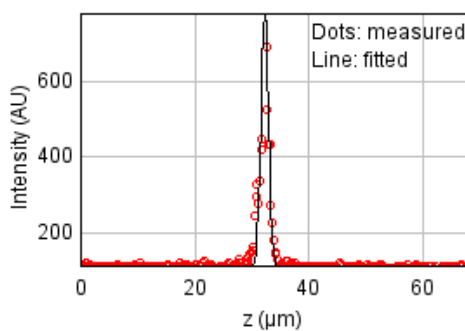 A = 1000.744   (brightness)
 B = 117.212   (background)
 a = 0.502 px
 b = 0.054 px
 c = 0.577 px

xc = 6.465 px
yc = 6.577 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 215898.902
Standard deviation: 26.51893
R^2: 0.91146
Parameters:
 a = 113.60021
 b = 777.38805
 c = 32.34340
 d = 0.64804

Bead 1448

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
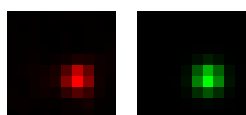Frame size : 10 pixels

Coordinates : -153 um (x), -12.9 um (y), 32.7 um (z)
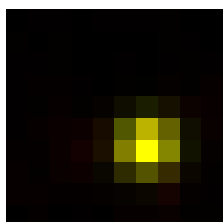Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	427 nm	441 nm	223 nm
max	447 nm	462 nm	223 nm
z	1.4 um	1.4 um	885 nm
Asymmetry	0.954		
Theta	16.8°		

XY profile & fitting parameters :

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

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

 Parameters:
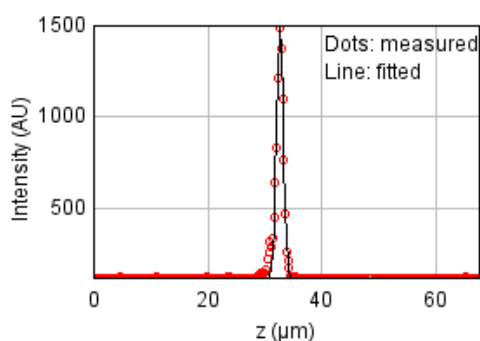 A = 1484.152   (brightness)
 B = 125.425   (background)
 a = 0.677 px
 b = 0.018 px
 c = 0.732 px

 xc = 6.026 px
 yc = 5.743 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 125051.268
Standard deviation: 20.18250
R^2: 0.98633
Parameters:
 a = 113.33446
 b = 1509.31718
 c = 32.72044
 d = 0.59319

Bead 1449

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
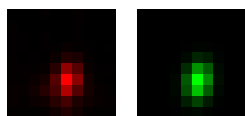Frame size : 10 pixels

Coordinates : -24.6 um (x), -16.5 um (y), 32.6 um (z)
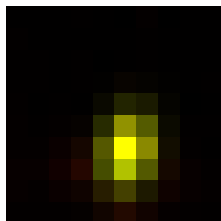Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	395 nm	408 nm	223 nm
max	575 nm	595 nm	223 nm
z	1.21 um	1.21 um	885 nm
Asymmetry	0.687		
Theta	80.4°		

XY profile & fitting parameters :

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

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

Parameters:
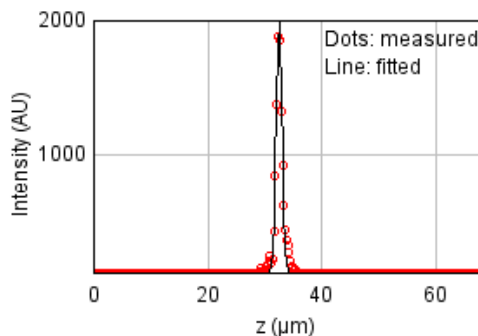 A = 1870.381   (brightness)
 B = 134.251   (background)
 a = 0.848 px
 b = 0.075 px
 c = 0.418 px

xc = 5.118 px
yc = 6.147 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 223761.242
Standard deviation: 26.99748
R^2: 0.98457
Parameters:
 a = 116.99391
 b = 2002.42806
 c = 32.57923
 d = 0.51223

Bead 1450

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
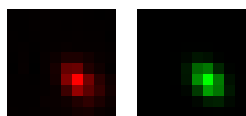Frame size : 10 pixels

Coordinates : 27.3 um (x), -21.6 um (y), 32.5 um (z)
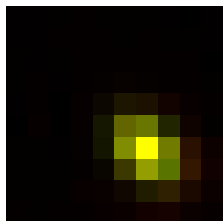Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	396 nm	410 nm	223 nm
max	560 nm	579 nm	223 nm
z	1.35 um	1.35 um	885 nm
Asymmetry	0.707		
Theta	-47.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.973$

Parameters:
A = 1251.825   (brightness)
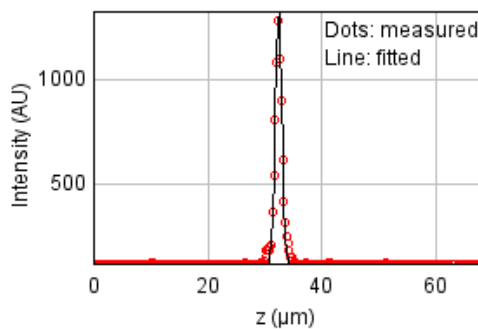B = 125.043   (background)
a = 0.662 px
b = -0.212 px
c = 0.621 px

xc = 5.981 px
yc = 6.106 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 74526.1195
Standard deviation: 15.58063
R^2: 0.98898
Parameters:
a = 114.42507
b = 1338.26050
c = 32.48806
d = 0.57129

Bead 1451

Date : Mon Oct 17 13:29:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
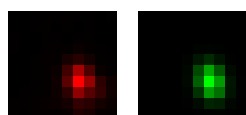Frame size : 10 pixels

Coordinates : 19.0 um (x), -68.4 um (y), 32.4 um (z)
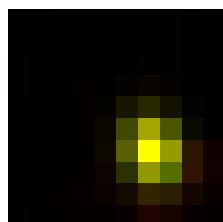Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	548 nm	566 nm	223 nm
z	1.33 um	1.34 um	885 nm
Asymmetry	0.763		
Theta	-74.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.974$

Parameters:
A = 1913.052   (brightness)
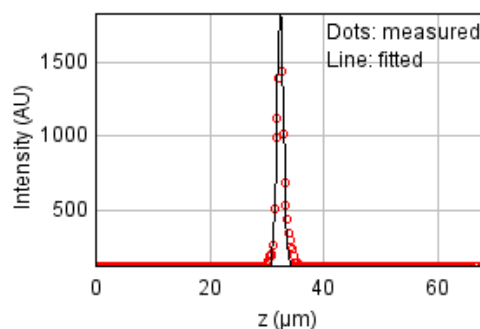B = 136.243   (background)
a = 0.747 px
b = -0.081 px
c = 0.469 px

xc = 6.162 px
yc = 5.989 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 348721.468
Standard deviation: 33.70312
R^2: 0.97438
Parameters:
a = 117.38459
b = 1849.75201
c = 32.42507
d = 0.56513

Bead 1452

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
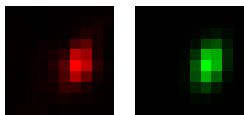Frame size : 10 pixels

Coordinates : -111 um (x), -81.6 um (y), 32.2 um (z)
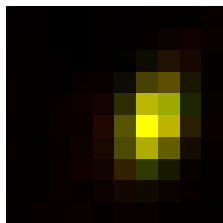Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	417 nm	431 nm	223 nm
max	655 nm	677 nm	223 nm
z	1.31 um	1.32 um	885 nm
Asymmetry	0.637		
Theta	71.8°		

XY profile & fitting parameters :

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

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

Parameters:
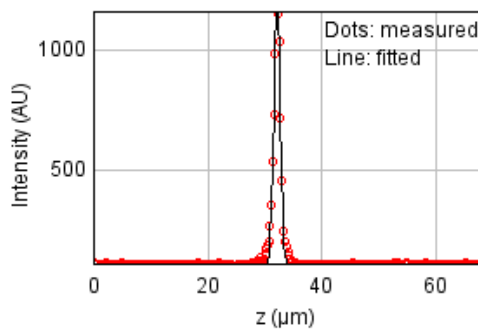 A = 1106.432   (brightness)
 B = 130.456   (background)
 a = 0.726 px
 b = 0.136 px
 c = 0.357 px

xc = 6.283 px
yc = 4.851 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 57624.0785
Standard deviation: 13.70039
R^2: 0.98833
Parameters:
 a = 114.25351
 b = 1172.52361
 c = 32.21169
 d = 0.55731

Bead 1453

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
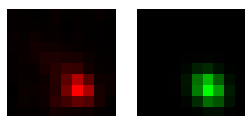Frame size : 10 pixels

Coordinates : -136 um (x), 88.9 um (y), 32.7 um (z)
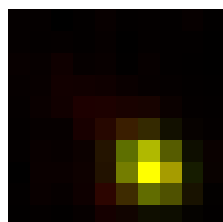Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	436 nm	451 nm	223 nm
max	520 nm	537 nm	223 nm
z	1.45 um	1.45 um	885 nm
Asymmetry	0.839		
Theta	-46.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 851.744   (brightness)
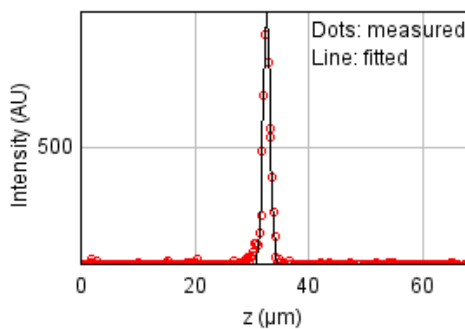 B = 128.051   (background)
 a = 0.606 px
 b = -0.104 px
 c = 0.596 px

xc = 6.055 px
yc = 6.782 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 65675.0311
Standard deviation: 14.62618
R^2: 0.98143
Parameters:
 a = 114.11628
 b = 965.02715
 c = 32.66898
 d = 0.61487

Bead 1454

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
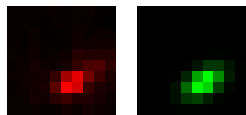Frame size : 10 pixels

Coordinates : 138 um (x), 80.6 um (y), 32.6 um (z)
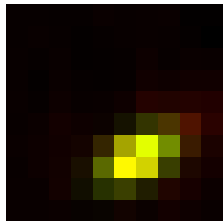Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	354 nm	366 nm	223 nm
max	622 nm	643 nm	223 nm
z	1.5 um	1.51 um	885 nm
Asymmetry	0.569		
Theta	29.4°		

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
   $R^2 = 0.945$

Parameters:
 A = 806.244   (brightness)
 B = 125.831   (background)
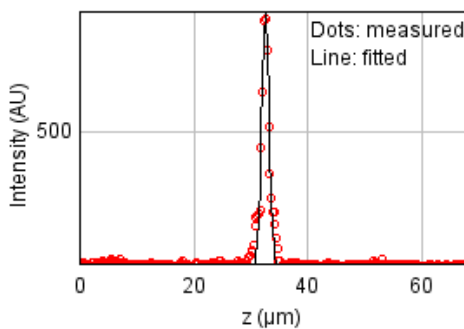 a = 0.521 px
 b = 0.310 px
 c = 0.896 px

xc = 5.616 px
yc = 6.521 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 111639.178
Standard deviation: 19.06949
R^2: 0.96062
Parameters:
 a = 113.24591
 b = 854.28684
 c = 32.63305
 d = 0.63675

Bead 1455

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
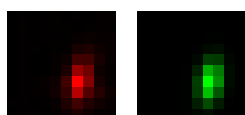Frame size : 10 pixels

Coordinates : -4.13 um (x), 60.1 um (y), 32.4 um (z)
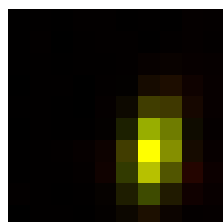Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	361 nm	373 nm	223 nm
max	656 nm	678 nm	223 nm
z	1.17 um	1.17 um	885 nm
Asymmetry	0.55		
Theta	80.1°		

XY profile & fitting parameters :

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

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

Parameters:
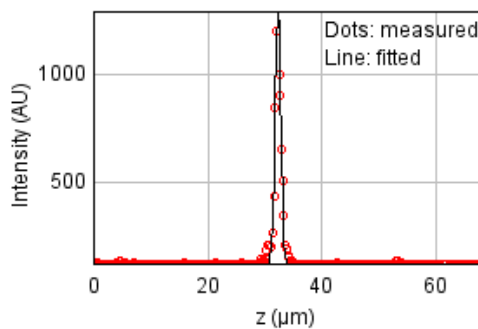 A = 1357.586   (brightness)
 B = 124.208   (background)
 a = 1.010 px
 b = 0.122 px
 c = 0.333 px

xc = 6.213 px
yc = 5.999 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 188041.389
Standard deviation: 24.74899
R^2: 0.96676
Parameters:
 a = 115.80708
 b = 1300.37583
 c = 32.37916
 d = 0.49667

Bead 1456

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
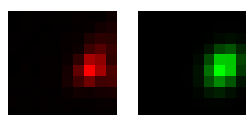Frame size : 10 pixels

Coordinates : 64.8 um (x), 55.7 um (y), 41.5 um (z)
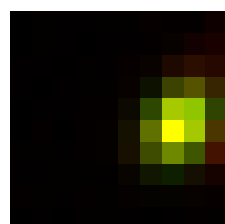Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	471 nm	487 nm	223 nm
max	615 nm	636 nm	223 nm
z	1.6 um	1.61 um	885 nm
Asymmetry	0.765		
Theta	56.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.940$

Parameters:
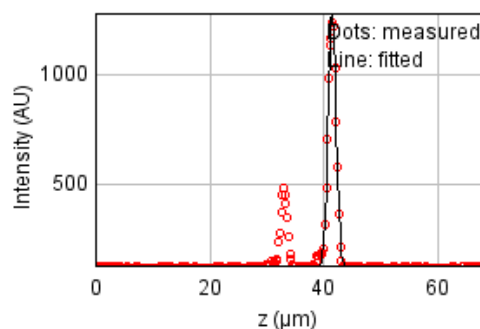A = 1031.264   (brightness)
B = 122.782   (background)
a = 0.529 px
b = 0.116 px
c = 0.431 px

xc = 7.338 px
yc = 4.689 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 684953.841
Standard deviation: 47.23473
R^2: 0.91279
Parameters:
a = 124.43480
b = 1288.12655
c = 41.50878
d = 0.68144

Bead 1457

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
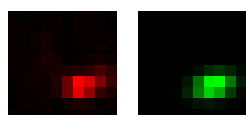Frame size : 10 pixels

Coordinates : 150 um (x), 47.7 um (y), 32.0 um (z)
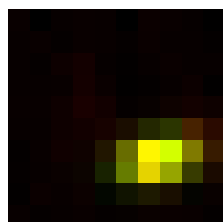Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	360 nm	372 nm	223 nm
max	612 nm	633 nm	223 nm
z	1.29 um	1.3 um	885 nm
Asymmetry	0.588		
Theta	12.4°		

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
   $R^2 = 0.961$

Parameters:
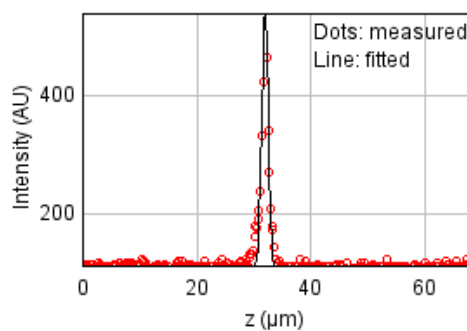 A = 521.641   (brightness)
 B = 115.122   (background)
 a = 0.389 px
 b = 0.142 px
 c = 1.003 px

xc = 6.414 px
yc = 6.365 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 37337.9316
Standard deviation: 11.02823
R^2: 0.95527
Parameters:
 a = 111.36925
 b = 542.63236
 c = 32.02926
 d = 0.54791

Bead 1458

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
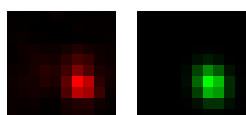Frame size : 10 pixels

Coordinates : -159 um (x), 30.8 um (y), 32.3 um (z)
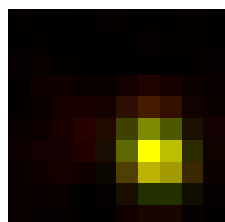Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	457 nm	473 nm	223 nm
max	548 nm	567 nm	223 nm
z	1.39 um	1.4 um	885 nm
Asymmetry	0.834		
Theta	-63.9°		

XY profile & fitting parameters :

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

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

Parameters:
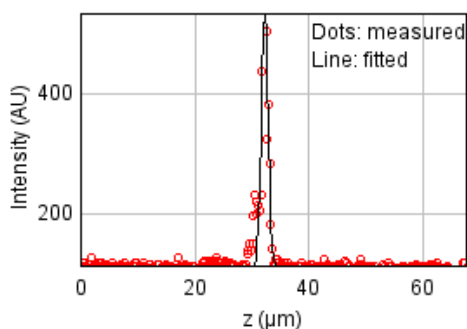A = 598.453   (brightness)
B = 125.541   (background)
a = 0.604 px
b = -0.077 px
c = 0.484 px

xc = 6.276 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: 85266.1585
Standard deviation: 16.66553
R^2: 0.90569
Parameters:
a = 111.93997
b = 533.49181
c = 32.33937
d = 0.59014

Bead 1459 (Rejected)

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 97.0 um (x), 7.04 um (y), 25.8 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

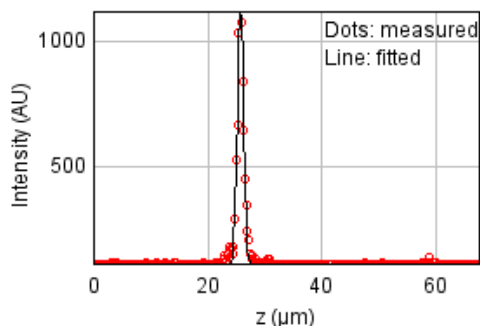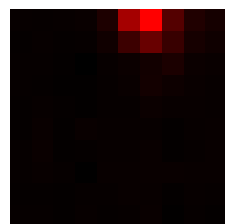| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.27 um	1.28 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 73377.7709
Standard deviation: 15.46013
R^2: 0.98325
Parameters:
 a = 115.30801
 b = 1123.93040
 c = 25.81553
 d = 0.54100

Bead 1460

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -155 um (x), -687 nm (y), 32.6 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	376 nm	389 nm	223 nm
max	452 nm	468 nm	223 nm
z	1.35 um	1.35 um	885 nm
Asymmetry	0.831		
Theta	34.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1275.569   (brightness)
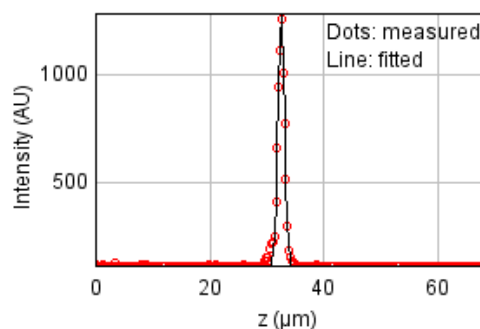 B = 125.610   (background)
 a = 0.749 px
 b = 0.137 px
 c = 0.855 px

xc = 5.362 px
yc = 6.120 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 54093.2772
Standard deviation: 13.27402
R^2: 0.99129
Parameters:
 a = 112.13026
 b = 1285.52530
 c = 32.60836
 d = 0.57197

Bead 1461

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
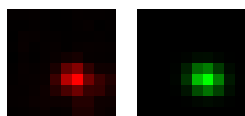Frame size : 10 pixels

Coordinates : 32.1 um (x), -70.8 um (y), 32.2 um (z)
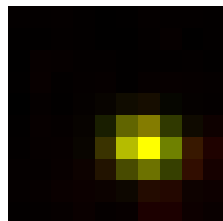Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	430 nm	223 nm
max	524 nm	542 nm	223 nm
z	1.33 um	1.33 um	885 nm
Asymmetry	0.794		
Theta	-10.0°		

XY profile & fitting parameters :

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

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

Parameters:
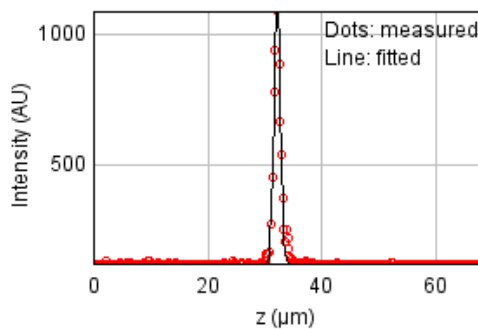 A = 992.256 (brightness)
 B = 126.990 (background)
 a = 0.497 px
 b = -0.049 px
 c = 0.767 px

xc = 5.807 px
yc = 5.958 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 74356.2513
Standard deviation: 15.56287
R^2: 0.98318
Parameters:
 a = 114.03879
 b = 1106.72919
 c = 32.23624
 d = 0.56417

Bead 1462 (Rejected)

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

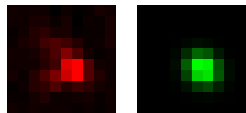Coordinates : -113 um (x), 80.4 um (y), 32.5 um (z)
Corresponding bead : Not found
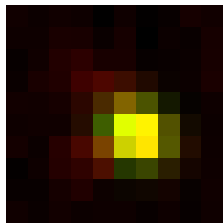Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	465 nm	481 nm	223 nm
max	532 nm	550 nm	223 nm
z	1.98 um	1.99 um	885 nm
Asymmetry	0.874		
Theta	-36.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.890$

Parameters:
A = 390.741   (brightness)
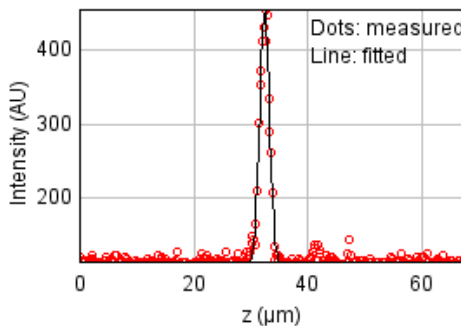B = 126.798   (background)
a = 0.526 px
b = -0.070 px
c = 0.568 px

xc = 5.506 px
yc = 5.386 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 23698.1685
Standard deviation: 8.78594
R^2: 0.96957
Parameters:
a = 113.38638
b = 455.03907
c = 32.49218
d = 0.83977

Bead 1463

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
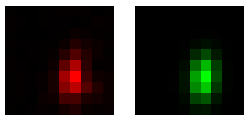Frame size : 10 pixels

Coordinates : 4.13 um (x), 71.7 um (y), 32.6 um (z)
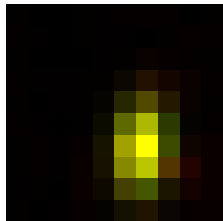Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	398 nm	411 nm	223 nm
max	680 nm	703 nm	223 nm
z	1.18 um	1.18 um	885 nm
Asymmetry	0.585		
Theta	85.6°		

XY profile & fitting parameters :

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

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

Parameters:
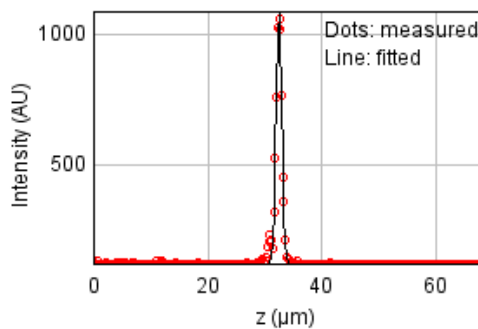 A = 945.840   (brightness)
 B = 123.096   (background)
 a = 0.845 px
 b = 0.043 px
 c = 0.293 px

xc = 5.768 px
yc = 6.100 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 51973.2034
Standard deviation: 13.01130
R^2: 0.98623
Parameters:
 a = 115.41732
 b = 1089.34726
 c = 32.55396
 d = 0.50010

Bead 1464

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
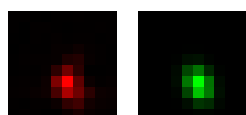Frame size : 10 pixels

Coordinates : -7.69 um (x), 71.2 um (y), 32.9 um (z)
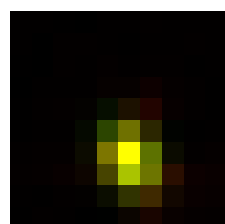Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	396 nm	410 nm	223 nm
max	531 nm	549 nm	223 nm
z	1.2 um	1.2 um	885 nm
Asymmetry	0.746		
Theta	-65.7°		

XY profile & fitting parameters :

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

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

Parameters:
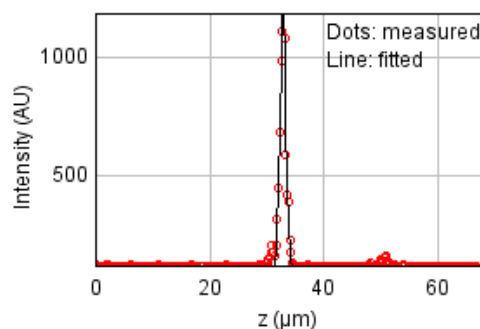 A = 1118.578   (brightness)
 B = 123.293   (background)
 a = 0.791 px
 b = -0.142 px
 c = 0.540 px

xc = 5.039 px
yc = 6.266 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 100293.852
Standard deviation: 18.07457
R^2: 0.97919
Parameters:
 a = 116.76773
 b = 1204.12449
 c = 32.89700
 d = 0.50904

Bead 1465

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -77.8 um (x), 54.0 um (y), 63.0 um (z)
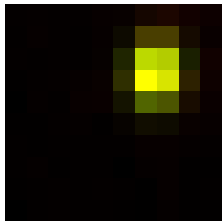Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	384 nm	397 nm	223 nm
max	498 nm	514 nm	223 nm
z	1.37 um	1.37 um	885 nm
Asymmetry	0.771		
Theta	85.6°		

XY profile & fitting parameters :

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

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

Parameters:
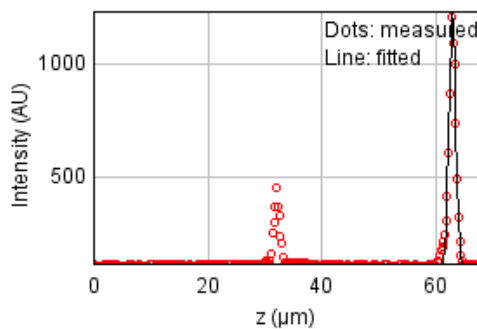 A = 1368.174   (brightness)
 B = 120.639   (background)
 a = 0.908 px
 b = 0.028 px
 c = 0.544 px

 xc = 6.448 px
 yc = 2.627 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 453484.019
Standard deviation: 38.43367
R^2: 0.92490
Parameters:
 a = 121.47574
 b = 1231.03057
 c = 62.95058
 d = 0.58072

Bead 1466 (Rejected)

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -63.8 um (x), 39.6 um (y), 32.9 um (z)
Corresponding bead : Not found
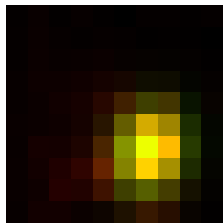Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	554 nm	573 nm	223 nm
max	680 nm	703 nm	223 nm
z	1.72 um	1.73 um	885 nm
Asymmetry	0.816		
Theta	76.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
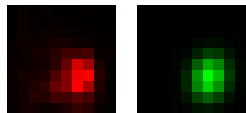
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.922$

Parameters:
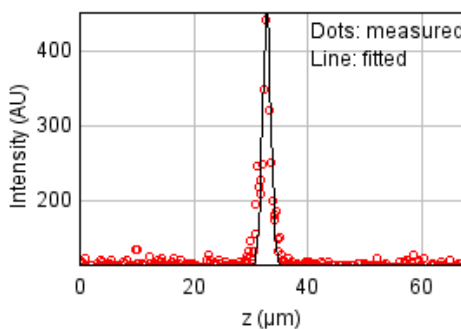 A = 690.010 (brightness)
 B = 128.313 (background)
 a = 0.429 px
 b = 0.033 px
 c = 0.298 px

xc = 6.121 px
yc = 6.159 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 61450.1106
Standard deviation: 14.14791
R^2: 0.91378
Parameters:
 a = 114.41632
 b = 453.23749
 c = 32.86190
 d = 0.73224

Bead 1467

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
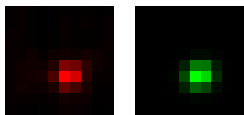Frame size : 10 pixels

Coordinates : -153 um (x), 3.76 um (y), 32.6 um (z)
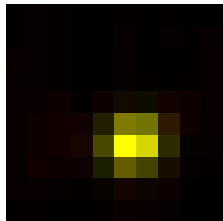Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	386 nm	399 nm	223 nm
max	439 nm	454 nm	223 nm
z	1.38 um	1.39 um	885 nm
Asymmetry	0.879		
Theta	18.9°		

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
  $R^2 = 0.985$

Parameters:
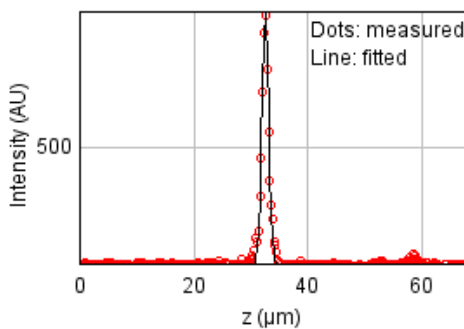 A = 1081.984   (brightness)
 B = 122.835   (background)
 a = 0.717 px
 b = 0.063 px
 c = 0.879 px

xc = 5.385 px
yc = 5.893 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 57882.4717
Standard deviation: 13.73107
R^2: 0.98203
Parameters:
 a = 115.37037
 b = 946.03242
 c = 32.61832
 d = 0.58714

Bead 1468

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
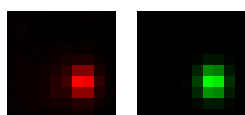Frame size : 10 pixels

Coordinates : -115 um (x), 2.85 um (y), 32.9 um (z)
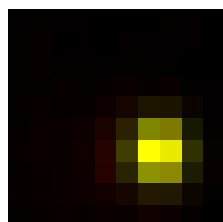Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	423 nm	438 nm	223 nm
max	472 nm	488 nm	223 nm
z	1.32 um	1.33 um	885 nm
Asymmetry	0.896		
Theta	-86.5°		

XY profile & fitting parameters :

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

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

Parameters:
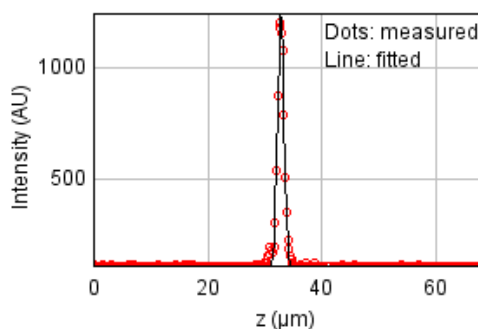 A = 1228.926   (brightness)
 B = 130.936   (background)
 a = 0.748 px
 b = -0.009 px
 c = 0.602 px

xc = 6.442 px
yc = 6.044 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 55895.4194
Standard deviation: 13.49332
R^2: 0.99026
Parameters:
 a = 114.56871
 b = 1251.88537
 c = 32.86557
 d = 0.56202

Bead 1469

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
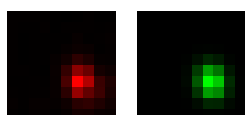Frame size : 10 pixels

Coordinates : 22.7 um (x), -10.1 um (y), 33.0 um (z)
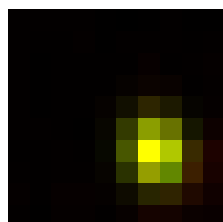Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	447 nm	463 nm	223 nm
max	533 nm	551 nm	223 nm
z	1.46 um	1.46 um	885 nm
Asymmetry	0.839		
Theta	-77.5°		

XY profile & fitting parameters :

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

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

Parameters:
  A = 1411.272   (brightness)
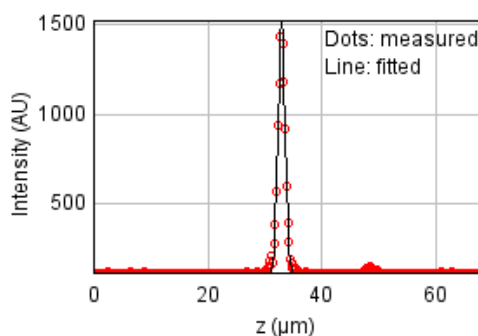 B = 129.275   (background)
  a = 0.661 px
  b = -0.042 px
  c = 0.481 px

  xc = 6.317 px
  yc = 6.029 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 47267.3185
Standard deviation: 12.40827
R^2: 0.99504
Parameters:
 a = 116.33455
 b = 1517.61591
 c = 33.00081
 d = 0.61894

Bead 1470

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
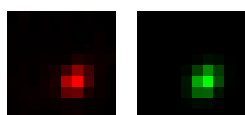Frame size : 10 pixels

Coordinates : -144 um (x), -19.6 um (y), 32.7 um (z)
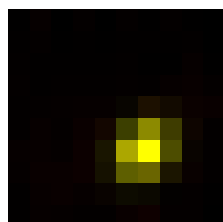Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	371 nm	384 nm	223 nm
max	469 nm	485 nm	223 nm
z	1.24 um	1.25 um	885 nm
Asymmetry	0.791		
Theta	48.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1143.324   (brightness)
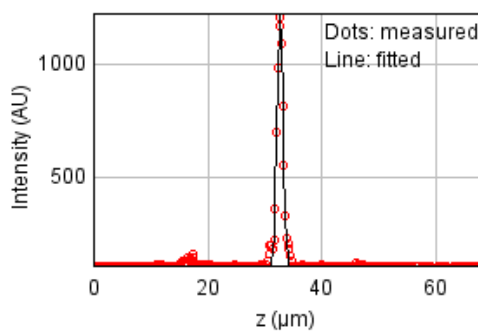 B = 119.669   (background)
 a = 0.813 px
 b = 0.181 px
 c = 0.771 px

xc = 5.773 px
yc = 5.951 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 61818.5886
Standard deviation: 14.19026
R^2: 0.98801
Parameters:
 a = 115.02202
 b = 1224.18444
 c = 32.73168
 d = 0.52852

Bead 1471

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
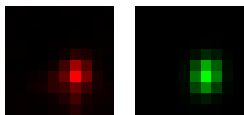Frame size : 10 pixels

Coordinates : -29.3 um (x), -38.5 um (y), 33.0 um (z)
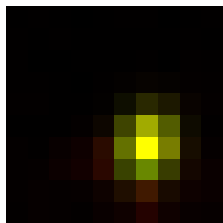Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	430 nm	223 nm
max	513 nm	531 nm	223 nm
z	1.33 um	1.33 um	885 nm
Asymmetry	0.81		
Theta	78.9°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1568.810   (brightness)
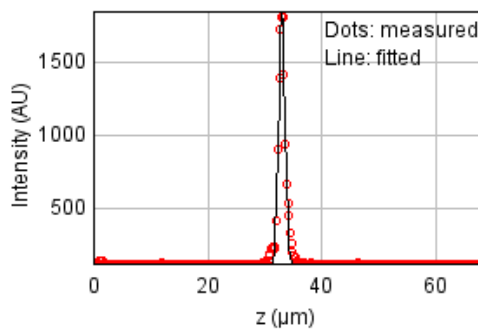 B = 137.982   (background)
 a = 0.767 px
 b = 0.051 px
 c = 0.519 px

xc = 6.042 px
yc = 5.886 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 228352.817
Standard deviation: 27.27307
R^2: 0.98298
Parameters:
 a = 117.00971
 b = 1846.17184
 c = 33.04387
 d = 0.56412

Bead 1472 (Rejected)

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif   (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -85.1 um (x), -86.9 um (y), 45.8 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

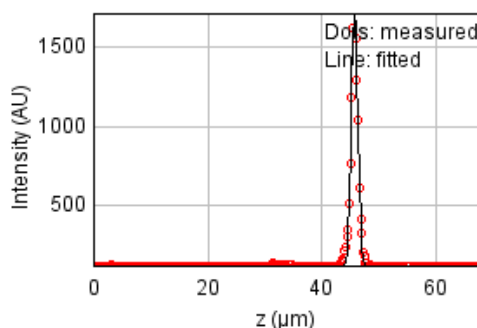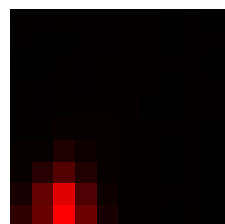| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.34 um	1.35 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 105939.342
Standard deviation: 18.57631
R^2: 0.99081
Parameters:
 a = 115.64289
 b = 1716.45410
 c = 45.80174
 d = 0.56998

Bead 1473

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
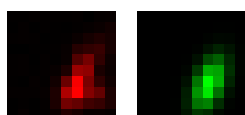Frame size : 10 pixels

Coordinates : 29.1 um (x), 95.6 um (y), 33.5 um (z)
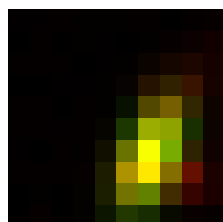Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	449 nm	464 nm	223 nm
max	874 nm	903 nm	223 nm
z	1.58 um	1.58 um	885 nm
Asymmetry	0.514		
Theta	68.0°		

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 = 0.911

Parameters:
 A = 876.975   (brightness)
 B = 129.912   (background)
 a = 0.596 px
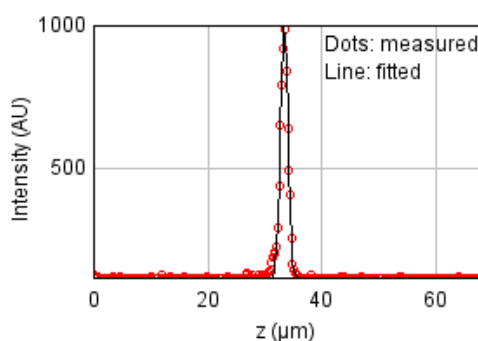 b = 0.170 px
 c = 0.245 px

xc = 6.100 px
yc = 6.229 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 34899.8066
Standard deviation: 10.66209
R^2: 0.99157
Parameters:
 a = 115.24689
 b = 1003.71039
 c = 33.47234
 d = 0.66907

Bead 1474

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
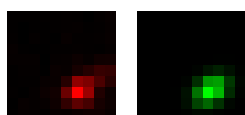Frame size : 10 pixels

Coordinates : 147 um (x), 94.6 um (y), 32.7 um (z)
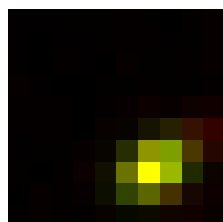Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	395 nm	408 nm	223 nm
max	555 nm	574 nm	223 nm
z	1.43 um	1.43 um	885 nm
Asymmetry	0.711		
Theta	33.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 767.550   (brightness)
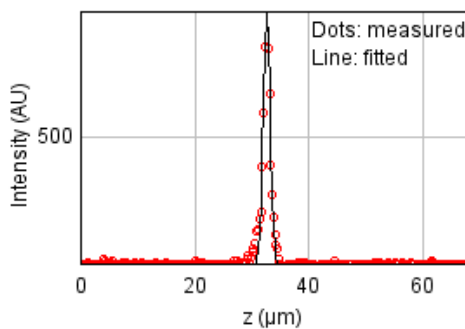 B = 116.648   (background)
 a = 0.568 px
 b = 0.197 px
 c = 0.730 px

xc = 6.281 px
yc = 6.792 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 60974.0623
Standard deviation: 14.09300
R^2: 0.97930
Parameters:
 a = 111.33694
 b = 892.54164
 c = 32.68595
 d = 0.60603

Bead 1475

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
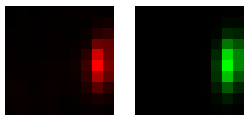Frame size : 10 pixels

Coordinates : -5.89 um (x), 89.8 um (y), 35.1 um (z)
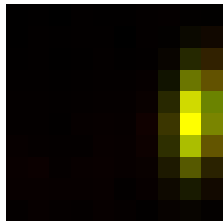Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	348 nm	359 nm	223 nm
max	776 nm	802 nm	223 nm
z	1.24 um	1.25 um	885 nm
Asymmetry	0.448		
Theta	85.2°		

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

$R^2 = 0.988$

Parameters:
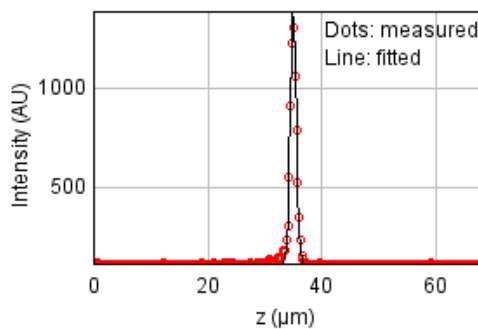A = 1336.334   (brightness)
B = 126.447   (background)
a = 1.105 px
b = 0.074 px
c = 0.229 px

xc = 8.218 px
yc = 4.776 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 49965.1752
Standard deviation: 12.75747
R^2: 0.99265
Parameters:
a = 114.25163
b = 1393.02827
c = 35.05279
d = 0.52673

Bead 1476

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
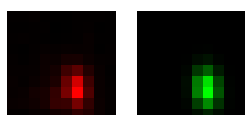Frame size : 10 pixels

Coordinates : -55.5 um (x), 44.3 um (y), 33.0 um (z)
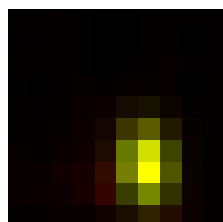Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	384 nm	397 nm	223 nm
max	598 nm	618 nm	223 nm
z	1.3 um	1.31 um	885 nm
Asymmetry	0.642		
Theta	-85.5°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.962$

   Parameters:
   A = 1329.878   (brightness)
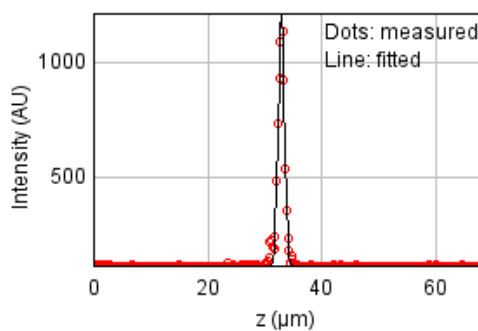   B = 134.889   (background)
   a = 0.907 px
   b = -0.042 px
   c = 0.379 px

   xc = 5.871 px
   yc = 6.659 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 64020.1968
Standard deviation: 14.44074
R^2: 0.98802
Parameters:
 a = 113.96401
 b = 1219.18393
 c = 32.96313
 d = 0.55271

Bead 1477

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
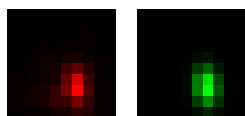Frame size : 10 pixels

Coordinates : -55.5 um (x), 44.3 um (y), 33.0 um (z)
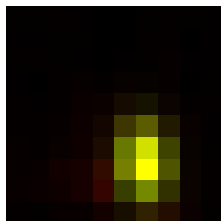Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	384 nm	397 nm	223 nm
max	598 nm	618 nm	223 nm
z	1.3 um	1.31 um	885 nm
Asymmetry	0.642		
Theta	-85.5°		

XY profile & fitting parameters :

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

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

Parameters:
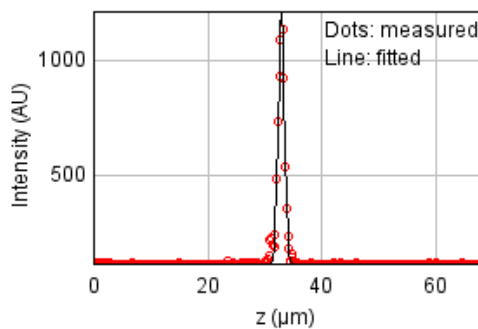A = 1329.878   (brightness)
B = 134.889   (background)
a = 0.907 px
b = -0.042 px
c = 0.379 px

xc = 5.871 px
yc = 6.659 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 64020.1968
Standard deviation: 14.44074
R^2: 0.98802
Parameters:
a = 113.96401
b = 1219.18393
c = 32.96313
d = 0.55271

Bead 1478 (Rejected)

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -63.8 um (x), 39.6 um (y), 32.9 um (z)
Corresponding bead : Not found
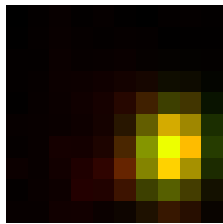Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	560 nm	579 nm	223 nm
max	679 nm	702 nm	223 nm
z	1.72 um	1.73 um	885 nm
Asymmetry	0.825		
Theta	75.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
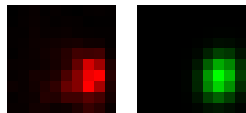
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.925$

Parameters:
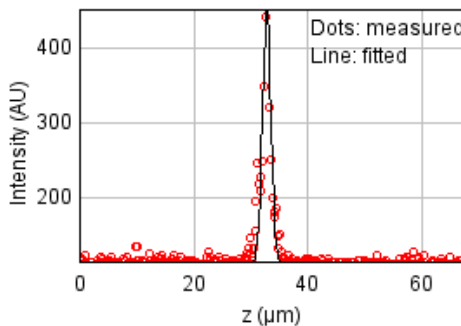 A = 685.739   (brightness)
 B = 129.183   (background)
 a = 0.419 px
 b = 0.033 px
 c = 0.299 px

xc = 7.123 px
yc = 6.159 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 61450.1106
Standard deviation: 14.14791
R^2: 0.91378
Parameters:
 a = 114.41632
 b = 453.23749
 c = 32.86190
 d = 0.73224

Bead 1479

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
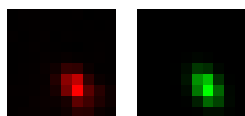Frame size : 10 pixels

Coordinates : 4.59 um (x), -18.4 um (y), 33.5 um (z)
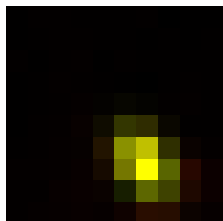Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	367 nm	379 nm	223 nm
max	546 nm	564 nm	223 nm
z	1.06 um	1.06 um	885 nm
Asymmetry	0.672		
Theta	-58.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.976$

Parameters:
A = 1608.406   (brightness)
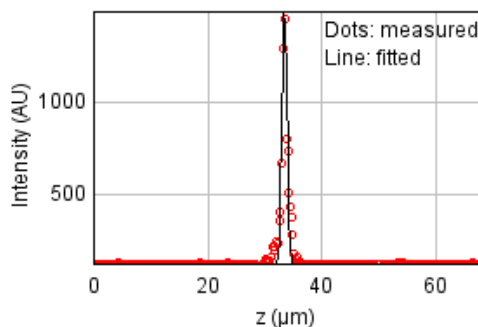B = 130.248   (background)
a = 0.850 px
b = -0.243 px
c = 0.597 px

xc = 5.861 px
yc = 6.683 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 397860.607
Standard deviation: 35.99948
R^2: 0.94526
Parameters:
a = 118.61453
b = 1512.09510
c = 33.51051
d = 0.44975

Bead 1480

Date : Mon Oct 17 13:29:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
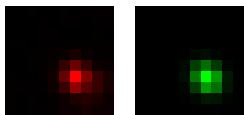Frame size : 10 pixels

Coordinates : 51.5 um (x), -52.0 um (y), 33.2 um (z)
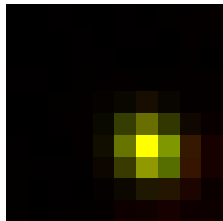Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	422 nm	436 nm	223 nm
max	485 nm	502 nm	223 nm
z	1.53 um	1.53 um	885 nm
Asymmetry	0.869		
Theta	-41.5°		

XY profile & fitting parameters :

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

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

Parameters:
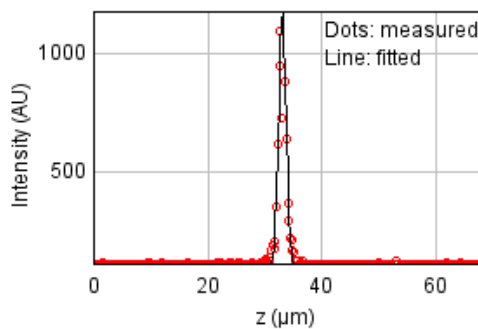 A = 1206.770   (brightness)
 B = 127.720   (background)
 a = 0.651 px
 b = -0.092 px
 c = 0.673 px

xc = 6.120 px
yc = 6.137 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 376650.183
Standard deviation: 35.02675
R^2: 0.93809
Parameters:
 a = 114.75540
 b = 1178.13277
 c = 33.15040
 d = 0.64852

Bead 1481 (Rejected)

Date : Mon Oct 17 13:29:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 146 um (x), -62.3 um (y), 10.6 um (z)
Corresponding bead : Not found
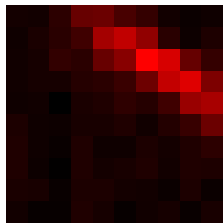Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	1.55 um	1.6 um	223 nm
max	3.67 um	3.79 um	223 nm
z	1.53 um	1.54 um	885 nm
Asymmetry	0.422		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
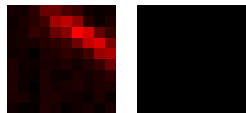
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.384$

Parameters:
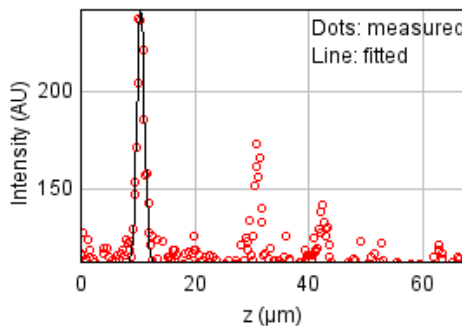 A = -48.904   (brightness)
 B = 154.861   (background)
 a = 0.017 px
 b = -0.032 px
 c = 0.029 px

xc = 2.825 px
yc = 6.964 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 30952.8516
Standard deviation: 10.04110
R^2: 0.73266
Parameters:
 a = 113.03245
 b = 242.53126
 c = 10.62739
 d = 0.64996

Bead 1482 (Rejected)

Date : Mon Oct 17 13:29:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 106 um (x), -67.3 um (y), 51.0 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

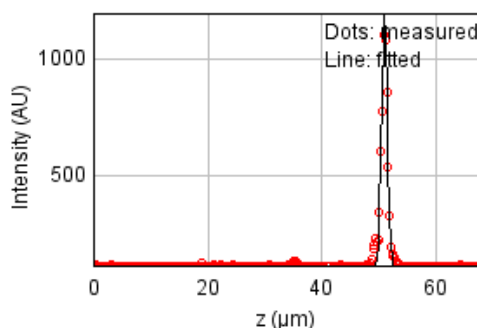| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.19 um	1.19 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 59867.9202
Standard deviation: 13.96458
R^2: 0.98712
Parameters:
 a = 114.48078
 b = 1191.01745
 c = 51.03464
 d = 0.50465

Bead 1483

Date : Mon Oct 17 13:29:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
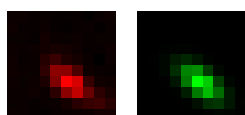Frame size : 10 pixels

Coordinates : 152 um (x), -76.4 um (y), 32.4 um (z)
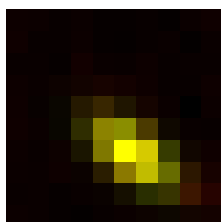Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	381 nm	394 nm	223 nm
max	760 nm	786 nm	223 nm
z	1.48 um	1.49 um	885 nm
Asymmetry	0.501		
Theta	-37.9°		

XY profile & fitting parameters :

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

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

Parameters:
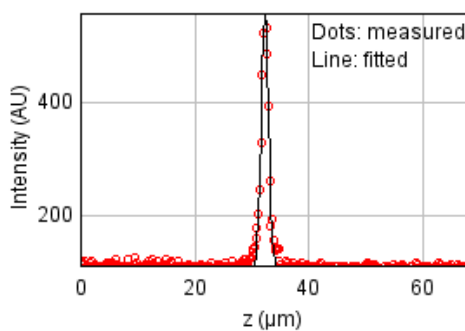 A = 475.228   (brightness)
 B = 114.580   (background)
 a = 0.494 px
 b = -0.336 px
 c = 0.664 px

xc = 5.337 px
yc = 6.110 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21960.6836
Standard deviation: 8.45773
R^2: 0.97813
Parameters:
 a = 111.55780
 b = 558.77427
 c = 32.37594
 d = 0.63021

Bead 1484 (Rejected)

Date : Mon Oct 17 13:29:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 106 um (x), -82.1 um (y), 41.9 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

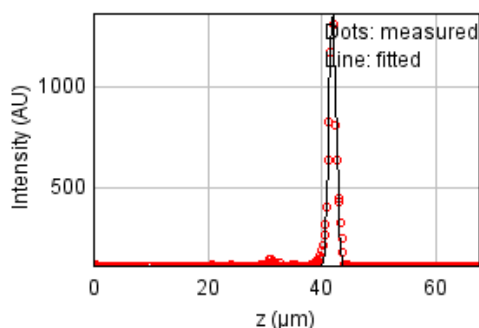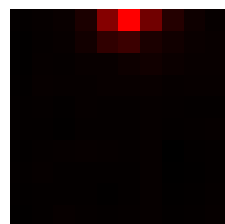| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.45 um	1.45 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 150092.100
Standard deviation: 22.11107
R^2: 0.98050
Parameters:
 a = 114.53836
 b = 1369.16740
 c = 41.93590
 d = 0.61478

Bead 1485

Date : Mon Oct 17 13:29:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
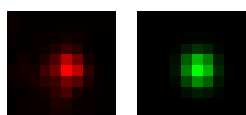Frame size : 10 pixels

Coordinates : -59.8 um (x), -92.4 um (y), 32.6 um (z)
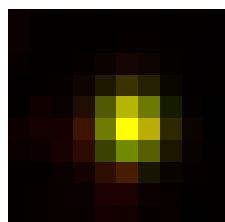Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	492 nm	508 nm	223 nm
max	531 nm	549 nm	223 nm
z	1.4 um	1.41 um	885 nm
Asymmetry	0.926		
Theta	-82.6°		

XY profile & fitting parameters :

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

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

Parameters:
A = 774.031   (brightness)
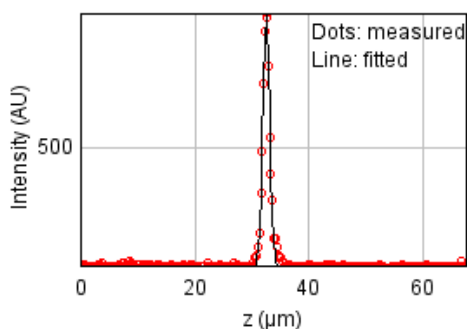B = 129.393   (background)
a = 0.554 px
b = -0.010 px
c = 0.477 px

xc = 5.154 px
yc = 4.857 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 39400.0073
Standard deviation: 11.32867
R^2: 0.98759
Parameters:
a = 114.05127
b = 934.86943
c = 32.60998
d = 0.59635

Bead 1486

Date : Mon Oct 17 13:29:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
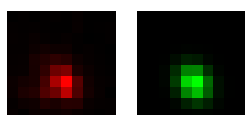Frame size : 10 pixels

Coordinates : -78.4 um (x), 47.5 um (y), 33.4 um (z)
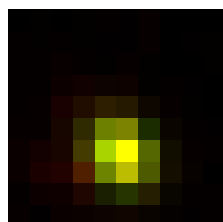Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	471 nm	487 nm	223 nm
max	561 nm	580 nm	223 nm
z	1.65 um	1.66 um	885 nm
Asymmetry	0.839		
Theta	-55.0°		

XY profile & fitting parameters :

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

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

Parameters:
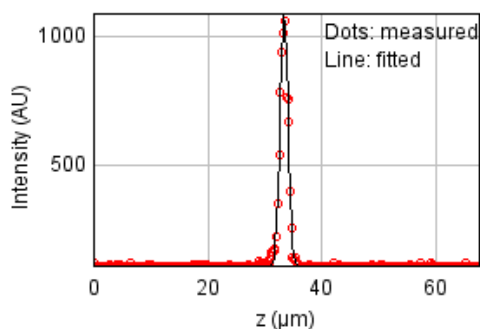A = 950.005   (brightness)
B = 130.966   (background)
a = 0.547 px
b = -0.084 px
c = 0.485 px

xc = 4.692 px
yc = 6.135 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 63164.8537
Standard deviation: 14.34394
R^2: 0.98793
Parameters:
a = 112.55958
b = 1086.74733
c = 33.43999
d = 0.70206

Bead 1487

Date : Mon Oct 17 13:29:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
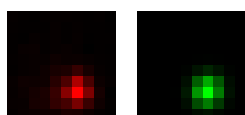Frame size : 10 pixels

Coordinates : -94.2 um (x), 20.3 um (y), 33.5 um (z)
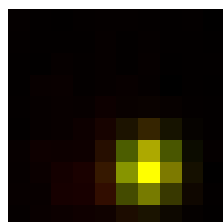Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	455 nm	470 nm	223 nm
max	488 nm	505 nm	223 nm
z	1.64 um	1.65 um	885 nm
Asymmetry	0.932		
Theta	71.0°		

XY profile & fitting parameters :

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

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

Parameters:
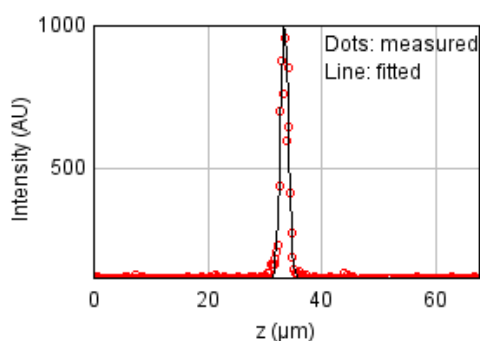 A = 1073.768   (brightness)
 B = 128.592   (background)
 a = 0.639 px
 b = 0.026 px
 c = 0.572 px

xc = 5.930 px
yc = 6.863 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 222831.570
Standard deviation: 26.94134
R^2: 0.95080
Parameters:
 a = 112.55606
 b = 1004.84625
 c = 33.50263
 d = 0.69677

Bead 1488

Date : Mon Oct 17 13:29:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
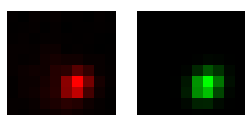Frame size : 10 pixels

Coordinates : -126 um (x), 14.9 um (y), 33.4 um (z)
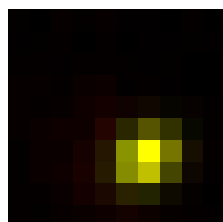Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	407 nm	421 nm	223 nm
max	488 nm	505 nm	223 nm
z	1.35 um	1.35 um	885 nm
Asymmetry	0.834		
Theta	40.9°		

XY profile & fitting parameters :

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

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

Parameters:
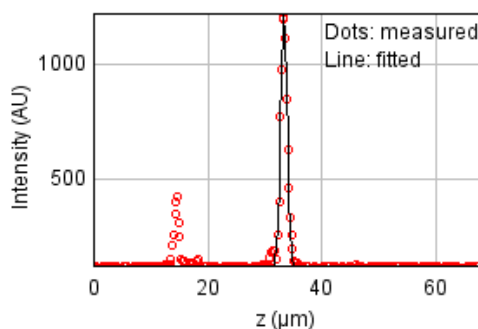 A = 1133.755   (brightness)
 B = 130.690   (background)
 a = 0.668 px
 b = 0.122 px
 c = 0.703 px

xc = 5.857 px
yc = 6.319 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 398187.586
Standard deviation: 36.01427
R^2: 0.93198
Parameters:
 a = 121.00979
 b = 1225.01322
 c = 33.41130
 d = 0.57279

Bead 1489

Date : Mon Oct 17 13:29:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
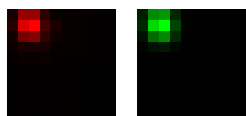Frame size : 10 pixels

Coordinates : 94.1 um (x), -46.0 um (y), 56.9 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	421 nm	435 nm	223 nm
max	489 nm	506 nm	223 nm
z	1.15 um	1.16 um	885 nm
Asymmetry	0.861		
Theta	-78.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.992$

Parameters:
 A = 1576.343   (brightness)
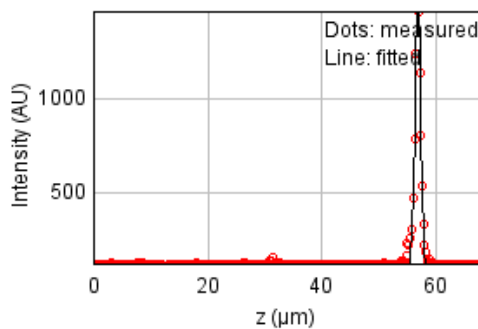 B = 118.967   (background)
 a = 0.749 px
 b = -0.038 px
 c = 0.569 px

xc = 1.605 px
yc = 0.925 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 88415.7118
Standard deviation: 16.97054
R^2: 0.98802
Parameters:
 a = 115.34567
 b = 1494.22546
 c = 56.86404
 d = 0.48856

Bead 1490

Date : Mon Oct 17 13:29:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
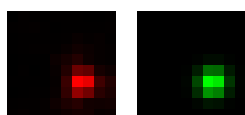Frame size : 10 pixels

Coordinates : 55.1 um (x), -50.2 um (y), 33.4 um (z)
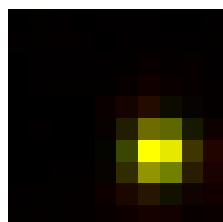Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	430 nm	445 nm	223 nm
max	447 nm	463 nm	223 nm
z	1.34 um	1.34 um	885 nm
Asymmetry	0.962		
Theta	39.5°		

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 = 0.973

Parameters:
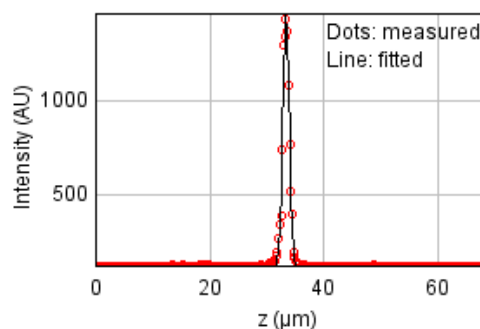 A = 1357.735   (brightness)
 B = 129.598   (background)
 a = 0.692 px
 b = 0.027 px
 c = 0.702 px

xc = 6.427 px
yc = 6.096 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 106279.351
Standard deviation: 18.60610
R^2: 0.98714
Parameters:
 a = 113.17238
 b = 1467.77407
 c = 33.42864
 d = 0.56874

Bead 1491

Date : Mon Oct 17 13:29:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

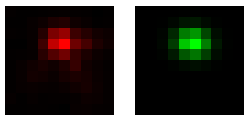Coordinates : 45.9 um (x), -58.1 um (y), 18.5 um (z)
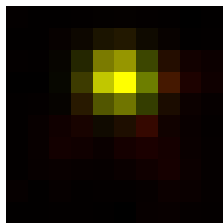Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	450 nm	465 nm	223 nm
max	531 nm	549 nm	223 nm
z	1.38 um	1.39 um	885 nm
Asymmetry	0.847		
Theta	-7.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.952$

Parameters:
A = 1183.856   (brightness)
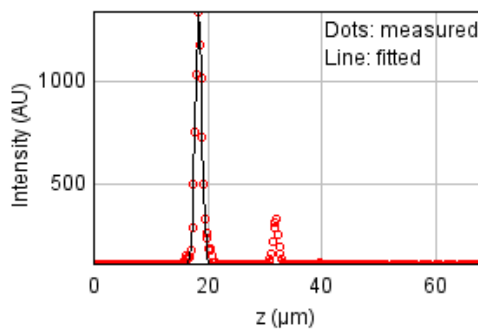B = 143.334   (background)
a = 0.479 px
b = -0.025 px
c = 0.659 px

xc = 4.758 px
yc = 2.896 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 241486.730
Standard deviation: 28.04642
R^2: 0.96544
Parameters:
a = 119.15759
b = 1332.48926
c = 18.47017
d = 0.58675

Bead 1492

Date : Mon Oct 17 13:29:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
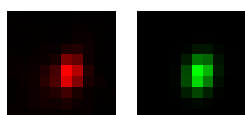Frame size : 10 pixels

Coordinates : -114 um (x), -66.9 um (y), 32.9 um (z)
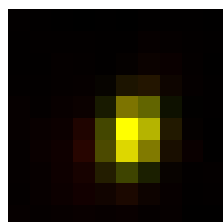Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	398 nm	412 nm	223 nm
max	544 nm	563 nm	223 nm
z	1.19 um	1.19 um	885 nm
Asymmetry	0.732		
Theta	73.5°		

XY profile & fitting parameters :

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

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

Parameters:
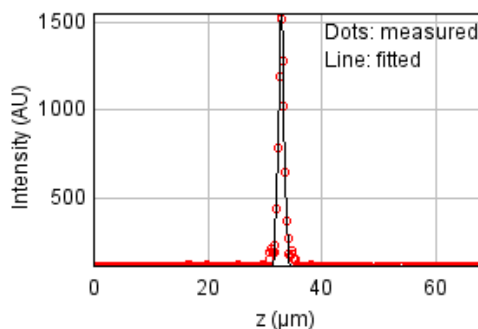A = 1535.402   (brightness)
B = 135.847   (background)
a = 0.814 px
b = 0.107 px
c = 0.484 px

xc = 5.249 px
yc = 5.264 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 80753.3233
Standard deviation: 16.21851
R^2: 0.99028
Parameters:
 a = 114.25327
 b = 1555.94861
 c = 32.94684
 d = 0.50443

Bead 1493 (Rejected)

Date : Mon Oct 17 13:29:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 162 um (x), 94.4 um (y), 59.8 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

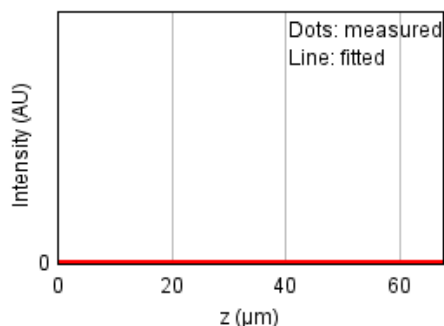| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	263 nm	264 nm	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 0.00000E0
Standard deviation: 0.00000E0
R^2: 0.00000
Parameters:
 a = 0.00000E0
 b = 0.00000E0
 c = -0.11115
 d = 0.11151

Bead 1494

Date : Mon Oct 17 13:29:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
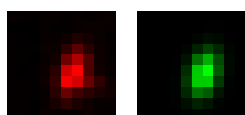Frame size : 10 pixels

Coordinates : 12.9 um (x), 71.9 um (y), 33.4 um (z)
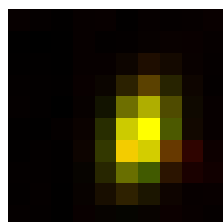Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	445 nm	460 nm	223 nm
max	706 nm	729 nm	223 nm
z	1.1 um	1.1 um	885 nm
Asymmetry	0.631		
Theta	73.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.968$

Parameters:
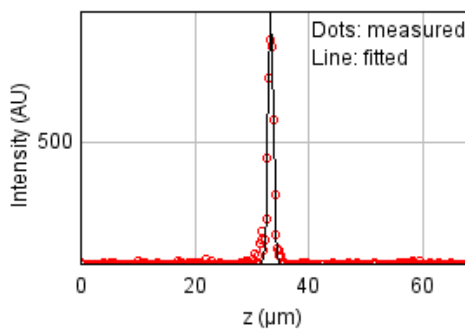A = 792.130   (brightness)
B = 119.750   (background)
a = 0.644 px
b = 0.112 px
c = 0.303 px

xc = 5.630 px
yc = 5.271 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 56203.6410
Standard deviation: 13.53047
R^2: 0.97700
Parameters:
a = 115.46885
b = 922.78027
c = 33.36973
d = 0.46602

Bead 1495

Date : Mon Oct 17 13:29:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
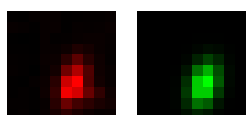Frame size : 10 pixels

Coordinates : 12.9 um (x), 71.9 um (y), 33.4 um (z)
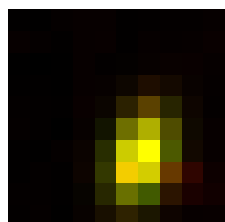Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	446 nm	461 nm	223 nm
max	708 nm	732 nm	223 nm
z	1.1 um	1.1 um	885 nm
Asymmetry	0.629		
Theta	73.4°		

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 = 791.305   (brightness)
B = 119.175   (background)
a = 0.642 px
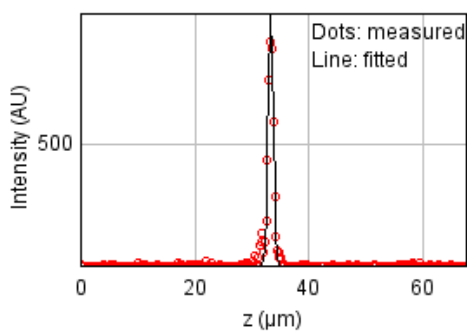b = 0.112 px
c = 0.301 px

xc = 5.630 px
yc = 6.272 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 56203.6410
Standard deviation: 13.53047
R^2: 0.97700
Parameters:
a = 115.46885
b = 922.78027
c = 33.36973
d = 0.46602

Bead 1496 (Rejected)

Date : Mon Oct 17 13:29:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

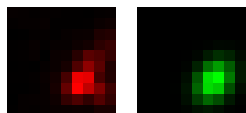Coordinates : 67.4 um (x), 67.9 um (y), 33.9 um (z)
Corresponding bead : Not found
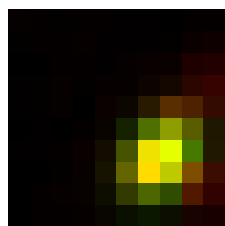Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	511 nm	528 nm	223 nm
max	682 nm	705 nm	223 nm
z	1.93 um	1.94 um	885 nm
Asymmetry	0.749		
Theta	53.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.894$

Parameters:
 A = 661.907   (brightness)
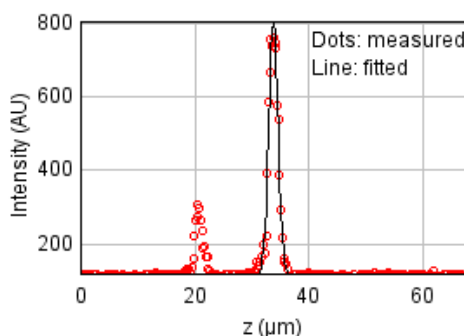 B = 124.203   (background)
 a = 0.436 px
 b = 0.107 px
 c = 0.366 px

xc = 6.572 px
yc = 6.295 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 238497.852
Standard deviation: 27.87232
R^2: 0.92544
Parameters:
 a = 118.58200
 b = 803.33757
 c = 33.85820
 d = 0.81874

Bead 1497

Date : Mon Oct 17 13:29:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
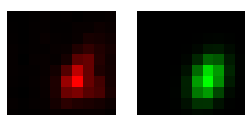Frame size : 10 pixels

Coordinates : 40.7 um (x), 61.9 um (y), 34.0 um (z)
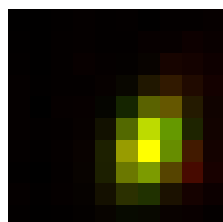Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	474 nm	490 nm	223 nm
max	699 nm	723 nm	223 nm
z	1.36 um	1.36 um	885 nm
Asymmetry	0.678		
Theta	66.2°		

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
   $R^2 = 0.928$

Parameters:
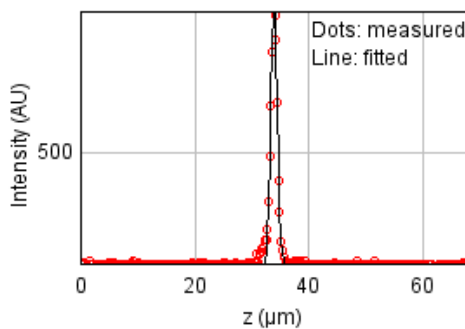 A = 782.085   (brightness)
 B = 127.165   (background)
 a = 0.544 px
 b = 0.119 px
 c = 0.327 px

xc = 6.013 px
yc = 5.731 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 39452.9976
Standard deviation: 11.33629
R^2: 0.98908
Parameters:
 a = 114.35390
 b = 1005.64061
 c = 33.97584
 d = 0.57587

Bead 1498

Date : Mon Oct 17 13:29:08 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
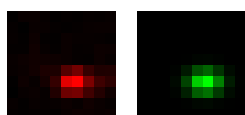Frame size : 10 pixels

Coordinates : 158 um (x), 33.9 um (y), 33.3 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	403 nm	223 nm
max	546 nm	564 nm	223 nm
z	1.77 um	1.78 um	885 nm
Asymmetry	0.714		
Theta	1.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.965$

Parameters:
A = 545.144   (brightness)
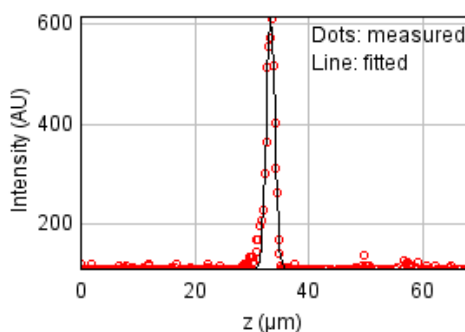B = 116.003   (background)
a = 0.451 px
b = 0.009 px
c = 0.883 px

xc = 5.741 px
yc = 6.042 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 34933.7577
Standard deviation: 10.66727
R^2: 0.97723
Parameters:
 a = 110.53096
 b = 618.37822
 c = 33.34912
 d = 0.75099

Bead 1499

Date : Mon Oct 17 13:29:08 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
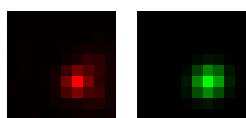Frame size : 10 pixels

Coordinates : 72.8 um (x), 30.6 um (y), 34.0 um (z)
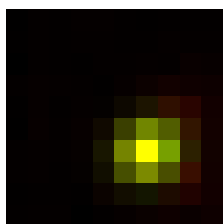Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	452 nm	467 nm	223 nm
max	500 nm	517 nm	223 nm
z	1.55 um	1.56 um	885 nm
Asymmetry	0.904		
Theta	29.2°		

XY profile & fitting parameters :

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

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

Parameters:
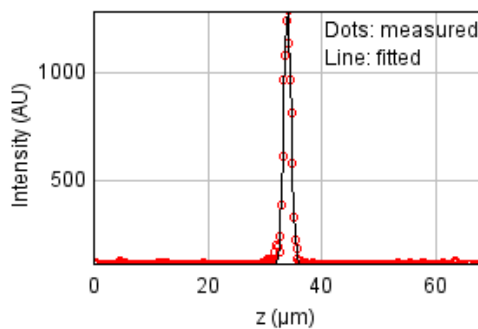 A = 1046.425   (brightness)
 B = 131.615   (background)
 a = 0.566 px
 b = 0.051 px
 c = 0.628 px

xc = 6.084 px
yc = 6.006 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 56889.7870
Standard deviation: 13.61282
R^2: 0.99197
Parameters:
 a = 113.27923
 b = 1285.13788
 c = 34.04908
 d = 0.65788

Bead 1500 (Rejected)

Date : Mon Oct 17 13:29:08 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 158 um (x), -49.7 um (y), 60.8 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

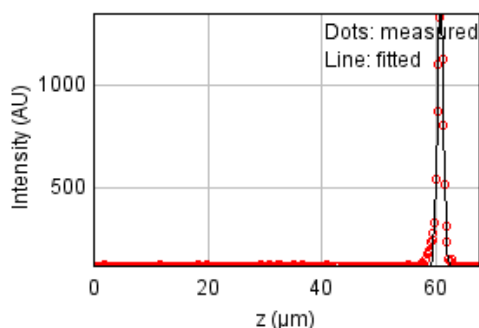| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.25 um	1.26 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 69993.9279
Standard deviation: 15.09945
R^2: 0.98956
Parameters:
 a = 111.91825
 b = 1374.67832
 c = 60.82163
 d = 0.53110