Bead 1001

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
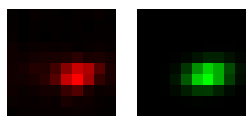
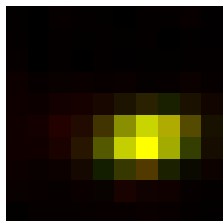Coordinates : -154 um (x), 21.0 um (y), 21.7 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	396 nm	410 nm	223 nm
max	677 nm	699 nm	223 nm
z	1.75 um	1.76 um	885 nm
Asymmetry	0.586		
Theta	9.6°		

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 = 702.097   (brightness)
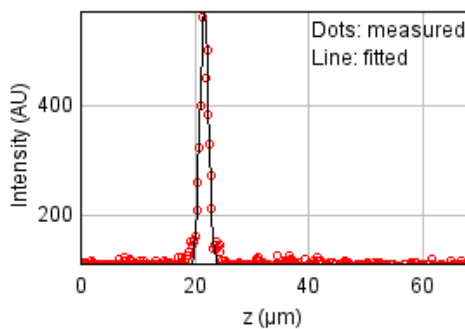 B = 124.062   (background)
 a = 0.309 px
 b = 0.092 px
 c = 0.839 px

xc = 5.965 px
yc = 5.611 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 38592.2767
Standard deviation: 11.21195
R^2: 0.96949
Parameters:
 a = 111.11864
 b = 572.98332
 c = 21.74185
 d = 0.74234

Bead 1002

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
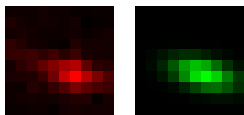Frame size : 10 pixels

Coordinates : 139 um (x), 16.1 um (y), 18.9 um (z)
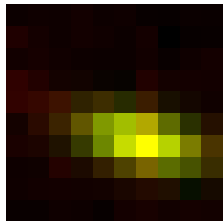Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	435 nm	449 nm	223 nm
max	987 nm	1.02 um	223 nm
z	2.44 um	2.45 um	885 nm
Asymmetry	0.44		
Theta	-14.0°		

XY profile & fitting parameters :

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

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

Parameters:
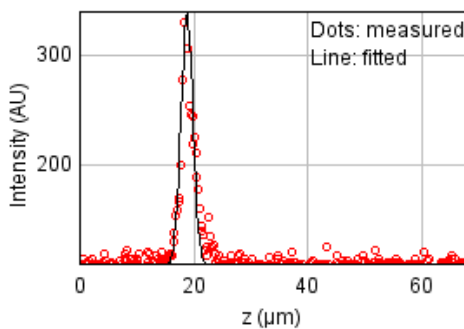 A = 234.948   (brightness)
 B = 116.326   (background)
 a = 0.171 px
 b = -0.135 px
 c = 0.677 px

xc = 5.742 px
yc = 5.754 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 37804.0170
Standard deviation: 11.09685
R^2: 0.91560
Parameters:
 a = 111.05432
 b = 338.98895
 c = 18.88669
 d = 1.03590

Bead 1003

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
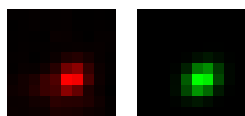Frame size : 10 pixels

Coordinates : -63.3 um (x), -27.3 um (y), 22.4 um (z)
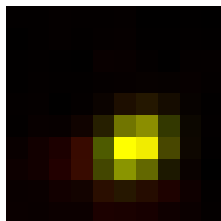Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	421 nm	435 nm	223 nm
max	539 nm	557 nm	223 nm
z	1.59 um	1.6 um	885 nm
Asymmetry	0.781		
Theta	35.0°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 863.938   (brightness)
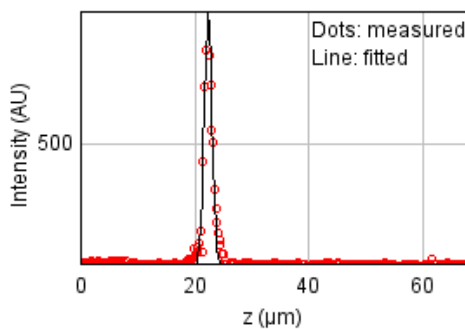 B = 132.815   (background)
 a = 0.559 px
 b = 0.139 px
 c = 0.660 px

  xc = 5.426 px
  yc = 6.004 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 119415.568
Standard deviation: 19.72247
R^2: 0.96629
Parameters:
 a = 115.15581
 b = 921.66097
 c = 22.42401
 d = 0.67721

Bead 1004

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
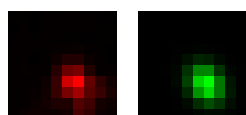Frame size : 10 pixels

Coordinates : 17.1 um (x), -48.5 um (y), 22.0 um (z)
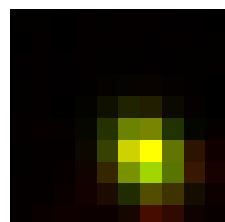Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	493 nm	510 nm	223 nm
max	613 nm	634 nm	223 nm
z	1.45 um	1.46 um	885 nm
Asymmetry	0.804		
Theta	-55.8°		

XY profile & fitting parameters :

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

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

Parameters:
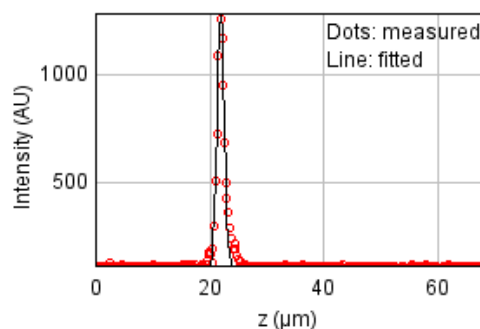 A = 1061.836   (brightness)
 B = 127.202   (background)
 a = 0.490 px
 b = -0.091 px
 c = 0.418 px

xc = 5.740 px
yc = 6.228 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 172664.608
Standard deviation: 23.71551
R^2: 0.97402
Parameters:
 a = 116.93043
 b = 1276.91919
 c = 21.98987
 d = 0.61713

Bead 1005

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
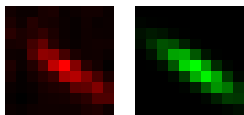Frame size : 10 pixels

Coordinates : 158 um (x), -56.4 um (y), 20.9 um (z)
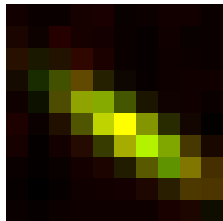Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	363 nm	375 nm	223 nm
max	1.35 um	1.4 um	223 nm
z	1.58 um	1.58 um	885 nm
Asymmetry	0.268		
Theta	-33.3°		

XY profile & fitting parameters :

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

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

Parameters:
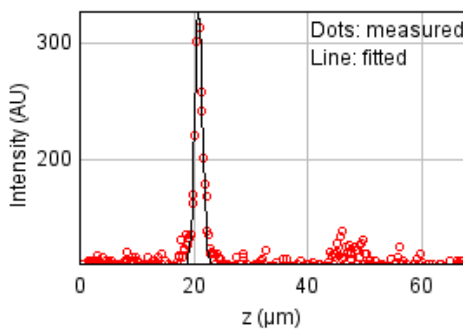A = 219.840   (brightness)
B = 114.595   (background)
a = 0.358 px
b = -0.434 px
c = 0.734 px

xc = 5.176 px
yc = 5.340 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21205.7130
Standard deviation: 8.31108
R^2: 0.91867
Parameters:
a = 111.73612
b = 326.28323
c = 20.93209
d = 0.66937

Bead 1006

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
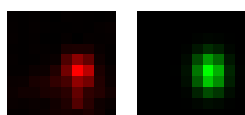Frame size : 10 pixels

Coordinates : -25.9 um (x), -63.8 um (y), 21.8 um (z)
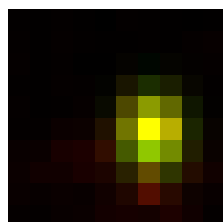Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	480 nm	496 nm	223 nm
max	602 nm	622 nm	223 nm
z	1.49 um	1.49 um	885 nm
Asymmetry	0.798		
Theta	-87.4°		

XY profile & fitting parameters :

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

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

Parameters:
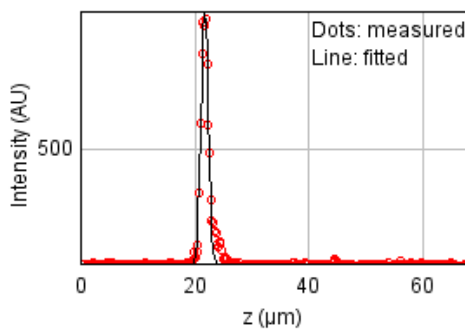A = 729.319   (brightness)
B = 129.865   (background)
a = 0.582 px
b = -0.010 px
c = 0.371 px

xc = 6.174 px
yc = 5.175 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 91884.7980
Standard deviation: 17.30026
R^2: 0.97484
Parameters:
a = 114.94184
b = 965.30567
c = 21.82531
d = 0.63185

Bead 1007

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
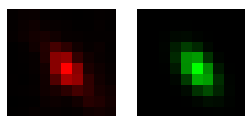Frame size : 10 pixels

Coordinates : 90.4 um (x), -65.6 um (y), 21.8 um (z)
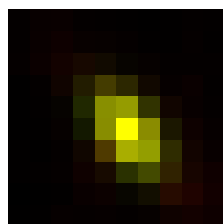Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	413 nm	427 nm	223 nm
max	728 nm	752 nm	223 nm
z	1.33 um	1.34 um	885 nm
Asymmetry	0.568		
Theta	-53.5°		

XY profile & fitting parameters :

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

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

Parameters:
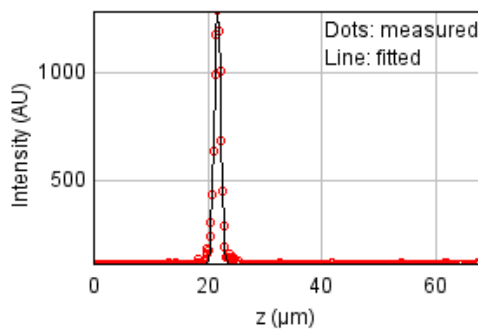 A = 1109.340   (brightness)
 B = 136.472   (background)
 a = 0.599 px
 b = -0.255 px
 c = 0.442 px

xc = 5.032 px
yc = 5.080 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 38496.9408
Standard deviation: 11.19809
R^2: 0.99366
Parameters:
 a = 114.02824
 b = 1281.34723
 c = 21.78769
 d = 0.56618

Bead 1008

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
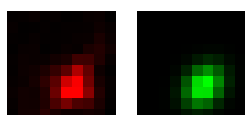Frame size : 10 pixels

Coordinates : -128 um (x), -66.3 um (y), 21.7 um (z)
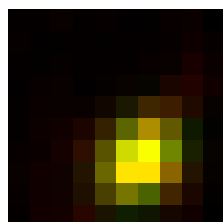Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	537 nm	555 nm	223 nm
max	679 nm	702 nm	223 nm
z	1.93 um	1.94 um	885 nm
Asymmetry	0.791		
Theta	52.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.957$

Parameters:
A = 561.747   (brightness)
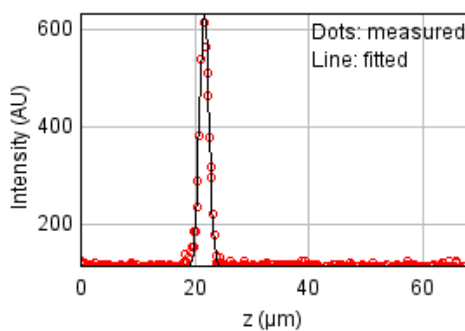B = 122.732   (background)
a = 0.401 px
b = 0.084 px
c = 0.356 px

xc = 5.611 px
yc = 6.418 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 33585.4586
Standard deviation: 10.45939
R^2: 0.98089
Parameters:
a = 111.96670
b = 633.72251
c = 21.73830
d = 0.82127

Bead 1009

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
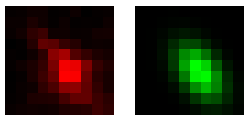Frame size : 10 pixels

Coordinates : 107 um (x), -89.7 um (y), 21.7 um (z)
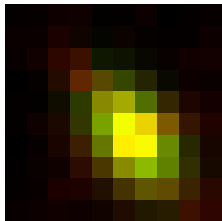Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	574 nm	593 nm	223 nm
max	938 nm	970 nm	223 nm
z	1.96 um	1.97 um	885 nm
Asymmetry	0.611		
Theta	-55.0°		

XY profile & fitting parameters :

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

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

Parameters:
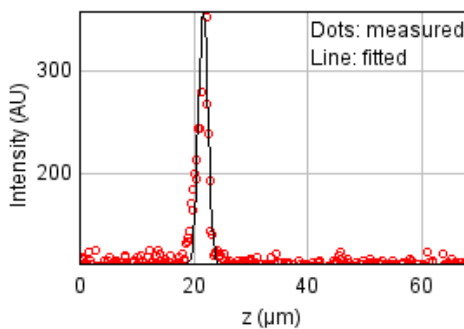A = 270.289   (brightness)
B = 117.865   (background)
a = 0.323 px
b = -0.120 px
c = 0.237 px

xc = 5.411 px
yc = 5.567 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 30063.2858
Standard deviation: 9.89576
R^2: 0.92842
Parameters:
a = 112.12073
b = 358.72554
c = 21.74246
d = 0.83203

Bead 1010

Date : Mon Oct 17 13:28:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
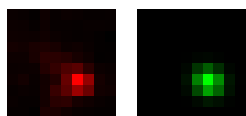Frame size : 10 pixels

Coordinates : -126 um (x), 84.0 um (y), 22.2 um (z)
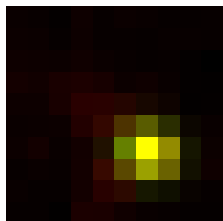Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	463 nm	478 nm	223 nm
z	1.66 um	1.66 um	885 nm
Asymmetry	0.903		
Theta	-24.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.915$

Parameters:
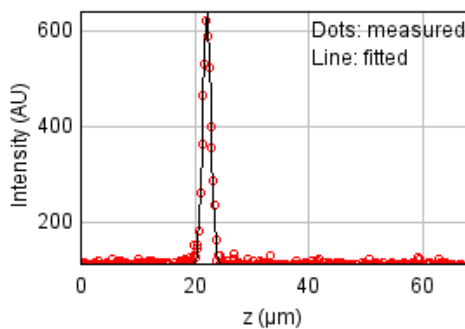A = 562.105 (brightness)
B = 125.914 (background)
a = 0.651 px
b = -0.053 px
c = 0.743 px

xc = 6.050 px
yc = 6.193 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 23248.3320
Standard deviation: 8.70215
R^2: 0.98508
Parameters:
 a = 112.09408
 b = 642.09395
 c = 22.20694
 d = 0.70396

Bead 1011 (Rejected)

Date : Mon Oct 17 13:28:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

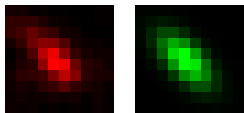Coordinates : -139 um (x), 80.0 um (y), 21.7 um (z)
Corresponding bead : Not found
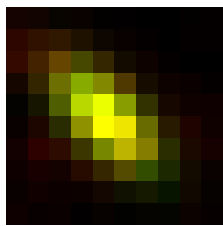Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	510 nm	527 nm	223 nm
max	1.03 um	1.06 um	223 nm
z	1.65 um	1.66 um	885 nm
Asymmetry	0.496		
Theta	-46.1°		

XY profile & fitting parameters :

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

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

Parameters:
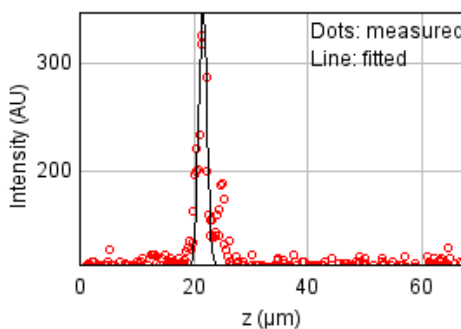A = 513.867   (brightness)
B = 133.106   (background)
a = 0.329 px
b = -0.194 px
c = 0.314 px

xc = 4.073 px
yc = 4.536 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 58958.2200
Standard deviation: 13.85808
R^2: 0.83608
Parameters:
a = 113.24537
b = 348.39376
c = 21.67887
d = 0.70073

Bead 1012

Date : Mon Oct 17 13:28:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
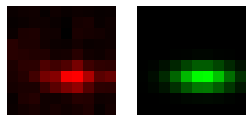Frame size : 10 pixels

Coordinates : 148 um (x), 51.0 um (y), 21.6 um (z)
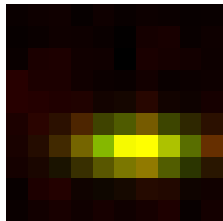Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	962 nm	994 nm	223 nm
z	2.19 um	2.19 um	885 nm
Asymmetry	0.407		
Theta	-0.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 237.090   (brightness)
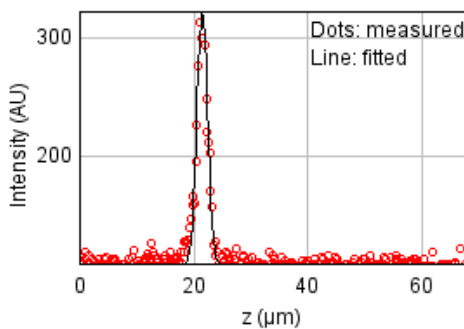 B = 115.546   (background)
 a = 0.145 px
 b = -0.005 px
 c = 0.877 px

xc = 5.562 px
yc = 6.079 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 16551.2734
Standard deviation: 7.34254
R^2: 0.95131
Parameters:
 a = 109.53100
 b = 322.75438
 c = 21.56494
 d = 0.92798

Bead 1013

Date : Mon Oct 17 13:28:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
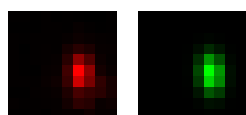Frame size : 10 pixels

Coordinates : 15.7 um (x), 38.0 um (y), 22.5 um (z)
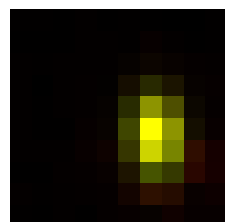Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	381 nm	394 nm	223 nm
max	605 nm	626 nm	223 nm
z	1.6 um	1.61 um	885 nm
Asymmetry	0.63		
Theta	-86.1°		

XY profile & fitting parameters :

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

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

Parameters:
A = 1242.502   (brightness)
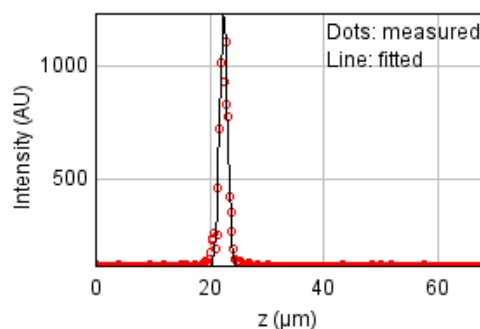B = 127.981   (background)
a = 0.921 px
b = -0.038 px
c = 0.369 px

xc = 6.216 px
yc = 5.266 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 209734.843
Standard deviation: 26.13762
R^2: 0.96956
Parameters:
a = 114.03449
b = 1237.50549
c = 22.50748
d = 0.68125

Bead 1014

Date : Mon Oct 17 13:28:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
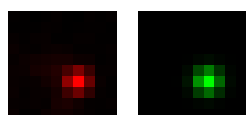Frame size : 10 pixels

Coordinates : -131 um (x), 36.7 um (y), 22.0 um (z)
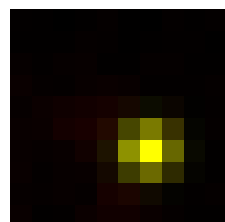Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	420 nm	223 nm
max	426 nm	441 nm	223 nm
z	1.44 um	1.44 um	885 nm
Asymmetry	0.953		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Parameters:
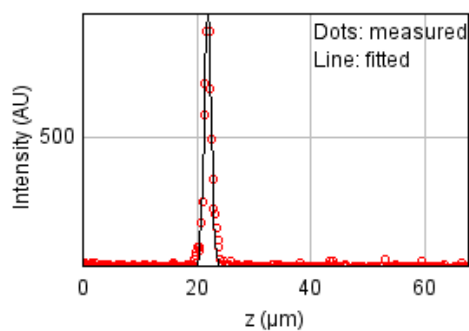 A = 827.634   (brightness)
 B = 124.338   (background)
 a = 0.738 px
 b = -0.000 px
 c = 0.813 px

xc = 5.880 px
yc = 5.955 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 62317.8643
Standard deviation: 14.24745
R^2: 0.97801
Parameters:
 a = 113.17475
 b = 876.26853
 c = 22.00927
 d = 0.61041

Bead 1015

Date : Mon Oct 17 13:28:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
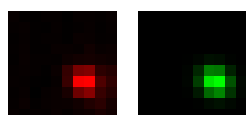Frame size : 10 pixels

Coordinates : 72.3 um (x), 25.3 um (y), 22.4 um (z)
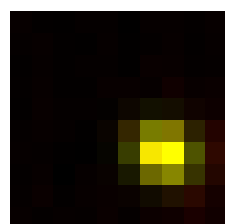Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	423 nm	437 nm	223 nm
max	485 nm	501 nm	223 nm
z	1.9 um	1.91 um	885 nm
Asymmetry	0.873		
Theta	-29.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.971$

Parameters:
 A = 719.641   (brightness)
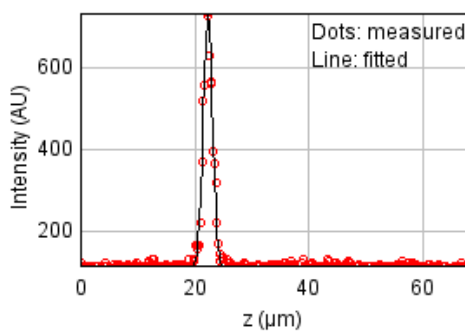 B = 119.965   (background)
 a = 0.613 px
 b = -0.076 px
 c = 0.708 px

xc = 6.583 px
yc = 6.002 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 52240.4481
Standard deviation: 13.04470
R^2: 0.97846
Parameters:
 a = 114.19579
 b = 731.24855
 c = 22.38720
 d = 0.80757

Bead 1016

Date : Mon Oct 17 13:28:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
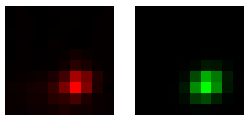Frame size : 10 pixels

Coordinates : -66.6 um (x), 7.32 um (y), 23.0 um (z)
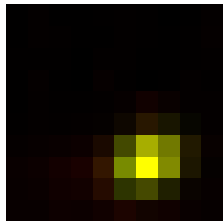Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	494 nm	510 nm	223 nm
z	1.57 um	1.57 um	885 nm
Asymmetry	0.792		
Theta	25.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.968$

Parameters:
A = 1270.375   (brightness)
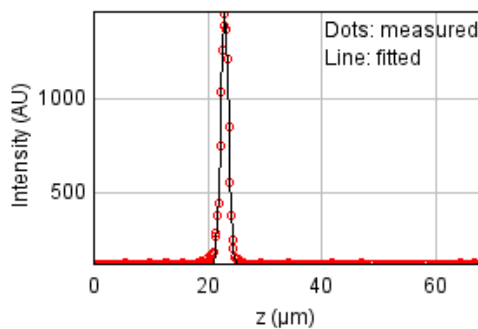B = 132.943   (background)
a = 0.612 px
b = 0.128 px
c = 0.816 px

xc = 6.053 px
yc = 6.727 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 61963.3349
Standard deviation: 14.20686
R^2: 0.99357
Parameters:
a = 113.99274
b = 1473.08727
c = 23.03399
d = 0.66614

Bead 1017

Date : Mon Oct 17 13:28:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
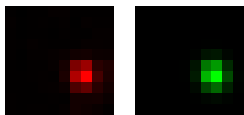Frame size : 10 pixels

Coordinates : 90.1 um (x), -8.98 um (y), 22.7 um (z)
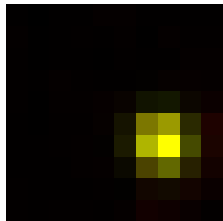Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	420 nm	223 nm
max	441 nm	456 nm	223 nm
z	1.26 um	1.26 um	885 nm
Asymmetry	0.92		
Theta	-69.0°		

XY profile & fitting parameters :

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

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

Parameters:
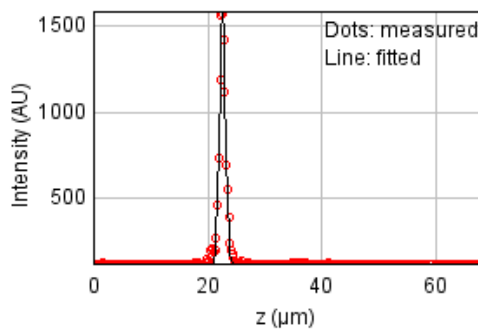 A = 1551.786   (brightness)
 B = 126.419   (background)
 a = 0.798 px
 b = -0.042 px
 c = 0.705 px

xc = 6.710 px
yc = 5.841 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 93298.7229
Standard deviation: 17.43286
R^2: 0.98973
Parameters:
 a = 116.00662
 b = 1581.32421
 c = 22.65267
 d = 0.53475

Bead 1018

Date : Mon Oct 17 13:28:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
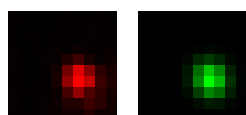Frame size : 10 pixels

Coordinates : 56.1 um (x), -31.0 um (y), 22.4 um (z)
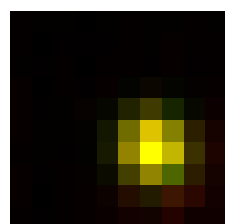Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	506 nm	523 nm	223 nm
max	551 nm	570 nm	223 nm
z	1.55 um	1.56 um	885 nm
Asymmetry	0.918		
Theta	-58.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.964$

Parameters:
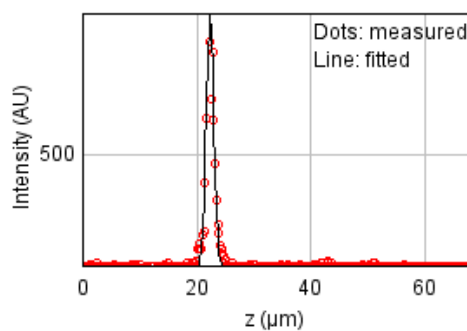A = 821.088   (brightness)
B = 122.889   (background)
a = 0.502 px
b = -0.037 px
c = 0.465 px

xc = 6.148 px
yc = 5.804 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 195571.870
Standard deviation: 25.23969
R^2: 0.95232
Parameters:
 a = 114.20042
 b = 986.59241
 c = 22.40386
 d = 0.65980

Bead 1019 (Rejected)

Date : Mon Oct 17 13:28:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 87.3 um (x), -35.9 um (y), 38.7 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

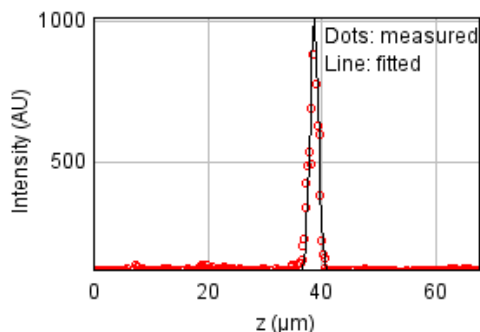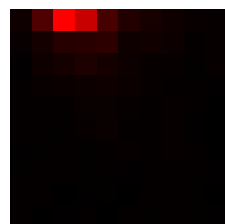| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.69 um	1.7 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 274162.451
Standard deviation: 29.88373
R^2: 0.94281
Parameters:
 a = 114.68173
 b = 1015.41077
 c = 38.74994
 d = 0.71843

Bead 1020

Date : Mon Oct 17 13:28:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
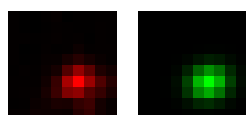Frame size : 10 pixels

Coordinates : 34.5 um (x), -74.4 um (y), 22.1 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	520 nm	537 nm	223 nm
max	630 nm	651 nm	223 nm
z	1.41 um	1.42 um	885 nm
Asymmetry	0.825		
Theta	12.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.952$

Parameters:
A = 1190.815   (brightness)
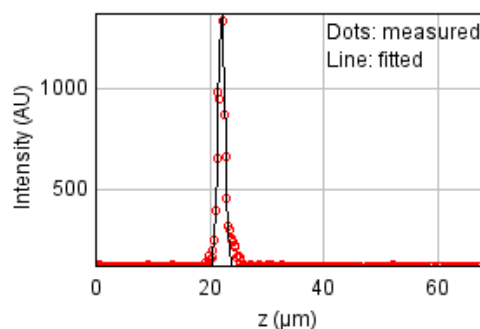B = 130.705   (background)
a = 0.345 px
b = 0.033 px
c = 0.490 px

xc = 5.979 px
yc = 6.092 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 191091.416
Standard deviation: 24.94890
R^2: 0.97535
Parameters:
 a = 116.98874
 b = 1386.97324
 c = 22.14797
 d = 0.60087

Bead 1021

Date : Mon Oct 17 13:28:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
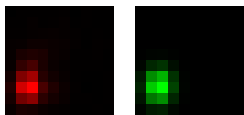Frame size : 10 pixels

Coordinates : -83.2 um (x), -95.7 um (y), 64.3 um (z)
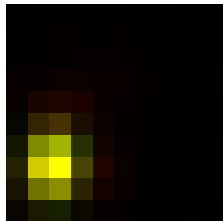Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	428 nm	223 nm
max	536 nm	554 nm	223 nm
z	1.23 um	1.24 um	885 nm
Asymmetry	0.772		
Theta	87.5°		

XY profile & fitting parameters :

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

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

Parameters:
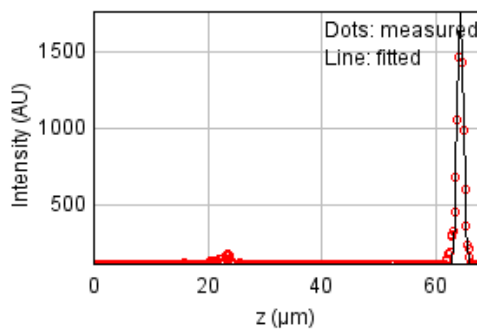 A = 1791.469   (brightness)
 B = 138.102   (background)
 a = 0.784 px
 b = 0.014 px
 c = 0.468 px

xc = 1.648 px
yc = 6.883 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 139898.141
Standard deviation: 21.34700
R^2: 0.98792
Parameters:
 a = 117.74319
 b = 1787.28997
 c = 64.32770
 d = 0.52370

Bead 1022 (Rejected)

Date : Mon Oct 17 13:28:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

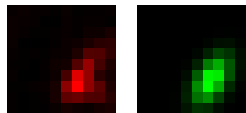Coordinates : 50.0 um (x), 90.1 um (y), 23.2 um (z)
Corresponding bead : Not found
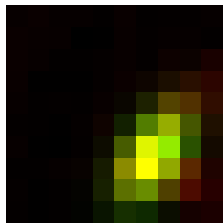Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	464 nm	480 nm	223 nm
max	809 nm	836 nm	223 nm
z	1.85 um	1.85 um	885 nm
Asymmetry	0.574		
Theta	58.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.892$

Parameters:
 A = 618.224   (brightness)
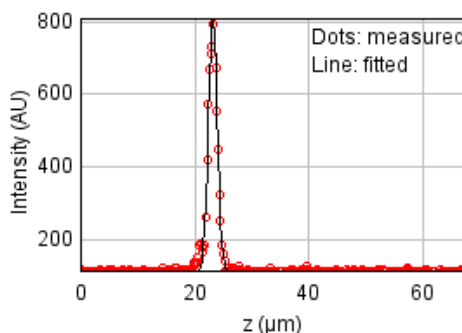 B = 124.910   (background)
 a = 0.510 px
 b = 0.186 px
 c = 0.318 px
xc = 6.318 px
yc = 6.377 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 38815.4802
Standard deviation: 11.24432
R^2: 0.98696
Parameters:
 a = 113.91325
 b = 810.20859
 c = 23.24764
 d = 0.78462

Bead 1023 (Rejected)

Date : Mon Oct 17 13:28:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

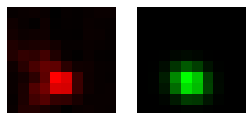Coordinates : -123 um (x), 87.7 um (y), 18.7 um (z)
Corresponding bead : Not found
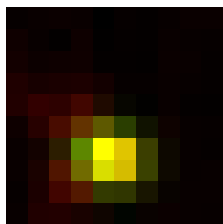Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	468 nm	484 nm	223 nm
max	554 nm	573 nm	223 nm
z	1.78 um	1.78 um	885 nm
Asymmetry	0.844		
Theta	-16.1°		

XY profile & fitting parameters :

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

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

Parameters:
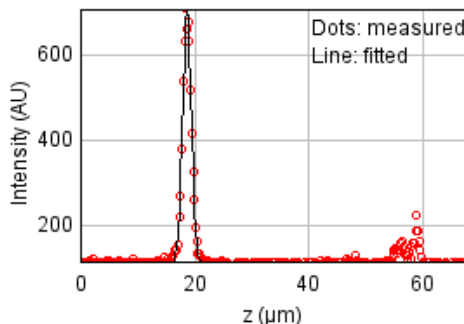 A = 599.858   (brightness)
 B = 129.116   (background)
 a = 0.450 px
 b = -0.047 px
 c = 0.599 px

xc = 4.253 px
yc = 6.403 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 80936.3166
Standard deviation: 16.23688
R^2: 0.96179
Parameters:
 a = 116.47248
 b = 706.97036
 c = 18.71681
 d = 0.75498

Bead 1024

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
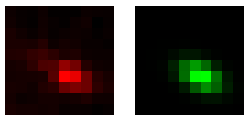Frame size : 10 pixels

Coordinates : -150 um (x), 85.6 um (y), 21.9 um (z)
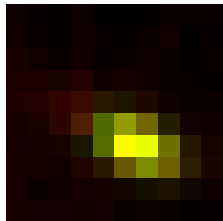Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	393 nm	406 nm	223 nm
max	661 nm	684 nm	223 nm
z	1.76 um	1.76 um	885 nm
Asymmetry	0.593		
Theta	-25.8°		

XY profile & fitting parameters :

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

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

Parameters:
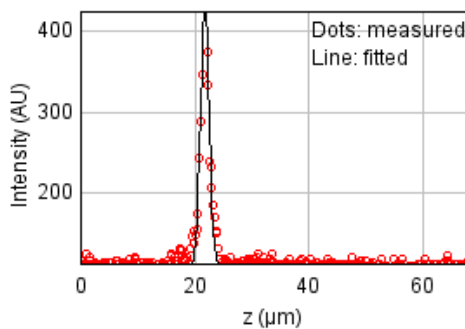 A = 364.173   (brightness)
 B = 121.281   (background)
 a = 0.413 px
 b = -0.221 px
 c = 0.764 px

xc = 5.498 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: 23268.9823
Standard deviation: 8.70602
R^2: 0.96092
Parameters:
 a = 111.49691
 b = 426.29046
 c = 21.85566
 d = 0.74580

Bead 1025

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
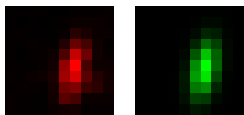Frame size : 10 pixels

Coordinates : 9.21 um (x), 83.1 um (y), 22.5 um (z)
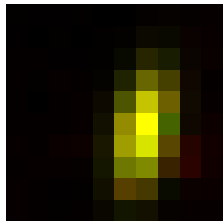Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	411 nm	425 nm	223 nm
max	890 nm	920 nm	223 nm
z	1.12 um	1.13 um	885 nm
Asymmetry	0.462		
Theta	79.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.974$

Parameters:
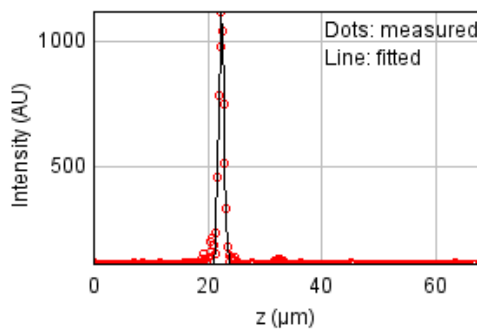A = 999.711   (brightness)
B = 122.799   (background)
a = 0.773 px
b = 0.116 px
c = 0.192 px

xc = 5.847 px
yc = 5.291 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 52458.1665
Standard deviation: 13.07186
R^2: 0.98625
Parameters:
 a = 115.52200
 b = 1118.28658
 c = 22.45635
 d = 0.47624

Bead 1026 (Rejected)

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

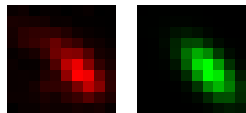Coordinates : -139 um (x), 80.0 um (y), 21.7 um (z)
Corresponding bead : Not found
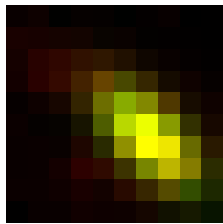Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	505 nm	522 nm	223 nm
max	1.03 um	1.06 um	223 nm
z	1.65 um	1.66 um	885 nm
Asymmetry	0.492		
Theta	-46.2°		

XY profile & fitting parameters :

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

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

Parameters:
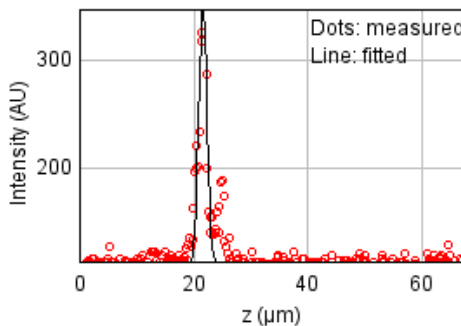 A = 512.676   (brightness)
 B = 135.318   (background)
 a = 0.335 px
 b = -0.199 px
 c = 0.318 px

xc = 6.074 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: 58958.2200
Standard deviation: 13.85808
R^2: 0.83608
Parameters:
 a = 113.24537
 b = 348.39376
 c = 21.67887
 d = 0.70073

Bead 1027 (Rejected)

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 73.6 um (x), 77.9 um (y), 23.3 um (z)
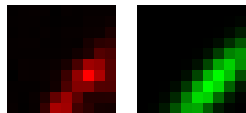Corresponding bead : Not found
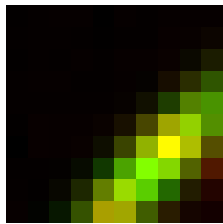Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	492 nm	508 nm	223 nm
max	1.79 um	1.85 um	223 nm
z	1.88 um	1.89 um	885 nm
Asymmetry	0.275		
Theta	46.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.870$

Parameters:
 A = 545.529   (brightness)
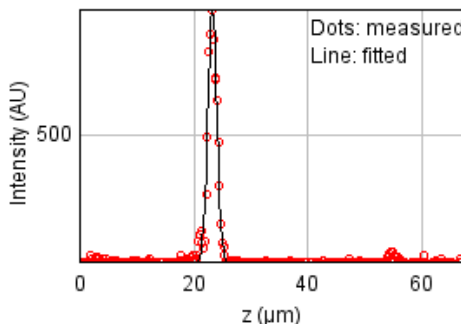 B = 118.130   (background)
 a = 0.309 px
 b = 0.256 px
 c = 0.287 px

xc = 6.471 px
yc = 6.702 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 116860.113
Standard deviation: 19.51030
R^2: 0.96820
Parameters:
 a = 115.38949
 b = 874.59106
 c = 23.34070
 d = 0.79953

Bead 1028

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
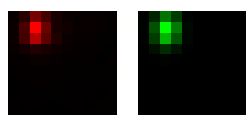Frame size : 10 pixels

Coordinates : 100 um (x), -7.08 um (y), 58.0 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	377 nm	390 nm	223 nm
max	491 nm	507 nm	223 nm
z	1.16 um	1.16 um	885 nm
Asymmetry	0.769		
Theta	87.1°		

XY profile & fitting parameters :

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

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

  Parameters:
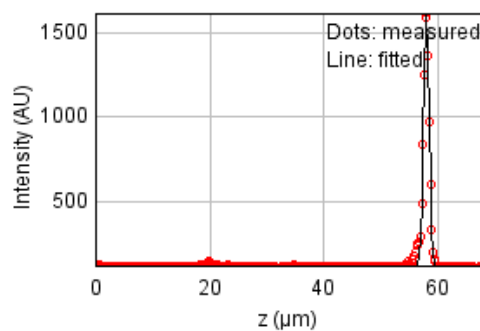 A = 1507.837   (brightness)
  B = 126.950   (background)
  a = 0.941 px
  b = 0.020 px
  c = 0.558 px

xc = 2.103 px
yc = 1.188 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 75395.5293
Standard deviation: 15.67125
R^2: 0.99152
Parameters:
 a = 115.47546
 b = 1627.07582
 c = 58.00208
 d = 0.49147

Bead 1029

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
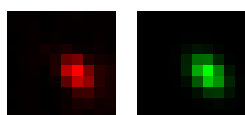Frame size : 10 pixels

Coordinates : 82.5 um (x), -36.6 um (y), 22.3 um (z)
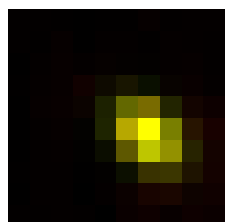Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	421 nm	435 nm	223 nm
max	606 nm	626 nm	223 nm
z	1.28 um	1.29 um	885 nm
Asymmetry	0.695		
Theta	-44.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.982$

Parameters:
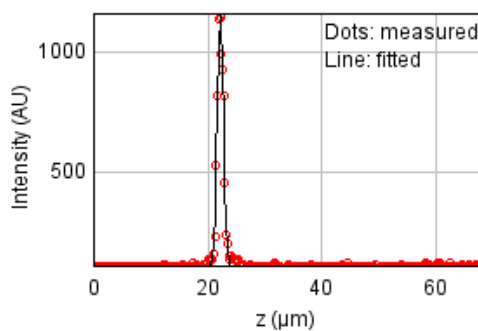 A = 1067.138   (brightness)
 B = 124.433   (background)
 a = 0.561 px
 b = -0.196 px
 c = 0.563 px

xc = 5.965 px
yc = 5.259 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 86605.0608
Standard deviation: 16.79587
R^2: 0.98207
Parameters:
 a = 114.22839
 b = 1168.59530
 c = 22.29103
 d = 0.54529

Bead 1030

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
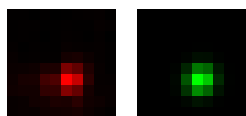Frame size : 10 pixels

Coordinates : -77.2 um (x), -38.3 um (y), 22.7 um (z)
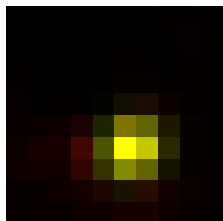Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	429 nm	443 nm	223 nm
max	458 nm	473 nm	223 nm
z	1.45 um	1.45 um	885 nm
Asymmetry	0.937		
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 = 0.944

Parameters:
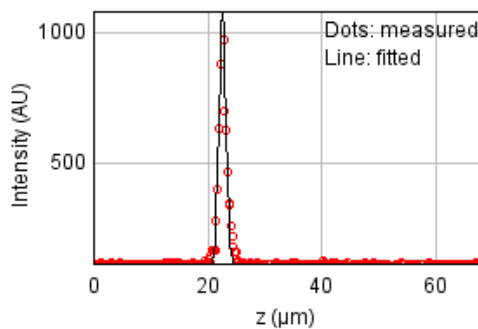 A = 1074.205   (brightness)
 B = 137.303   (background)
 a = 0.679 px
 b = 0.044 px
 c = 0.692 px

xc = 5.315 px
yc = 6.039 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 111506.970
Standard deviation: 19.05820
R^2: 0.97572
Parameters:
 a = 115.09239
 b = 1082.41822
 c = 22.65126
 d = 0.61421

Bead 1031

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
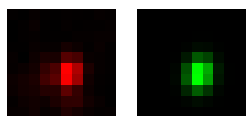Frame size : 10 pixels

Coordinates : -88.2 um (x), -39.9 um (y), 21.9 um (z)
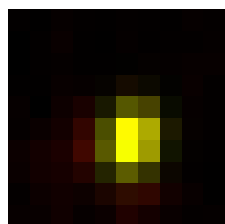Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	514 nm	532 nm	223 nm
z	1.2 um	1.2 um	885 nm
Asymmetry	0.802		
Theta	77.9°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 796.786   (brightness)
 B = 130.372   (background)
 a = 0.777 px
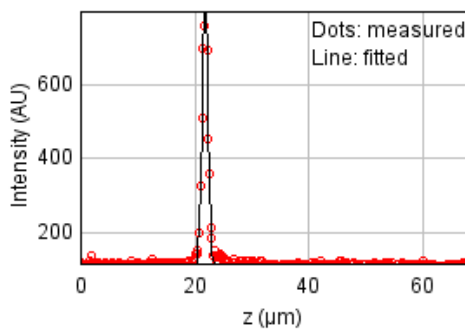 b = 0.058 px
 c = 0.520 px

xc = 5.214 px
yc = 5.496 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 26107.1940
Standard deviation: 9.22170
R^2: 0.98687
Parameters:
 a = 114.17741
 b = 815.19535
 c = 21.89019
 d = 0.50911

Bead 1032 (Rejected)

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

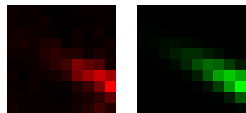Coordinates : -113 um (x), -69.9 um (y), 19.9 um (z)
Corresponding bead : Not found
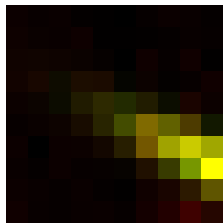Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	378 nm	391 nm	223 nm
max	2.08 um	2.15 um	223 nm
z	2.2 um	2.21 um	885 nm
Asymmetry	0.182		
Theta	-26.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.952$

Parameters:
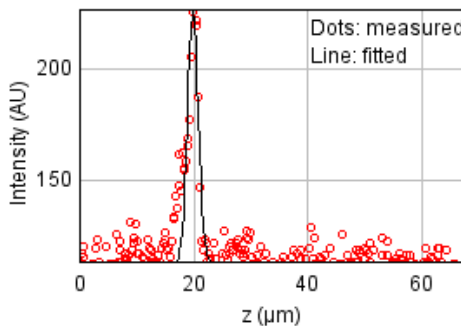A = 349.847   (brightness)
B = 117.256   (background)
a = 0.207 px
b = -0.359 px
c = 0.761 px

xc = 11.041 px
yc = 7.742 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 26002.6304
Standard deviation: 9.20321
R^2: 0.78003
Parameters:
a = 113.37305
b = 226.77253
c = 19.93952
d = 0.93580

Bead 1033

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
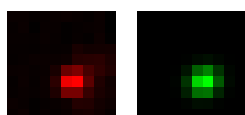Frame size : 10 pixels

Coordinates : 89.0 um (x), 42.0 um (y), 22.5 um (z)
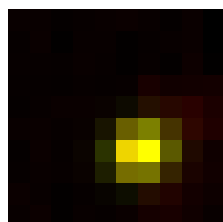Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	475 nm	491 nm	223 nm
z	2.12 um	2.13 um	885 nm
Asymmetry	0.879		
Theta	22.9°		

XY profile & fitting parameters :

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

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

Parameters:
A = 622.457   (brightness)
B = 125.188   (background)
a = 0.621 px
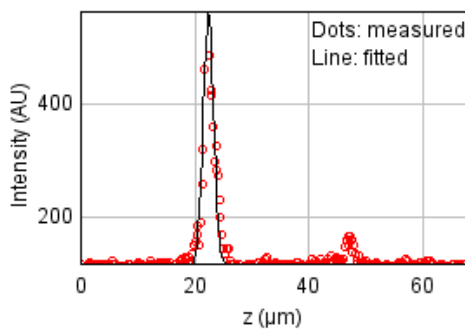b = 0.062 px
c = 0.743 px

xc = 5.647 px
yc = 5.993 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 119487.686
Standard deviation: 19.72842
R^2: 0.92157
Parameters:
a = 115.67472
b = 566.48853
c = 22.48030
d = 0.89988

Bead 1034

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
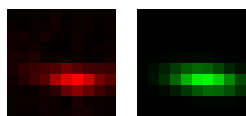Frame size : 10 pixels

Coordinates : 145 um (x), 41.8 um (y), 22.1 um (z)
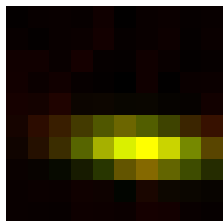Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	375 nm	388 nm	223 nm
max	1.07 um	1.1 um	223 nm
z	2.2 um	2.21 um	885 nm
Asymmetry	0.351		
Theta	-5.1°		

XY profile & fitting parameters :

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

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

Parameters:
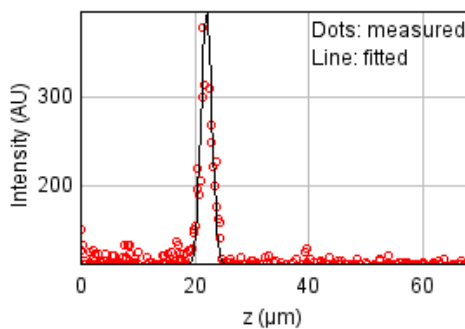 A = 326.566   (brightness)
 B = 116.040   (background)
 a = 0.124 px
 b = -0.074 px
 c = 0.947 px

xc = 5.755 px
yc = 6.012 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 51180.8537
Standard deviation: 12.91173
R^2: 0.91829
Parameters:
 a = 112.67711
 b = 396.27400
 c = 22.14385
 d = 0.93322

Bead 1035

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
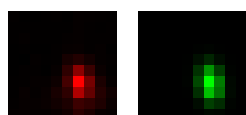Frame size : 10 pixels

Coordinates : -6.35 um (x), 16.5 um (y), 22.9 um (z)
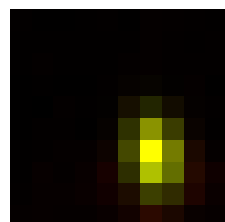Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	364 nm	377 nm	223 nm
max	576 nm	595 nm	223 nm
z	1.39 um	1.4 um	885 nm
Asymmetry	0.633		
Theta	-81.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1398.218   (brightness)
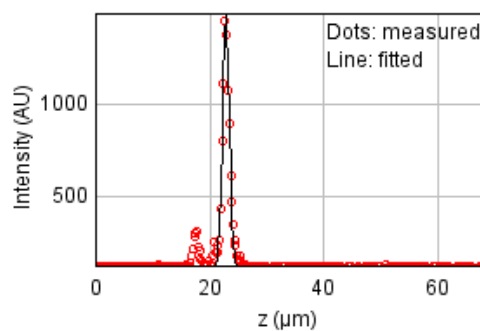 B = 133.501   (background)
 a = 0.998 px
 b = -0.086 px
 c = 0.417 px

xc = 6.150 px
yc = 6.194 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 284400.950
Standard deviation: 30.43661
R^2: 0.96820
Parameters:
 a = 121.62320
 b = 1490.36236
 c = 22.91487
 d = 0.59211

Bead 1036

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
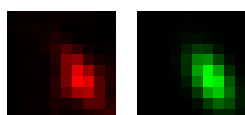Frame size : 10 pixels

Coordinates : 93.8 um (x), -80.7 um (y), 22.6 um (z)
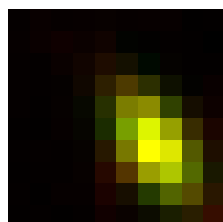Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	503 nm	520 nm	223 nm
max	908 nm	938 nm	223 nm
z	1.62 um	1.62 um	885 nm
Asymmetry	0.554		
Theta	-58.5°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.965$

Parameters:
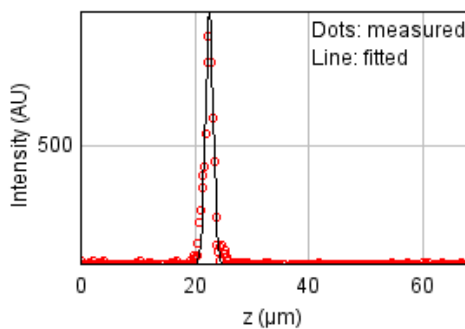 A = 839.084   (brightness)
 B = 128.473   (background)
 a = 0.430 px
 b = -0.164 px
 c = 0.263 px

   xc = 6.293 px
   yc = 5.765 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 103286.618
Standard deviation: 18.34226
R^2: 0.97208
Parameters:
 a = 114.23978
 b = 934.95192
 c = 22.63798
 d = 0.68732

Bead 1037

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

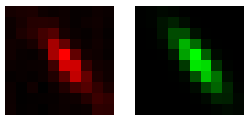Coordinates : 95.5 um (x), -83.3 um (y), 22.0 um (z)
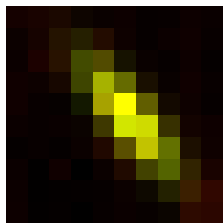Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	349 nm	361 nm	223 nm
max	1.09 um	1.13 um	223 nm
z	1.39 um	1.4 um	885 nm
Asymmetry	0.32		
Theta	-52.2°		

XY profile & fitting parameters :

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

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

Parameters:
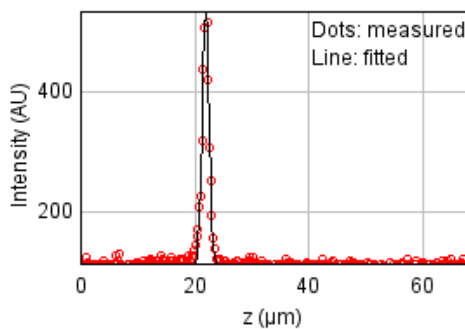 A = 423.308   (brightness)
 B = 126.402   (background)
 a = 0.729 px
 b = -0.479 px
 c = 0.484 px

xc = 5.194 px
yc = 4.585 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 17462.7033
Standard deviation: 7.54200
R^2: 0.97891
Parameters:
 a = 113.11313
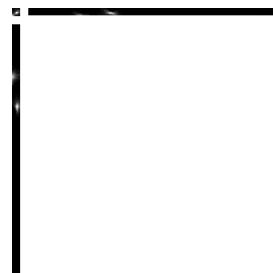 b = 532.14815
 c = 21.99368
 d = 0.59131

Bead 1038

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

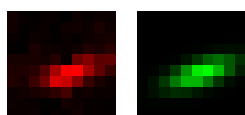Coordinates : 144 um (x), 88.8 um (y), 22.0 um (z)
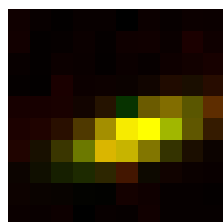Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	369 nm	381 nm	223 nm
max	1.04 um	1.07 um	223 nm
z	2.06 um	2.07 um	885 nm
Asymmetry	0.356		
Theta	18.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 301.656 (brightness)
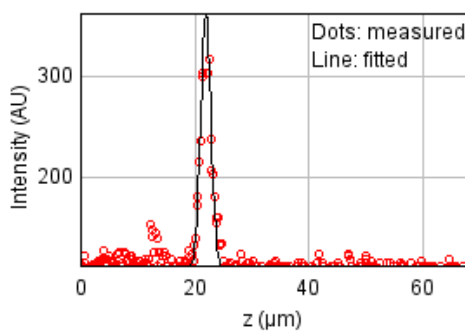 B = 115.190 (background)
 a = 0.208 px
 b = 0.254 px
 c = 0.904 px

xc = 5.408 px
yc = 5.237 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 26872.5930
Standard deviation: 9.35590
R^2: 0.93996
Parameters:
 a = 111.53774
 b = 361.68513
 c = 22.03021
 d = 0.87448

Bead 1039

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
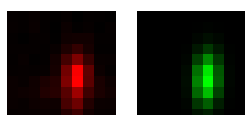Frame size : 10 pixels

Coordinates : -18.5 um (x), 87.2 um (y), 22.8 um (z)
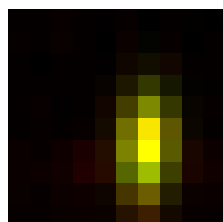Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	395 nm	409 nm	223 nm
max	813 nm	840 nm	223 nm
z	1.18 um	1.19 um	885 nm
Asymmetry	0.486		
Theta	87.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.968$

Parameters:
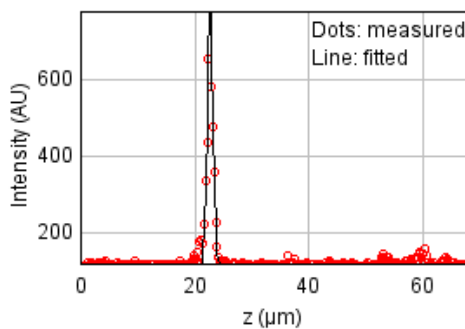A = 679.702 (brightness)
B = 125.994 (background)
a = 0.858 px
b = 0.028 px
c = 0.204 px

xc = 5.902 px
yc = 5.774 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 50703.0593
Standard deviation: 12.85132
R^2: 0.97234
Parameters:
a = 117.74543
b = 789.73587
c = 22.76801
d = 0.50316

Bead 1040

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
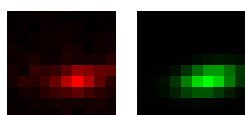Frame size : 10 pixels

Coordinates : 141 um (x), 72.6 um (y), 19.8 um (z)
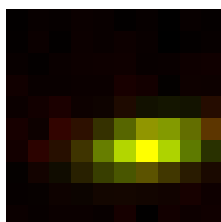Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	399 nm	412 nm	223 nm
max	907 nm	938 nm	223 nm
z	2.08 um	2.09 um	885 nm
Asymmetry	0.44		
Theta	9.0°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 245.273   (brightness)
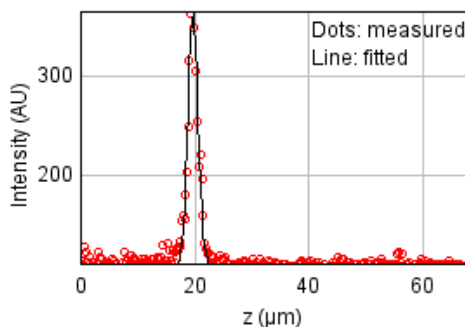 B = 118.071   (background)
 a = 0.180 px
 b = 0.105 px
 c = 0.827 px

xc = 6.089 px
yc = 5.809 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 20286.3326
Standard deviation: 8.12892
R^2: 0.95608
Parameters:
 a = 110.50665
 b = 365.37954
 c = 19.76984
 d = 0.88464

Bead 1041

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
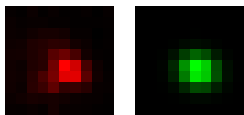Frame size : 10 pixels

Coordinates : -93.0 um (x), 63.9 um (y), 23.5 um (z)
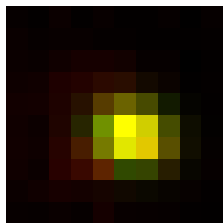Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	501 nm	518 nm	223 nm
max	592 nm	612 nm	223 nm
z	1.54 um	1.55 um	885 nm
Asymmetry	0.846		
Theta	-13.9°		

XY profile & fitting parameters :

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

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

Parameters:
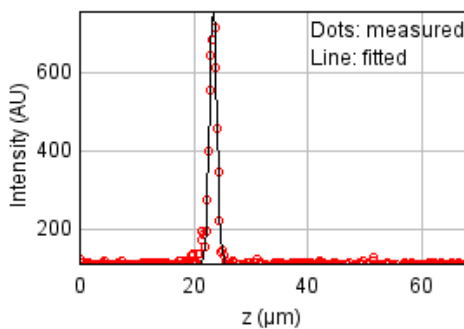A = 704.308   (brightness)
B = 133.001   (background)
a = 0.392 px
b = -0.035 px
c = 0.526 px

xc = 5.264 px
yc = 5.423 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 33943.4875
Standard deviation: 10.51499
R^2: 0.98414
Parameters:
a = 113.34929
b = 756.80775
c = 23.48674
d = 0.65368

Bead 1042

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
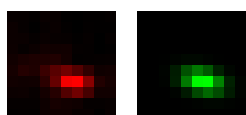Frame size : 10 pixels

Coordinates : -155 um (x), 61.2 um (y), 22.9 um (z)
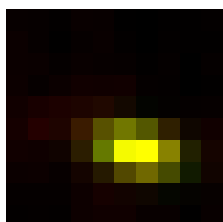Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	361 nm	373 nm	223 nm
max	658 nm	681 nm	223 nm
z	1.63 um	1.64 um	885 nm
Asymmetry	0.548		
Theta	-14.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 682.384   (brightness)
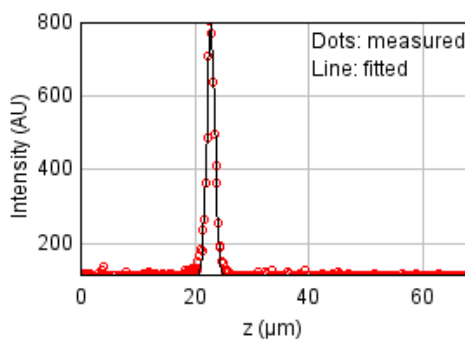 B = 124.054   (background)
 a = 0.352 px
 b = -0.170 px
 c = 0.988 px

xc = 5.515 px
yc = 5.961 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 47596.5858
Standard deviation: 12.45142
R^2: 0.98164
Parameters:
 a = 112.53325
 b = 800.41550
 c = 22.90058
 d = 0.69279

Bead 1043

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
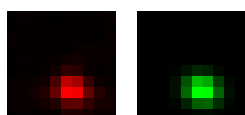Frame size : 10 pixels

Coordinates : -5.84 um (x), 42.3 um (y), 23.3 um (z)
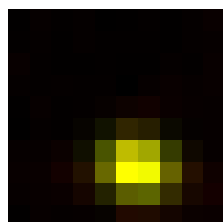Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	448 nm	463 nm	223 nm
max	547 nm	565 nm	223 nm
z	1.54 um	1.55 um	885 nm
Asymmetry	0.818		
Theta	-13.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.987$

Parameters:
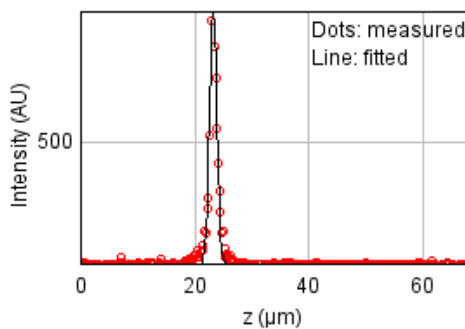A = 902.539   (brightness)
B = 119.637   (background)
a = 0.461 px
b = -0.050 px
c = 0.658 px

xc = 5.452 px
yc = 6.769 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 97163.2601
Standard deviation: 17.79024
R^2: 0.97096
Parameters:
 a = 115.31368
 b = 914.31697
 c = 23.31283
 d = 0.65407

Bead 1044

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

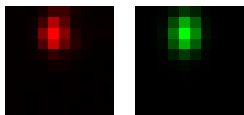Coordinates : 47.5 um (x), -2.65 um (y), 62.7 um (z)
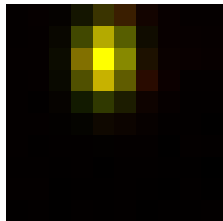Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	429 nm	444 nm	223 nm
max	588 nm	608 nm	223 nm
z	1.3 um	1.3 um	885 nm
Asymmetry	0.73		
Theta	87.2°		

XY profile & fitting parameters :

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

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

Parameters:
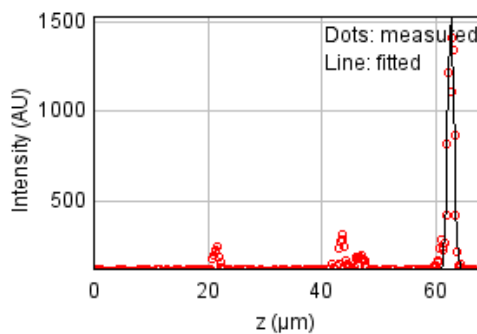 A = 1337.676   (brightness)
 B = 119.386   (background)
 a = 0.727 px
 b = 0.017 px
 c = 0.388 px

xc = 4.068 px
yc = 2.026 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 554022.630
Standard deviation: 42.48098
R^2: 0.93868
Parameters:
 a = 122.79762
 b = 1525.57839
 c = 62.67595
 d = 0.55080

Bead 1045

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
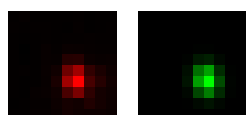Frame size : 10 pixels

Coordinates : 60.9 um (x), -43.8 um (y), 22.9 um (z)
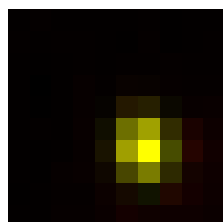Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	397 nm	411 nm	223 nm
max	480 nm	496 nm	223 nm
z	1.27 um	1.27 um	885 nm
Asymmetry	0.827		
Theta	-79.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1200.232   (brightness)
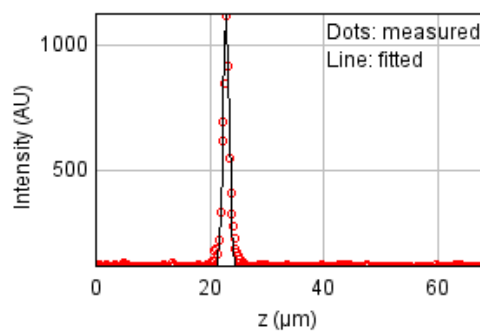 B = 128.381   (background)
 a = 0.841 px
 b = -0.049 px
 c = 0.592 px

xc = 5.773 px
yc = 5.869 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 133832.548
Standard deviation: 20.87910
R^2: 0.97030
Parameters:
 a = 115.60526
 b = 1133.38805
 c = 22.94594
 d = 0.53918

Bead 1046 (Rejected)

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 15.8 um (x), -70.4 um (y), 45.9 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

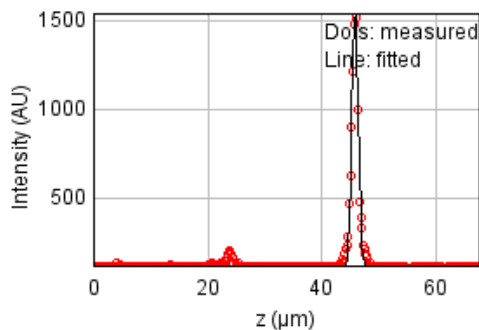| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.29 um	1.3 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 198715.791
Standard deviation: 25.44175
R^2: 0.97801
Parameters:
 a = 119.44866
 b = 1553.91561
 c = 45.89115
 d = 0.54881

Bead 1047

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
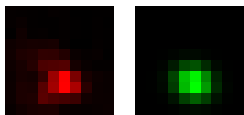Frame size : 10 pixels

Coordinates : -104 um (x), 70.3 um (y), 23.8 um (z)
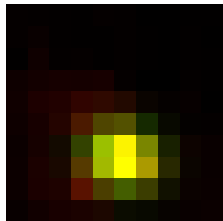Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	497 nm	514 nm	223 nm
max	577 nm	597 nm	223 nm
z	1.85 um	1.86 um	885 nm
Asymmetry	0.862		
Theta	-18.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
  $R^2 = 0.912$

Parameters:
 A = 868.793   (brightness)
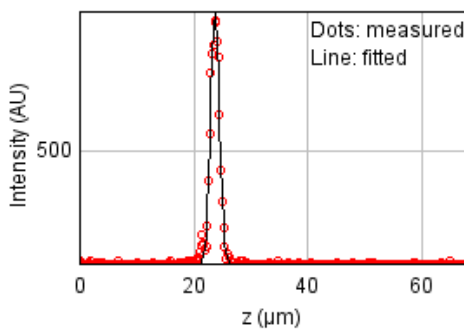 B = 141.101   (background)
 a = 0.417 px
 b = -0.043 px
 c = 0.528 px

xc = 4.840 px
yc = 6.534 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 52569.1512
Standard deviation: 13.08568
R^2: 0.98861
Parameters:
 a = 113.91786
 b = 980.80384
 c = 23.81073
 d = 0.78579

Bead 1048

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
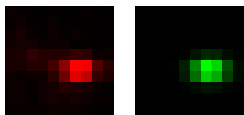Frame size : 10 pixels

Coordinates : -154 um (x), 52.7 um (y), 22.8 um (z)
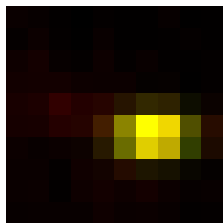Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	361 nm	373 nm	223 nm
max	569 nm	588 nm	223 nm
z	1.76 um	1.76 um	885 nm
Asymmetry	0.634		
Theta	0.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 584.701 (brightness)
 B = 122.516 (background)
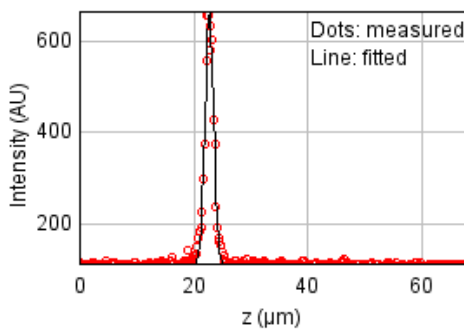 a = 0.414 px
 b = 0.007 px
 c = 1.031 px

xc = 6.283 px
yc = 5.394 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 36715.3937
Standard deviation: 10.93591
R^2: 0.97983
Parameters:
 a = 110.91463
 b = 666.75761
 c = 22.80676
 d = 0.74549

Bead 1049

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
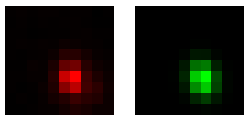Frame size : 10 pixels

Coordinates : 33.4 um (x), 35.2 um (y), 23.3 um (z)
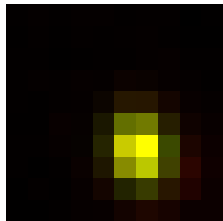Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	532 nm	550 nm	223 nm
z	1.3 um	1.3 um	885 nm
Asymmetry	0.789		
Theta	-75.9°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 950.240   (brightness)
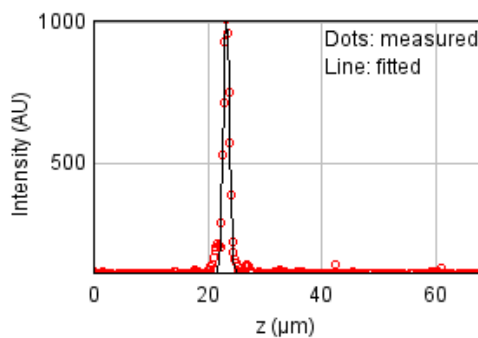 B = 125.651   (background)
 a = 0.744 px
 b = -0.068 px
 c = 0.491 px

xc = 5.674 px
yc = 6.206 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 57353.3993
Standard deviation: 13.66817
R^2: 0.98360
Parameters:
 a = 115.41926
 b = 1008.57700
 c = 23.34745
 d = 0.55106

Bead 1050 (Rejected)

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

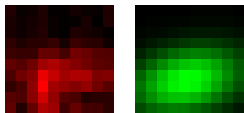Coordinates : 142 um (x), 27.8 um (y), 21.7 um (z)
Corresponding bead : Not found
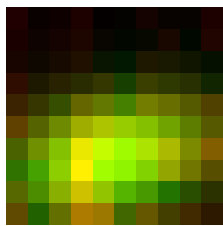Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	1.02 um	1.05 um	223 nm
max	1.75 um	1.81 um	223 nm
z	1.15 um	1.15 um	885 nm
Asymmetry	0.581		
Theta	13.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.809$

Parameters:
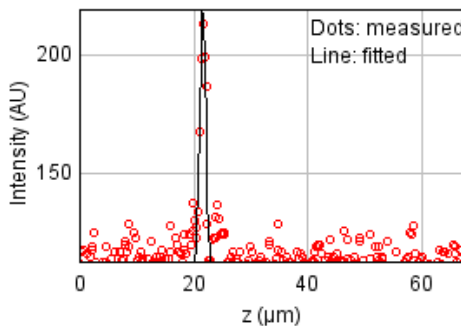 A = 100.352   (brightness)
 B = 110.924   (background)
 a = 0.048 px
 b = 0.019 px
 c = 0.125 px

xc = 4.249 px
yc = 6.463 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17445.8788
Standard deviation: 7.53837
R^2: 0.72379
Parameters:
 a = 112.09552
 b = 221.46762
 c = 21.65235
 d = 0.48676

Bead 1051

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
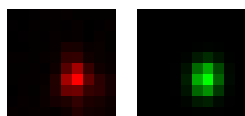Frame size : 10 pixels

Coordinates : 29.2 um (x), 236 nm (y), 23.3 um (z)
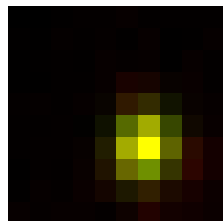Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	442 nm	457 nm	223 nm
max	528 nm	545 nm	223 nm
z	1.42 um	1.43 um	885 nm
Asymmetry	0.839		
Theta	79.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 904.237   (brightness)
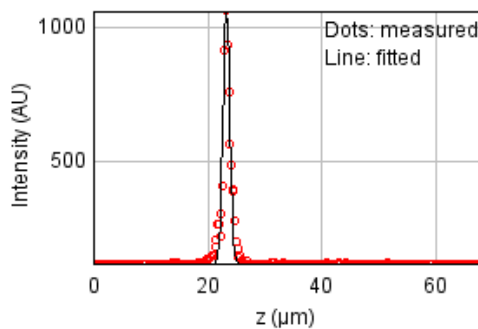 B = 126.901   (background)
 a = 0.679 px
 b = 0.035 px
 c = 0.489 px

xc = 5.803 px
yc = 5.928 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 255009.468
Standard deviation: 28.82099
R^2: 0.94263
Parameters:
 a = 115.47297
 b = 1058.95019
 c = 23.34483
 d = 0.60330

Bead 1052

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
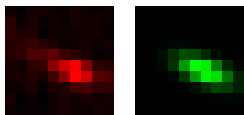Frame size : 10 pixels

Coordinates : 139 um (x), -1.64 um (y), 22.3 um (z)
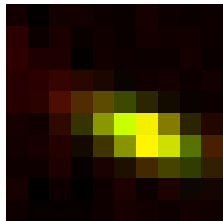Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	365 nm	377 nm	223 nm
max	859 nm	888 nm	223 nm
z	2.07 um	2.08 um	885 nm
Asymmetry	0.425		
Theta	-21.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 264.481   (brightness)
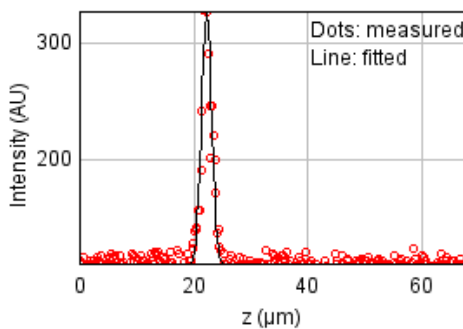 B = 118.979   (background)
 a = 0.292 px
 b = -0.281 px
 c = 0.897 px

xc = 5.828 px
yc = 5.462 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25751.3688
Standard deviation: 9.15864
R^2: 0.92477
Parameters:
 a = 110.98687
 b = 327.52902
 c = 22.33839
 d = 0.87833

Bead 1053

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
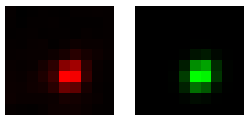Frame size : 10 pixels

Coordinates : -127 um (x), -24.8 um (y), 23.0 um (z)
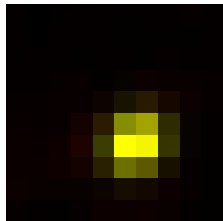Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	405 nm	419 nm	223 nm
max	461 nm	476 nm	223 nm
z	1.26 um	1.27 um	885 nm
Asymmetry	0.879		
Theta	49.5°		

XY profile & fitting parameters :

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

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

Parameters:
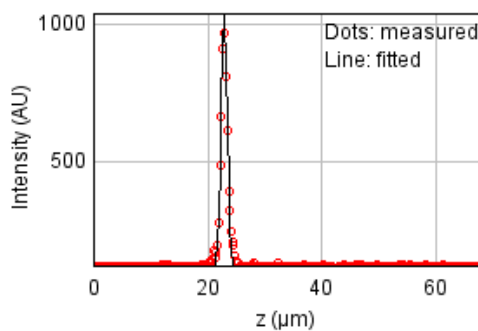 A = 1203.367   (brightness)
 B = 125.663   (background)
 a = 0.740 px
 b = 0.092 px
 c = 0.711 px

xc = 5.490 px
yc = 5.855 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 54912.6574
Standard deviation: 13.37418
R^2: 0.98523
Parameters:
 a = 114.05653
 b = 1048.00712
 c = 22.95360
 d = 0.53637

Bead 1054

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
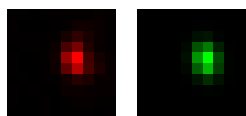Frame size : 10 pixels

Coordinates : 39.8 um (x), -52.4 um (y), 53.7 um (z)
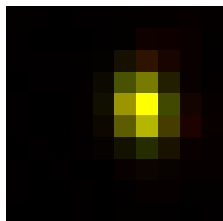Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	384 nm	397 nm	223 nm
max	506 nm	523 nm	223 nm
z	1.11 um	1.12 um	885 nm
Asymmetry	0.76		
Theta	-79.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.982$

Parameters:
 A = 1917.183   (brightness)
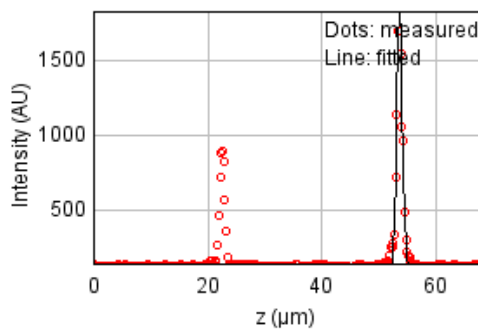 B = 132.355   (background)
 a = 0.895 px
 b = -0.071 px
 c = 0.538 px

xc = 5.815 px
yc = 4.160 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 2623877.97
Standard deviation: 92.44909
R^2: 0.80348
Parameters:
 a = 132.42065
 b = 1831.57367
 c = 53.68936
 d = 0.47291

Bead 1055

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
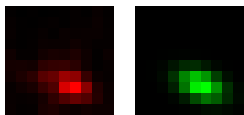Frame size : 10 pixels

Coordinates : -103 um (x), -81.1 um (y), 23.4 um (z)
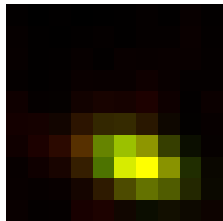Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	427 nm	441 nm	223 nm
max	731 nm	756 nm	223 nm
z	1.39 um	1.4 um	885 nm
Asymmetry	0.584		
Theta	-21.8°		

XY profile & fitting parameters :

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

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

Parameters:
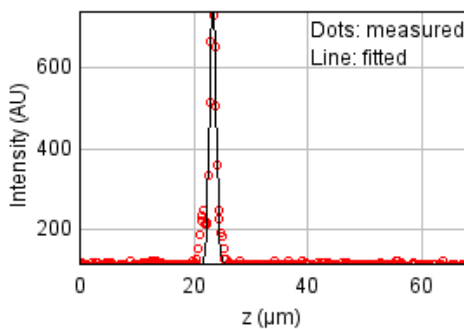 A = 627.759   (brightness)
 B = 127.944   (background)
 a = 0.318 px
 b = -0.167 px
 c = 0.670 px

xc = 5.509 px
yc = 6.775 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 82660.5505
Standard deviation: 16.40892
R^2: 0.95745
Parameters:
 a = 114.33919
 b = 749.41564
 c = 23.42851
 d = 0.59060

Bead 1056 (Rejected)

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 46.4 um (x), 96.6 um (y), 47.6 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

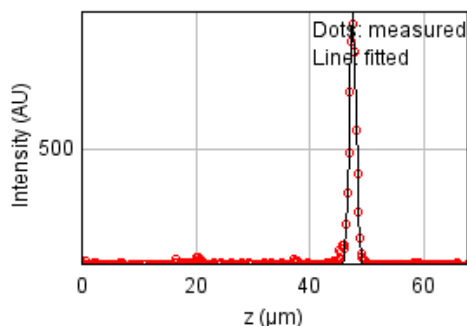| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.37 um	1.38 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 29882.1790
Standard deviation: 9.86591
R^2: 0.99092
Parameters:
 a = 114.36692
 b = 960.89716
 c = 47.57424
 d = 0.58247

Bead 1057 (Rejected)

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

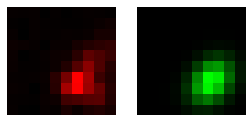Coordinates : 69.1 um (x), 74.3 um (y), 24.0 um (z)
Corresponding bead : Not found
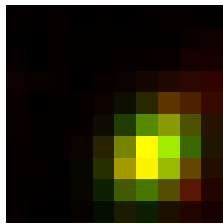Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	551 nm	570 nm	223 nm
max	728 nm	752 nm	223 nm
z	2.09 um	2.1 um	885 nm
Asymmetry	0.757		
Theta	50.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.884$

Parameters:
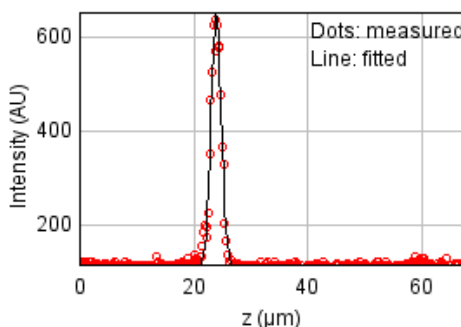A = 490.546   (brightness)
B = 120.814   (background)
a = 0.364 px
b = 0.093 px
c = 0.331 px

xc = 6.301 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: 39407.9088
Standard deviation: 11.32981
R^2: 0.98052
Parameters:
a = 114.08239
b = 653.66671
c = 24.01351
d = 0.88675

Bead 1058

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
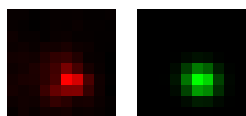Frame size : 10 pixels

Coordinates : -93.2 um (x), 58.1 um (y), 23.6 um (z)
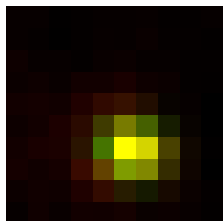Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	465 nm	481 nm	223 nm
max	526 nm	544 nm	223 nm
z	2.06 um	2.06 um	885 nm
Asymmetry	0.884		
Theta	-12.3°		

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 = 0.912

Parameters:
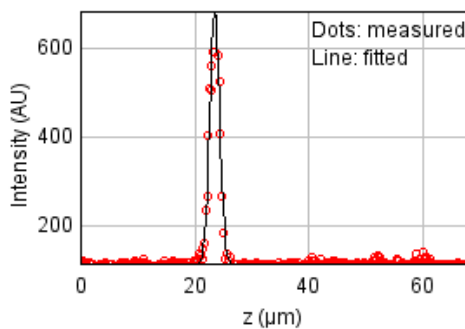A = 553.373   (brightness)
B = 128.656   (background)
a = 0.491 px
b = -0.028 px
c = 0.614 px

xc = 5.315 px
yc = 6.111 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 59917.9338
Standard deviation: 13.97041
R^2: 0.97316
Parameters:
a = 114.38860
b = 683.28718
c = 23.58909
d = 0.87294

Bead 1059 (Rejected)

Date : Mon Oct 17 13:28:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

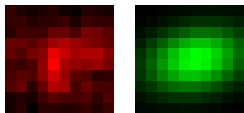Coordinates : 142 um (x), 27.8 um (y), 21.7 um (z)
Corresponding bead : Not found
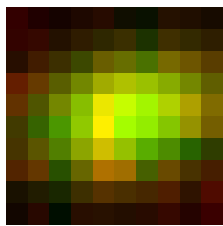Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	979 nm	1.01 um	223 nm
max	1.55 um	1.6 um	223 nm
z	1.15 um	1.15 um	885 nm
Asymmetry	0.632		
Theta	11.7°		

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
$R^2 = 0.757$

Parameters:
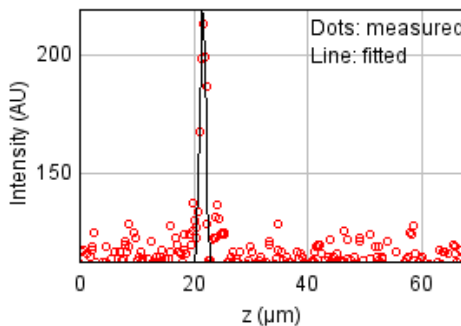 A = 96.214   (brightness)
 B = 117.086   (background)
 a = 0.059 px
 b = 0.017 px
 c = 0.136 px

xc = 5.090 px
yc = 4.491 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 17445.8788
Standard deviation: 7.53837
R^2: 0.72379
Parameters:
 a = 112.09552
 b = 221.46762
 c = 21.65235
 d = 0.48676

Bead 1060

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
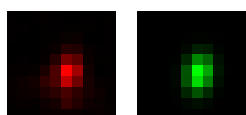Frame size : 10 pixels

Coordinates : -29.7 um (x), -4.46 um (y), 23.6 um (z)
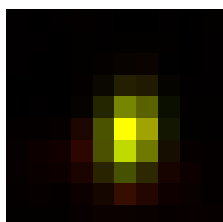Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	424 nm	223 nm
max	584 nm	603 nm	223 nm
z	1.49 um	1.49 um	885 nm
Asymmetry	0.703		
Theta	80.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.962$

Parameters:
A = 1277.694   (brightness)
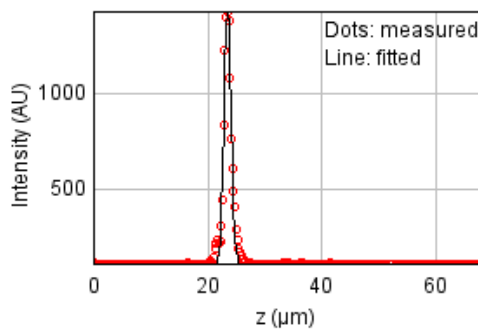B = 135.870   (background)
a = 0.786 px
b = 0.068 px
c = 0.406 px

xc = 5.191 px
yc = 5.267 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 176708.537
Standard deviation: 23.99162
R^2: 0.97938
Parameters:
a = 115.80590
b = 1421.84044
c = 23.55497
d = 0.63161

Bead 1061

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

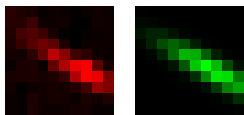Coordinates : 147 um (x), -33.3 um (y), 22.4 um (z)
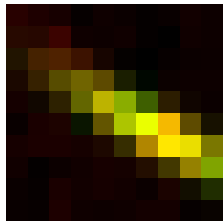Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	357 nm	369 nm	223 nm
max	1.69 um	1.74 um	223 nm
z	2.02 um	2.03 um	885 nm
Asymmetry	0.212		
Theta	-29.3°		

XY profile & fitting parameters :

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

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

Parameters:
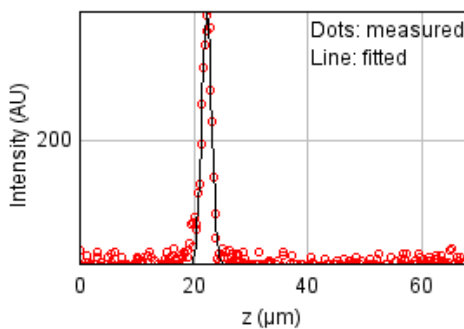 A = 198.769   (brightness)
 B = 111.922   (background)
 a = 0.289 px
 b = -0.430 px
 c = 0.812 px

xc = 6.485 px
yc = 5.364 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 12275.7540
Standard deviation: 6.32346
R^2: 0.94762
Parameters:
 a = 109.93839
 b = 293.43104
 c = 22.36446
 d = 0.85713

Bead 1062

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
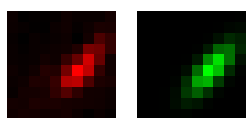Frame size : 10 pixels

Coordinates : -132 um (x), -64.2 um (y), 22.5 um (z)
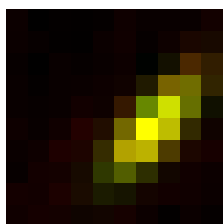Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	375 nm	387 nm	223 nm
max	966 nm	999 nm	223 nm
z	1.53 um	1.54 um	885 nm
Asymmetry	0.388		
Theta	48.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 372.399   (brightness)
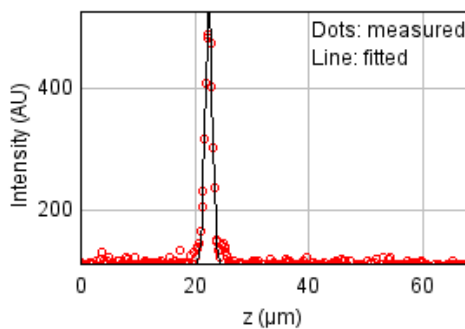 B = 120.962   (background)
 a = 0.603 px
 b = 0.402 px
 c = 0.496 px

  xc = 6.342 px
  yc = 4.859 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 23079.8647
Standard deviation: 8.67057
R^2: 0.97442
Parameters:
 a = 111.79132
 b = 528.62290
 c = 22.53550
 d = 0.65026

Bead 1063

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
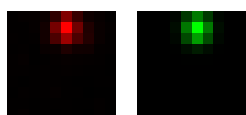Frame size : 10 pixels

Coordinates : -67.1 um (x), -93.5 um (y), 60.0 um (z)
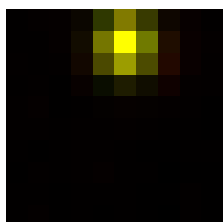Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	421 nm	435 nm	223 nm
max	468 nm	483 nm	223 nm
z	1.28 um	1.29 um	885 nm
Asymmetry	0.9		
Theta	89.8°		

XY profile & fitting parameters :

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

Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
  $R^2 = 0.988$

Parameters:
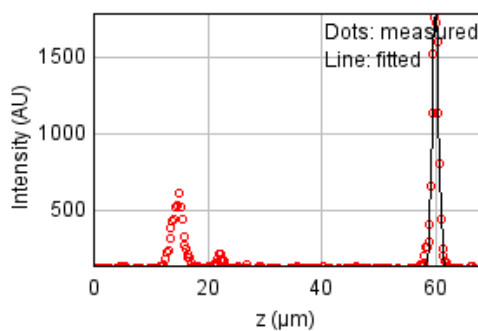 A = 1604.466   (brightness)
 B = 118.121   (background)
 a = 0.757 px
 b = 0.000 px
 c = 0.614 px

  xc = 5.009 px
  yc = 1.103 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 1805398.11
Standard deviation: 76.68622
R^2: 0.86845
Parameters:
 a = 137.04132
 b = 1808.05475
 c = 59.96667
 d = 0.54536

Bead 1064 (Rejected)

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

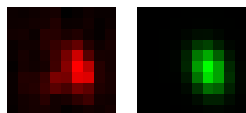Coordinates : -61.8 um (x), 74.5 um (y), 23.3 um (z)
Corresponding bead : Not found
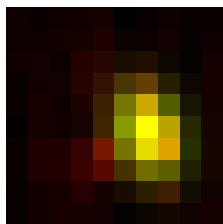Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	519 nm	536 nm	223 nm
max	726 nm	751 nm	223 nm
z	1.44 um	1.45 um	885 nm
Asymmetry	0.714		
Theta	-71.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.896$

Parameters:
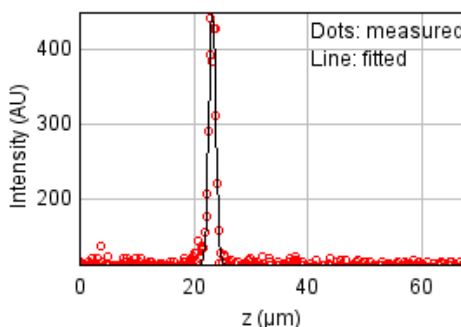 A = 276.534   (brightness)
 B = 122.479   (background)
 a = 0.474 px
 b = -0.074 px
 c = 0.279 px

xc = 6.067 px
yc = 5.256 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 22656.0481
Standard deviation: 8.59059
R^2: 0.95964
Parameters:
 a = 112.35769
 b = 448.39918
 c = 23.33264
 d = 0.61164

Bead 1065

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
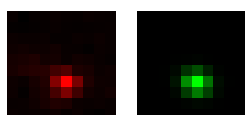Frame size : 10 pixels

Coordinates : -147 um (x), 61.4 um (y), 23.2 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	369 nm	382 nm	223 nm
max	442 nm	457 nm	223 nm
z	1.55 um	1.56 um	885 nm
Asymmetry	0.835		
Theta	-13.4°		

XY profile & fitting parameters :

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

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

Parameters:
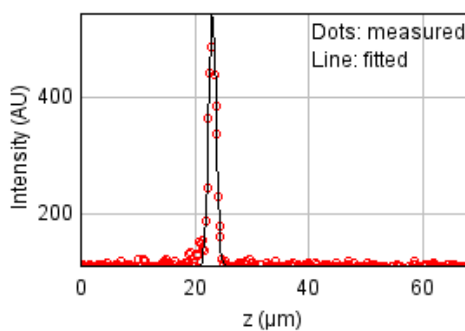 A = 439.022 (brightness)
 B = 119.085 (background)
 a = 0.702 px
 b = -0.067 px
 c = 0.968 px

xc = 4.937 px
yc = 6.112 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 20851.3907
Standard deviation: 8.24135
R^2: 0.97892
Parameters:
 a = 110.71792
 b = 545.72687
 c = 23.16365
 d = 0.65791

Bead 1066

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
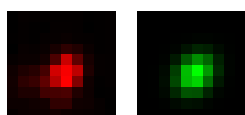Frame size : 10 pixels

Coordinates : -61.0 um (x), -5.79 um (y), 24.0 um (z)
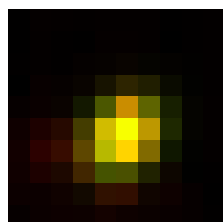Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	524 nm	541 nm	223 nm
max	652 nm	674 nm	223 nm
z	1.82 um	1.83 um	885 nm
Asymmetry	0.803		
Theta	48.5°		

XY profile & fitting parameters :

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

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

Parameters:
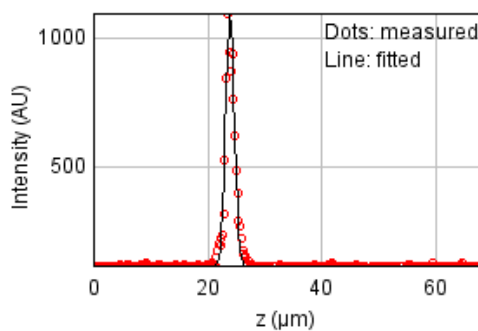 A = 954.285   (brightness)
 B = 130.353   (background)
 a = 0.413 px
 b = 0.086 px
 c = 0.392 px

xc = 4.809 px
yc = 5.300 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 324662.491
Standard deviation: 32.51973
R^2: 0.94696
Parameters:
 a = 113.59985
 b = 1097.68467
 c = 23.98207
 d = 0.77434

Bead 1067

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
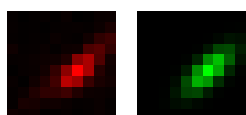Frame size : 10 pixels

Coordinates : -148 um (x), -56.5 um (y), 23.0 um (z)
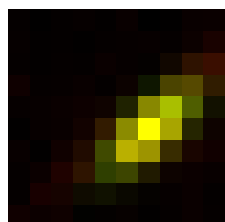Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	376 nm	389 nm	223 nm
max	904 nm	934 nm	223 nm
z	1.82 um	1.83 um	885 nm
Asymmetry	0.416		
Theta	42.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 446.929   (brightness)
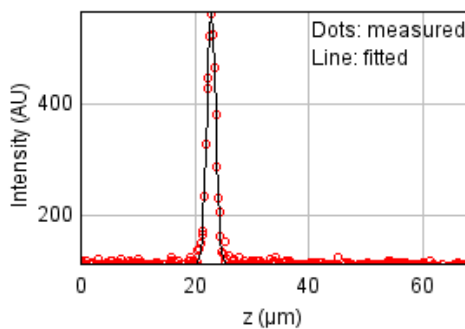 B = 118.008   (background)
 a = 0.523 px
 b = 0.390 px
 c = 0.589 px

 xc = 6.102 px
 yc = 4.969 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 16389.7682
Standard deviation: 7.30663
R^2: 0.98711
Parameters:
 a = 111.39563
 b = 569.17738
 c = 22.97219
 d = 0.77459

Bead 1068

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
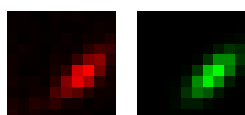Frame size : 10 pixels

Coordinates : -159 um (x), -63.2 um (y), 23.0 um (z)
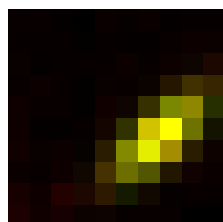Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	372 nm	385 nm	223 nm
max	882 nm	912 nm	223 nm
z	2.08 um	2.09 um	885 nm
Asymmetry	0.422		
Theta	42.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 402.309   (brightness)
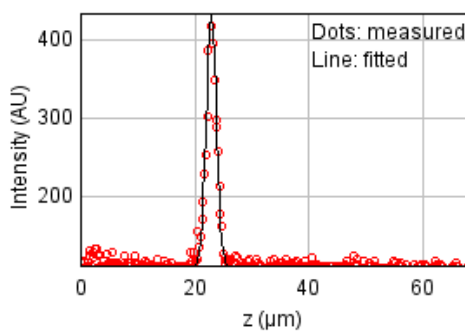 B = 115.669   (background)
 a = 0.532 px
 b = 0.396 px
 c = 0.609 px

xc = 6.505 px
yc = 5.333 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25616.9298
Standard deviation: 9.13470
R^2: 0.96498
Parameters:
 a = 112.56118
 b = 435.12572
 c = 22.98426
 d = 0.88271

Bead 1069

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
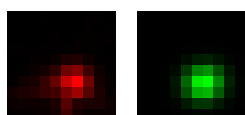Frame size : 10 pixels

Coordinates : -42.8 um (x), -74.0 um (y), 23.6 um (z)
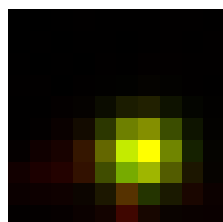Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	539 nm	557 nm	223 nm
max	605 nm	626 nm	223 nm
z	1.63 um	1.64 um	885 nm
Asymmetry	0.89		
Theta	7.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.932$

Parameters:
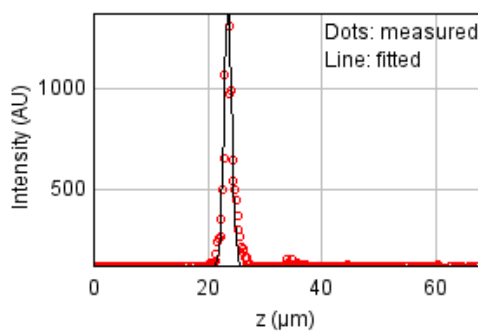A = 1370.074   (brightness)
B = 139.936   (background)
a = 0.368 px
b = 0.013 px
c = 0.461 px

xc = 5.611 px
yc = 6.141 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 410997.832
Standard deviation: 36.58900
R^2: 0.95448
Parameters:
a = 118.95350
b = 1385.67129
c = 23.62060
d = 0.69172

Bead 1070

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
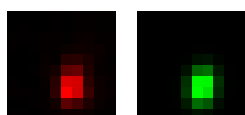Frame size : 10 pixels

Coordinates : 60.2 um (x), -74.5 um (y), 63.2 um (z)
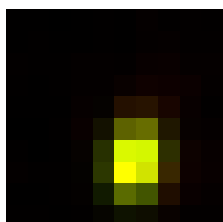Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	401 nm	414 nm	223 nm
max	550 nm	569 nm	223 nm
z	1.56 um	1.57 um	885 nm
Asymmetry	0.728		
Theta	81.6°		

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 = 0.983

Parameters:
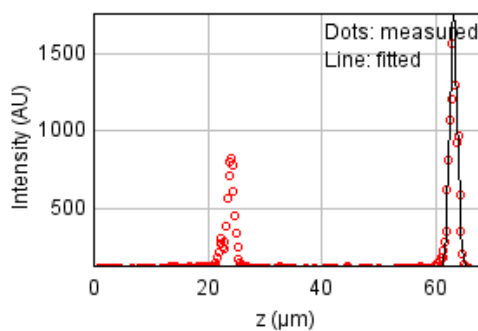A = 2198.196   (brightness)
B = 133.717   (background)
a = 0.827 px
b = 0.056 px
c = 0.451 px

xc = 5.464 px
yc = 6.473 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 2885746.35
Standard deviation: 96.95270
R^2: 0.82366
Parameters:
 a = 135.64850
 b = 1752.15447
 c = 63.15310
 d = 0.66328

Bead 1071

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
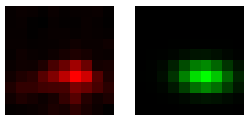Frame size : 10 pixels

Coordinates : -25.3 um (x), -84.9 um (y), 23.3 um (z)
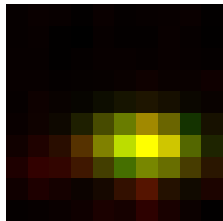Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	460 nm	476 nm	223 nm
max	823 nm	851 nm	223 nm
z	1.92 um	1.93 um	885 nm
Asymmetry	0.559		
Theta	-3.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.906$

Parameters:
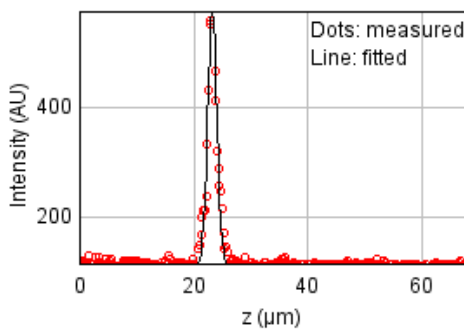 A = 467.025   (brightness)
 B = 128.038   (background)
 a = 0.199 px
 b = -0.024 px
 c = 0.632 px

xc = 5.864 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: 41749.1659
Standard deviation: 11.66151
R^2: 0.96968
Parameters:
 a = 113.93430
 b = 574.71849
 c = 23.32484
 d = 0.81527

Bead 1072

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

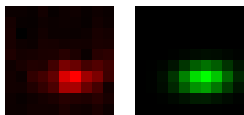Coordinates : 144 um (x), 73.2 um (y), 22.7 um (z)
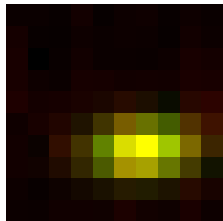Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	458 nm	474 nm	223 nm
max	828 nm	856 nm	223 nm
z	1.28 um	1.28 um	885 nm
Asymmetry	0.553		
Theta	3.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.941$

Parameters:
A = 267.644   (brightness)
B = 117.940   (background)
a = 0.197 px
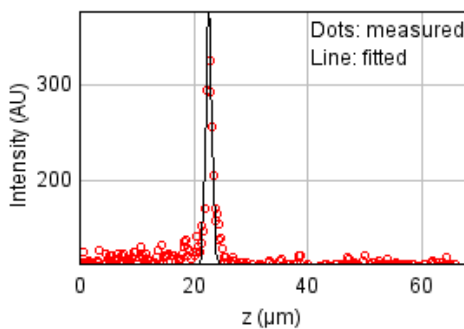b = 0.025 px
c = 0.638 px

xc = 5.840 px
yc = 6.143 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 34494.5561
Standard deviation: 10.60001
R^2: 0.89636
Parameters:
a = 112.70361
b = 377.90601
c = 22.71284
d = 0.54185

Bead 1073

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
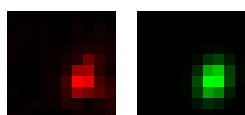Frame size : 10 pixels

Coordinates : 38.0 um (x), 72.4 um (y), 24.1 um (z)
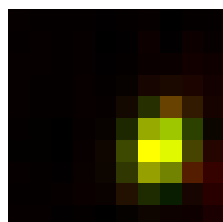Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	446 nm	461 nm	223 nm
max	579 nm	598 nm	223 nm
z	1.81 um	1.82 um	885 nm
Asymmetry	0.771		
Theta	68.8°		

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 = 0.932

Parameters:
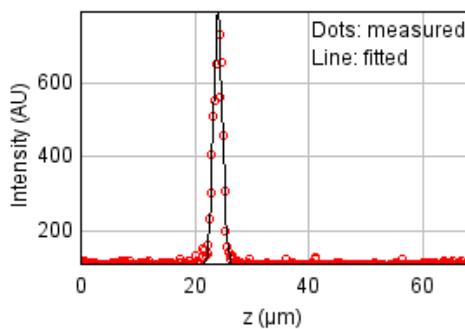A = 773.885   (brightness)
B = 124.548   (background)
a = 0.638 px
b = 0.092 px
c = 0.436 px

xc = 6.500 px
yc = 5.866 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 55304.1442
Standard deviation: 13.42177
R^2: 0.98020
Parameters:
a = 112.89875
b = 791.40499
c = 24.14569
d = 0.76903

Bead 1074 (Rejected)

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

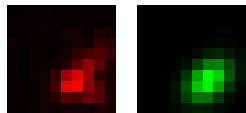Coordinates : 67.5 um (x), 71.8 um (y), 24.2 um (z)
Corresponding bead : Not found
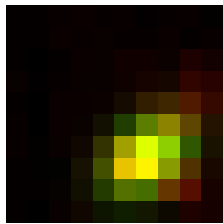Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	527 nm	545 nm	223 nm
max	760 nm	785 nm	223 nm
z	1.84 um	1.85 um	885 nm
Asymmetry	0.694		
Theta	40.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.880$

Parameters:
 A = 488.123   (brightness)
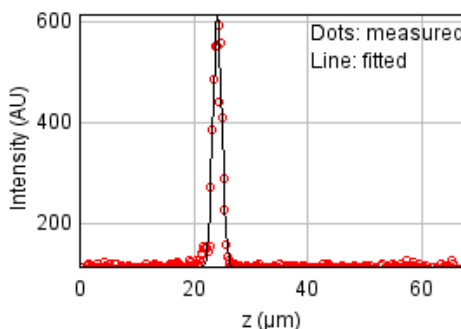 B = 120.102   (background)
 a = 0.337 px
 b = 0.123 px
 c = 0.379 px

xc = 6.034 px
yc = 6.428 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 69864.4862
Standard deviation: 15.08548
R^2: 0.95598
Parameters:
 a = 112.72601
 b = 614.31971
 c = 24.22436
 d = 0.78047

Bead 1075

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
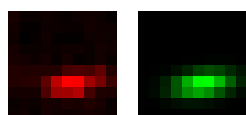Frame size : 10 pixels

Coordinates : 145 um (x), 66.6 um (y), 23.0 um (z)
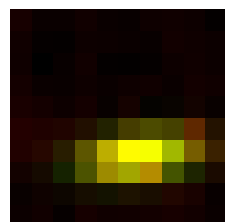Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	381 nm	393 nm	223 nm
max	910 nm	941 nm	223 nm
z	2.03 um	2.04 um	885 nm
Asymmetry	0.418		
Theta	7.1°		

XY profile & fitting parameters :

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

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

Parameters:
A = 264.912   (brightness)
B = 111.993   (background)
a = 0.174 px
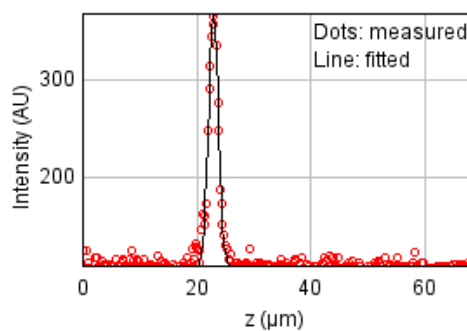b = 0.094 px
c = 0.915 px

xc = 5.428 px
yc = 6.230 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 15597.7766
Standard deviation: 7.12791
R^2: 0.96627
Parameters:
 a = 109.72900
 b = 369.00135
 c = 23.00695
 d = 0.86405

Bead 1076

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
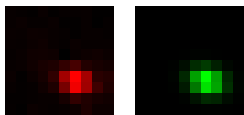Frame size : 10 pixels

Coordinates : 110 um (x), 6.51 um (y), 23.3 um (z)
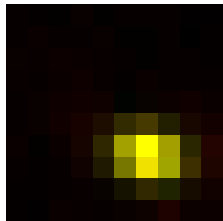Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	417 nm	223 nm
max	545 nm	564 nm	223 nm
z	1.52 um	1.52 um	885 nm
Asymmetry	0.74		
Theta	-13.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 665.603   (brightness)
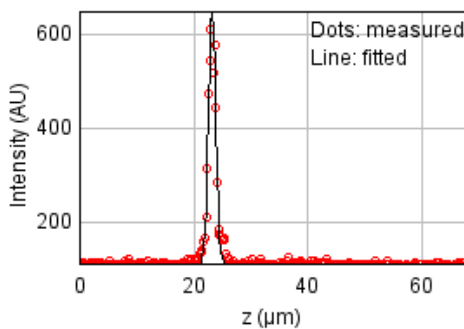 B = 118.457   (background)
 a = 0.471 px
 b = -0.084 px
 c = 0.805 px

xc = 6.071 px
yc = 6.428 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 40291.6978
Standard deviation: 11.45615
R^2: 0.97276
Parameters:
 a = 112.65915
 b = 648.39639
 c = 23.29608
 d = 0.64399

Bead 1077

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
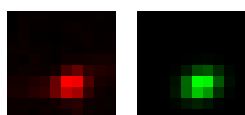Frame size : 10 pixels

Coordinates : -155 um (x), 6.1 um (y), 23.9 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	408 nm	422 nm	223 nm
max	553 nm	572 nm	223 nm
z	1.82 um	1.83 um	885 nm
Asymmetry	0.738		
Theta	18.7°		

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 = 0.972

Parameters:
 A = 617.184   (brightness)
 B = 119.659   (background)
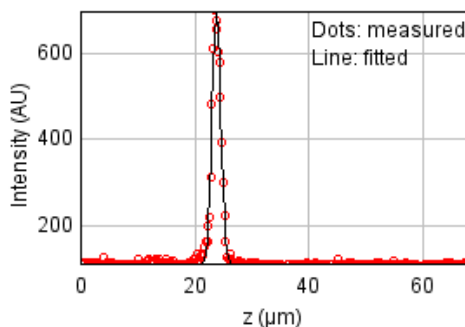 a = 0.476 px
 b = 0.112 px
 c = 0.768 px

xc = 5.379 px
yc = 6.278 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 29583.1514
Standard deviation: 9.81642
R^2: 0.98587
Parameters:
 a = 111.50895
 b = 699.04463
 c = 23.88429
 d = 0.77324

Bead 1078

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
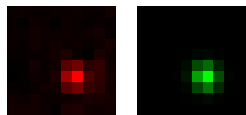Frame size : 10 pixels

Coordinates : 87.5 um (x), 438 nm (y), 23.3 um (z)
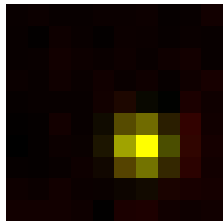Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	392 nm	405 nm	223 nm
max	415 nm	429 nm	223 nm
z	1.42 um	1.43 um	885 nm
Asymmetry	0.945		
Theta	-40.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.943$

Parameters:
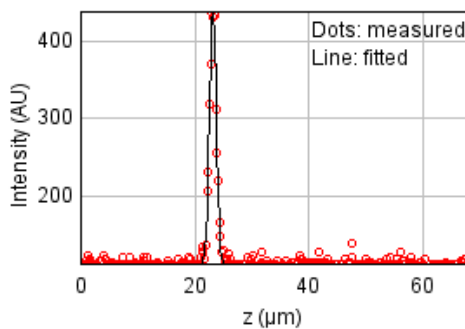A = 324.104   (brightness)
B = 115.089   (background)
a = 0.819 px
b = -0.046 px
c = 0.832 px

xc = 5.774 px
yc = 6.010 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 13955.5017
Standard deviation: 6.74223
R^2: 0.97320
Parameters:
 a = 112.02982
 b = 439.91323
 c = 23.25153
 d = 0.60410

Bead 1079

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
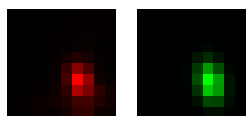Frame size : 10 pixels

Coordinates : 1.37 um (x), -19.6 um (y), 23.8 um (z)
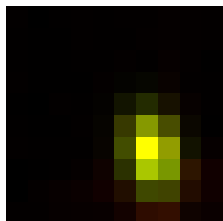Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	394 nm	408 nm	223 nm
max	612 nm	632 nm	223 nm
z	1.43 um	1.44 um	885 nm
Asymmetry	0.645		
Theta	-77.8°		

XY profile & fitting parameters :

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

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

Parameters:
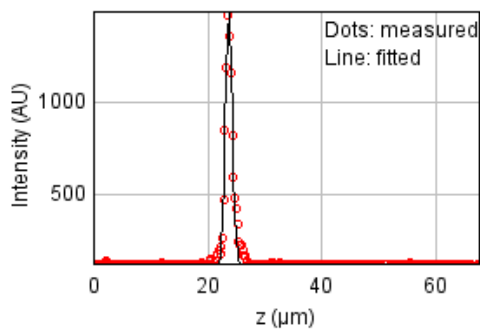 A = 1342.659   (brightness)
 B = 130.725   (background)
 a = 0.841 px
 b = -0.104 px
 c = 0.381 px

xc = 6.241 px
yc = 6.235 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 177141.774
Standard deviation: 24.02101
R^2: 0.98087
Parameters:
 a = 116.02413
 b = 1499.79800
 c = 23.78289
 d = 0.60816

Bead 1080

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
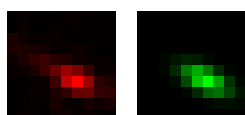Frame size : 10 pixels

Coordinates : 125 um (x), -23.1 um (y), 23.6 um (z)
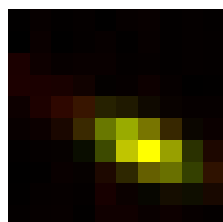Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	360 nm	373 nm	223 nm
max	792 nm	819 nm	223 nm
z	1.74 um	1.75 um	885 nm
Asymmetry	0.455		
Theta	-25.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 592.869 (brightness)
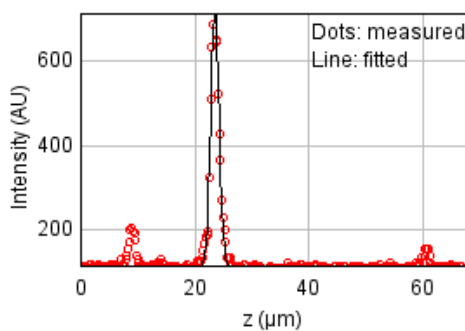 B = 123.842 (background)
 a = 0.363 px
 b = -0.316 px
 c = 0.884 px

xc = 5.715 px
yc = 5.837 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 90366.1364
Standard deviation: 17.15670
R^2: 0.95746
Parameters:
 a = 115.87220
 b = 712.18182
 c = 23.61885
 d = 0.73848

Bead 1081

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
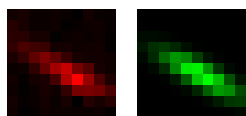Frame size : 10 pixels

Coordinates : 142 um (x), -32.2 um (y), 22.9 um (z)
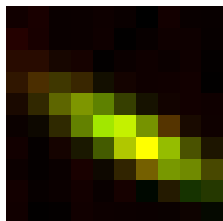Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	373 nm	386 nm	223 nm
max	1.38 um	1.42 um	223 nm
z	1.95 um	1.95 um	885 nm
Asymmetry	0.271		
Theta	-28.3°		

XY profile & fitting parameters :

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

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

Parameters:
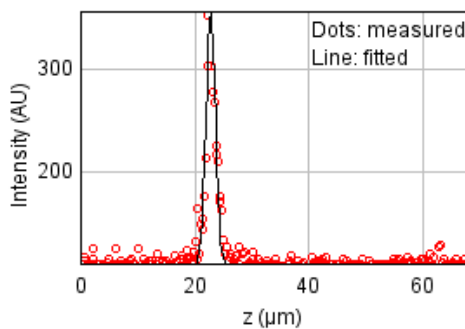 A = 235.963   (brightness)
 B = 113.885   (background)
 a = 0.272 px
 b = -0.373 px
 c = 0.763 px

xc = 5.288 px
yc = 5.514 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 33495.7939
Standard deviation: 10.44542
R^2: 0.91998
Parameters:
 a = 110.59818
 b = 356.49991
 c = 22.87426
 d = 0.82618

Bead 1082

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
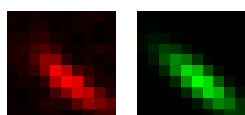Frame size : 10 pixels

Coordinates : 132 um (x), -62.0 um (y), 23.2 um (z)
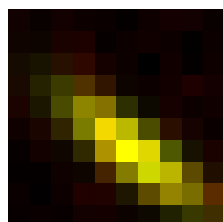Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	420 nm	223 nm
max	1.35 um	1.39 um	223 nm
z	1.72 um	1.73 um	885 nm
Asymmetry	0.301		
Theta	-38.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.970$

Parameters:
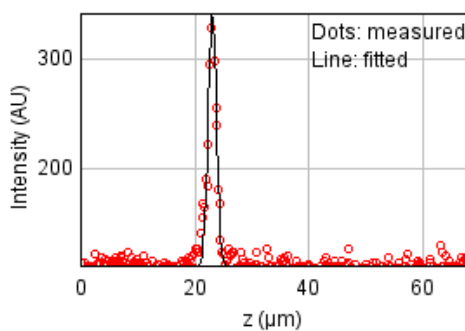 A = 253.910   (brightness)
 B = 116.409   (background)
 a = 0.363 px
 b = -0.361 px
 c = 0.524 px

xc = 5.246 px
yc = 5.982 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 20047.9789
Standard deviation: 8.08102
R^2: 0.93740
Parameters:
 a = 111.76900
 b = 342.03071
 c = 23.15080
 d = 0.73075

Bead 1083

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
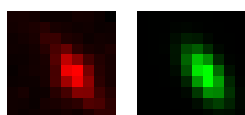Frame size : 10 pixels

Coordinates : 107 um (x), -92.5 um (y), 23.4 um (z)
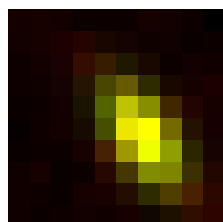Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	464 nm	480 nm	223 nm
max	904 nm	935 nm	223 nm
z	2.07 um	2.08 um	885 nm
Asymmetry	0.513		
Theta	-57.8°		

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 = 412.552   (brightness)
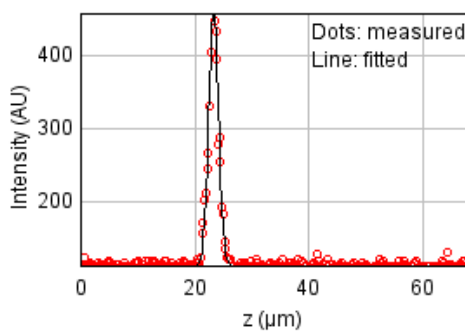 B = 122.462   (background)
 a = 0.493 px
 b = -0.207 px
 c = 0.295 px

xc = 5.734 px
yc = 5.306 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 19116.5500
Standard deviation: 7.89106
R^2: 0.97721
Parameters:
 a = 111.20443
 b = 459.55535
 c = 23.38919
 d = 0.87881

Bead 1084

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
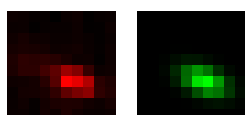Frame size : 10 pixels

Coordinates : -158 um (x), 76.8 um (y), 24.0 um (z)
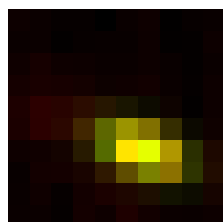Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	416 nm	223 nm
max	741 nm	766 nm	223 nm
z	2.03 um	2.03 um	885 nm
Asymmetry	0.543		
Theta	-21.0°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 529.438   (brightness)
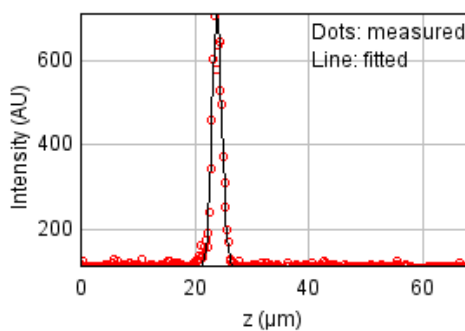 B = 121.947   (background)
 a = 0.320 px
 b = -0.195 px
 c = 0.753 px

xc = 5.653 px
yc = 5.955 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 66338.6665
Standard deviation: 14.69989
R^2: 0.97300
Parameters:
 a = 111.05579
 b = 711.86554
 c = 23.97527
 d = 0.86069

Bead 1085

Date : Mon Oct 17 13:28:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
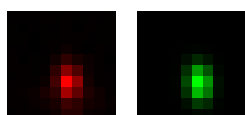Frame size : 10 pixels

Coordinates : -7.65 um (x), 26.8 um (y), 24.3 um (z)
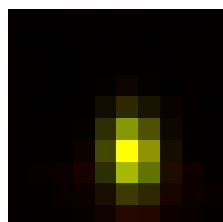Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	382 nm	395 nm	223 nm
max	567 nm	586 nm	223 nm
z	1.3 um	1.31 um	885 nm
Asymmetry	0.674		
Theta	-85.7°		

XY profile & fitting parameters :

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

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

Parameters:
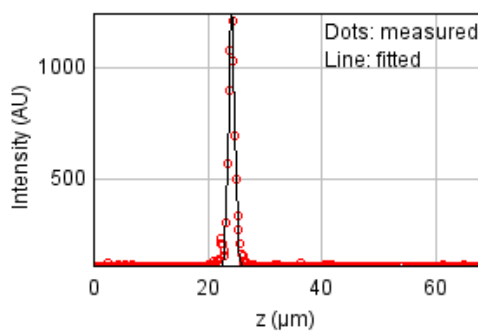A = 1111.275   (brightness)
B = 126.311   (background)
a = 0.917 px
b = -0.038 px
c = 0.420 px

xc = 5.205 px
yc = 6.133 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 82047.0741
Standard deviation: 16.34791
R^2: 0.98549
Parameters:
 a = 115.70334
 b = 1251.07523
 c = 24.27528
 d = 0.55259

Bead 1086

Date : Mon Oct 17 13:28:56 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
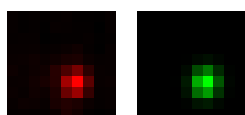Frame size : 10 pixels

Coordinates : -123 um (x), 10.1 um (y), 23.8 um (z)
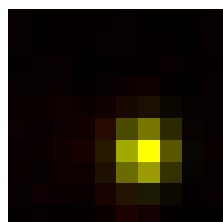Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	422 nm	436 nm	223 nm
max	461 nm	476 nm	223 nm
z	1.33 um	1.34 um	885 nm
Asymmetry	0.915		
Theta	78.7°		

XY profile & fitting parameters :

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

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

Parameters:
A = 854.030 (brightness)
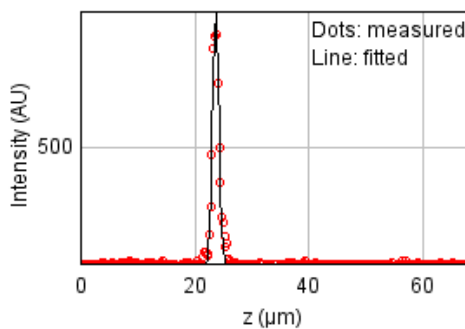B = 123.579 (background)
a = 0.750 px
b = 0.024 px
c = 0.637 px

xc = 5.769 px
yc = 6.115 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 56454.1008
Standard deviation: 13.56059
R^2: 0.98194
Parameters:
a = 112.98204
b = 945.47252
c = 23.76774
d = 0.56662

Bead 1087 (Rejected)

Date : Mon Oct 17 13:28:56 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 152 um (x), -22.5 um (y), 22.8 um (z)
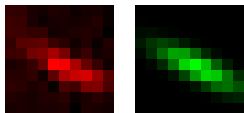Corresponding bead : Not found
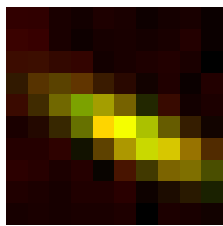Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	403 nm	223 nm
max	1.39 um	1.44 um	223 nm
z	2.65 um	2.66 um	885 nm
Asymmetry	0.28		
Theta	-26.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 126.620   (brightness)
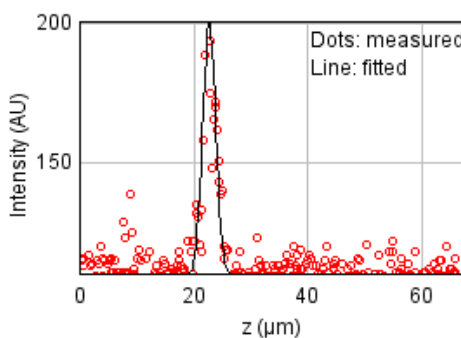 B = 112.685   (background)
 a = 0.226 px
 b = -0.321 px
 c = 0.726 px

xc = 5.243 px
yc = 5.252 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19876.8972
Standard deviation: 8.04646
R^2: 0.78034
Parameters:
 a = 109.78445
 b = 200.68910
 c = 22.79700
 d = 1.12710

Bead 1088

Date : Mon Oct 17 13:28:56 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
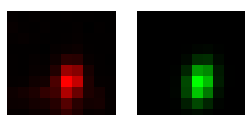Frame size : 10 pixels

Coordinates : -26.3 um (x), -29.7 um (y), 24.1 um (z)
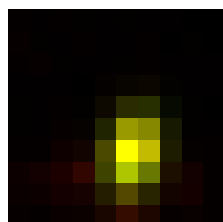Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	407 nm	420 nm	223 nm
max	608 nm	629 nm	223 nm
z	1.61 um	1.61 um	885 nm
Asymmetry	0.669		
Theta	77.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1153.506   (brightness)
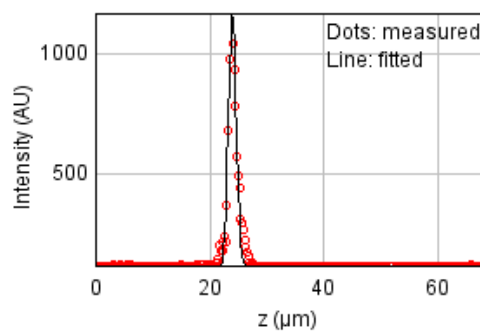 B = 130.056   (background)
 a = 0.791 px
 b = 0.094 px
 c = 0.383 px

xc = 5.291 px
yc = 6.092 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 228837.197
Standard deviation: 27.30198
R^2: 0.96275
Parameters:
 a = 115.72663
 b = 1172.52550
 c = 24.05000
 d = 0.68161

Bead 1089

Date : Mon Oct 17 13:28:56 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
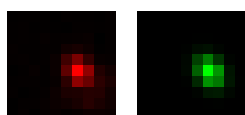Frame size : 10 pixels

Coordinates : 40.3 um (x), -37.9 um (y), 23.8 um (z)
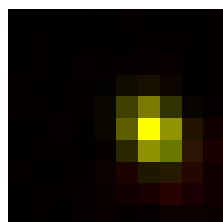Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	403 nm	223 nm
max	505 nm	522 nm	223 nm
z	1.4 um	1.41 um	885 nm
Asymmetry	0.772		
Theta	-54.7°		

XY profile & fitting parameters :

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

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

Parameters:
A = 1165.368   (brightness)
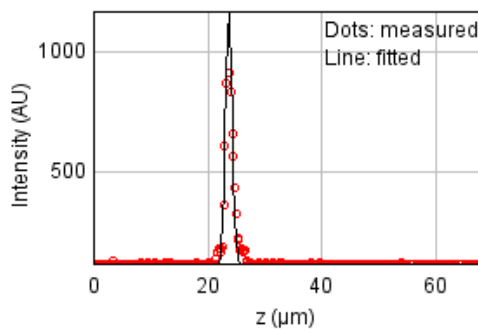B = 127.981   (background)
a = 0.764 px
b = -0.168 px
c = 0.646 px

xc = 6.168 px
yc = 5.111 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 206479.534
Standard deviation: 25.93399
R^2: 0.96112
Parameters:
a = 115.50455
b = 1163.77134
c = 23.78512
d = 0.59501

Bead 1090

Date : Mon Oct 17 13:28:56 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
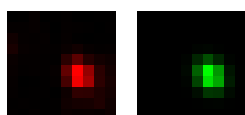Frame size : 10 pixels

Coordinates : 63.0 um (x), -44.3 um (y), 23.7 um (z)
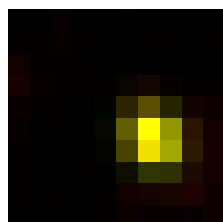Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	402 nm	415 nm	223 nm
max	480 nm	496 nm	223 nm
z	1.26 um	1.26 um	885 nm
Asymmetry	0.837		
Theta	-56.1°		

XY profile & fitting parameters :

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

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

Parameters:
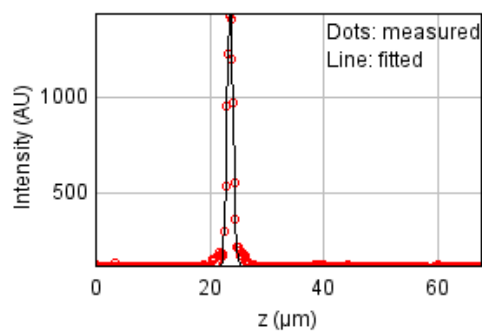A = 1494.164   (brightness)
B = 136.873   (background)
a = 0.754 px
b = -0.115 px
c = 0.660 px

xc = 6.215 px
yc = 5.440 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 74410.4430
Standard deviation: 15.56854
R^2: 0.99035
Parameters:
 a = 115.80250
 b = 1468.23776
 c = 23.65625
 d = 0.53324

Bead 1091

Date : Mon Oct 17 13:28:56 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
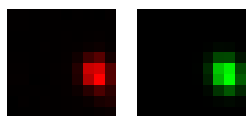Frame size : 10 pixels

Coordinates : 54.9 um (x), -58.6 um (y), 35.3 um (z)
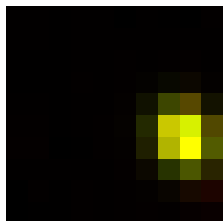Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	426 nm	440 nm	223 nm
max	502 nm	519 nm	223 nm
z	1.41 um	1.42 um	885 nm
Asymmetry	0.849		
Theta	-62.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.990$

Parameters:
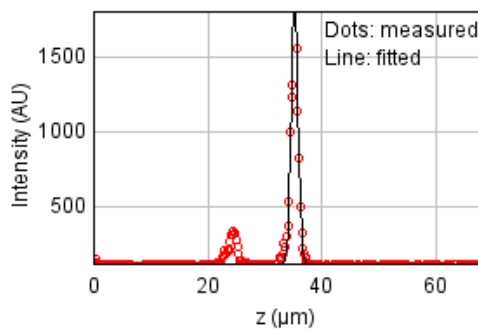A = 2110.339 (brightness)
B = 120.964 (background)
a = 0.696 px
b = -0.084 px
c = 0.576 px

xc = 7.693 px
yc = 5.509 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 514532.887
Standard deviation: 40.93901
R^2: 0.96320
Parameters:
a = 123.68531
b = 1819.26362
c = 35.29560
d = 0.60034

Bead 1092

Date : Mon Oct 17 13:28:56 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
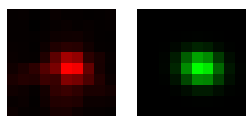Frame size : 10 pixels

Coordinates : -39.5 um (x), -86.0 um (y), 23.8 um (z)
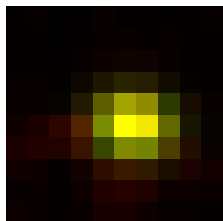Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	499 nm	516 nm	223 nm
max	619 nm	640 nm	223 nm
z	1.6 um	1.61 um	885 nm
Asymmetry	0.806		
Theta	-9.5°		

XY profile & fitting parameters :

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

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

Parameters:
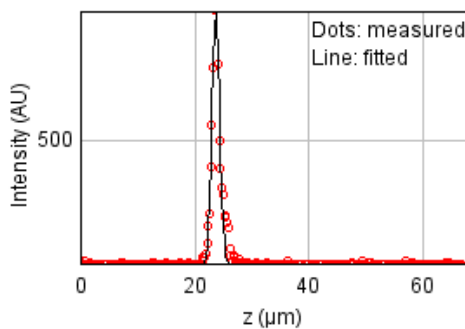 A = 814.670   (brightness)
 B = 136.412   (background)
 a = 0.355 px
 b = -0.031 px
 c = 0.534 px

xc = 5.352 px
yc = 4.941 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 101715.215
Standard deviation: 18.20220
R^2: 0.97012
Parameters:
 a = 114.98898
 b = 905.46447
 c = 23.78214
 d = 0.68022

Bead 1093

Date : Mon Oct 17 13:28:56 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
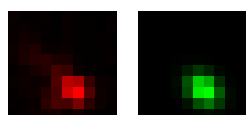Frame size : 10 pixels

Coordinates : -128 um (x), 92.2 um (y), 24.2 um (z)
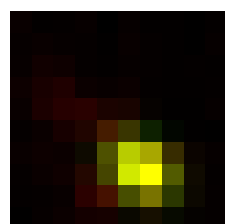Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	427 nm	441 nm	223 nm
max	553 nm	572 nm	223 nm
z	1.99 um	1.99 um	885 nm
Asymmetry	0.772		
Theta	-40.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.934$

Parameters:
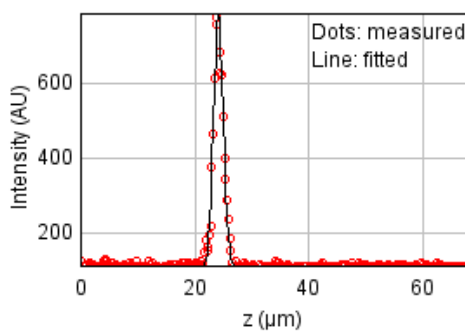A = 795.556   (brightness)
B = 129.145   (background)
a = 0.564 px
b = -0.147 px
c = 0.611 px

xc = 5.512 px
yc = 6.730 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 57889.0634
Standard deviation: 13.73185
R^2: 0.98095
Parameters:
a = 111.90073
b = 789.44806
c = 24.22667
d = 0.84297

Bead 1094 (Rejected)

Date : Mon Oct 17 13:28:56 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

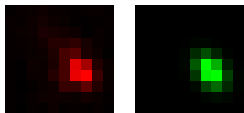Coordinates : -142 um (x), 90.3 um (y), 39.5 um (z)
Corresponding bead : Not found
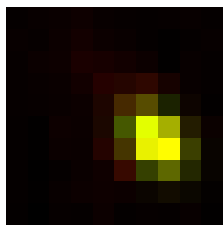Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	386 nm	399 nm	223 nm
max	541 nm	559 nm	223 nm
z	1.75 um	1.76 um	885 nm
Asymmetry	0.714		
Theta	-51.1°		

XY profile & fitting parameters :

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

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

Parameters:
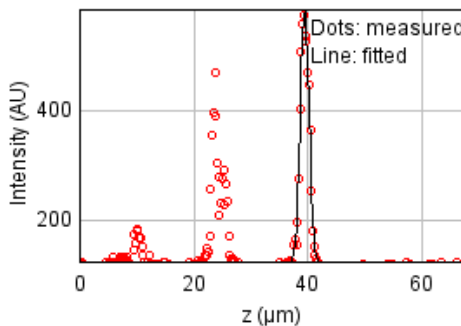 A = 778.929   (brightness)
 B = 126.330   (background)
 a = 0.726 px
 b = -0.215 px
 c = 0.633 px

xc = 6.415 px
yc = 5.594 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 599983.942
Standard deviation: 44.20798
R^2: 0.67161
Parameters:
 a = 124.91414
 b = 586.10175
 c = 39.52445
 d = 0.74514

Bead 1095

Date : Mon Oct 17 13:28:56 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
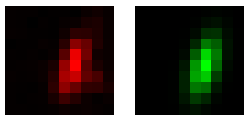Frame size : 10 pixels

Coordinates : 18.9 um (x), 90.4 um (y), 24.3 um (z)
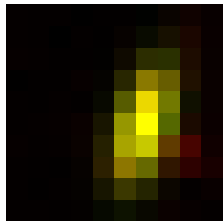Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	921 nm	952 nm	223 nm
z	1.26 um	1.27 um	885 nm
Asymmetry	0.456		
Theta	73.8°		

XY profile & fitting parameters :

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

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

Parameters:
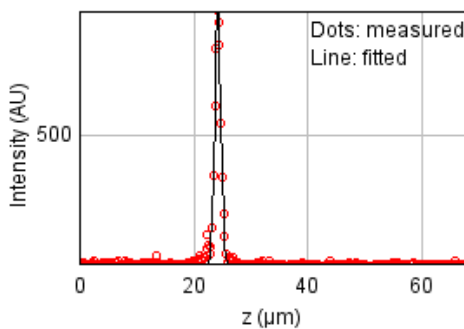 A = 777.182   (brightness)
 B = 121.031   (background)
 a = 0.715 px
 b = 0.161 px
 c = 0.205 px

xc = 5.863 px
yc = 5.020 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 35371.8247
Standard deviation: 10.73395
R^2: 0.98601
Parameters:
 a = 114.26593
 b = 884.66299
 c = 24.30524
 d = 0.53648

Bead 1096 (Rejected)

Date : Mon Oct 17 13:28:56 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

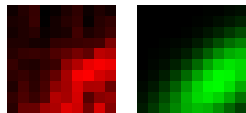Coordinates : 110 um (x), 71.8 um (y), 22.7 um (z)
Corresponding bead : Not found
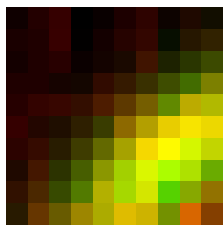Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	971 nm	1.0 um	223 nm
max	2.24 um	2.31 um	223 nm
z	1.35 um	1.35 um	885 nm
Asymmetry	0.434		
Theta	39.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.841$

Parameters:
A = 90.580   (brightness)
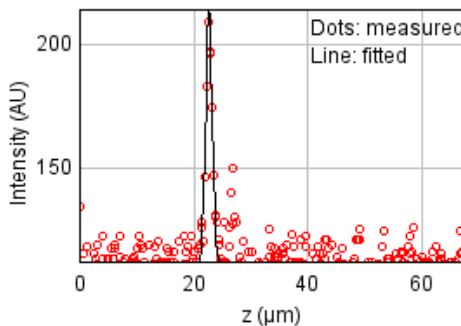B = 111.948   (background)
a = 0.074 px
b = 0.057 px
c = 0.095 px

xc = 7.030 px
yc = 6.545 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15805.1045
Standard deviation: 7.17513
R^2: 0.74951
Parameters:
a = 112.31588
b = 215.11206
c = 22.73052
d = 0.57265

Bead 1097 (Rejected)

Date : Mon Oct 17 13:28:56 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

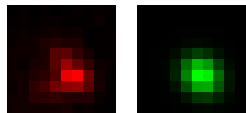Coordinates : -90.6 um (x), 69.3 um (y), 24.5 um (z)
Corresponding bead : Not found
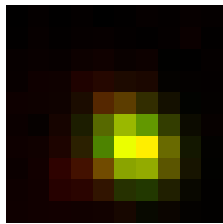Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	554 nm	573 nm	223 nm
max	646 nm	668 nm	223 nm
z	2.01 um	2.02 um	885 nm
Asymmetry	0.858		
Theta	-40.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 456.313   (brightness)
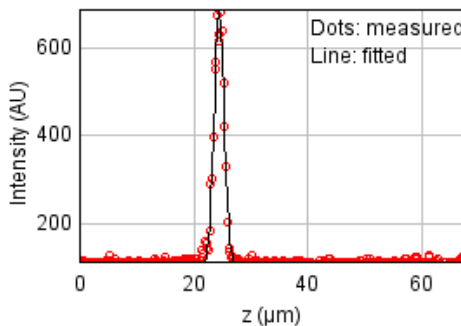 B = 129.347   (background)
 a = 0.371 px
 b = -0.057 px
 c = 0.388 px

xc = 5.402 px
yc = 5.986 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 44361.6233
Standard deviation: 12.02083
R^2: 0.98018
Parameters:
 a = 113.18852
 b = 691.14797
 c = 24.52698
 d = 0.85328

Bead 1098

Date : Mon Oct 17 13:28:56 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
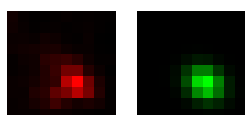Frame size : 10 pixels

Coordinates : -102 um (x), 69.0 um (y), 24.6 um (z)
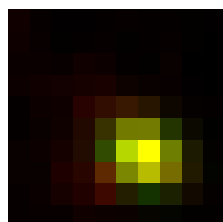Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	485 nm	502 nm	223 nm
max	586 nm	606 nm	223 nm
z	1.87 um	1.88 um	885 nm
Asymmetry	0.828		
Theta	-31.2°		

XY profile & fitting parameters :

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

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

Parameters:
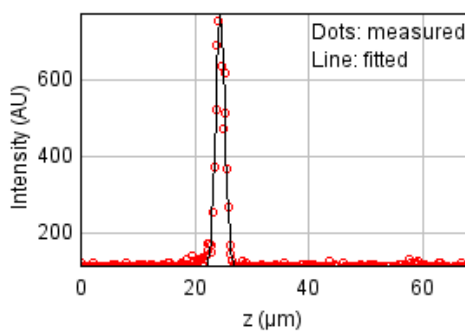 A = 651.859   (brightness)
 B = 134.459   (background)
 a = 0.439 px
 b = -0.079 px
 c = 0.521 px

xc = 5.720 px
yc = 6.161 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 91317.2936
Standard deviation: 17.24675
R^2: 0.96714
Parameters:
 a = 113.78720
 b = 775.58247
 c = 24.55439
 d = 0.79473

Bead 1099

Date : Mon Oct 17 13:28:56 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
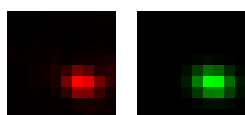Frame size : 10 pixels

Coordinates : 116 um (x), 22.9 um (y), 24.2 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	413 nm	426 nm	223 nm
max	597 nm	617 nm	223 nm
z	1.36 um	1.36 um	885 nm
Asymmetry	0.691		
Theta	-6.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.981$

Parameters:
A = 743.132   (brightness)
B = 118.887   (background)
a = 0.382 px
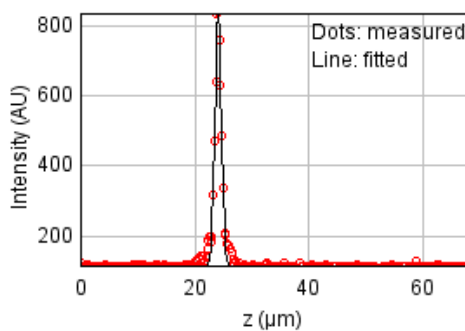b = -0.048 px
c = 0.783 px

xc = 6.447 px
yc = 6.073 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 47564.9141
Standard deviation: 12.44727
R^2: 0.98006
Parameters:
 a = 113.80945
 b = 834.28429
 c = 24.19551
 d = 0.57641

Bead 1100

Date : Mon Oct 17 13:28:56 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
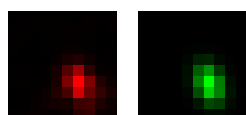Frame size : 10 pixels

Coordinates : 11.7 um (x), -24.9 um (y), 24.4 um (z)
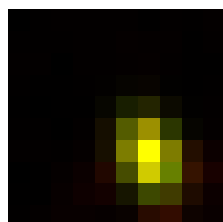Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	419 nm	433 nm	223 nm
max	615 nm	636 nm	223 nm
z	1.69 um	1.7 um	885 nm
Asymmetry	0.681		
Theta	-70.2°		

XY profile & fitting parameters :

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

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

Parameters:
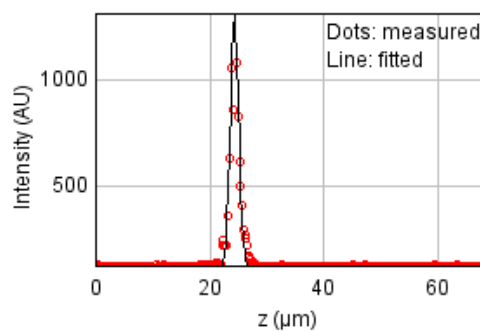A = 1275.595   (brightness)
B = 127.632   (background)
a = 0.718 px
b = -0.131 px
c = 0.402 px

xc = 6.039 px
yc = 6.226 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 392835.437
Standard deviation: 35.77142
R^2: 0.95356
Parameters:
a = 116.46737
b = 1318.97350
c = 24.42671
d = 0.71951