Bead 1101

Date : Mon Oct 17 13:28:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
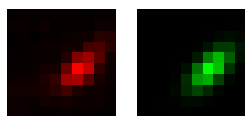
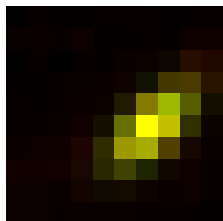Coordinates : -138 um (x), -51.0 um (y), 23.5 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	383 nm	396 nm	223 nm
max	800 nm	827 nm	223 nm
z	1.63 um	1.64 um	885 nm
Asymmetry	0.478		
Theta	44.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 602.708   (brightness)
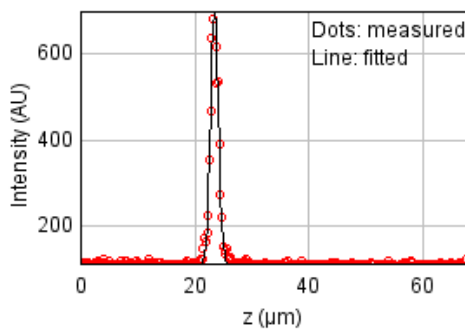 B = 120.319   (background)
 a = 0.556 px
 b = 0.353 px
 c = 0.569 px

xc = 6.244 px
yc = 5.001 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 29958.9036
Standard deviation: 9.87856
R^2: 0.98410
Parameters:
 a = 111.20956
 b = 697.87203
 c = 23.54532
 d = 0.69408

Bead 1102

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

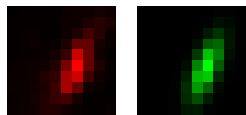Coordinates : -116 um (x), -93.6 um (y), 23.8 um (z)
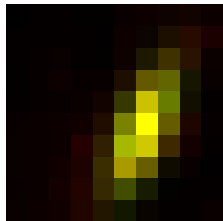Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	373 nm	386 nm	223 nm
max	987 nm	1.02 um	223 nm
z	1.46 um	1.46 um	885 nm
Asymmetry	0.378		
Theta	67.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.969$

Parameters:
A = 539.679   (brightness)
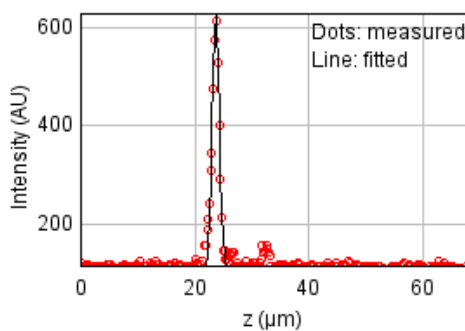B = 124.260   (background)
a = 0.846 px
b = 0.290 px
c = 0.257 px

xc = 5.814 px
yc = 5.235 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 38691.2665
Standard deviation: 11.22632
R^2: 0.97053
Parameters:
a = 114.42166
b = 628.60697
c = 23.77900
d = 0.61827

Bead 1103 (Rejected)

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

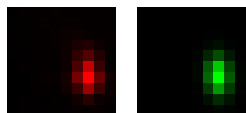Coordinates : -104 um (x), 95.1 um (y), 54.1 um (z)
Corresponding bead : Not found
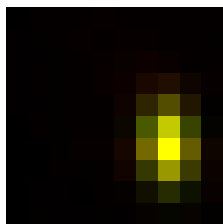Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	372 nm	385 nm	223 nm
max	601 nm	622 nm	223 nm
z	1.3 um	1.3 um	885 nm
Asymmetry	0.619		
Theta	-86.4°		

XY profile & fitting parameters :

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

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

Parameters:
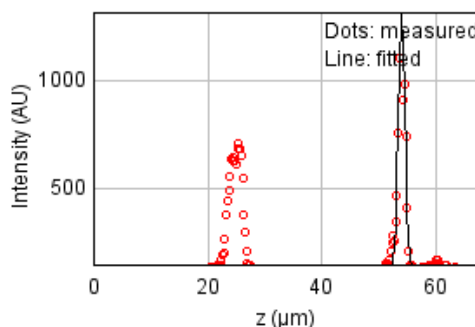 A = 1296.383   (brightness)
 B = 125.347   (background)
 a = 0.968 px
 b = -0.037 px
 c = 0.374 px

xc = 6.958 px
yc = 5.803 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 3455636.44
Standard deviation: 106.09498
R^2: 0.63378
Parameters:
 a = 143.70142
 b = 1321.91188
 c = 54.05107
 d = 0.55057

Bead 1104 (Rejected)

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

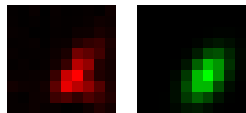Coordinates : 54.1 um (x), 82.9 um (y), 25.0 um (z)
Corresponding bead : Not found
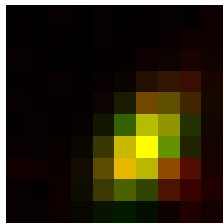Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	489 nm	505 nm	223 nm
max	807 nm	834 nm	223 nm
z	2.13 um	2.14 um	885 nm
Asymmetry	0.605		
Theta	55.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.886$

Parameters:
 A = 551.961   (brightness)
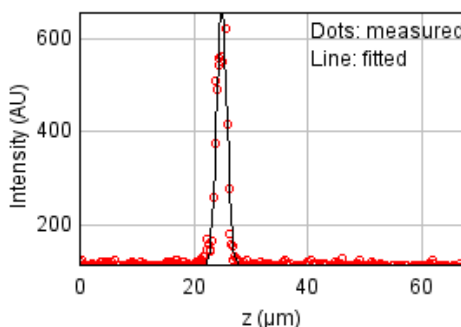 B = 127.517   (background)
 a = 0.445 px
 b = 0.167 px
 c = 0.323 px

xc = 5.842 px
yc = 6.059 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 109302.275
Standard deviation: 18.86885
R^2: 0.94990
Parameters:
 a = 112.61459
 b = 659.08282
 c = 24.98982
 d = 0.90418

Bead 1105 (Rejected)

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

Coordinates : 92.2 um (x), 77.9 um (y), 61.2 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

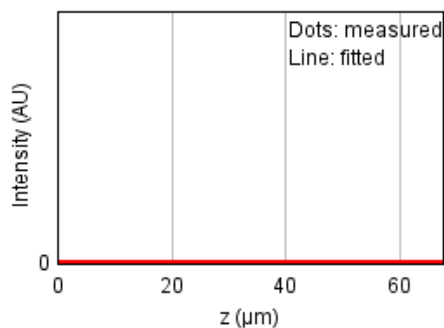| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	263 nm	264 nm	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

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

Bead 1106

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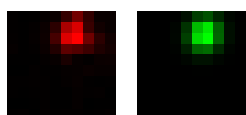Frame size : 10 pixels

Coordinates : 15.1 um (x), 70.0 um (y), 38.4 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	490 nm	507 nm	223 nm
max	536 nm	554 nm	223 nm
z	1.33 um	1.33 um	885 nm
Asymmetry	0.915		
Theta	66.4°		

XY profile & fitting parameters :

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

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

Parameters:
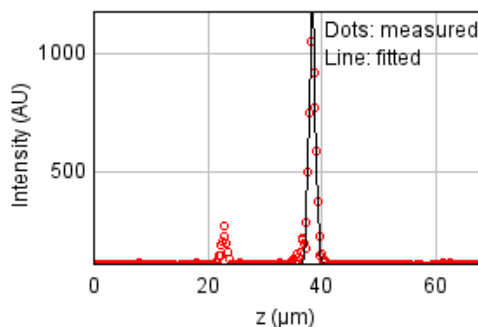 A = 1186.767 (brightness)
 B = 122.279 (background)
 a = 0.543 px
 b = 0.033 px
 c = 0.481 px

 xc = 5.667 px
 yc = 1.620 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 145943.400
Standard deviation: 21.80334
R^2: 0.97185
Parameters:
 a = 118.02464
 b = 1187.98196
 c = 38.39812
 d = 0.56292

Bead 1107 (Rejected)

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

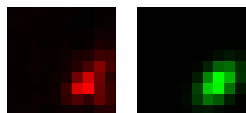Coordinates : 59.8 um (x), 66.8 um (y), 24.8 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

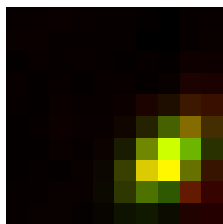| FWHM	Non corrected	Corrected	Theoretical
min	435 nm	449 nm	223 nm
max	704 nm	728 nm	223 nm
z	1.49 um	1.5 um	885 nm
Asymmetry	0.618		
Theta	44.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.884$

Parameters:
 A = 536.124   (brightness)
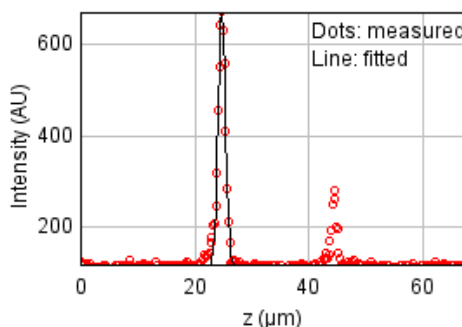 B = 119.297   (background)
 a = 0.486 px
 b = 0.220 px
 c = 0.495 px

xc = 6.920 px
yc = 6.503 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 125066.230
Standard deviation: 20.18370
R^2: 0.92334
Parameters:
 a = 117.01397
 b = 669.95955
 c = 24.82395
 d = 0.63248

Bead 1108

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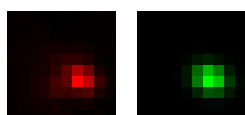Frame size : 10 pixels

Coordinates : -85.1 um (x), 65.0 um (y), 25.1 um (z)
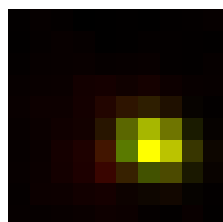Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	419 nm	434 nm	223 nm
max	530 nm	548 nm	223 nm
z	1.62 um	1.62 um	885 nm
Asymmetry	0.791		
Theta	-18.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.936$

Parameters:
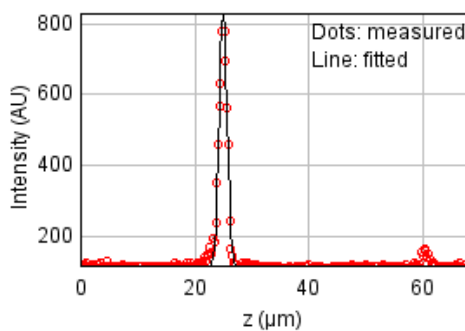 A = 741.230   (brightness)
 B = 134.873   (background)
 a = 0.506 px
 b = -0.086 px
 c = 0.734 px

xc = 6.190 px
yc = 5.751 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 53669.5485
Standard deviation: 13.22193
R^2: 0.98062
Parameters:
 a = 114.95046
 b = 828.63749
 c = 25.06090
 d = 0.68637

Bead 1109

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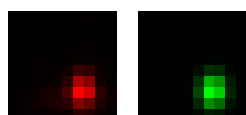Frame size : 10 pixels

Coordinates : -24.6 um (x), 48.4 um (y), 24.8 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	417 nm	432 nm	223 nm
max	522 nm	540 nm	223 nm
z	1.32 um	1.33 um	885 nm
Asymmetry	0.8		
Theta	87.2°		

XY profile & fitting parameters :

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

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

Parameters:
A = 1562.518   (brightness)
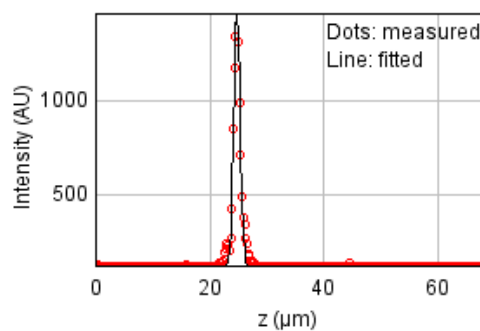B = 127.408   (background)
a = 0.769 px
b = 0.013 px
c = 0.493 px

xc = 6.354 px
yc = 6.873 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 161542.656
Standard deviation: 22.93900
R^2: 0.98016
Parameters:
a = 115.79600
b = 1464.77777
c = 24.83900
d = 0.56082

Bead 1110

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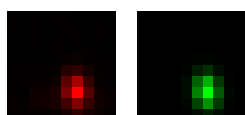Frame size : 10 pixels

Coordinates : -16.1 um (x), 39.2 um (y), 24.9 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	393 nm	406 nm	223 nm
max	533 nm	551 nm	223 nm
z	1.38 um	1.38 um	885 nm
Asymmetry	0.738		
Theta	-82.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.984$

Parameters:
A = 1613.535   (brightness)
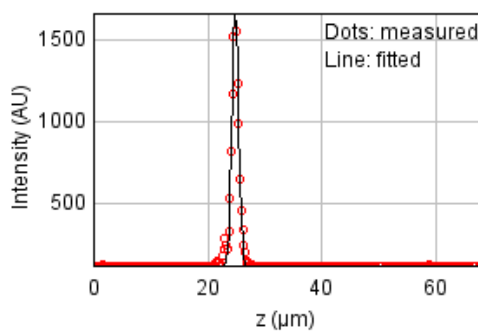B = 128.491   (background)
a = 0.862 px
b = -0.049 px
c = 0.479 px

xc = 5.891 px
yc = 6.887 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 128911.993
Standard deviation: 20.49168
R^2: 0.98829
Parameters:
 a = 115.19814
 b = 1659.17553
 c = 24.90162
 d = 0.58431

Bead 1111

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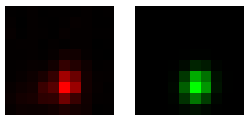Frame size : 10 pixels

Coordinates : -51.4 um (x), 31.5 um (y), 24.7 um (z)
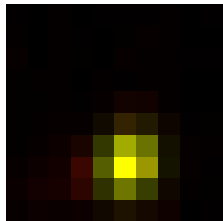Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	428 nm	223 nm
max	485 nm	501 nm	223 nm
z	1.27 um	1.27 um	885 nm
Asymmetry	0.854		
Theta	72.5°		

XY profile & fitting parameters :

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

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

Parameters:
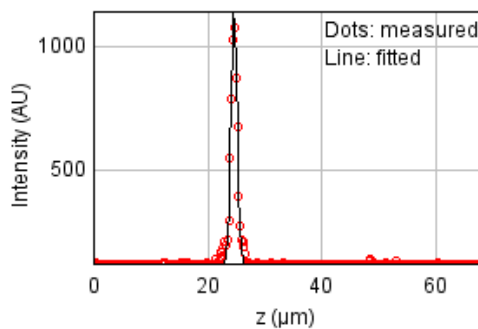 A = 1053.539   (brightness)
 B = 128.687   (background)
 a = 0.765 px
 b = 0.061 px
 c = 0.590 px

xc = 5.168 px
yc = 6.824 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 60569.2233
Standard deviation: 14.04613
R^2: 0.98676
Parameters:
 a = 114.87784
 b = 1149.12125
 c = 24.68831
 d = 0.53909

Bead 1112

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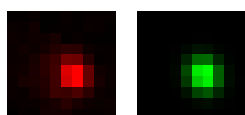Frame size : 10 pixels

Coordinates : -106 um (x), 29.6 um (y), 24.2 um (z)
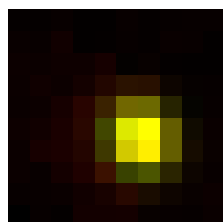Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	486 nm	502 nm	223 nm
max	539 nm	557 nm	223 nm
z	1.7 um	1.71 um	885 nm
Asymmetry	0.901		
Theta	-65.3°		

XY profile & fitting parameters :

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

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

Parameters:
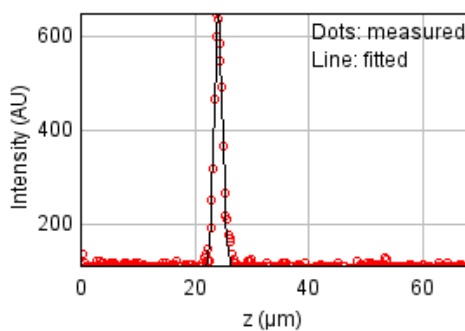 A = 601.617   (brightness)
 B = 129.514   (background)
 a = 0.550 px
 b = -0.041 px
 c = 0.480 px

xc = 5.613 px
yc = 5.396 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 32399.9642
Standard deviation: 10.27314
R^2: 0.98013
Parameters:
 a = 112.97198
 b = 646.91706
 c = 24.22082
 d = 0.72319

Bead 1113

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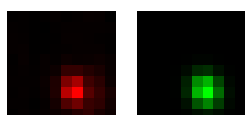Frame size : 10 pixels

Coordinates : 51.4 um (x), 17.0 um (y), 24.9 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	463 nm	478 nm	223 nm
max	521 nm	539 nm	223 nm
z	1.41 um	1.42 um	885 nm
Asymmetry	0.888		
Theta	-69.0°		

XY profile & fitting parameters :

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

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

Parameters:
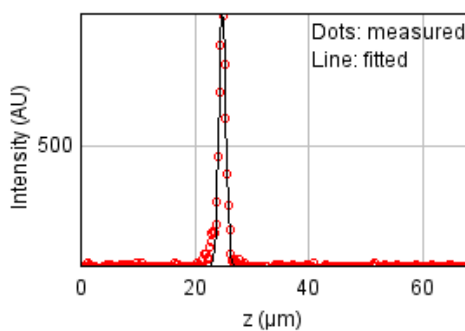 A = 836.610   (brightness)
 B = 123.909   (background)
 a = 0.610 px
 b = -0.045 px
 c = 0.511 px

xc = 5.776 px
yc = 6.826 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 59614.5520
Standard deviation: 13.93500
R^2: 0.98134
Parameters:
 a = 115.15708
 b = 933.80468
 c = 24.92612
 d = 0.59937

Bead 1114 (Rejected)

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

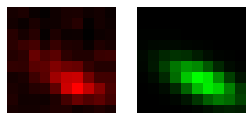Coordinates : 152 um (x), 12.7 um (y), 23.2 um (z)
Corresponding bead : Not found
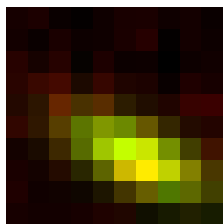Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	491 nm	508 nm	223 nm
max	1.17 um	1.2 um	223 nm
z	2.67 um	2.68 um	885 nm
Asymmetry	0.421		
Theta	-25.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 141.583   (brightness)
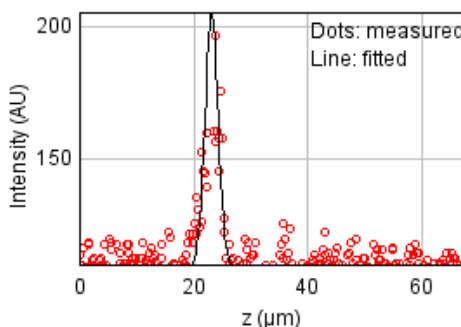 B = 116.318   (background)
 a = 0.182 px
 b = -0.176 px
 c = 0.474 px

xc = 5.549 px
yc = 6.360 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 21004.3512
Standard deviation: 8.27152
R^2: 0.78989
Parameters:
 a = 109.92825
 b = 205.81038
 c = 23.20405
 d = 1.13331

Bead 1115

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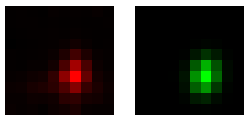Frame size : 10 pixels

Coordinates : -22.7 um (x), -14.3 um (y), 24.7 um (z)
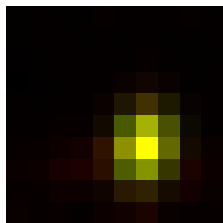Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	425 nm	439 nm	223 nm
max	548 nm	567 nm	223 nm
z	1.57 um	1.57 um	885 nm
Asymmetry	0.775		
Theta	78.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.966$

Parameters:
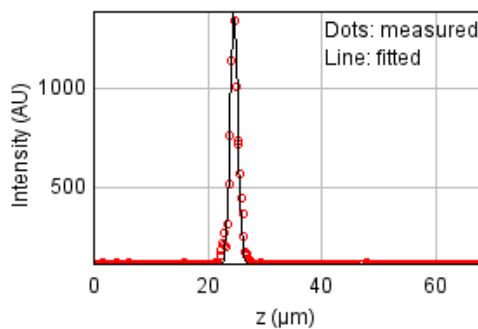A = 1267.783   (brightness)
B = 135.843   (background)
a = 0.731 px
b = 0.058 px
c = 0.459 px

xc = 5.894 px
yc = 5.917 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 257793.602
Standard deviation: 28.97790
R^2: 0.97025
Parameters:
a = 116.57116
b = 1391.34328
c = 24.67621
d = 0.66544

Bead 1116

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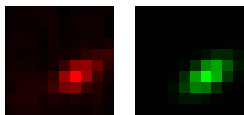Frame size : 10 pixels

Coordinates : -158 um (x), -29.2 um (y), 24.0 um (z)
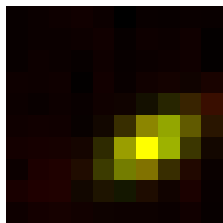Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	386 nm	399 nm	223 nm
max	736 nm	761 nm	223 nm
z	1.64 um	1.65 um	885 nm
Asymmetry	0.525		
Theta	31.0°		

XY profile & fitting parameters :

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

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

R^2 = 0.963

Parameters:
A = 471.831   (brightness)
B = 119.334   (background)
a = 0.421 px
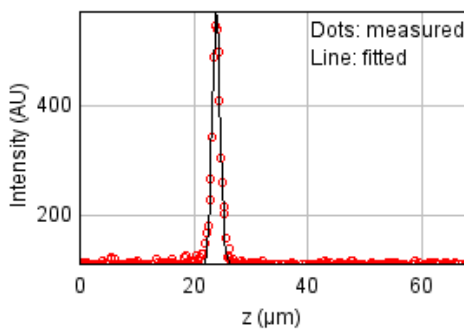b = 0.288 px
c = 0.727 px

xc = 6.154 px
yc = 5.883 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 24774.4159
Standard deviation: 8.98323
R^2: 0.97885
Parameters:
 a = 111.84598
 b = 571.96006
 c = 24.03091
 d = 0.69785

Bead 1117

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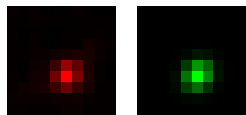Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -136 um (x), -30.5 um (y), 24.2 um (z)
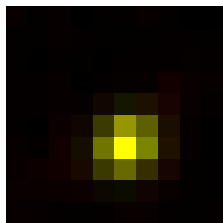Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	424 nm	223 nm
max	465 nm	480 nm	223 nm
z	1.46 um	1.46 um	885 nm
Asymmetry	0.883		
Theta	46.0°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 870.764   (brightness)
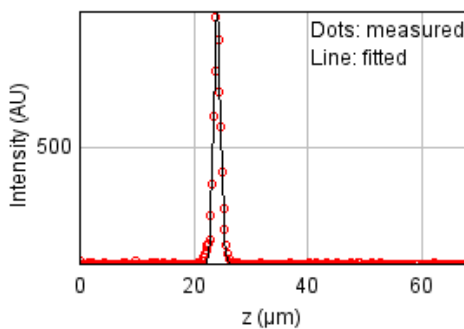 B = 123.310   (background)
 a = 0.713 px
 b = 0.088 px
 c = 0.707 px

xc = 5.064 px
yc = 5.864 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 34656.8608
Standard deviation: 10.62491
R^2: 0.98979
Parameters:
 a = 112.62877
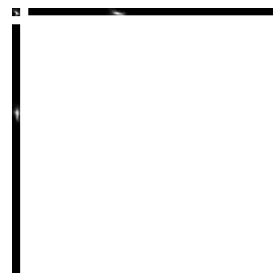 b = 947.45447
 c = 24.18615
 d = 0.61832

Bead 1118

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

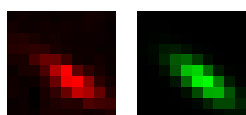Coordinates : 126 um (x), -50.1 um (y), 24.0 um (z)
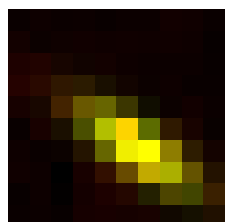Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	385 nm	398 nm	223 nm
max	1.05 um	1.09 um	223 nm
z	2.21 um	2.22 um	885 nm
Asymmetry	0.365		
Theta	-35.9°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.969$

Parameters:
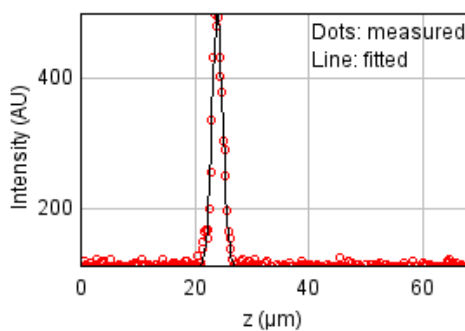A = 399.048   (brightness)
B = 117.378   (background)
a = 0.391 px
b = -0.373 px
c = 0.635 px

xc = 5.448 px
yc = 5.853 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 24659.6303
Standard deviation: 8.96240
R^2: 0.97803
Parameters:
a = 110.95544
b = 501.63975
c = 24.04321
d = 0.93898

Bead 1119 (Rejected)

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

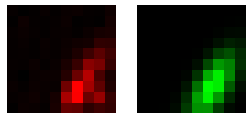Coordinates : 47.2 um (x), 91.7 um (y), 25.2 um (z)
Corresponding bead : Not found
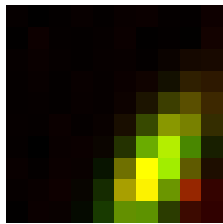Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	487 nm	503 nm	223 nm
max	1.12 um	1.16 um	223 nm
z	1.89 um	1.9 um	885 nm
Asymmetry	0.433		
Theta	59.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.867$

Parameters:
 A = 402.085   (brightness)
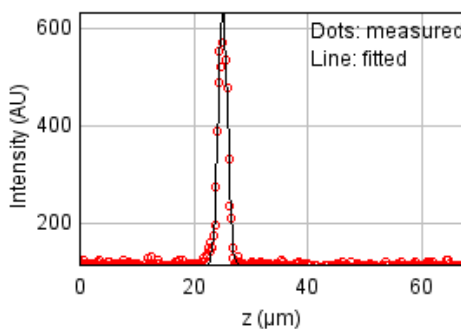 B = 118.656   (background)
 a = 0.448 px
 b = 0.201 px
 c = 0.225 px

xc = 6.409 px
yc = 7.017 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 36094.1098
Standard deviation: 10.84299
R^2: 0.97918
Parameters:
 a = 113.19686
 b = 636.38049
 c = 25.18031
 d = 0.80345

Bead 1120 (Rejected)

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

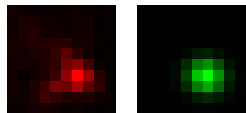Coordinates : -105 um (x), 89.7 um (y), 24.9 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	518 nm	536 nm	223 nm
max	575 nm	595 nm	223 nm
z	1.82 um	1.82 um	885 nm
Asymmetry	0.901		
Theta	-10.9°		

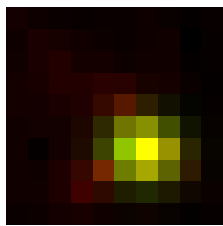## XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.869$

Parameters:
 A = 386.016   (brightness)
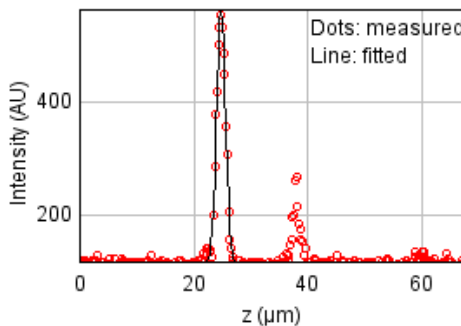 B = 129.962   (background)
 a = 0.409 px
 b = -0.017 px
 c = 0.496 px
 xc = 5.822 px
 yc = 6.066 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 107303.511
Standard deviation: 18.69553
R^2: 0.91622
Parameters:
 a = 118.19832
 b = 561.86555
 c = 24.86910
 d = 0.77110

Bead 1121

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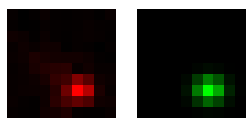Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -140 um (x), 76.6 um (y), 24.8 um (z)
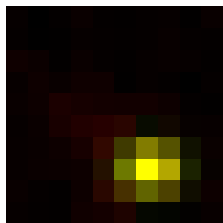Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	402 nm	416 nm	223 nm
max	478 nm	494 nm	223 nm
z	1.55 um	1.56 um	885 nm
Asymmetry	0.841		
Theta	0.8°		

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 = 0.941

Parameters:
 A = 534.514   (brightness)
 B = 123.735   (background)
 a = 0.587 px
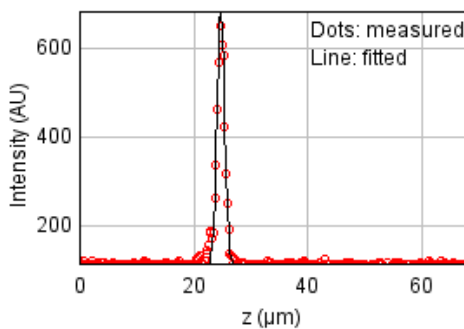 b = 0.003 px
 c = 0.829 px

xc = 6.139 px
yc = 6.935 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 32746.4517
Standard deviation: 10.32792
R^2: 0.98092
Parameters:
 a = 112.46653
 b = 685.48631
 c = 24.82411
 d = 0.65927

Bead 1122 (Rejected)

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

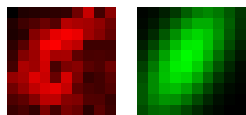Coordinates : 110 um (x), 71.7 um (y), 22.7 um (z)
Corresponding bead : Not found
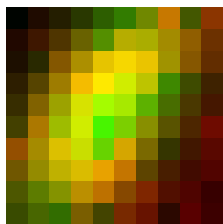Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	1.03 um	1.07 um	223 nm
max	2.19 um	2.27 um	223 nm
z	1.35 um	1.35 um	885 nm
Asymmetry	0.471		
Theta	58.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.598$

Parameters:
 A = 68.019   (brightness)
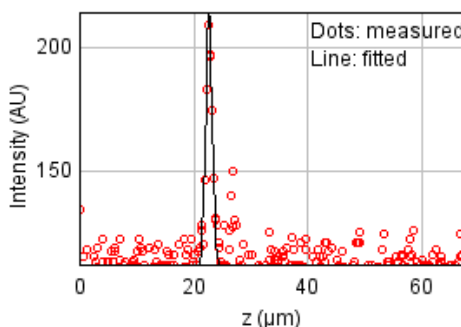 B = 129.423   (background)
 a = 0.098 px
 b = 0.044 px
 c = 0.055 px

xc = 4.046 px
yc = 4.152 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 1123

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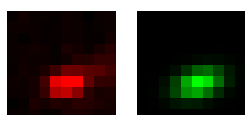Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 116 um (x), 54.1 um (y), 24.5 um (z)
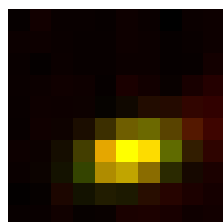Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	734 nm	759 nm	223 nm
z	1.71 um	1.72 um	885 nm
Asymmetry	0.573		
Theta	15.7°		

XY profile & fitting parameters :

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

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

Parameters:
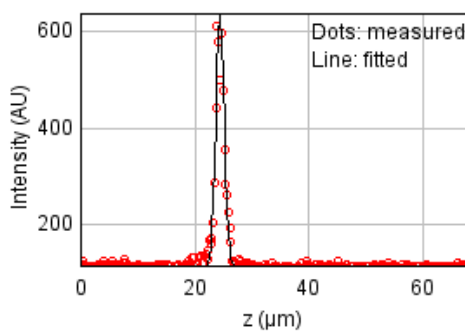 A = 436.950   (brightness)
 B = 118.966   (background)
 a = 0.287 px
 b = 0.133 px
 c = 0.722 px

xc = 5.163 px
yc = 6.165 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 70746.0531
Standard deviation: 15.18035
R^2: 0.95698
Parameters:
 a = 112.97803
 b = 641.72577
 c = 24.51022
 d = 0.72634

Bead 1124

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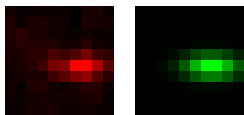Frame size : 10 pixels

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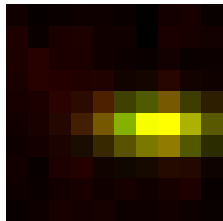Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	389 nm	402 nm	223 nm
max	871 nm	901 nm	223 nm
z	2.19 um	2.19 um	885 nm
Asymmetry	0.446		
Theta	-0.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 244.669   (brightness)
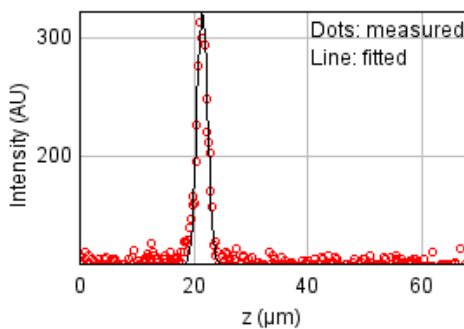 B = 116.857   (background)
 a = 0.177 px
 b = -0.008 px
 c = 0.888 px

xc = 6.508 px
yc = 5.086 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
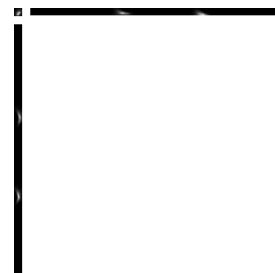 b = 322.75438
 c = 21.56494
 d = 0.92798

Bead 1125

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

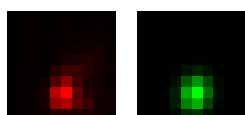Coordinates : 75.2 um (x), 39.4 um (y), 46.4 um (z)
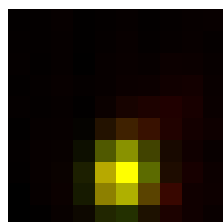Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	454 nm	469 nm	223 nm
max	543 nm	562 nm	223 nm
z	1.3 um	1.3 um	885 nm
Asymmetry	0.835		
Theta	76.4°		

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 = 0.944

Parameters:
 A = 953.361   (brightness)
 B = 128.908   (background)
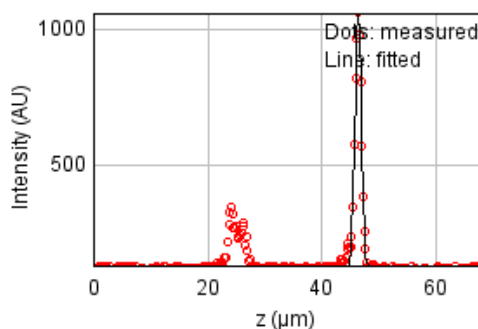 a = 0.641 px
 b = 0.045 px
 c = 0.466 px

xc = 4.812 px
yc = 7.117 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 425129.774
Standard deviation: 37.21273
R^2: 0.89879
Parameters:
 a = 124.02870
 b = 1060.71042
 c = 46.42259
 d = 0.54994

Bead 1126

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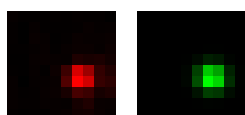Frame size : 10 pixels

Coordinates : 99.5 um (x), 4.04 um (y), 24.9 um (z)
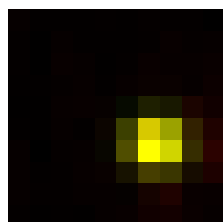Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	417 nm	223 nm
max	444 nm	459 nm	223 nm
z	1.59 um	1.6 um	885 nm
Asymmetry	0.907		
Theta	-7.1°		

XY profile & fitting parameters :

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

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

Parameters:
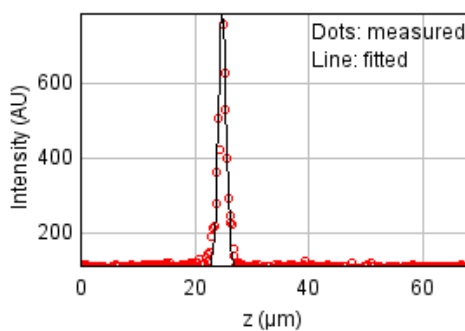 A = 913.299   (brightness)
 B = 121.621   (background)
 a = 0.682 px
 b = -0.018 px
 c = 0.824 px

xc = 6.358 px
yc = 5.652 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 119962.992
Standard deviation: 19.76762
R^2: 0.95206
Parameters:
 a = 113.27089
 b = 787.11587
 c = 24.90535
 d = 0.67502

Bead 1127

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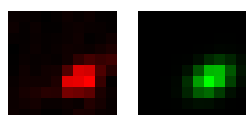Frame size : 10 pixels

Coordinates : -152 um (x), -20.4 um (y), 24.6 um (z)
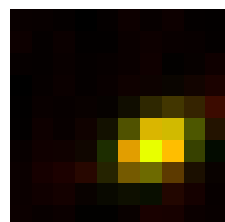Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	441 nm	456 nm	223 nm
max	663 nm	685 nm	223 nm
z	1.85 um	1.86 um	885 nm
Asymmetry	0.665		
Theta	27.7°		

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 = 0.937

Parameters:
 A = 433.250   (brightness)
 B = 117.367   (background)
 a = 0.388 px
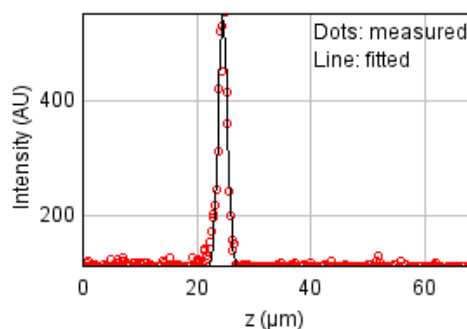 b = 0.158 px
 c = 0.607 px

  xc = 6.234 px
  yc = 5.718 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 43640.0748
Standard deviation: 11.92267
R^2: 0.96467
Parameters:
 a = 111.02183
 b = 553.58836
 c = 24.64933
 d = 0.78756

Bead 1128

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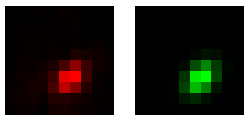Frame size : 10 pixels

Coordinates : -130 um (x), -26.7 um (y), 24.1 um (z)
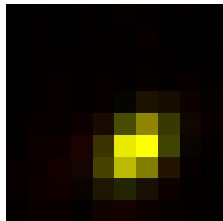Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	378 nm	391 nm	223 nm
max	544 nm	562 nm	223 nm
z	1.16 um	1.16 um	885 nm
Asymmetry	0.696		
Theta	47.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.986$

Parameters:
 A = 994.383   (brightness)
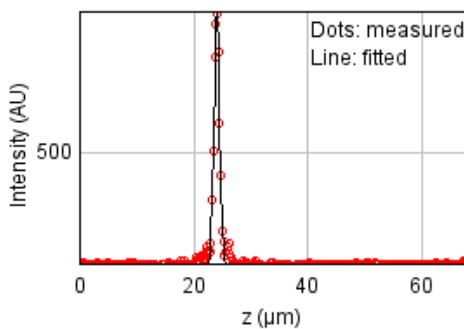 B = 122.512   (background)
 a = 0.715 px
 b = 0.241 px
 c = 0.676 px

xc = 5.513 px
yc = 6.149 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 43445.1552
Standard deviation: 11.89601
R^2: 0.98574
Parameters:
 a = 113.68644
 b = 996.79567
 c = 24.12566
 d = 0.49052

Bead 1129

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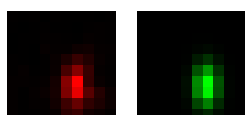Frame size : 10 pixels

Coordinates : 4.15 um (x), 68.1 um (y), 24.8 um (z)
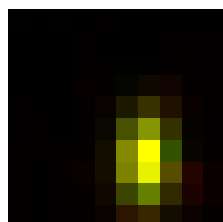Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	403 nm	223 nm
max	675 nm	697 nm	223 nm
z	1.15 um	1.15 um	885 nm
Asymmetry	0.577		
Theta	90.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.974$

Parameters:
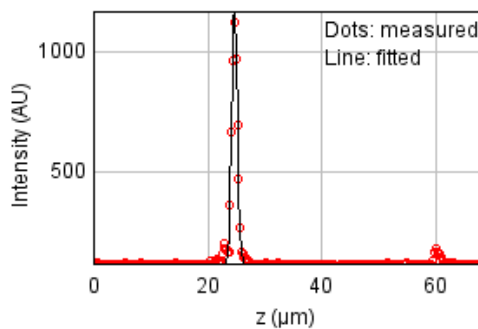A = 1006.788   (brightness)
B = 124.047   (background)
a = 0.884 px
b = 0.000 px
c = 0.295 px

xc = 5.851 px
yc = 6.408 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 65633.3377
Standard deviation: 14.62154
R^2: 0.98508
Parameters:
a = 117.38474
b = 1182.14026
c = 24.76807
d = 0.48687

Bead 1130

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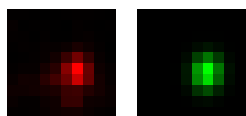Frame size : 10 pixels

Coordinates : -37.4 um (x), -57.7 um (y), 24.8 um (z)
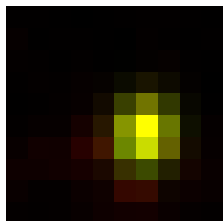Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	451 nm	467 nm	223 nm
max	536 nm	554 nm	223 nm
z	1.32 um	1.33 um	885 nm
Asymmetry	0.843		
Theta	82.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.941$

Parameters:
A = 1242.259   (brightness)
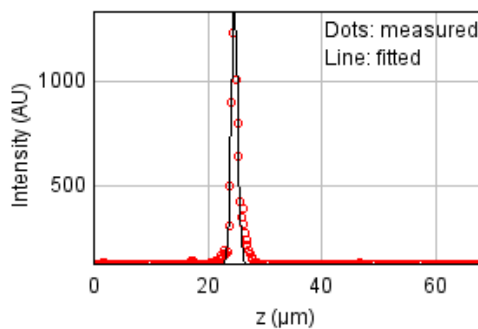B = 141.683   (background)
a = 0.655 px
b = 0.025 px
c = 0.471 px

xc = 5.898 px
yc = 5.346 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 248654.228
Standard deviation: 28.45960
R^2: 0.96464
Parameters:
 a = 118.05889
 b = 1360.37902
 c = 24.75373
 d = 0.56214

Bead 1131

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

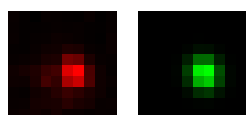Coordinates : -81.7 um (x), -64.7 um (y), 24.8 um (z)
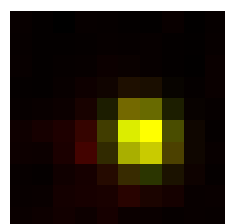Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	455 nm	471 nm	223 nm
max	497 nm	514 nm	223 nm
z	1.39 um	1.4 um	885 nm
Asymmetry	0.916		
Theta	-70.1°		

XY profile & fitting parameters :

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

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

Parameters:
A = 835.995   (brightness)
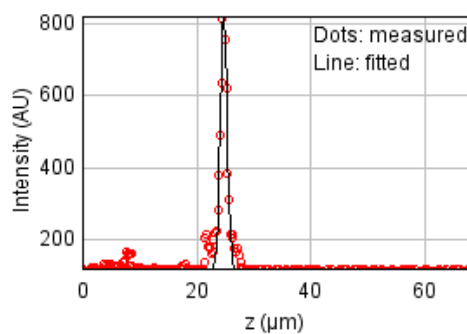B = 132.548   (background)
a = 0.636 px
b = -0.033 px
c = 0.555 px

xc = 5.575 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: 112517.373
Standard deviation: 19.14435
R^2: 0.95299
Parameters:
 a = 118.93105
 b = 821.27178
 c = 24.80588
 d = 0.59236

Bead 1132 (Rejected)

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

Coordinates : -119 um (x), -67.8 um (y), 57.9 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

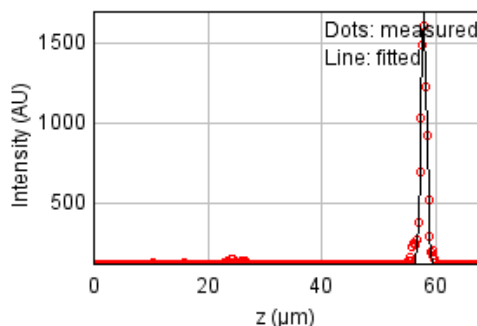| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.19 um	1.19 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 108179.189
Standard deviation: 18.77166
R^2: 0.98922
Parameters:
 a = 115.89709
 b = 1699.64368
 c = 57.91452
 d = 0.50456

Bead 1133

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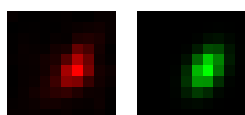Frame size : 10 pixels

Coordinates : -116 um (x), -72.1 um (y), 24.7 um (z)
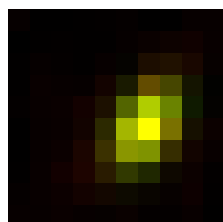Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	441 nm	456 nm	223 nm
max	697 nm	720 nm	223 nm
z	1.4 um	1.4 um	885 nm
Asymmetry	0.634		
Theta	58.7°		

XY profile & fitting parameters :

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

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

Parameters:
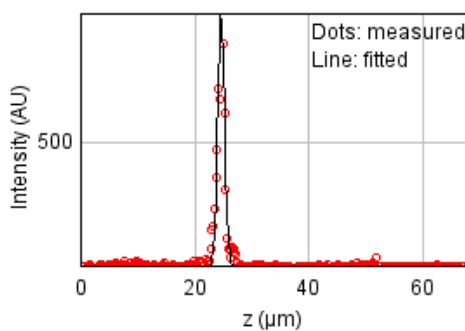 A = 781.220   (brightness)
 B = 129.355   (background)
 a = 0.578 px
 b = 0.183 px
 c = 0.388 px

xc = 5.840 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: 115244.243
Standard deviation: 19.37494
R^2: 0.96191
Parameters:
 a = 116.35626
 b = 908.61869
 c = 24.70002
 d = 0.59392

Bead 1134

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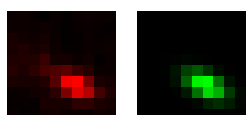Frame size : 10 pixels

Coordinates : -160 um (x), 93.2 um (y), 24.7 um (z)
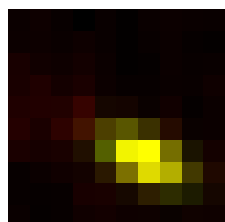Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	355 nm	367 nm	223 nm
max	680 nm	703 nm	223 nm
z	1.87 um	1.88 um	885 nm
Asymmetry	0.522		
Theta	-26.5°		

XY profile & fitting parameters :

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

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

  Parameters:
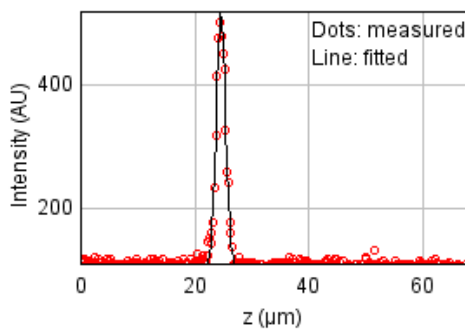 A = 472.768   (brightness)
  B = 120.650   (background)
  a = 0.445 px
  b = -0.310 px
  c = 0.911 px

xc = 5.785 px
yc = 6.339 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 17750.9974
Standard deviation: 7.60400
R^2: 0.98276
Parameters:
 a = 110.50054
 b = 516.26450
 c = 24.66200
 d = 0.79595

Bead 1135 (Rejected)

Date : Mon Oct 17 13:28:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
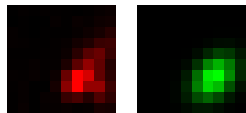
Coordinates : 71.2 um (x), 92.6 um (y), 25.6 um (z)
Corresponding bead : Not found
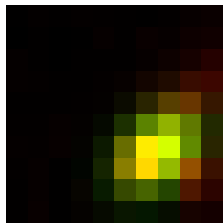Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	541 nm	559 nm	223 nm
max	767 nm	793 nm	223 nm
z	1.98 um	1.98 um	885 nm
Asymmetry	0.706		
Theta	45.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.872$

Parameters:
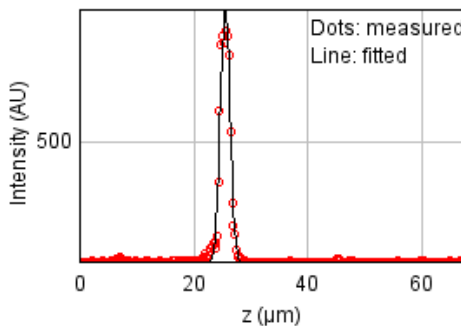 A = 695.524   (brightness)
 B = 122.510   (background)
 a = 0.347 px
 b = 0.115 px
 c = 0.340 px

xc = 6.553 px
yc = 6.183 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 121589.448
Standard deviation: 19.90118
R^2: 0.97298
Parameters:
 a = 111.53838
 b = 934.59220
 c = 25.59964
 d = 0.83903

Bead 1136 (Rejected)

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

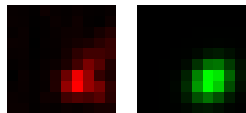Coordinates : 69.4 um (x), 82.6 um (y), 25.4 um (z)
Corresponding bead : Not found
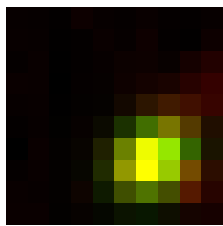Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	536 nm	554 nm	223 nm
max	650 nm	672 nm	223 nm
z	1.8 um	1.81 um	885 nm
Asymmetry	0.824		
Theta	39.0°		

XY profile & fitting parameters :

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

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

Parameters:
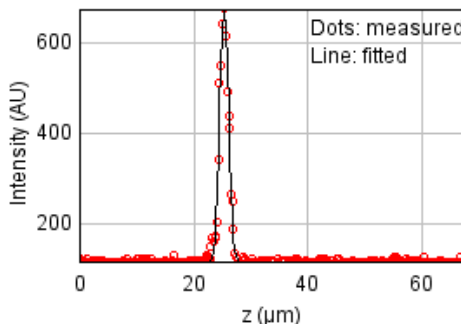A = 527.897   (brightness)
B = 123.470   (background)
a = 0.377 px
b = 0.073 px
c = 0.408 px

xc = 6.293 px
yc = 6.465 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 33138.7283
Standard deviation: 10.38960
R^2: 0.98284
Parameters:
a = 113.77080
b = 680.22000
c = 25.41079
d = 0.76489

Bead 1137

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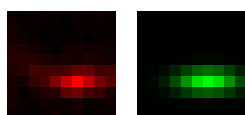Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 156 um (x), 53.5 um (y), 24.2 um (z)
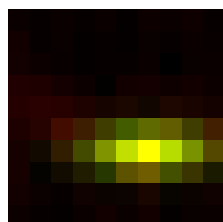Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	378 nm	390 nm	223 nm
max	984 nm	1.02 um	223 nm
z	1.59 um	1.6 um	885 nm
Asymmetry	0.384		
Theta	0.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.930$

Parameters:
 A = 228.830   (brightness)
 B = 115.372   (background)
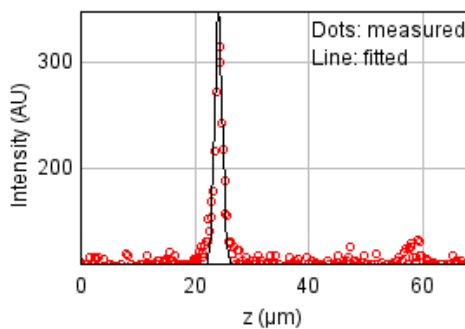 a = 0.139 px
 b = 0.004 px
 c = 0.941 px

xc = 5.987 px
yc = 5.963 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 24071.3758
Standard deviation: 8.85485
R^2: 0.92347
Parameters:
 a = 111.51525
 b = 346.86562
 c = 24.24217
 d = 0.67473

Bead 1138

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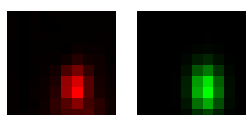Frame size : 10 pixels

Coordinates : 1.72 um (x), 16.3 um (y), 25.1 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	465 nm	480 nm	223 nm
max	715 nm	739 nm	223 nm
z	1.21 um	1.22 um	885 nm
Asymmetry	0.65		
Theta	-87.9°		

XY profile & fitting parameters :

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

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

Parameters:
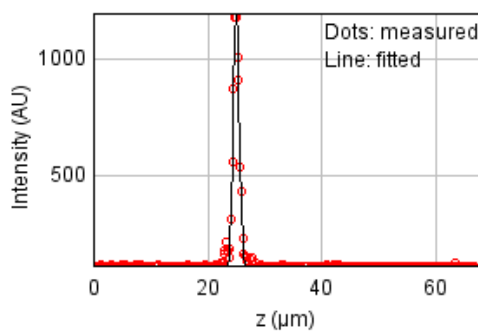 A = 1196.625   (brightness)
 B = 126.817   (background)
 a = 0.621 px
 b = -0.013 px
 c = 0.263 px

 xc = 5.823 px
 yc = 6.719 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 74787.1251
Standard deviation: 15.60789
R^2: 0.98427
Parameters:
 a = 115.31697
 b = 1191.49584
 c = 25.08182
 d = 0.51546

Bead 1139

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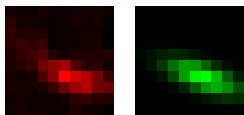Frame size : 10 pixels

Coordinates : 164 um (x), 12.5 um (y), 24.4 um (z)
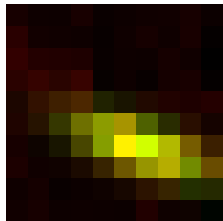Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	401 nm	415 nm	223 nm
max	1.15 um	1.19 um	223 nm
z	2.49 um	2.5 um	885 nm
Asymmetry	0.348		
Theta	-20.1°		

XY profile & fitting parameters :

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

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

Parameters:
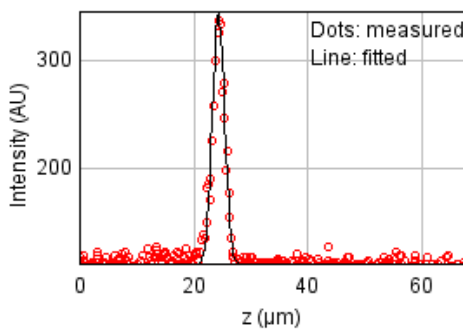 A = 244.980   (brightness)
 B = 116.812   (background)
 a = 0.187 px
 b = -0.236 px
 c = 0.747 px

xc = 5.698 px
yc = 6.046 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21245.0790
Standard deviation: 8.31879
R^2: 0.95427
Parameters:
 a = 110.25604
 b = 345.01429
 c = 24.41476
 d = 1.05696

Bead 1140

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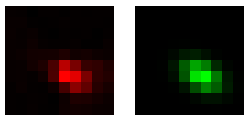Frame size : 10 pixels

Coordinates : 110 um (x), -6.58 um (y), 24.9 um (z)
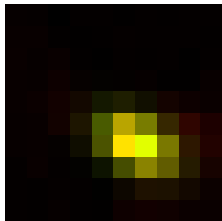Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	408 nm	422 nm	223 nm
max	639 nm	660 nm	223 nm
z	1.2 um	1.2 um	885 nm
Asymmetry	0.639		
Theta	-28.8°		

XY profile & fitting parameters :

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

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

Parameters:
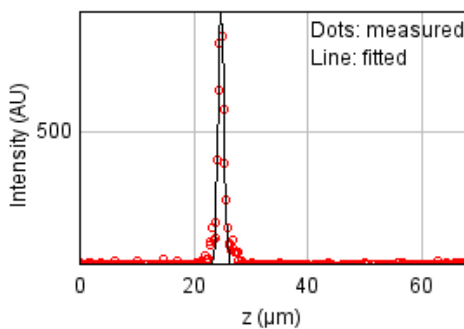 A = 836.092   (brightness)
 B = 125.731   (background)
 a = 0.440 px
 b = -0.202 px
 c = 0.696 px

  xc = 5.592 px
  yc = 5.900 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 62146.7651
Standard deviation: 14.22788
R^2: 0.97241
Parameters:
 a = 113.41406
 b = 854.65098
 c = 24.86038
 d = 0.50826

Bead 1141

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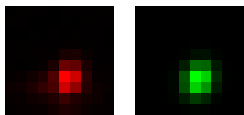Frame size : 10 pixels

Coordinates : -33.8 um (x), -7.1 um (y), 25.7 um (z)
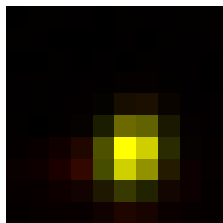Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	435 nm	449 nm	223 nm
max	510 nm	528 nm	223 nm
z	1.68 um	1.68 um	885 nm
Asymmetry	0.851		
Theta	66.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.975$

Parameters:
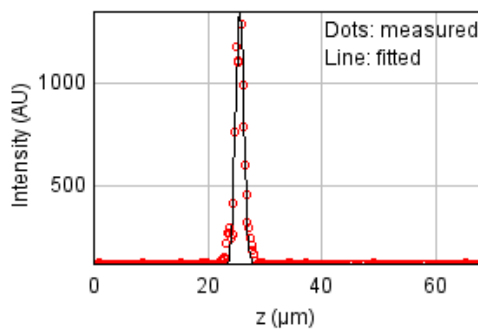A = 1625.113   (brightness)
B = 135.946   (background)
a = 0.678 px
b = 0.073 px
c = 0.547 px

xc = 5.316 px
yc = 6.270 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 298178.701
Standard deviation: 31.16514
R^2: 0.96580
Parameters:
a = 115.98201
b = 1350.75057
c = 25.68094
d = 0.71198

Bead 1142

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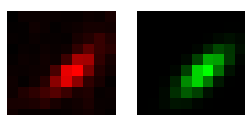Frame size : 10 pixels

Coordinates : -162 um (x), -67.1 um (y), 24.7 um (z)
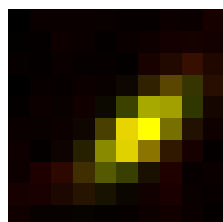Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	377 nm	390 nm	223 nm
max	911 nm	942 nm	223 nm
z	1.42 um	1.42 um	885 nm
Asymmetry	0.414		
Theta	41.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 425.784   (brightness)
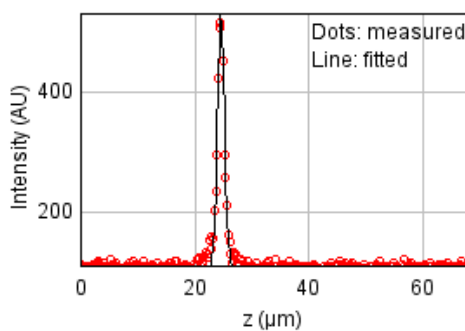 B = 119.532   (background)
 a = 0.509 px
 b = 0.389 px
 c = 0.597 px

xc = 5.606 px
yc = 5.100 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25949.8243
Standard deviation: 9.19386
R^2: 0.96962
Parameters:
 a = 111.25336
 b = 531.08175
 c = 24.66619
 d = 0.60228

Bead 1143

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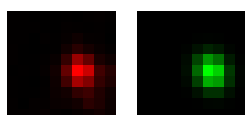Frame size : 10 pixels

Coordinates : 48.3 um (x), -69.3 um (y), 25.0 um (z)
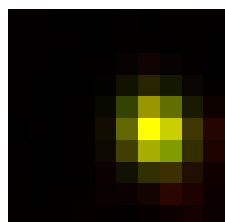Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	481 nm	497 nm	223 nm
max	554 nm	572 nm	223 nm
z	1.33 um	1.34 um	885 nm
Asymmetry	0.869		
Theta	-67.9°		

XY profile & fitting parameters :

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

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

Parameters:
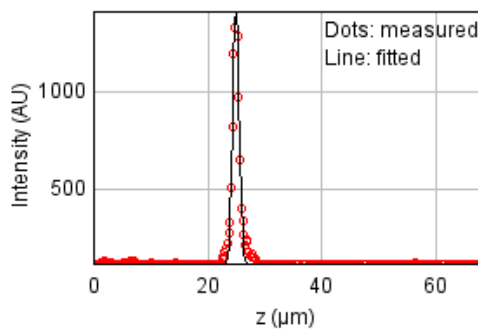 A = 1341.420   (brightness)
 B = 130.553   (background)
 a = 0.560 px
 b = -0.050 px
 c = 0.458 px

xc = 6.324 px
yc = 5.117 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 114666.574
Standard deviation: 19.32632
R^2: 0.98497
Parameters:
 a = 117.68683
 b = 1420.21520
 c = 25.02409
 d = 0.56645

Bead 1144

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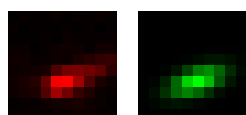Frame size : 10 pixels

Coordinates : 145 um (x), 82.1 um (y), 25.0 um (z)
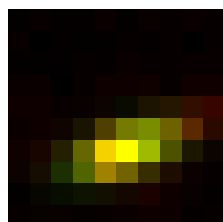Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	384 nm	396 nm	223 nm
max	874 nm	903 nm	223 nm
z	1.98 um	1.99 um	885 nm
Asymmetry	0.439		
Theta	19.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.944$

Parameters:
A = 434.047   (brightness)
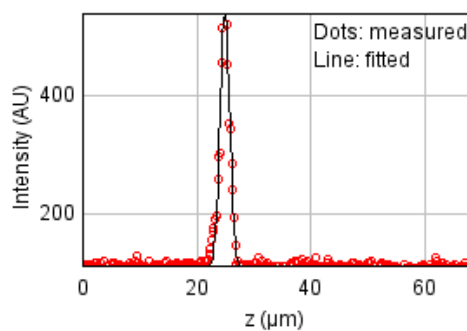B = 116.660   (background)
a = 0.254 px
b = 0.227 px
c = 0.835 px

xc = 4.924 px
yc = 5.957 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 29571.5774
Standard deviation: 9.81450
R^2: 0.97575
Parameters:
a = 112.03389
b = 540.70259
c = 25.01259
d = 0.84079

Bead 1145

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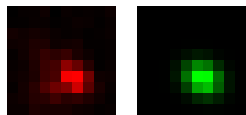Frame size : 10 pixels

Coordinates : -96.7 um (x), 62.4 um (y), 25.4 um (z)
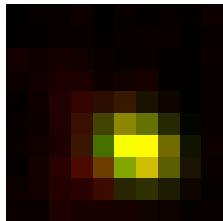Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	483 nm	500 nm	223 nm
max	591 nm	611 nm	223 nm
z	2.01 um	2.02 um	885 nm
Asymmetry	0.818		
Theta	-26.1°		

XY profile & fitting parameters :

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

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

Parameters:
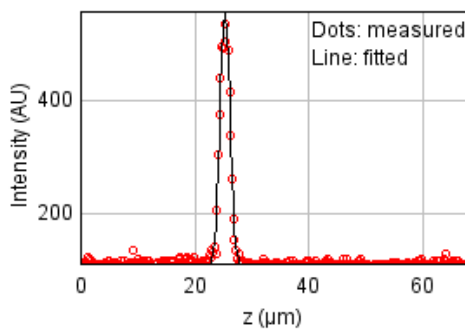 A = 402.273 (brightness)
  B = 125.590 (background)
  a = 0.421 px
  b = -0.075 px
  c = 0.538 px

xc = 5.513 px
yc = 6.166 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 25025.1954
Standard deviation: 9.02858
R^2: 0.98110
Parameters:
 a = 111.83754
 b = 556.65835
 c = 25.39050
 d = 0.85298

Bead 1146

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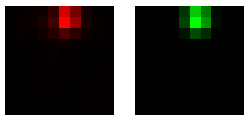Frame size : 10 pixels

Coordinates : -105 um (x), 56.4 um (y), 52.6 um (z)
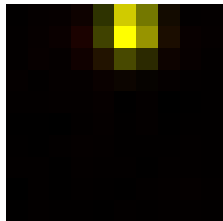Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	375 nm	388 nm	223 nm
max	425 nm	439 nm	223 nm
z	1.28 um	1.28 um	885 nm
Asymmetry	0.883		
Theta	86.7°		

XY profile & fitting parameters :

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

Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
  R^2 = 0.990

Parameters:
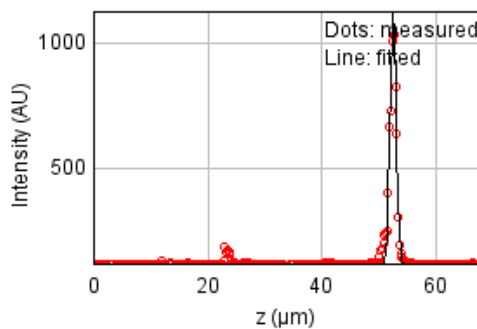 A = 1257.488   (brightness)
 B = 116.649   (background)
 a = 0.952 px
 b = 0.012 px
 c = 0.744 px

xc = 5.219 px
yc = 0.653 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 100489.995
Standard deviation: 18.09224
R^2: 0.97755
Parameters:
 a = 114.52341
 b = 1129.50436
 c = 52.57291
 d = 0.54268

Bead 1147

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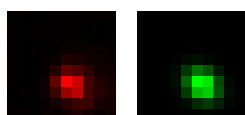Frame size : 10 pixels

Coordinates : 57.1 um (x), 17.1 um (y), 25.8 um (z)
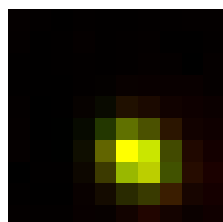Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	451 nm	467 nm	223 nm
max	557 nm	576 nm	223 nm
z	1.86 um	1.87 um	885 nm
Asymmetry	0.81		
Theta	-37.5°		

XY profile & fitting parameters :

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

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

R^2 = 0.961

Parameters:
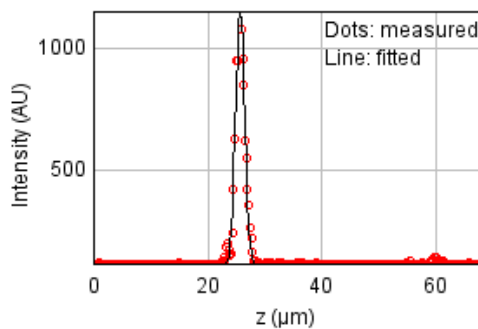A = 1105.432   (brightness)
B = 130.576   (background)
a = 0.516 px
b = -0.109 px
c = 0.575 px

xc = 5.463 px
yc = 6.302 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 163306.463
Standard deviation: 23.06389
R^2: 0.97579
Parameters:
a = 115.43455
b = 1153.36867
c = 25.76123
d = 0.79124

Bead 1148

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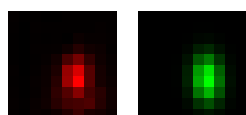Frame size : 10 pixels

Coordinates : 1.72 um (x), 16.3 um (y), 25.1 um (z)
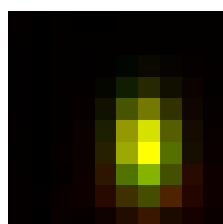Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	463 nm	478 nm	223 nm
max	744 nm	770 nm	223 nm
z	1.21 um	1.22 um	885 nm
Asymmetry	0.622		
Theta	-87.8°		

XY profile & fitting parameters :

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

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

Parameters:
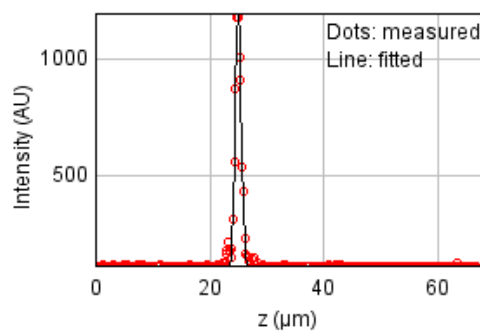A = 1169.427   (brightness)
B = 132.131   (background)
a = 0.626 px
b = -0.015 px
c = 0.243 px

xc = 5.826 px
yc = 5.755 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 74787.1251
Standard deviation: 15.60789
R^2: 0.98427
Parameters:
a = 115.31697
b = 1191.49584
c = 25.08182
d = 0.51546

Bead 1149

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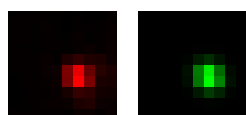Frame size : 10 pixels

Coordinates : 99.0 um (x), 15.9 um (y), 25.8 um (z)
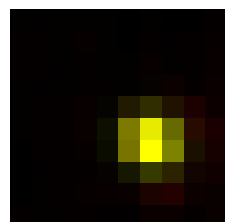Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	417 nm	223 nm
max	442 nm	457 nm	223 nm
z	1.4 um	1.4 um	885 nm
Asymmetry	0.911		
Theta	-32.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1009.249   (brightness)
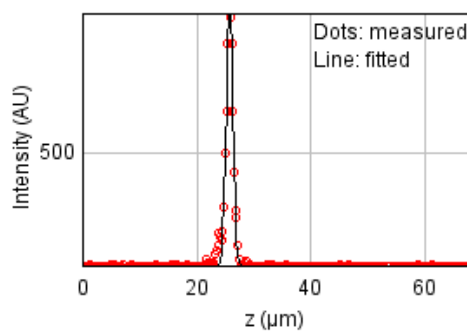 B = 121.502   (background)
 a = 0.726 px
 b = -0.063 px
 c = 0.786 px

xc = 6.001 px
yc = 5.553 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 54872.5850
Standard deviation: 13.36930
R^2: 0.98451
Parameters:
 a = 113.30493
 b = 980.92586
 c = 25.83657
 d = 0.59330

Bead 1150

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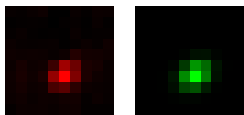Frame size : 10 pixels

Coordinates : -146 um (x), 1.36 um (y), 24.9 um (z)
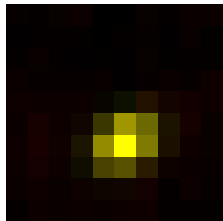Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	375 nm	387 nm	223 nm
max	496 nm	513 nm	223 nm
z	1.33 um	1.34 um	885 nm
Asymmetry	0.755		
Theta	33.2°		

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 = 0.980

Parameters:
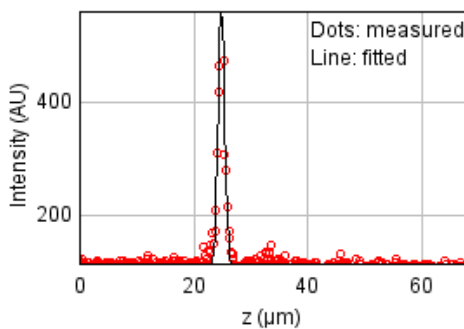A = 479.006   (brightness)
B = 118.532   (background)
a = 0.669 px
b = 0.188 px
c = 0.832 px

xc = 5.007 px
yc = 5.818 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 34835.4068
Standard deviation: 10.65225
R^2: 0.96220
Parameters:
a = 114.07544
b = 561.48055
c = 24.92693
d = 0.56669

Bead 1151

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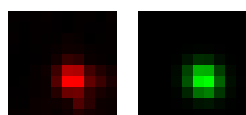Frame size : 10 pixels

Coordinates : 41.3 um (x), -71.2 um (y), 25.3 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	489 nm	505 nm	223 nm
max	530 nm	548 nm	223 nm
z	1.55 um	1.56 um	885 nm
Asymmetry	0.923		
Theta	-32.8°		

XY profile & fitting parameters :

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

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

Parameters:
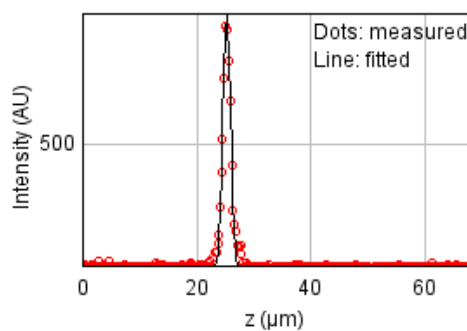A = 928.258 (brightness)
B = 125.720 (background)
a = 0.503 px
b = -0.038 px
c = 0.537 px

xc = 5.545 px
yc = 5.824 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 47669.2356
Standard deviation: 12.46091
R^2: 0.98553
Parameters:
a = 116.22037
b = 911.81597
c = 25.33850
d = 0.65927

Bead 1152

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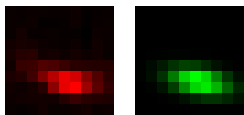Frame size : 10 pixels

Coordinates : 139 um (x), 14.6 um (y), 25.0 um (z)
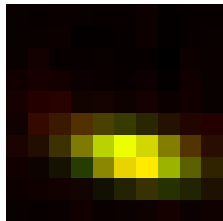Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	399 nm	412 nm	223 nm
max	939 nm	971 nm	223 nm
z	1.76 um	1.77 um	885 nm
Asymmetry	0.425		
Theta	-11.3°		

XY profile & fitting parameters :

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

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

Parameters:
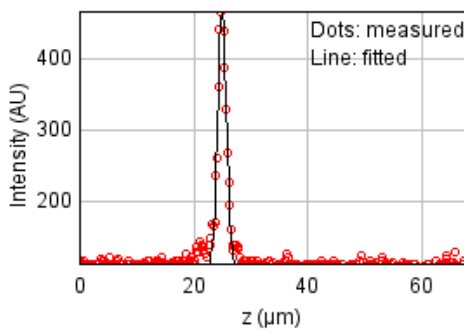 A = 429.633 (brightness)
 B = 120.549 (background)
 a = 0.179 px
 b = -0.133 px
 c = 0.818 px

xc = 5.355 px
yc = 6.448 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 25585.6179
Standard deviation: 9.12912
R^2: 0.96608
Parameters:
 a = 111.87265
 b = 466.55139
 c = 25.04342
 d = 0.74836

Bead 1153

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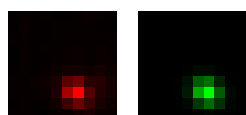Frame size : 10 pixels

Coordinates : 97.0 um (x), 7.05 um (y), 25.8 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	381 nm	394 nm	223 nm
max	447 nm	462 nm	223 nm
z	1.27 um	1.28 um	885 nm
Asymmetry	0.852		
Theta	-29.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.978$

Parameters:
A = 1083.312   (brightness)
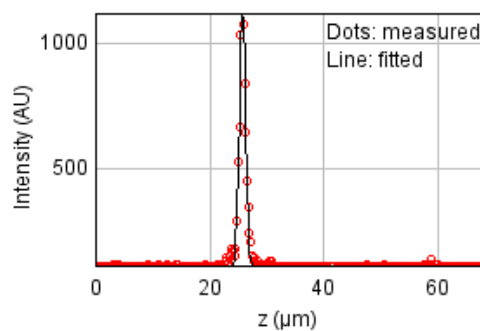B = 120.421   (background)
a = 0.734 px
b = -0.109 px
c = 0.862 px

xc = 5.795 px
yc = 6.963 px

Z profile & fitting parameters:

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

Bead 1154 (Rejected)

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

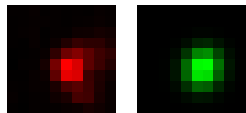Coordinates : 78.0 um (x), 2.79 um (y), 25.2 um (z)
Corresponding bead : Not found
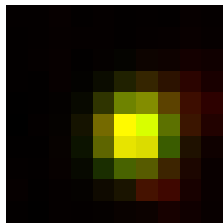Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	557 nm	576 nm	223 nm
max	611 nm	632 nm	223 nm
z	1.5 um	1.5 um	885 nm
Asymmetry	0.912		
Theta	66.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 918.912 (brightness)
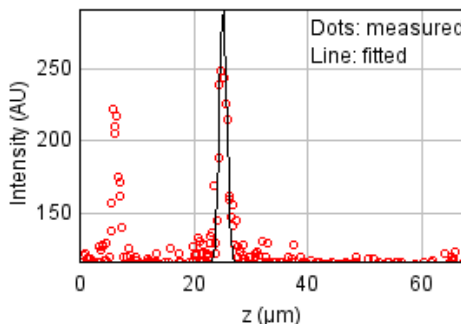 B = 135.787 (background)
 a = 0.420 px
 b = 0.027 px
 c = 0.371 px

xc = 5.505 px
yc = 5.336 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 76958.0550
Standard deviation: 15.83280
R^2: 0.66621
Parameters:
 a = 115.83889
 b = 291.98602
 c = 25.22988
 d = 0.63559

Bead 1155

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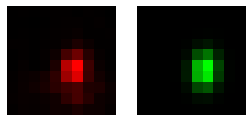Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -22.5 um (x), -26.7 um (y), 25.5 um (z)
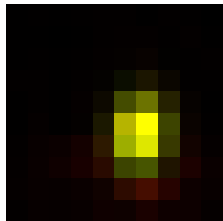Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	399 nm	413 nm	223 nm
max	548 nm	566 nm	223 nm
z	1.49 um	1.5 um	885 nm
Asymmetry	0.729		
Theta	85.1°		

XY profile & fitting parameters :

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

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

Parameters:
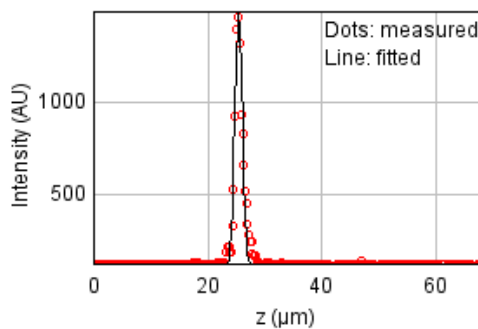 A = 1469.057   (brightness)
 B = 138.099   (background)
 a = 0.839 px
 b = 0.033 px
 c = 0.450 px

xc = 5.692 px
yc = 5.410 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 335702.488
Standard deviation: 33.06801
R^2: 0.96545
Parameters:
 a = 115.80605
 b = 1495.25709
 c = 25.48840
 d = 0.63286

Bead 1156

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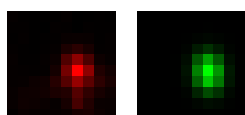Frame size : 10 pixels

Coordinates : -3.29 um (x), -66.5 um (y), 25.4 um (z)
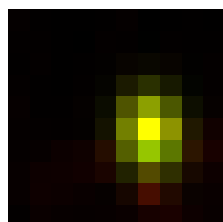Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	463 nm	479 nm	223 nm
max	610 nm	631 nm	223 nm
z	1.4 um	1.41 um	885 nm
Asymmetry	0.759		
Theta	-85.0°		

XY profile & fitting parameters :

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

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

R^2 = 0.942

Parameters:
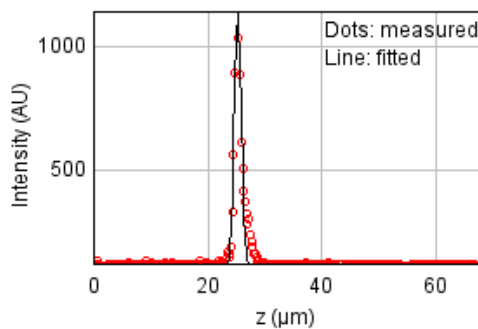A = 940.129   (brightness)
B = 134.684   (background)
a = 0.624 px
b = -0.023 px
c = 0.363 px

xc = 6.062 px
yc = 5.153 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 226222.384
Standard deviation: 27.14555
R^2: 0.95560
Parameters:
 a = 116.59174
 b = 1140.92008
 c = 25.35001
 d = 0.59445

Bead 1157 (Rejected)

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

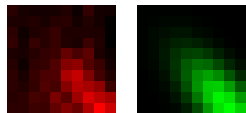Coordinates : 131 um (x), -69.7 um (y), 24.1 um (z)
Corresponding bead : Not found
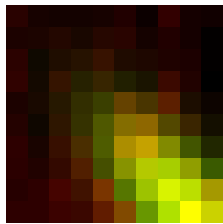Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	764 nm	790 nm	223 nm
max	1.91 um	1.98 um	223 nm
z	1.32 um	1.32 um	885 nm
Asymmetry	0.399		
Theta	-49.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.866$

Parameters:
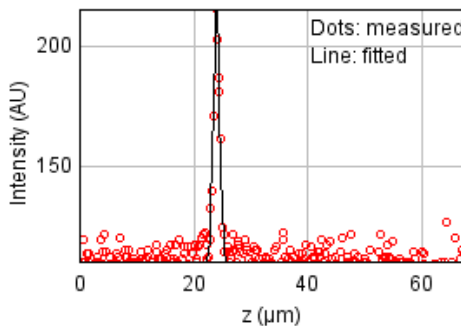 A = 116.253   (brightness)
 B = 114.892   (background)
 a = 0.148 px
 b = -0.095 px
 c = 0.119 px
xc = 7.754 px
yc = 8.812 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 11308.9233
Standard deviation: 6.06934
R^2: 0.81278
Parameters:
 a = 110.30307
 b = 216.31638
 c = 24.07421
 d = 0.55854

Bead 1158 (Rejected)

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

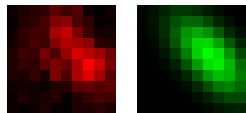Coordinates : 131 um (x), -69.6 um (y), 24.1 um (z)
Corresponding bead : Not found
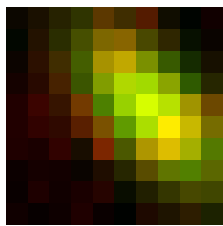Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	764 nm	790 nm	223 nm
max	1.54 um	1.59 um	223 nm
z	1.32 um	1.32 um	885 nm
Asymmetry	0.496		
Theta	-47.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.838$

Parameters:
 A = 113.091   (brightness)
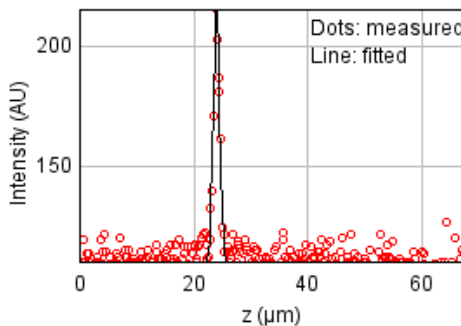 B = 117.039   (background)
 a = 0.151 px
 b = -0.086 px
 c = 0.135 px

xc = 6.219 px
yc = 4.182 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 11308.9233
Standard deviation: 6.06934
R^2: 0.81278
Parameters:
 a = 110.30307
 b = 216.31638
 c = 24.07421
 d = 0.55854

Bead 1159

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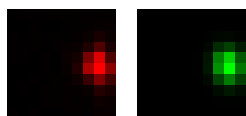Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 3.06 um (x), -81.3 um (y), 49.7 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	447 nm	462 nm	223 nm
max	535 nm	553 nm	223 nm
z	1.4 um	1.41 um	885 nm
Asymmetry	0.835		
Theta	-79.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.986$

Parameters:
 A = 1495.950   (brightness)
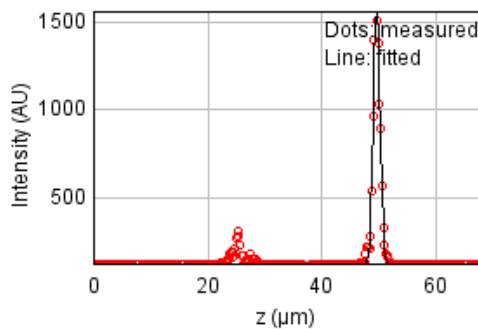 B = 118.858   (background)
 a = 0.665 px
 b = -0.038 px
 c = 0.476 px

xc = 7.910 px
yc = 4.719 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 474436.356
Standard deviation: 39.31152
R^2: 0.95301
Parameters:
 a = 119.87528
 b = 1559.87769
 c = 49.67741
 d = 0.59446

Bead 1160

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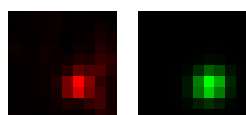Frame size : 10 pixels

Coordinates : 87.6 um (x), 76.7 um (y), 25.6 um (z)
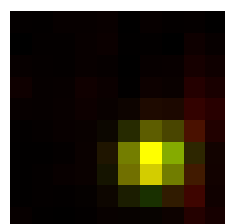Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	458 nm	474 nm	223 nm
max	506 nm	523 nm	223 nm
z	1.7 um	1.7 um	885 nm
Asymmetry	0.906		
Theta	28.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.905$

Parameters:
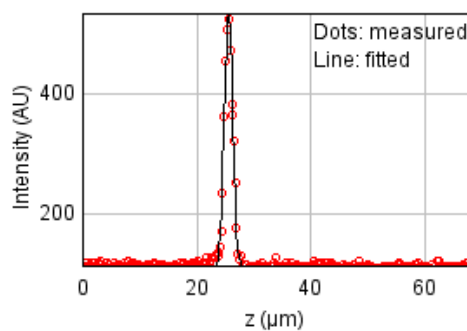 A = 407.154   (brightness)
 B = 121.149   (background)
 a = 0.550 px
 b = 0.048 px
 c = 0.613 px

xc = 6.110 px
yc = 6.311 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 20869.4170
Standard deviation: 8.24491
R^2: 0.97960
Parameters:
 a = 112.42042
 b = 536.14676
 c = 25.64736
 d = 0.72010

Bead 1161

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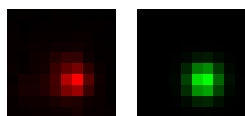Frame size : 10 pixels

Coordinates : -73.6 um (x), 52.1 um (y), 26.2 um (z)
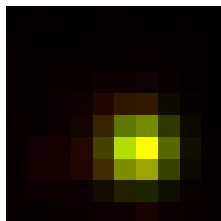Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	501 nm	518 nm	223 nm
max	507 nm	524 nm	223 nm
z	1.76 um	1.76 um	885 nm
Asymmetry	0.99		
Theta	44.2°		

XY profile & fitting parameters :

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

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

Parameters:
A = 774.033   (brightness)
B = 129.349   (background)
a = 0.528 px
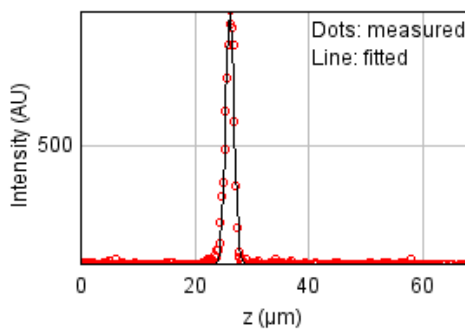b = 0.005 px
c = 0.528 px

xc = 5.637 px
yc = 6.082 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 64364.9001
Standard deviation: 14.47956
R^2: 0.98389
Parameters:
a = 112.63116
b = 937.41120
c = 26.24161
d = 0.74623

Bead 1162

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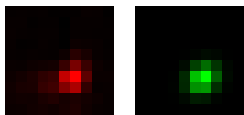Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -75.5 um (x), -19.6 um (y), 25.9 um (z)
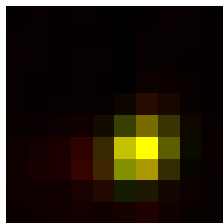Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	428 nm	223 nm
max	497 nm	513 nm	223 nm
z	1.7 um	1.71 um	885 nm
Asymmetry	0.833		
Theta	38.4°		

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 = 0.949

Parameters:
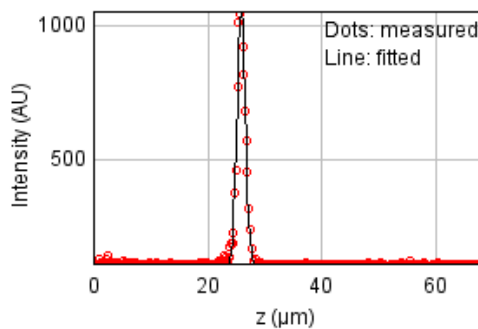 A = 1003.060   (brightness)
 B = 132.642   (background)
 a = 0.637 px
 b = 0.117 px
 c = 0.691 px

  xc = 5.691 px
  yc = 6.176 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 72842.8997
Standard deviation: 15.40368
R^2: 0.98538
Parameters:
 a = 114.29631
 b = 1051.23131
 c = 25.94701
 d = 0.72146

Bead 1163 (Rejected)

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

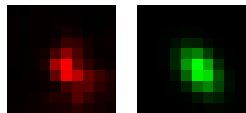Coordinates : 37.9 um (x), -28.7 um (y), 25.5 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

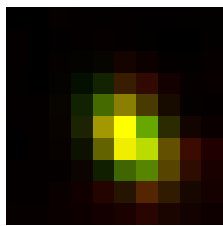| FWHM	Non corrected	Corrected	Theoretical
min	472 nm	488 nm	223 nm
max	729 nm	754 nm	223 nm
z	1.25 um	1.25 um	885 nm
Asymmetry	0.647		
Theta	-51.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.899$

Parameters:
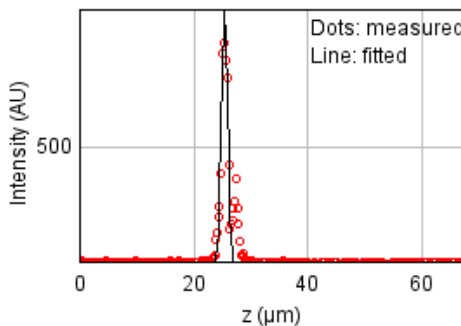 A = 703.435   (brightness)
 B = 130.629   (background)
 a = 0.469 px
 b = -0.170 px
 c = 0.385 px

xc = 5.241 px
yc = 5.513 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 322512.853
Standard deviation: 32.41189
R^2: 0.90083
Parameters:
 a = 116.75186
 b = 956.50513
 c = 25.47120
 d = 0.53036

Bead 1164

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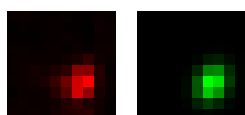Frame size : 10 pixels

Coordinates : -116 um (x), -30.0 um (y), 25.4 um (z)
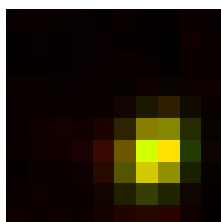Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	451 nm	466 nm	223 nm
max	565 nm	584 nm	223 nm
z	1.33 um	1.34 um	885 nm
Asymmetry	0.798		
Theta	61.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.948$

Parameters:
A = 598.349   (brightness)
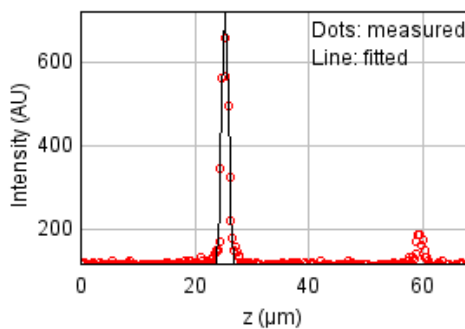B = 118.784   (background)
a = 0.605 px
b = 0.101 px
c = 0.475 px

xc = 6.363 px
yc = 6.169 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 117317.007
Standard deviation: 19.54840
R^2: 0.93458
Parameters:
a = 114.74517
b = 730.20241
c = 25.40013
d = 0.56593

Bead 1165

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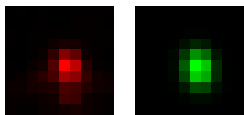Frame size : 10 pixels

Coordinates : -10.1 um (x), -52.2 um (y), 25.7 um (z)
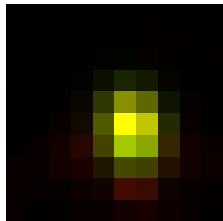Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	452 nm	467 nm	223 nm
max	581 nm	600 nm	223 nm
z	1.47 um	1.48 um	885 nm
Asymmetry	0.778		
Theta	-81.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1405.442   (brightness)
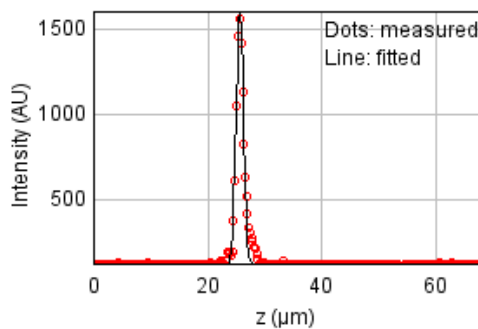 B = 139.700   (background)
 a = 0.652 px
 b = -0.038 px
 c = 0.404 px

 xc = 5.313 px
 yc = 5.239 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 269488.679
Standard deviation: 29.62791
R^2: 0.97558
Parameters:
 a = 117.34929
 b = 1602.92187
 c = 25.69847
 d = 0.62603

Bead 1166

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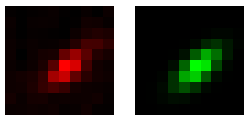Frame size : 10 pixels

Coordinates : -147 um (x), -53.1 um (y), 25.1 um (z)
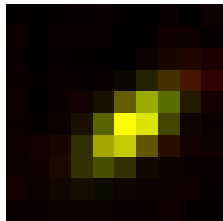Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	376 nm	389 nm	223 nm
max	807 nm	834 nm	223 nm
z	1.72 um	1.72 um	885 nm
Asymmetry	0.466		
Theta	41.2°		

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
$R^2 = 0.965$

Parameters:
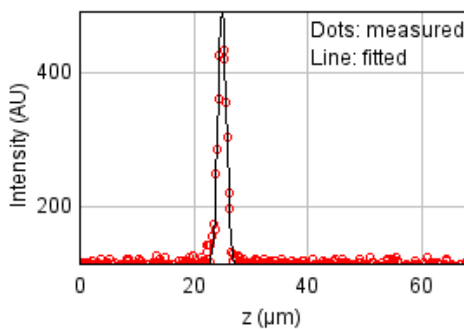A = 394.547   (brightness)
B = 119.585   (background)
a = 0.528 px
b = 0.368 px
c = 0.625 px

xc = 5.283 px
yc = 5.156 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 18743.9871
Standard deviation: 7.81379
R^2: 0.97771
Parameters:
 a = 112.03908
 b = 493.37974
 c = 25.05597
 d = 0.72958

Bead 1167

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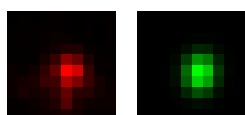Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -33.2 um (x), -68.0 um (y), 25.5 um (z)
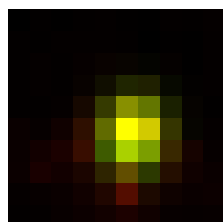Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	492 nm	508 nm	223 nm
max	589 nm	609 nm	223 nm
z	1.48 um	1.49 um	885 nm
Asymmetry	0.835		
Theta	83.0°		

XY profile & fitting parameters :

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

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

Parameters:
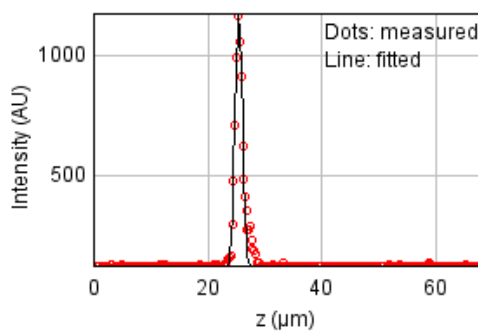 A = 1003.161   (brightness)
 B = 138.849   (background)
 a = 0.552 px
 b = 0.020 px
 c = 0.390 px

xc = 5.277 px
yc = 5.223 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 155899.598
Standard deviation: 22.53478
R^2: 0.97255
Parameters:
 a = 116.49409
 b = 1178.72855
 c = 25.51218
 d = 0.62818

Bead 1168

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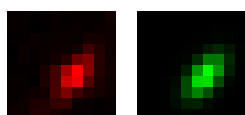Frame size : 10 pixels

Coordinates : -144 um (x), -94.9 um (y), 25.1 um (z)
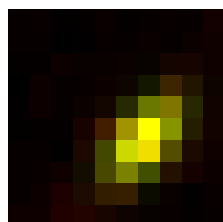Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	761 nm	786 nm	223 nm
z	2.12 um	2.13 um	885 nm
Asymmetry	0.552		
Theta	50.0°		

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
   $R^2 = 0.968$

Parameters:
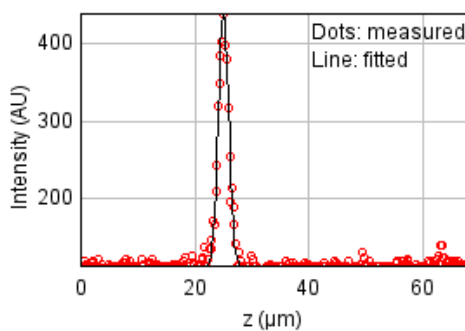 A = 366.329   (brightness)
 B = 114.388   (background)
 a = 0.542 px
 b = 0.260 px
 c = 0.450 px

xc = 5.772 px
yc = 5.474 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 20534.9663
Standard deviation: 8.17858
R^2: 0.97313
Parameters:
 a = 111.76899
 b = 439.88310
 c = 25.12917
 d = 0.89961

Bead 1169

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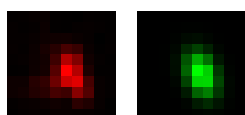Frame size : 10 pixels

Coordinates : -52.7 um (x), 91.0 um (y), 26.5 um (z)
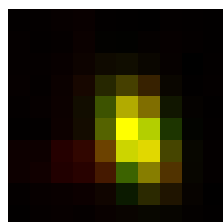Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	466 nm	482 nm	223 nm
max	727 nm	752 nm	223 nm
z	1.61 um	1.62 um	885 nm
Asymmetry	0.641		
Theta	-70.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 861.758   (brightness)
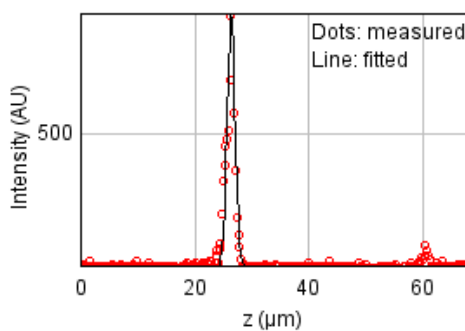 B = 129.355   (background)
 a = 0.578 px
 b = -0.113 px
 c = 0.293 px

xc = 5.383 px
yc = 5.336 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 212692.571
Standard deviation: 26.32128
R^2: 0.93106
Parameters:
 a = 114.67824
 b = 849.73714
 c = 26.45899
 d = 0.68442

Bead 1170

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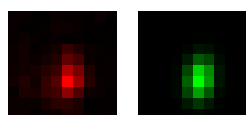Frame size : 10 pixels

Coordinates : -119 um (x), 1.37 um (y), 26.6 um (z)
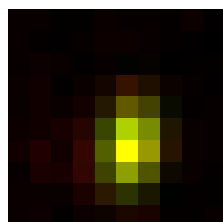Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	641 nm	662 nm	223 nm
z	1.45 um	1.45 um	885 nm
Asymmetry	0.655		
Theta	82.1°		

XY profile & fitting parameters :

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

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

Parameters:
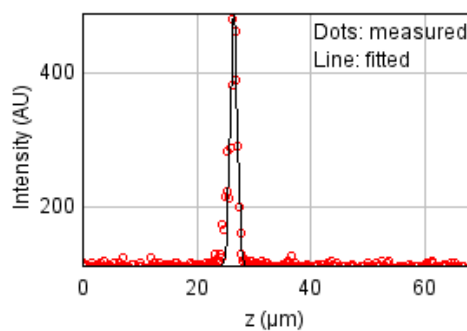 A = 396.351   (brightness)
 B = 123.655   (background)
 a = 0.753 px
 b = 0.059 px
 c = 0.335 px

xc = 5.171 px
yc = 5.769 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 53038.8028
Standard deviation: 13.14400
R^2: 0.92758
Parameters:
 a = 112.49391
 b = 489.21339
 c = 26.57204
 d = 0.61387

Bead 1171

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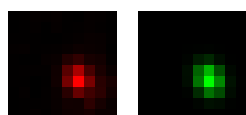Frame size : 10 pixels

Coordinates : 58.1 um (x), -9.42 um (y), 26.3 um (z)
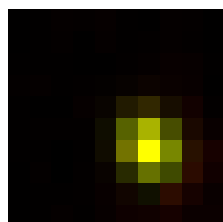Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	430 nm	223 nm
max	503 nm	520 nm	223 nm
z	1.39 um	1.4 um	885 nm
Asymmetry	0.827		
Theta	-61.5°		

XY profile & fitting parameters :

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

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

Parameters:
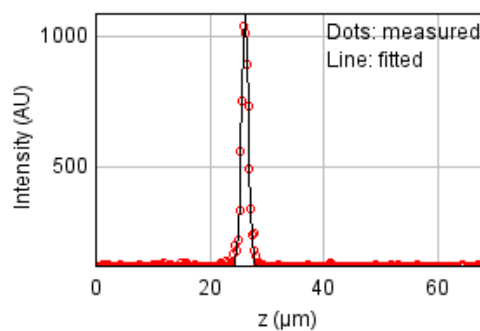 A = 974.602   (brightness)
 B = 124.961   (background)
 a = 0.719 px
 b = -0.103 px
 c = 0.586 px

xc = 6.029 px
yc = 5.811 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 49369.3574
Standard deviation: 12.68118
R^2: 0.98903
Parameters:
 a = 114.27934
 b = 1095.84039
 c = 26.25762
 d = 0.59202

Bead 1172 (Rejected)

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

Coordinates : -87.8 um (x), 84.3 um (y), 59.6 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

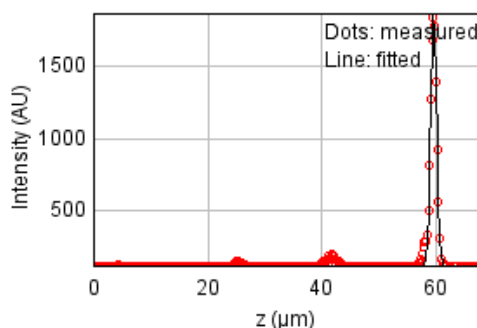| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.24 um	1.24 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 145655.495
Standard deviation: 21.78182
R^2: 0.98851
Parameters:
 a = 120.36007
 b = 1866.05956
 c = 59.64444
 d = 0.52459

Bead 1173

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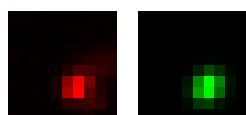Frame size : 10 pixels

Coordinates : 100 um (x), 68.1 um (y), 26.3 um (z)
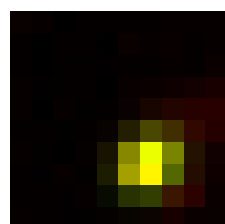Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	419 nm	434 nm	223 nm
max	493 nm	510 nm	223 nm
z	1.49 um	1.49 um	885 nm
Asymmetry	0.851		
Theta	43.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 694.145   (brightness)
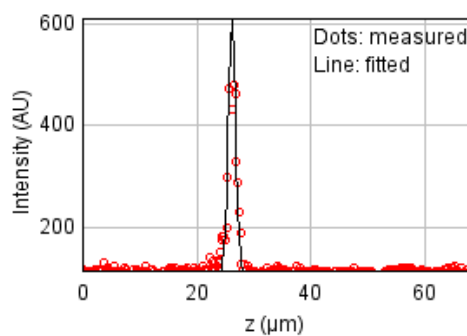 B = 121.042   (background)
 a = 0.651 px
 b = 0.105 px
 c = 0.665 px

xc = 5.914 px
yc = 6.482 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 98441.0421
Standard deviation: 17.90684
R^2: 0.92602
Parameters:
 a = 113.06780
 b = 613.39166
 c = 26.25261
 d = 0.63189

Bead 1174

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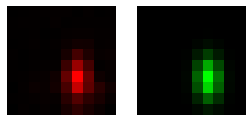Frame size : 10 pixels

Coordinates : 9.7 nm (x), 63.5 um (y), 26.4 um (z)
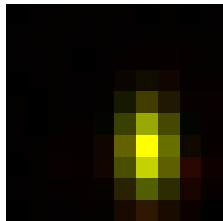Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	387 nm	400 nm	223 nm
max	664 nm	686 nm	223 nm
z	1.2 um	1.2 um	885 nm
Asymmetry	0.583		
Theta	-88.7°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.981$

   Parameters:
   A = 1123.619   (brightness)
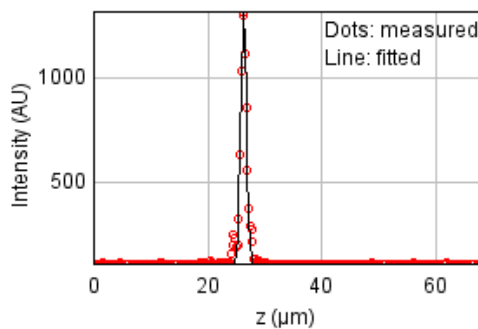   B = 123.654   (background)
   a = 0.896 px
   b = -0.013 px
   c = 0.305 px

   xc = 6.044 px
   yc = 6.190 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 122405.204
Standard deviation: 19.96782
R^2: 0.97896
Parameters:
 a = 115.95106
 b = 1312.11286
 c = 26.36123
 d = 0.50753

Bead 1175

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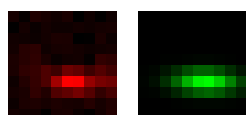Frame size : 10 pixels

Coordinates : 152 um (x), 44.2 um (y), 25.3 um (z)
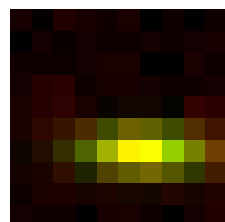Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	377 nm	389 nm	223 nm
max	1.02 um	1.06 um	223 nm
z	2.1 um	2.11 um	885 nm
Asymmetry	0.369		
Theta	-1.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.905$

Parameters:
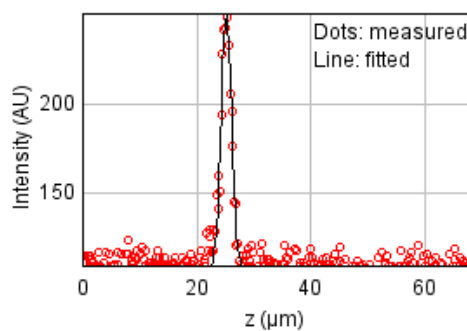 A = 125.865   (brightness)
 B = 113.959   (background)
 a = 0.129 px
 b = -0.022 px
 c = 0.945 px

xc = 5.690 px
yc = 6.006 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 12627.0533
Standard deviation: 6.41330
R^2: 0.91411
Parameters:
 a = 109.81883
 b = 249.91943
 c = 25.27409
 d = 0.89133

Bead 1176

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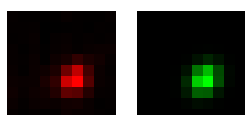Frame size : 10 pixels

Coordinates : -134 um (x), -28.1 um (y), 26.0 um (z)
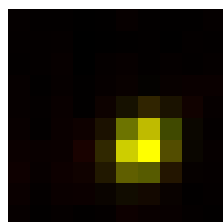Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	404 nm	418 nm	223 nm
max	490 nm	506 nm	223 nm
z	1.28 um	1.29 um	885 nm
Asymmetry	0.824		
Theta	48.9°		

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 = 0.988

Parameters:
 A = 921.403   (brightness)
 B = 124.042   (background)
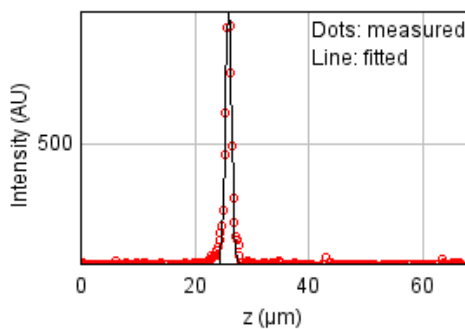 a = 0.709 px
 b = 0.131 px
 c = 0.673 px

xc = 5.690 px
yc = 5.792 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 53082.3992
Standard deviation: 13.14940
R^2: 0.98173
Parameters:
 a = 113.78085
 b = 931.74073
 c = 25.99311
 d = 0.54460

Bead 1177

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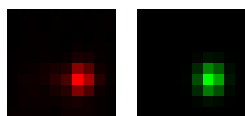Frame size : 10 pixels

Coordinates : -106 um (x), -30.6 um (y), 26.1 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	417 nm	223 nm
max	441 nm	456 nm	223 nm
z	1.28 um	1.28 um	885 nm
Asymmetry	0.914		
Theta	80.9°		

XY profile & fitting parameters :

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

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

Parameters:
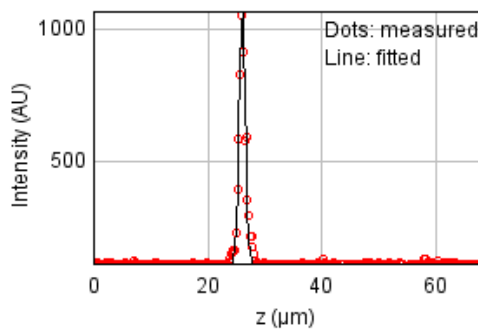 A = 1084.932   (brightness)
 B = 126.183   (background)
 a = 0.823 px
 b = 0.021 px
 c = 0.693 px

xc = 6.238 px
yc = 5.971 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 97088.4633
Standard deviation: 17.78339
R^2: 0.97563
Parameters:
 a = 114.82785
 b = 1071.17702
 c = 26.13207
 d = 0.54293

Bead 1178

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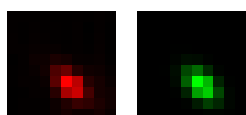Frame size : 10 pixels

Coordinates : 97.1 um (x), -48.5 um (y), 26.1 um (z)
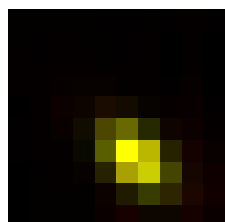Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	373 nm	386 nm	223 nm
max	595 nm	615 nm	223 nm
z	1.15 um	1.15 um	885 nm
Asymmetry	0.627		
Theta	-44.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.987$

Parameters:
A = 1646.355 (brightness)
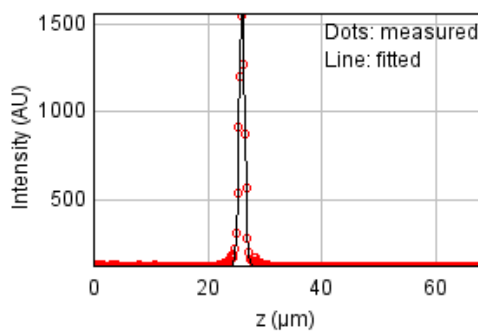B = 131.405 (background)
a = 0.666 px
b = -0.293 px
c = 0.677 px

xc = 5.389 px
yc = 6.328 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 54868.0318
Standard deviation: 13.36874
R^2: 0.99352
Parameters:
a = 115.42574
b = 1597.70433
c = 26.07552
d = 0.48771

Bead 1179 (Rejected)

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

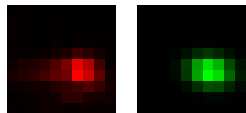Coordinates : -61.8 um (x), -61.7 um (y), 26.7 um (z)
Corresponding bead : Not found
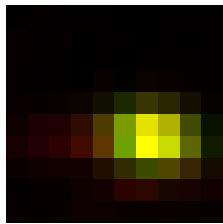Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	446 nm	461 nm	223 nm
max	668 nm	691 nm	223 nm
z	2.64 um	2.65 um	885 nm
Asymmetry	0.668		
Theta	-7.0°		

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
$R^2 = 0.931$

Parameters:
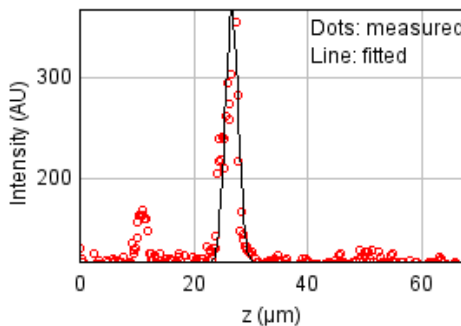A = 1085.179   (brightness)
B = 145.216   (background)
a = 0.306 px
b = -0.045 px
c = 0.668 px
xc = 6.190 px
yc = 5.606 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 109474.247
Standard deviation: 18.88369
R^2: 0.82982
Parameters:
a = 116.87921
b = 367.32565
c = 26.73573
d = 1.12219

Bead 1180 (Rejected)

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

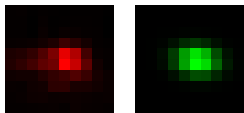Coordinates : -61.8 um (x), -61.7 um (y), 26.7 um (z)
Corresponding bead : Not found
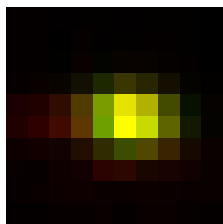Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	447 nm	462 nm	223 nm
max	667 nm	689 nm	223 nm
z	2.64 um	2.65 um	885 nm
Asymmetry	0.67		
Theta	-7.1°		

XY profile & fitting parameters :

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

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

Parameters:
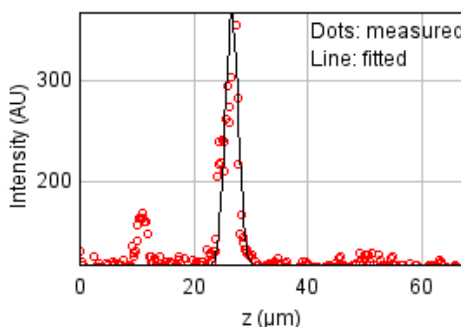 A = 1086.662   (brightness)
 B = 144.415   (background)
 a = 0.307 px
 b = -0.045 px
 c = 0.666 px

xc = 5.190 px
yc = 4.606 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 109474.247
Standard deviation: 18.88369
R^2: 0.82982
Parameters:
 a = 116.87921
 b = 367.32565
 c = 26.73573
 d = 1.12219

Bead 1181

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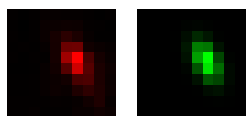Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 63.1 um (x), -83.0 um (y), 25.8 um (z)
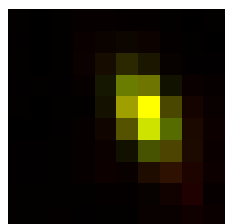Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	364 nm	377 nm	223 nm
max	650 nm	672 nm	223 nm
z	1.11 um	1.12 um	885 nm
Asymmetry	0.56		
Theta	-64.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.972$

Parameters:
A = 1005.952   (brightness)
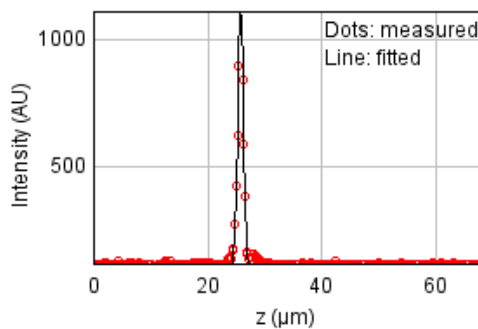B = 129.507   (background)
a = 0.881 px
b = -0.271 px
c = 0.448 px

xc = 5.858 px
yc = 4.286 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 36043.7094
Standard deviation: 10.83542
R^2: 0.99057
Parameters:
a = 114.29921
b = 1124.14623
c = 25.82646
d = 0.47226

Bead 1182 (Rejected)

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

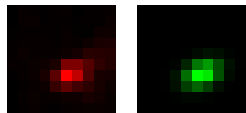Coordinates : 120 um (x), 67.6 um (y), 26.2 um (z)
Corresponding bead : Not found
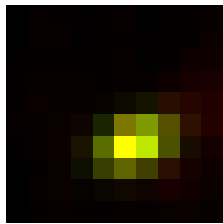Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	379 nm	392 nm	223 nm
max	581 nm	601 nm	223 nm
z	1.52 um	1.52 um	885 nm
Asymmetry	0.653		
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 = 660.759   (brightness)
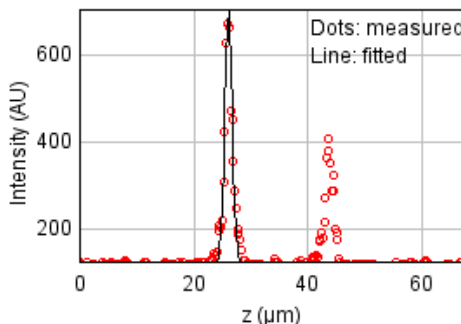B = 123.058   (background)
a = 0.471 px
b = 0.185 px
c = 0.858 px

xc = 5.449 px
yc = 5.849 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 504110.146
Standard deviation: 40.52225
R^2: 0.77221
Parameters:
a = 122.65905
b = 706.21210
c = 26.17703
d = 0.64462

Bead 1183

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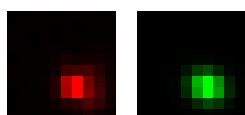Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 57.2 um (x), 38.8 um (y), 27.5 um (z)
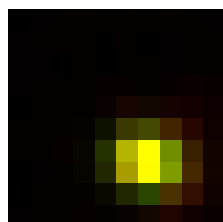Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	454 nm	469 nm	223 nm
max	546 nm	564 nm	223 nm
z	1.56 um	1.56 um	885 nm
Asymmetry	0.831		
Theta	-18.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.956$

Parameters:
A = 1191.815   (brightness)
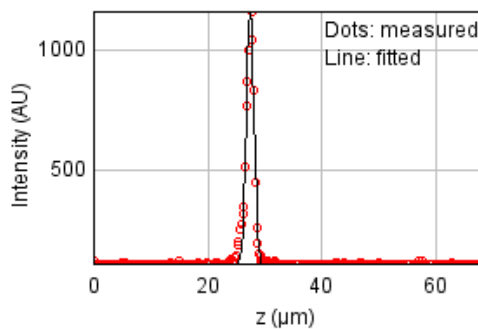B = 127.838   (background)
a = 0.470 px
b = -0.059 px
c = 0.633 px

xc = 5.934 px
yc = 6.481 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 161945.346
Standard deviation: 22.96757
R^2: 0.97180
Parameters:
a = 114.56696
b = 1155.98148
c = 27.50904
d = 0.66161

Bead 1184

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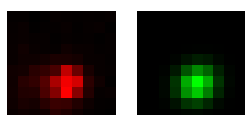Frame size : 10 pixels

Coordinates : -102 um (x), 15.8 um (y), 26.8 um (z)
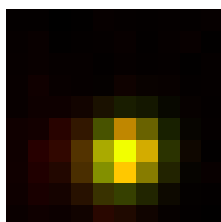Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	537 nm	555 nm	223 nm
max	595 nm	615 nm	223 nm
z	1.94 um	1.95 um	885 nm
Asymmetry	0.902		
Theta	31.1°		

XY profile & fitting parameters :

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

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

Parameters:
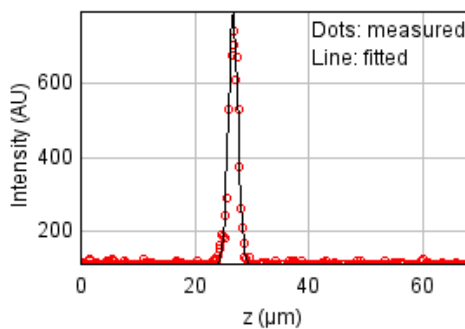 A = 671.568 (brightness)
 B = 125.653 (background)
 a = 0.402 px
 b = 0.038 px
 c = 0.443 px

xc = 4.984 px
yc = 6.223 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 122774.713
Standard deviation: 19.99794
R^2: 0.96011
Parameters:
 a = 112.56214
 b = 794.91817
 c = 26.79354
 d = 0.82318

Bead 1185

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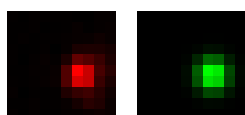Frame size : 10 pixels

Coordinates : 76.0 um (x), 5.2 um (y), 26.4 um (z)
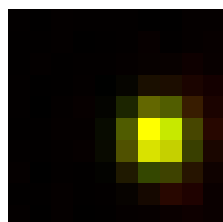Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	492 nm	509 nm	223 nm
max	510 nm	527 nm	223 nm
z	1.43 um	1.43 um	885 nm
Asymmetry	0.965		
Theta	-84.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.968$

Parameters:
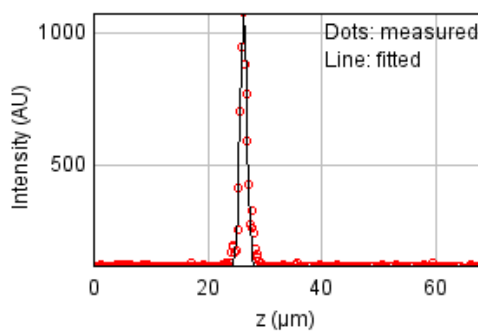A = 1055.712   (brightness)
B = 123.612   (background)
a = 0.554 px
b = -0.004 px
c = 0.517 px

xc = 6.419 px
yc = 5.386 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 115474.937
Standard deviation: 19.39433
R^2: 0.97411
Parameters:
 a = 115.23883
 b = 1073.61666
 c = 26.35138
 d = 0.60639

Bead 1186

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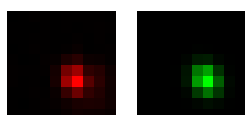Frame size : 10 pixels

Coordinates : 62.9 um (x), -23.3 um (y), 26.8 um (z)
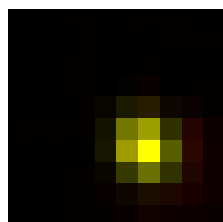Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	408 nm	422 nm	223 nm
max	479 nm	495 nm	223 nm
z	1.38 um	1.38 um	885 nm
Asymmetry	0.853		
Theta	-59.7°		

XY profile & fitting parameters :

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

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

Parameters:
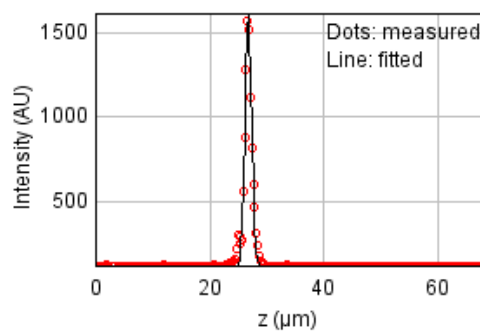 A = 1529.011   (brightness)
 B = 129.482   (background)
 a = 0.750 px
 b = -0.096 px
 c = 0.642 px

 xc = 5.814 px
 yc = 5.836 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 150663.303
Standard deviation: 22.15310
R^2: 0.98544
Parameters:
 a = 116.18453
 b = 1609.41366
 c = 26.83014
 d = 0.58549

Bead 1187

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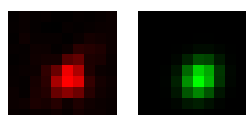Frame size : 10 pixels

Coordinates : -127 um (x), -61.1 um (y), 26.2 um (z)
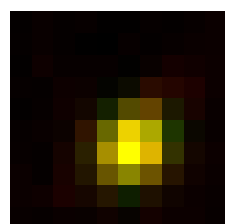Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	513 nm	530 nm	223 nm
max	596 nm	616 nm	223 nm
z	1.81 um	1.82 um	885 nm
Asymmetry	0.861		
Theta	54.0°		

XY profile & fitting parameters :

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

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

Parameters:
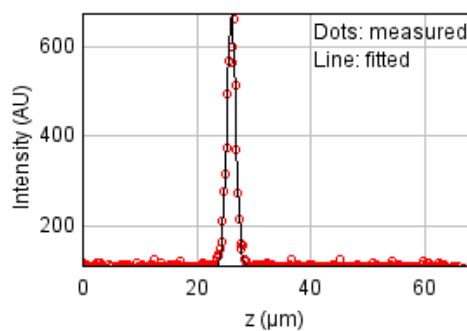 A = 534.475   (brightness)
 B = 122.490   (background)
 a = 0.465 px
 b = 0.063 px
 c = 0.424 px

xc = 5.164 px
yc = 5.710 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 54164.8179
Standard deviation: 13.28279
R^2: 0.97175
Parameters:
 a = 112.50723
 b = 672.32569
 c = 26.15014
 d = 0.76880

Bead 1188

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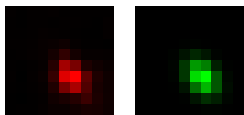Frame size : 10 pixels

Coordinates : 74.5 um (x), -69.5 um (y), 26.5 um (z)
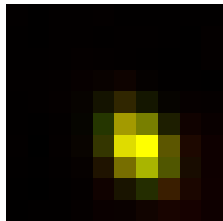Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	423 nm	437 nm	223 nm
max	584 nm	604 nm	223 nm
z	1.25 um	1.25 um	885 nm
Asymmetry	0.724		
Theta	-53.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.979$

Parameters:
A = 1690.086   (brightness)
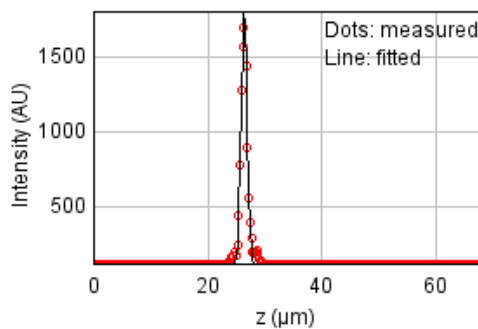B = 133.471   (background)
a = 0.621 px
b = -0.172 px
c = 0.523 px

xc = 5.636 px
yc = 6.050 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 116413.705
Standard deviation: 19.47300
R^2: 0.99031
Parameters:
 a = 114.47314
 b = 1809.08920
 c = 26.45456
 d = 0.52891

Bead 1189

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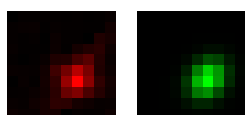Frame size : 10 pixels

Coordinates : -141 um (x), -81.6 um (y), 26.1 um (z)
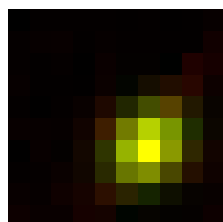Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	515 nm	532 nm	223 nm
max	642 nm	663 nm	223 nm
z	1.91 um	1.92 um	885 nm
Asymmetry	0.802		
Theta	50.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 508.718   (brightness)
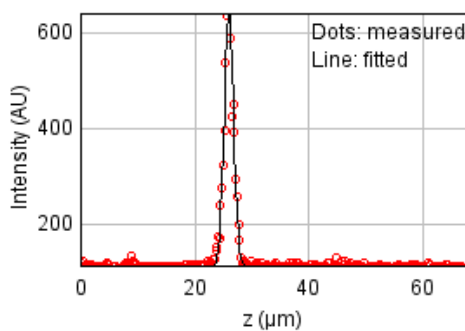 B = 124.203   (background)
 a = 0.434 px
 b = 0.089 px
 c = 0.399 px

xc = 5.959 px
yc = 5.763 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 36213.5122
Standard deviation: 10.86091
R^2: 0.98015
Parameters:
 a = 110.80683
 b = 645.49287
 c = 26.07543
 d = 0.81081

Bead 1190

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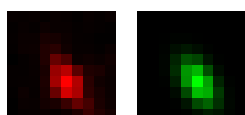Frame size : 10 pixels

Coordinates : 80.3 um (x), -82.3 um (y), 25.8 um (z)
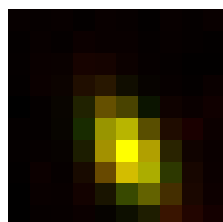Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	460 nm	475 nm	223 nm
max	800 nm	828 nm	223 nm
z	1.54 um	1.54 um	885 nm
Asymmetry	0.574		
Theta	-58.8°		

XY profile & fitting parameters :

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

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

Parameters:
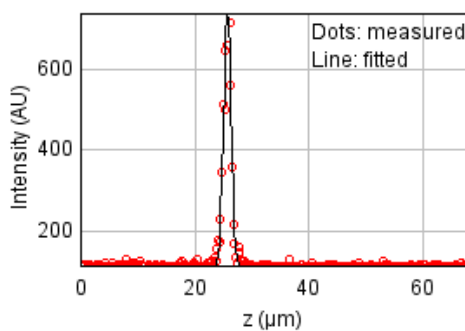 A = 558.752   (brightness)
 B = 120.094   (background)
 a = 0.521 px
 b = -0.188 px
 c = 0.323 px

xc = 5.077 px
yc = 6.082 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 91649.2964
Standard deviation: 17.27808
R^2: 0.95607
Parameters:
 a = 112.64243
 b = 739.53451
 c = 25.80519
 d = 0.65230

Bead 1191 (Rejected)

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

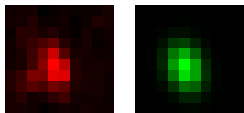Coordinates : -61.8 um (x), 74.5 um (y), 23.3 um (z)
Corresponding bead : Not found
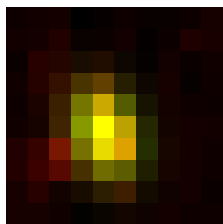Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	516 nm	533 nm	223 nm
max	724 nm	748 nm	223 nm
z	1.44 um	1.45 um	885 nm
Asymmetry	0.712		
Theta	-71.4°		

XY profile & fitting parameters :

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

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

Parameters:
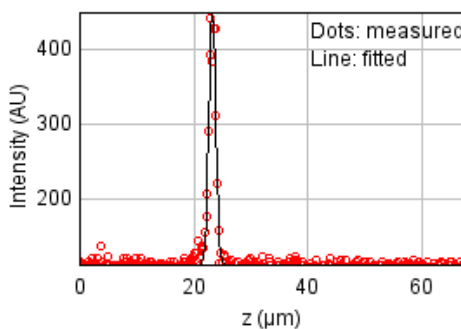A = 276.747   (brightness)
B = 122.987   (background)
a = 0.479 px
b = -0.075 px
c = 0.281 px

xc = 4.069 px
yc = 5.255 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 1192

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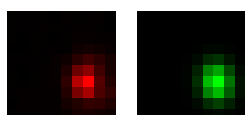Frame size : 10 pixels

Coordinates : 41.5 um (x), 25.3 um (y), 27.4 um (z)
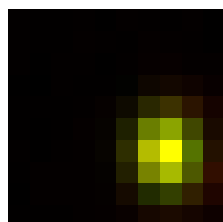Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	492 nm	509 nm	223 nm
max	595 nm	615 nm	223 nm
z	1.33 um	1.33 um	885 nm
Asymmetry	0.827		
Theta	-82.9°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.967$

  Parameters:
  A = 1240.361   (brightness)
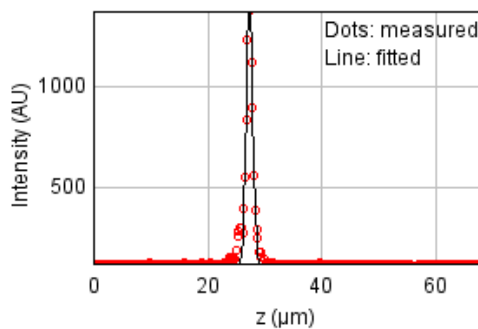 B = 126.053   (background)
  a = 0.552 px
  b = -0.022 px
  c = 0.381 px

xc = 6.782 px
yc = 6.072 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 163851.079
Standard deviation: 23.10231
R^2: 0.97777
Parameters:
 a = 116.86785
 b = 1394.87754
 c = 27.38250
 d = 0.56421

Bead 1193

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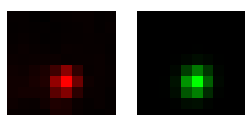Frame size : 10 pixels

Coordinates : -132 um (x), 6.59 um (y), 26.8 um (z)
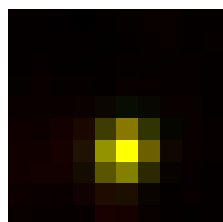Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	417 nm	223 nm
max	447 nm	462 nm	223 nm
z	1.56 um	1.56 um	885 nm
Asymmetry	0.903		
Theta	53.7°		

XY profile & fitting parameters :

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

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

Parameters:
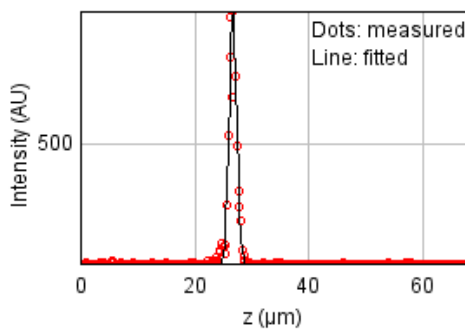 A = 910.224   (brightness)
 B = 119.442   (background)
 a = 0.771 px
 b = 0.073 px
 c = 0.726 px

xc = 4.856 px
yc = 6.035 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 141468.121
Standard deviation: 21.46644
R^2: 0.96167
Parameters:
 a = 110.39328
 b = 941.13032
 c = 26.75857
 d = 0.66114

Bead 1194

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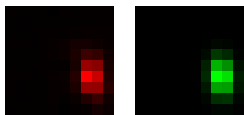Frame size : 10 pixels

Coordinates : -75.8 um (x), -22.2 um (y), 57.4 um (z)
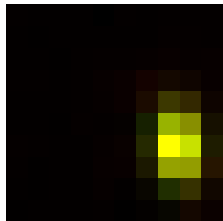Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	370 nm	382 nm	223 nm
max	578 nm	597 nm	223 nm
z	1.13 um	1.14 um	885 nm
Asymmetry	0.64		
Theta	-85.2°		

XY profile & fitting parameters :

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

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

Parameters:
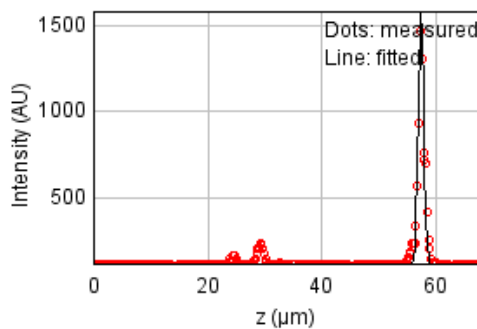 A = 1976.529   (brightness)
 B = 127.923   (background)
 a = 0.978 px
 b = -0.049 px
 c = 0.406 px

 xc = 7.434 px
 yc = 5.990 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 557052.343
Standard deviation: 42.59698
R^2: 0.93486
Parameters:
 a = 120.59630
 b = 1576.05192
 c = 57.43151
 d = 0.48051

Bead 1195

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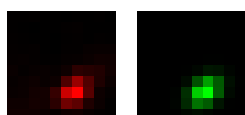Frame size : 10 pixels

Coordinates : -150 um (x), -27.9 um (y), 29.3 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	380 nm	392 nm	223 nm
max	539 nm	557 nm	223 nm
z	1.28 um	1.28 um	885 nm
Asymmetry	0.704		
Theta	37.5°		

XY profile & fitting parameters :

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

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

Parameters:
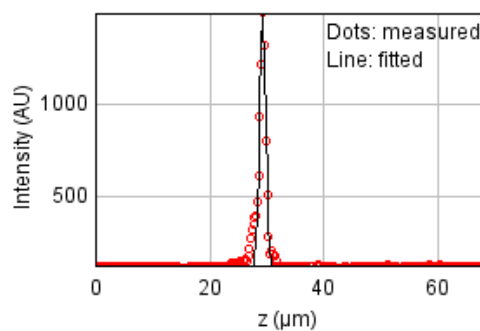 A = 1438.417   (brightness)
 B = 138.933   (background)
 a = 0.636 px
 b = 0.227 px
 c = 0.758 px

xc = 5.711 px
yc = 6.900 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 297158.278
Standard deviation: 31.11177
R^2: 0.96504
Parameters:
 a = 116.99726
 b = 1507.01002
 c = 29.33452
 d = 0.54231

Bead 1196

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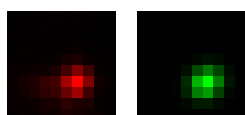Frame size : 10 pixels

Coordinates : -78.8 um (x), -44.2 um (y), 26.8 um (z)
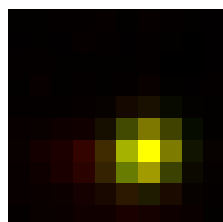Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	449 nm	464 nm	223 nm
max	515 nm	532 nm	223 nm
z	1.64 um	1.65 um	885 nm
Asymmetry	0.872		
Theta	28.4°		

XY profile & fitting parameters :

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

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

Parameters:
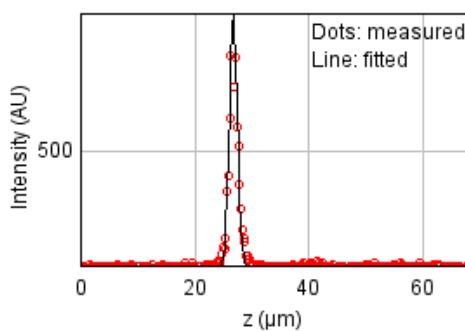 A = 938.330   (brightness)
 B = 129.963   (background)
 a = 0.543 px
 b = 0.067 px
 c = 0.630 px

xc = 5.814 px
yc = 6.122 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 120385.436
Standard deviation: 19.80240
R^2: 0.96978
Parameters:
 a = 115.19017
 b = 960.58971
 c = 26.83889
 d = 0.69635

Bead 1197

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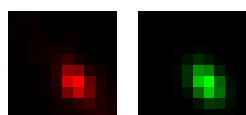Frame size : 10 pixels

Coordinates : 89.3 um (x), -68.5 um (y), 26.6 um (z)
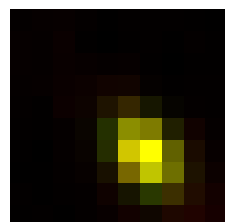Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	622 nm	643 nm	223 nm
z	1.33 um	1.33 um	885 nm
Asymmetry	0.675		
Theta	-53.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.978$

Parameters:
A = 1209.636   (brightness)
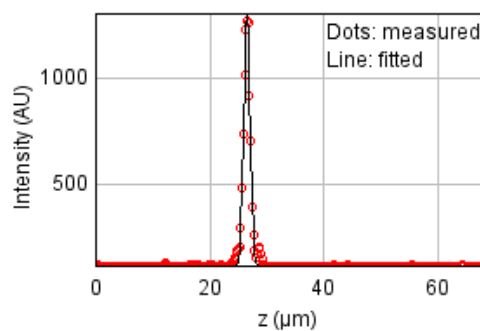B = 131.796   (background)
a = 0.613 px
b = -0.199 px
c = 0.495 px

xc = 5.752 px
yc = 6.139 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 56413.3514
Standard deviation: 13.55569
R^2: 0.99108
Parameters:
a = 115.36293
b = 1307.36317
c = 26.59417
d = 0.56424

Bead 1198

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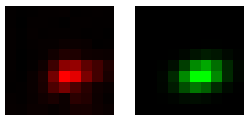Frame size : 10 pixels

Coordinates : 56.2 um (x), -82.3 um (y), 27.0 um (z)
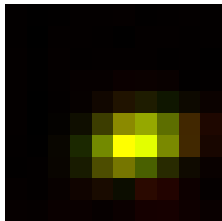Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	432 nm	447 nm	223 nm
max	685 nm	708 nm	223 nm
z	1.39 um	1.4 um	885 nm
Asymmetry	0.631		
Theta	13.6°		

XY profile & fitting parameters :

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

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

Parameters:
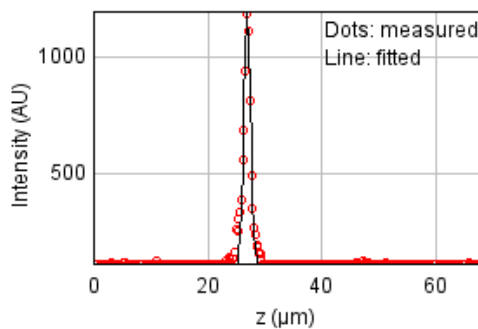 A = 1187.127   (brightness)
 B = 130.514   (background)
 a = 0.310 px
 b = 0.099 px
 c = 0.695 px

xc = 5.541 px
yc = 5.865 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 157689.351
Standard deviation: 22.66376
R^2: 0.97203
Parameters:
 a = 116.65945
 b = 1206.70841
 c = 26.97215
 d = 0.59074

Bead 1199

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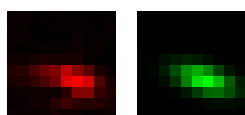Frame size : 10 pixels

Coordinates : -83.0 um (x), -84.2 um (y), 26.8 um (z)
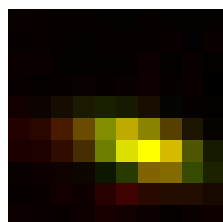Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	393 nm	406 nm	223 nm
max	910 nm	941 nm	223 nm
z	1.83 um	1.84 um	885 nm
Asymmetry	0.432		
Theta	-17.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.934$

Parameters:
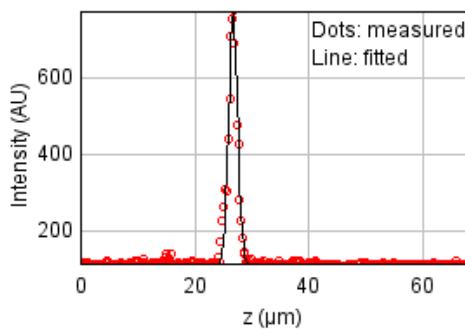A = 595.380   (brightness)
B = 124.819   (background)
a = 0.223 px
b = -0.198 px
c = 0.808 px

xc = 5.640 px
yc = 5.826 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 100734.016
Standard deviation: 18.11419
R^2: 0.96309
Parameters:
 a = 113.51344
 b = 775.42217
 c = 26.80530
 d = 0.77621

Bead 1200

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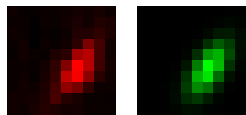Frame size : 10 pixels

Coordinates : -139 um (x), -93.8 um (y), 25.9 um (z)
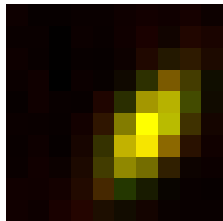Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	447 nm	462 nm	223 nm
max	918 nm	949 nm	223 nm
z	1.68 um	1.69 um	885 nm
Asymmetry	0.487		
Theta	56.5°		

XY profile & fitting parameters :

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

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

Parameters:
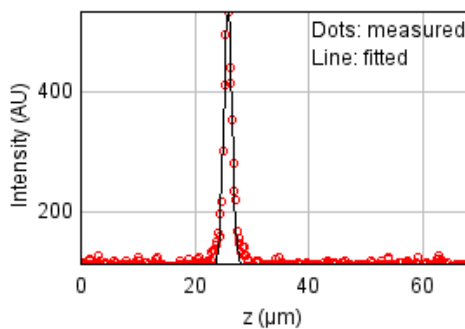 A = 446.266   (brightness)
 B = 115.919   (background)
 a = 0.516 px
 b = 0.236 px
 c = 0.316 px

xc = 6.075 px
yc = 5.270 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 41217.8831
Standard deviation: 11.58707
R^2: 0.96041
Parameters:
 a = 111.58253
 b = 536.22499
 c = 25.89028
 d = 0.71504