Bead 1901 (Rejected)

Date : Mon Oct 17 13:52:41 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -101 um (x), 14.5 um (y), 35.6 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.
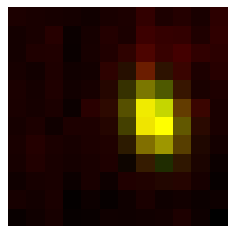
FWHM	Non corrected	Corrected	Theoretical
min	465 nm	484 nm	270 nm
max	653 nm	680 nm	270 nm
z	2.87 um	2.88 um	1.3 um
Asymmetry	0.712		
Theta	-70.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
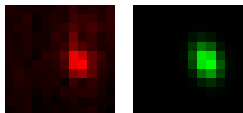
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.899$

Parameters:
 A = 241.949   (brightness)
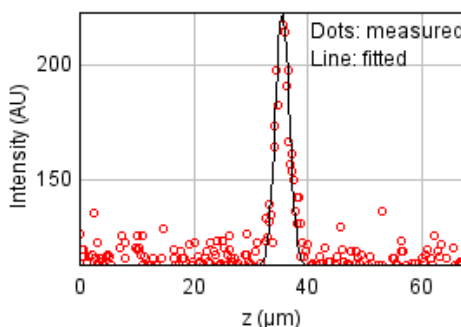 B = 121.728   (background)
 a = 0.585 px
 b = -0.099 px
 c = 0.350 px

xc = 7.525 px
yc = 5.613 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15547.4940
Standard deviation: 7.11641
R^2: 0.87769
Parameters:
 a = 112.73508
 b = 222.91506
 c = 35.60512
 d = 1.21845

Bead 1902 (Rejected)

Date : Mon Oct 17 13:52:41 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

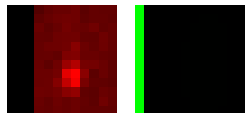Coordinates : -164 um (x), -2.37 um (y), 35.6 um (z)
Corresponding bead : Not found
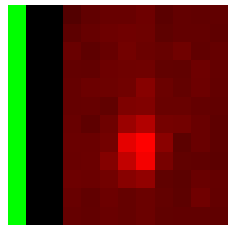Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	2.7 um	2.82 um	270 nm
max	6.23 um	6.49 um	270 nm
z	2.16 um	2.17 um	1.3 um
Asymmetry	0.434		
Theta	89.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.752$

Parameters:
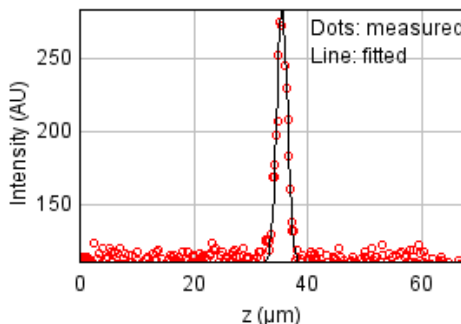 A = 275.459   (brightness)
 B = -115.062   (background)
 a = 0.018 px
 b = 0.000 px
 c = 0.003 px
xc = 7.224 px
yc = 6.265 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 13204.7171
Standard deviation: 6.55836
R^2: 0.94181
Parameters:
 a = 110.40121
 b = 284.77875
 c = 35.55537
 d = 0.91625

Bead 1903

Date : Mon Oct 17 13:52:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
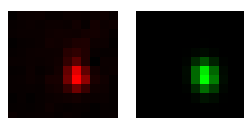Frame size : 12 pixels

Coordinates : 38.1 um (x), -5.52 um (y), 36.3 um (z)
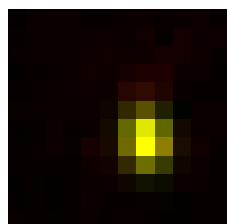Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	405 nm	422 nm	270 nm
max	534 nm	556 nm	270 nm
z	2.1 um	2.11 um	1.3 um
Asymmetry	0.759		
Theta	-81.2°		

XY profile & fitting parameters :

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

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

Parameters:
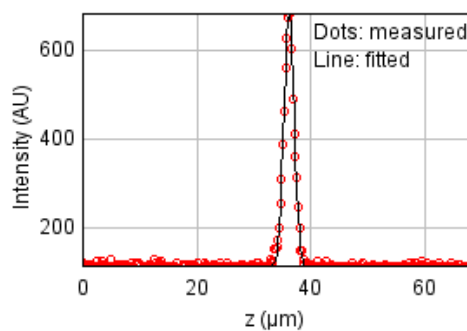A = 600.874   (brightness)
B = 118.318   (background)
a = 0.808 px
b = -0.052 px
c = 0.479 px

xc = 7.032 px
yc = 6.611 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21300.2928
Standard deviation: 8.32959
R^2: 0.99058
Parameters:
a = 113.81287
b = 685.16824
c = 36.25633
d = 0.89366

Bead 1904 (Rejected)

Date : Mon Oct 17 13:52:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -75.3 um (x), -22.8 um (y), 33.1 um (z)
Corresponding bead : Not found
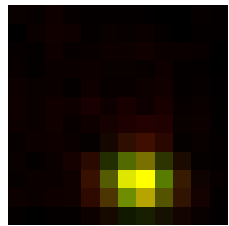Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	459 nm	478 nm	270 nm
max	573 nm	597 nm	270 nm
z	3.75 um	3.77 um	1.3 um
Asymmetry	0.801		
Theta	-6.6°		

XY profile & fitting parameters :

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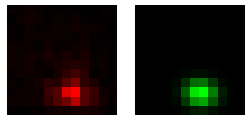
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.922$

Parameters:
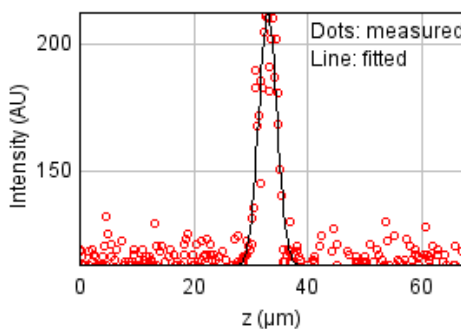A = 417.657   (brightness)
B = 123.253   (background)
a = 0.411 px
b = -0.026 px
c = 0.633 px

xc = 6.636 px
yc = 9.139 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17453.5627
Standard deviation: 7.54003
R^2: 0.86751
Parameters:
a = 113.42360
b = 211.99768
c = 33.07389
d = 1.59245

Bead 1905 (Rejected)

Date : Mon Oct 17 13:52:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -90.4 um (x), -27.4 um (y), 31.8 um (z)
Corresponding bead : Not found
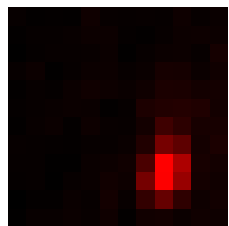Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	2.47 um	2.58 um	270 nm
max	4.2 um	4.37 um	270 nm
z	2.09 um	2.1 um	1.3 um
Asymmetry	0.589		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
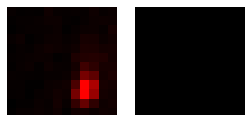
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.266$

Parameters:
A = -100.423 (brightness)
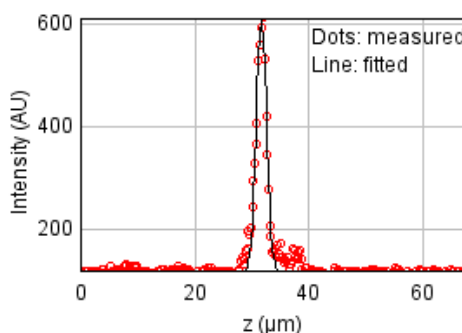B = 214.316 (background)
a = 0.011 px
b = 0.014 px
c = 0.004 px

xc = 2.302 px
yc = 3.021 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 64230.8884
Standard deviation: 14.46448
R^2: 0.96295
Parameters:
a = 117.37138
b = 611.60254
c = 31.75273
d = 0.88963

Bead 1906

Date : Mon Oct 17 13:52:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
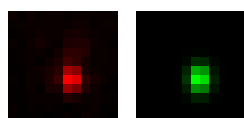Frame size : 12 pixels

Coordinates : 68.7 um (x), -30.7 um (y), 36.5 um (z)
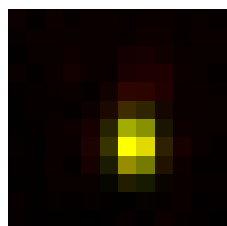Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	391 nm	407 nm	270 nm
max	521 nm	542 nm	270 nm
z	2.17 um	2.18 um	1.3 um
Asymmetry	0.75		
Theta	-89.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.960$

Parameters:
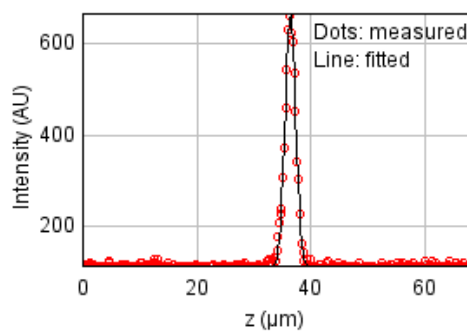A = 639.001   (brightness)
B = 124.397   (background)
a = 0.880 px
b = -0.005 px
c = 0.495 px

xc = 6.411 px
yc = 6.905 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19493.9601
Standard deviation: 7.96858
R^2: 0.99104
Parameters:
a = 114.25892
b = 666.78909
c = 36.49013
d = 0.92135

Bead 1907

Date : Mon Oct 17 13:52:42 PDT 2022
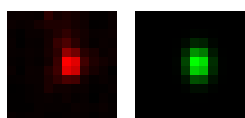Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 46.3 um (x), -35.4 um (y), 13.3 um (z)
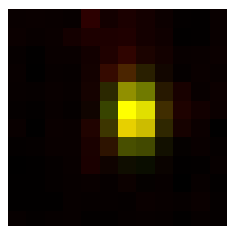Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	429 nm	447 nm	270 nm
max	590 nm	614 nm	270 nm
z	2.27 um	2.28 um	1.3 um
Asymmetry	0.727		
Theta	-87.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 507.130   (brightness)
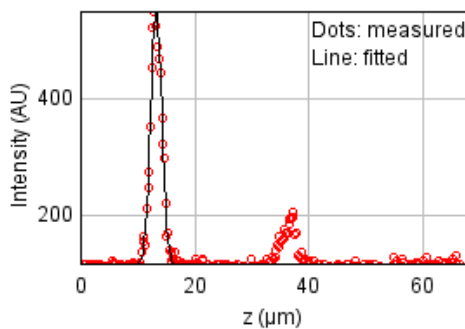 B = 122.507   (background)
 a = 0.729 px
 b = -0.016 px
 c = 0.386 px

xc = 6.413 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: 87141.3296
Standard deviation: 16.84779
R^2: 0.94043
Parameters:
 a = 118.05836
 b = 550.00375
 c = 13.32272
 d = 0.96374

Bead 1908 (Rejected)

Date : Mon Oct 17 13:52:42 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 4.57 um (x), -54.8 um (y), 32.9 um (z)
Corresponding bead : Not found
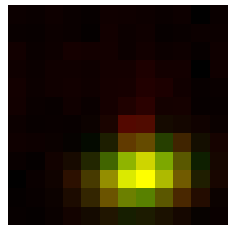Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	552 nm	575 nm	270 nm
max	827 nm	862 nm	270 nm
z	3.52 um	3.54 um	1.3 um
Asymmetry	0.668		
Theta	9.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
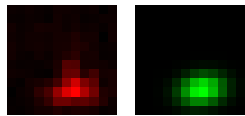
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.917$

Parameters:
 A = 333.478   (brightness)
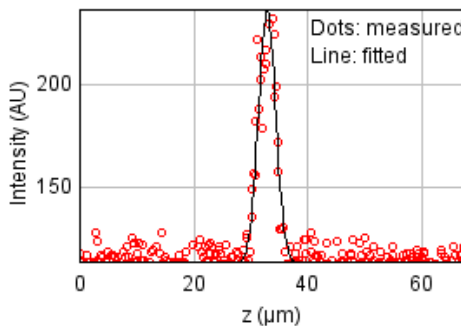 B = 124.037   (background)
 a = 0.203 px
 b = 0.039 px
 c = 0.433 px

xc = 6.774 px
yc = 8.732 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17639.3892
Standard deviation: 7.58006
R^2: 0.90489
Parameters:
 a = 113.36900
 b = 236.30756
 c = 32.93344
 d = 1.49518

Bead 1909

Date : Mon Oct 17 13:52:43 PDT 2022
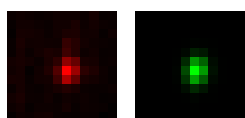Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -160 um (x), -71.6 um (y), 36.1 um (z)
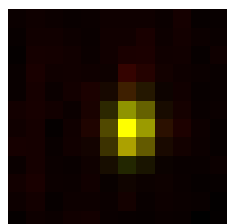Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	391 nm	407 nm	270 nm
max	519 nm	540 nm	270 nm
z	2.06 um	2.07 um	1.3 um
Asymmetry	0.754		
Theta	84.0°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 373.076   (brightness)
 B = 120.371   (background)
 a = 0.873 px
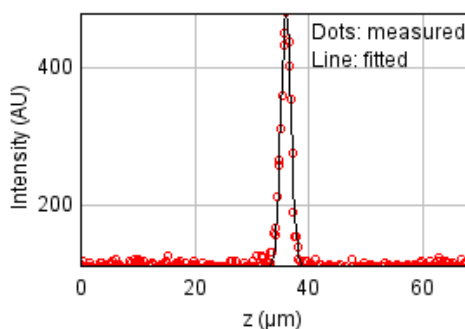 b = 0.039 px
 c = 0.503 px

xc = 6.212 px
yc = 6.027 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 19218.1131
Standard deviation: 7.91200
R^2: 0.97948
Parameters:
 a = 110.83892
 b = 479.95698
 c = 36.07997
 d = 0.87587

Bead 1910

Date : Mon Oct 17 13:52:43 PDT 2022
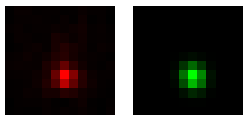Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 6.62 um (x), -78.3 um (y), 36.9 um (z)
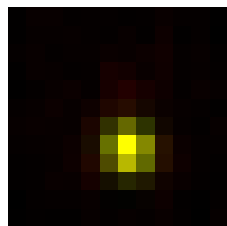Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	427 nm	445 nm	270 nm
max	471 nm	490 nm	270 nm
z	1.93 um	1.94 um	1.3 um
Asymmetry	0.908		
Theta	-72.6°		

XY profile & fitting parameters :

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

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

Parameters:
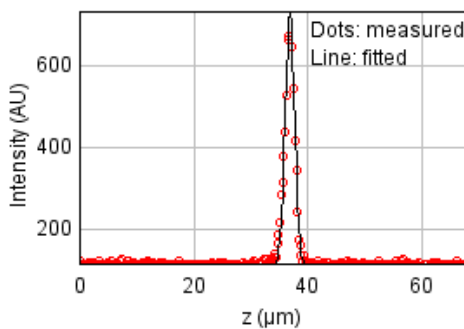 A = 636.939   (brightness)
 B = 125.212   (background)
 a = 0.723 px
 b = -0.037 px
 c = 0.617 px

xc = 6.076 px
yc = 7.237 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 32660.0619
Standard deviation: 10.31429
R^2: 0.98682
Parameters:
 a = 113.38917
 b = 735.65551
 c = 36.92128
 d = 0.81921

Bead 1911

Date : Mon Oct 17 13:52:43 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
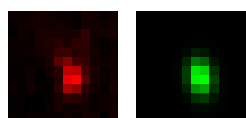Frame size : 12 pixels

Coordinates : 84.6 um (x), 91.9 um (y), 36.5 um (z)
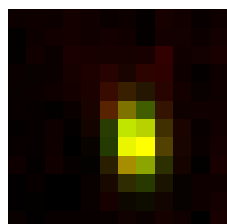Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	434 nm	453 nm	270 nm
max	665 nm	693 nm	270 nm
z	2.19 um	2.2 um	1.3 um
Asymmetry	0.653		
Theta	-81.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 279.628   (brightness)
 B = 120.189   (background)
 a = 0.702 px
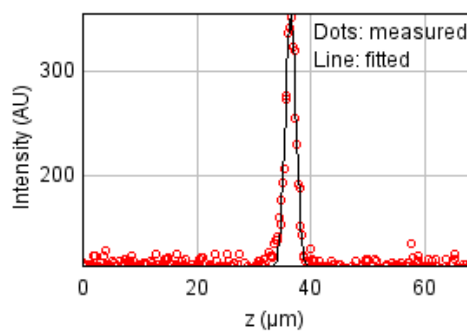 b = -0.061 px
 c = 0.313 px

xc = 6.499 px
yc = 6.709 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 15953.8369
Standard deviation: 7.20881
R^2: 0.96295
Parameters:
 a = 113.88106
 b = 354.79850
 c = 36.54202
 d = 0.93212

Bead 1912

Date : Mon Oct 17 13:52:43 PDT 2022
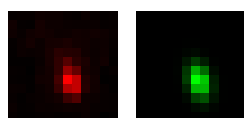Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 68.3 um (x), 87.2 um (y), 36.9 um (z)
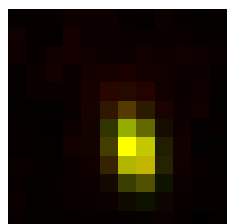Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	392 nm	409 nm	270 nm
max	634 nm	660 nm	270 nm
z	2.09 um	2.1 um	1.3 um
Asymmetry	0.619		
Theta	-75.9°		

XY profile & fitting parameters :

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

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

Parameters:
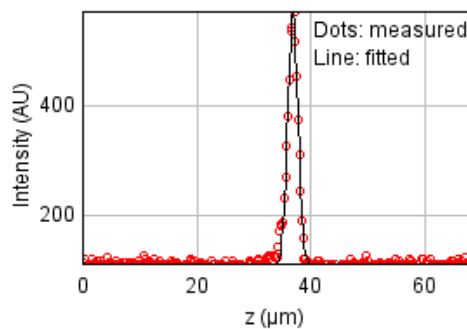 A = 495.962   (brightness)
 B = 122.781   (background)
 a = 0.840 px
 b = -0.127 px
 c = 0.366 px

xc = 6.377 px
yc = 7.161 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 21991.0219
Standard deviation: 8.46357
R^2: 0.98467
Parameters:
 a = 113.51805
 b = 568.62492
 c = 36.92244
 d = 0.88758

Bead 1913

Date : Mon Oct 17 13:52:43 PDT 2022
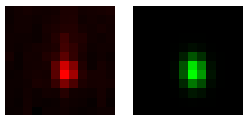Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -137 um (x), 50.1 um (y), 36.5 um (z)
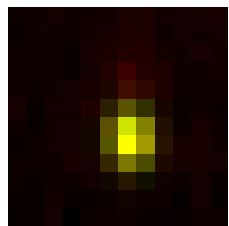Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	409 nm	426 nm	270 nm
max	553 nm	576 nm	270 nm
z	2.23 um	2.24 um	1.3 um
Asymmetry	0.741		
Theta	-86.5°		

XY profile & fitting parameters :

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

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

Parameters:
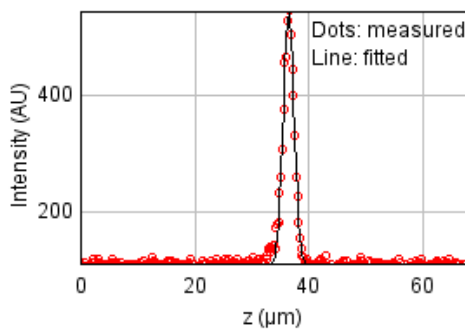 A = 454.644   (brightness)
 B = 119.311   (background)
 a = 0.799 px
 b = -0.022 px
 c = 0.440 px

xc = 6.173 px
yc = 6.645 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 18569.1190
Standard deviation: 7.77726
R^2: 0.98620
Parameters:
 a = 112.70757
 b = 540.85667
 c = 36.53395
 d = 0.94564

Bead 1914

Date : Mon Oct 17 13:52:43 PDT 2022
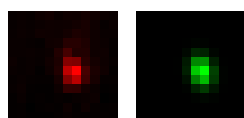Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 38.2 um (x), 37.1 um (y), 37.3 um (z)
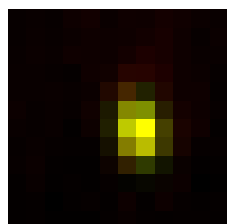Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	402 nm	418 nm	270 nm
max	566 nm	589 nm	270 nm
z	1.8 um	1.81 um	1.3 um
Asymmetry	0.71		
Theta	-77.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 670.423   (brightness)
 B = 124.665   (background)
 a = 0.811 px
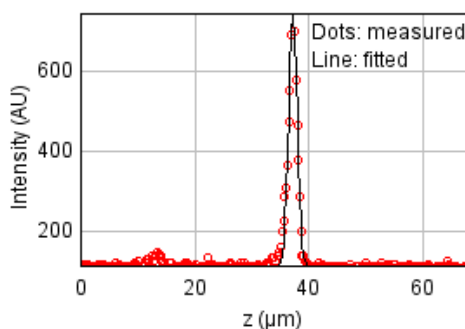 b = -0.089 px
 c = 0.439 px

xc = 6.655 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: 43907.4883
Standard deviation: 11.95914
R^2: 0.98156
Parameters:
 a = 115.94538
 b = 745.16029
 c = 37.27257
 d = 0.76339

Bead 1915

Date : Mon Oct 17 13:52:43 PDT 2022
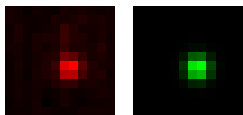Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -136 um (x), 14.8 um (y), 36.7 um (z)
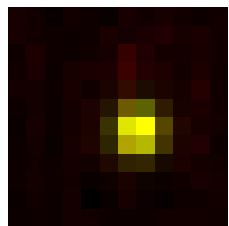Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	438 nm	456 nm	270 nm
max	458 nm	477 nm	270 nm
z	1.88 um	1.88 um	1.3 um
Asymmetry	0.955		
Theta	-86.7°		

XY profile & fitting parameters :

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

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

Parameters:
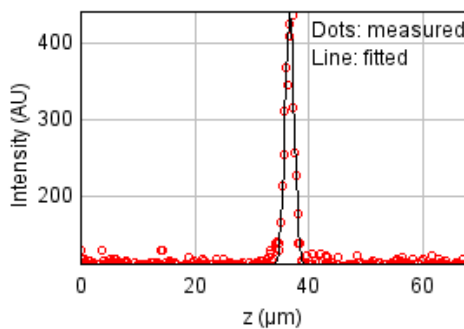A = 354.583   (brightness)
B = 119.330   (background)
a = 0.701 px
b = -0.004 px
c = 0.640 px

xc = 6.577 px
yc = 6.242 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 22748.3965
Standard deviation: 8.60808
R^2: 0.96700
Parameters:
a = 111.62183
b = 440.81215
c = 36.70463
d = 0.79677

Bead 1916

Date : Mon Oct 17 13:52:43 PDT 2022
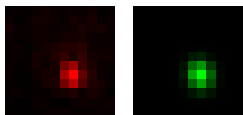Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 18.9 um (x), 12.9 um (y), 36.6 um (z)
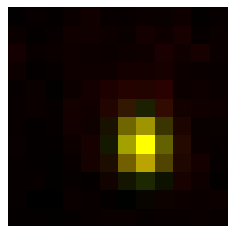Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	431 nm	449 nm	270 nm
max	528 nm	550 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.816		
Theta	-79.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.943$

Parameters:
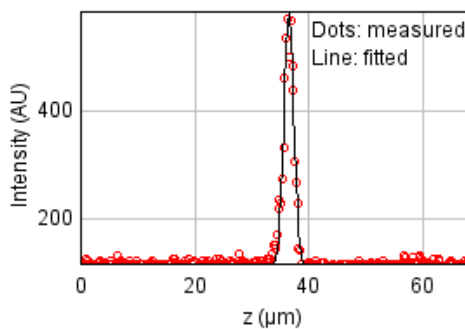 A = 394.958   (brightness)
 B = 122.076   (background)
 a = 0.715 px
 b = -0.042 px
 c = 0.489 px

xc = 6.827 px
yc = 7.033 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 36472.7591
Standard deviation: 10.89971
R^2: 0.97576
Parameters:
 a = 114.30726
 b = 585.81821
 c = 36.57543
 d = 0.85836

Bead 1917

Date : Mon Oct 17 13:52:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
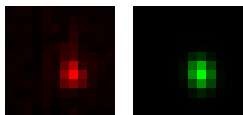Frame size : 12 pixels

Coordinates : -125 um (x), -13.1 um (y), 37.1 um (z)
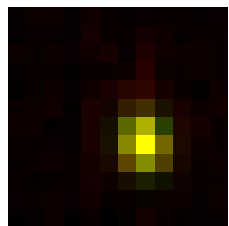Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	415 nm	433 nm	270 nm
max	536 nm	558 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.775		
Theta	-80.0°		

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 = 411.332   (brightness)
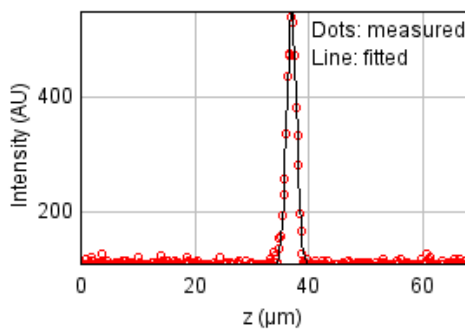   B = 115.461   (background)
   a = 0.769 px
   b = -0.053 px
   c = 0.477 px

   xc = 6.902 px
   yc = 6.879 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 17425.9320
Standard deviation: 7.53406
R^2: 0.98636
Parameters:
 a = 111.60953
 b = 548.11250
 c = 37.05148
 d = 0.85962

Bead 1918

Date : Mon Oct 17 13:52:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
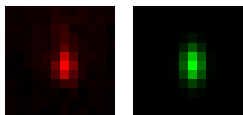Frame size : 12 pixels

Coordinates : 131 um (x), -24.7 um (y), 36.0 um (z)
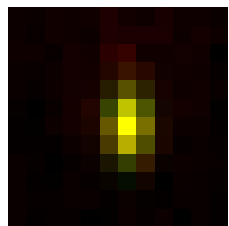Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	376 nm	391 nm	270 nm
max	648 nm	675 nm	270 nm
z	2.62 um	2.63 um	1.3 um
Asymmetry	0.58		
Theta	-89.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 346.068   (brightness)
 B = 119.965   (background)
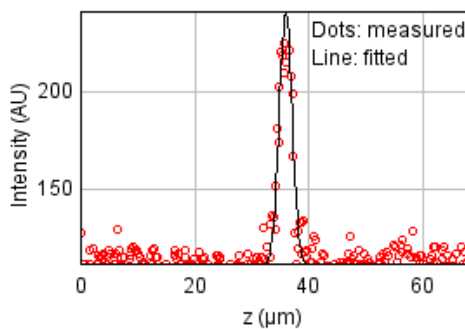 a = 0.951 px
 b = -0.009 px
 c = 0.320 px

xc = 6.062 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: 18918.0332
Standard deviation: 7.84998
R^2: 0.88404
Parameters:
 a = 111.21612
 b = 241.88621
 c = 36.01550
 d = 1.11325

Bead 1919

Date : Mon Oct 17 13:52:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
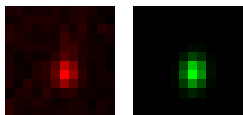Frame size : 12 pixels

Coordinates : 152 um (x), -87.8 um (y), 35.5 um (z)
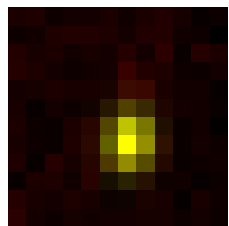Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	418 nm	435 nm	270 nm
max	567 nm	591 nm	270 nm
z	1.91 um	1.92 um	1.3 um
Asymmetry	0.737		
Theta	84.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.913$

Parameters:
A = 164.985   (brightness)
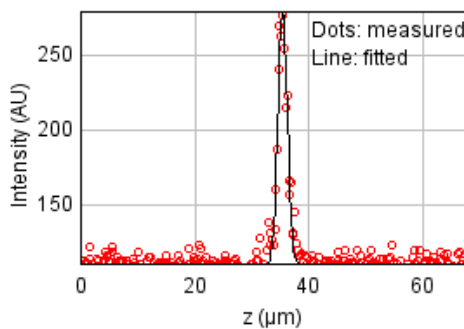B = 110.636   (background)
a = 0.766 px
b = 0.032 px
c = 0.420 px

x_c = 6.137 px
y_c = 6.789 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 14870.7679
Standard deviation: 6.95981
R^2: 0.92333
Parameters:
a = 110.54505
b = 279.65554
c = 35.47649
d = 0.81177

Bead 1920 (Rejected)

Date : Mon Oct 17 13:52:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

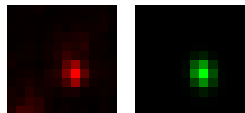Coordinates : -2.67 um (x), 76.7 um (y), 37.4 um (z)
Corresponding bead : Not found
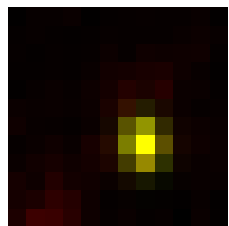Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	376 nm	391 nm	270 nm
max	485 nm	505 nm	270 nm
z	2.03 um	2.04 um	1.3 um
Asymmetry	0.775		
Theta	-80.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.891$

Parameters:
 A = 679.684   (brightness)
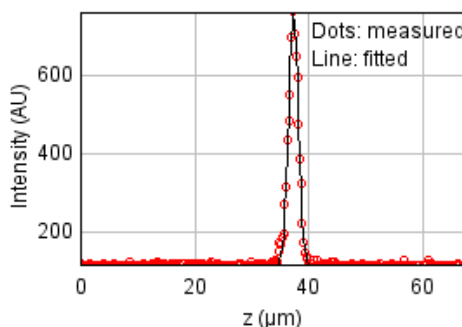 B = 140.461   (background)
 a = 0.940 px
 b = -0.062 px
 c = 0.581 px

xc = 6.873 px
yc = 6.950 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25787.3478
Standard deviation: 9.16504
R^2: 0.99088
Parameters:
 a = 114.17020
 b = 763.87302
 c = 37.36773
 d = 0.86329

Bead 1921 (Rejected)

Date : Mon Oct 17 13:52:44 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

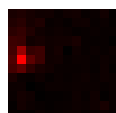Coordinates : 10.6 um (x), 46.1 um (y), 3.96 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

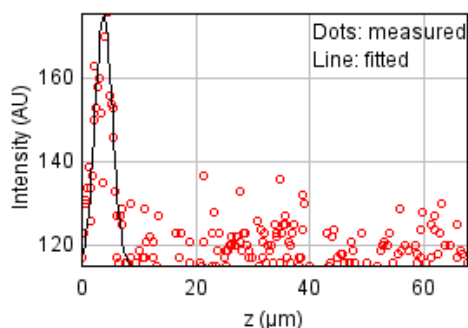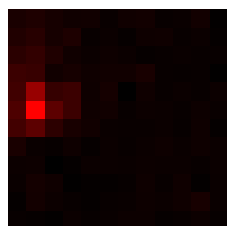| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	3.57 um	3.59 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on $y = a + (b-a) \cdot \exp(-(x-c)^2/(2 \cdot d^2))$
Sum of residuals squared: 18300.1351
Standard deviation: 7.72072
R^2: 0.69293
Parameters:
 a = 114.87869
 b = 175.42482
 c = 3.95578
 d = 1.51803

Bead 1922

Date : Mon Oct 17 13:52:45 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
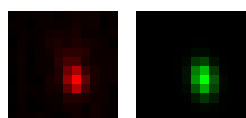Frame size : 12 pixels

Coordinates : 93.0 um (x), 25.0 um (y), 37.0 um (z)
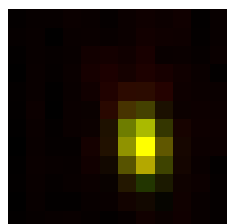Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	402 nm	419 nm	270 nm
max	616 nm	642 nm	270 nm
z	1.94 um	1.94 um	1.3 um
Asymmetry	0.653		
Theta	-80.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 463.387   (brightness)
 B = 120.122   (background)
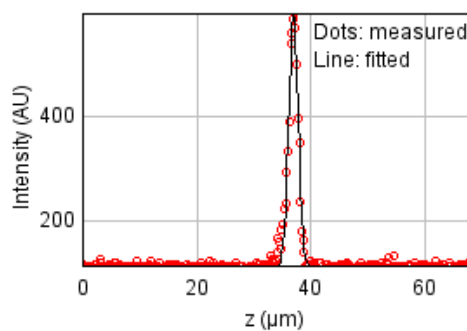 a = 0.815 px
 b = -0.081 px
 c = 0.368 px

xc = 6.828 px
yc = 6.897 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 31024.7905
Standard deviation: 10.05276
R^2: 0.97973
Parameters:
 a = 113.76662
 b = 600.12421
 c = 37.02522
 d = 0.82233

Bead 1923

Date : Mon Oct 17 13:52:45 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
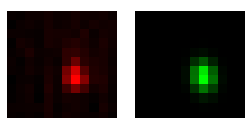Frame size : 12 pixels

Coordinates : -145 um (x), 15.4 um (y), 36.5 um (z)
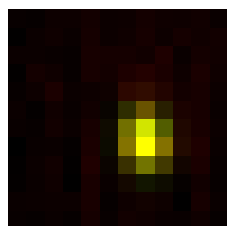Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	409 nm	425 nm	270 nm
max	551 nm	574 nm	270 nm
z	2.23 um	2.24 um	1.3 um
Asymmetry	0.742		
Theta	-82.9°		

XY profile & fitting parameters :

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

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

Parameters:
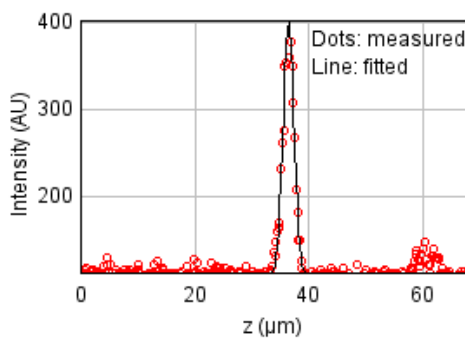 A = 306.971   (brightness)
 B = 115.679   (background)
 a = 0.799 px
 b = -0.044 px
 c = 0.448 px

xc = 6.975 px
yc = 6.621 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25206.0439
Standard deviation: 9.06115
R^2: 0.95982
Parameters:
 a = 113.10249
 b = 401.26457
 c = 36.51980
 d = 0.94706

Bead 1924 (Rejected)

Date : Mon Oct 17 13:52:45 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -101 um (x), 14.5 um (y), 35.6 um (z)
Corresponding bead : Not found
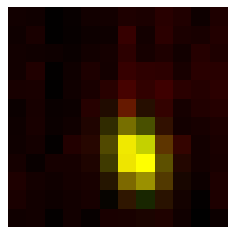Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	448 nm	466 nm	270 nm
max	628 nm	654 nm	270 nm
z	2.87 um	2.88 um	1.3 um
Asymmetry	0.712		
Theta	-69.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
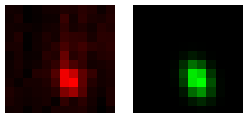
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.902$

Parameters:
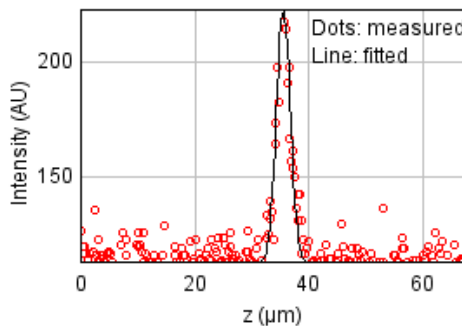 A = 243.660   (brightness)
 B = 125.541   (background)
 a = 0.630 px
 b = -0.108 px
 c = 0.380 px

xc = 6.523 px
yc = 7.623 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15547.4940
Standard deviation: 7.11641
R^2: 0.87769
Parameters:
 a = 112.73508
 b = 222.91506
 c = 35.60512
 d = 1.21845

Bead 1925 (Rejected)

Date : Mon Oct 17 13:52:45 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 71.4 um (x), 339 nm (y), 33.5 um (z)
Corresponding bead : Not found
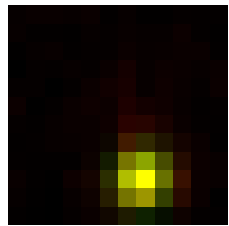Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	489 nm	509 nm	270 nm
max	529 nm	550 nm	270 nm
z	3.63 um	3.65 um	1.3 um
Asymmetry	0.925		
Theta	74.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
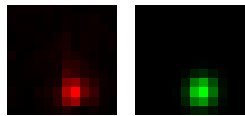
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.946$

Parameters:
 A = 582.228   (brightness)
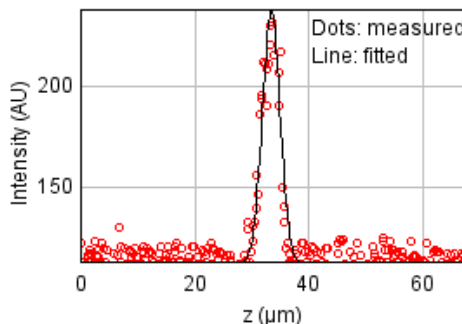 B = 124.658   (background)
 a = 0.555 px
 b = 0.021 px
 c = 0.486 px

xc = 6.769 px
yc = 8.961 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 22120.6977
Standard deviation: 8.48849
R^2: 0.89166
Parameters:
 a = 112.37566
 b = 238.62872
 c = 33.48127
 d = 1.54209

Bead 1926 (Rejected)

Date : Mon Oct 17 13:52:45 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -129 um (x), -7.72 um (y), 33.1 um (z)
Corresponding bead : Not found
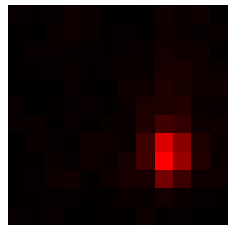Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	2.1 um	2.18 um	270 nm
max	3.62 um	3.77 um	270 nm
z	2.21 um	2.22 um	1.3 um
Asymmetry	0.578		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
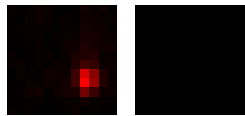
Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
  $R^2 = 0.123$

Parameters:
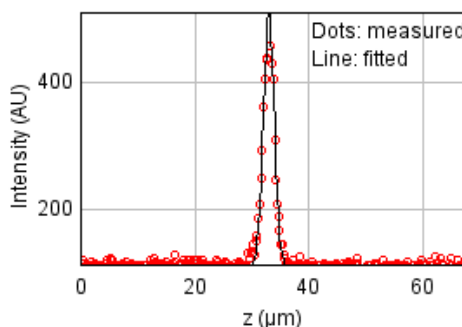 A = -53.674   (brightness)
 B = 169.057   (background)
 a = 0.019 px
 b = 0.019 px
 c = 0.002 px

xc = 1.837 px
yc = 3.580 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 22597.1695
Standard deviation: 8.57942
R^2: 0.98047
Parameters:
 a = 112.62393
 b = 509.57000
 c = 33.05437
 d = 0.94011

Bead 1927 (Rejected)

Date : Mon Oct 17 13:52:45 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -92.0 um (x), -37.4 um (y), 33.5 um (z)
Corresponding bead : Not found
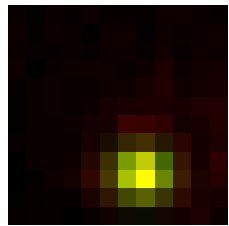Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	473 nm	493 nm	270 nm
max	539 nm	562 nm	270 nm
z	3.86 um	3.87 um	1.3 um
Asymmetry	0.878		
Theta	-4.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
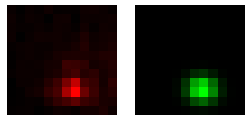
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.888$

Parameters:
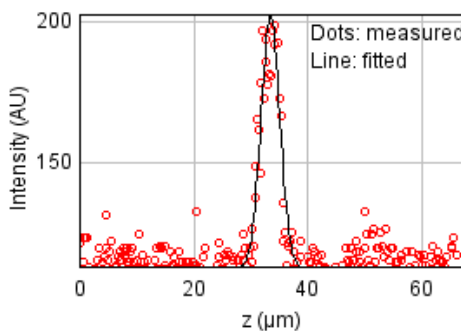 A = 369.132   (brightness)
 B = 129.647   (background)
 a = 0.462 px
 b = -0.011 px
 c = 0.598 px

xc = 6.790 px
yc = 8.692 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 16850.7835
Standard deviation: 7.40868
R^2: 0.85122
Parameters:
 a = 113.14673
 b = 202.55448
 c = 33.52169
 d = 1.63721

Bead 1928

Date : Mon Oct 17 13:52:45 PDT 2022
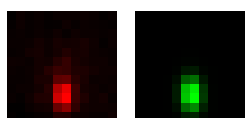Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 130 um (x), -45.6 um (y), 37.0 um (z)
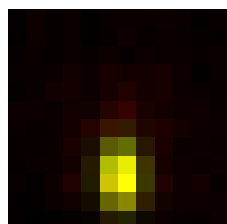Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	407 nm	270 nm
max	618 nm	644 nm	270 nm
z	2.08 um	2.09 um	1.3 um
Asymmetry	0.632		
Theta	-88.4°		

XY profile & fitting parameters :

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

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

Parameters:
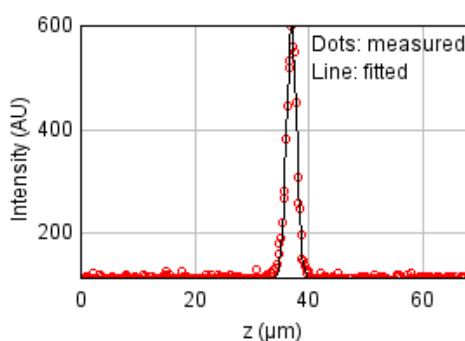 A = 549.541   (brightness)
 B = 127.263   (background)
 a = 0.880 px
 b = -0.015 px
 c = 0.352 px

xc = 5.641 px
yc = 8.588 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 26010.5270
Standard deviation: 9.20461
R^2: 0.98443
Parameters:
 a = 111.38505
 b = 603.54684
 c = 37.04097
 d = 0.88334

Bead 1929

Date : Mon Oct 17 13:52:46 PDT 2022
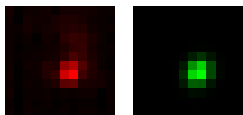Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 62.6 um (x), -47.8 um (y), 36.7 um (z)
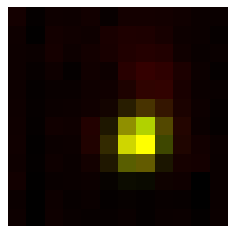Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	431 nm	270 nm
max	493 nm	514 nm	270 nm
z	2.0 um	2.01 um	1.3 um
Asymmetry	0.838		
Theta	60.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.915$

Parameters:
A = 435.209   (brightness)
B = 119.053   (background)
a = 0.726 px
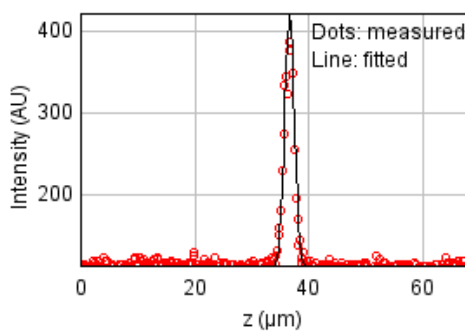b = 0.101 px
c = 0.609 px

xc = 6.662 px
yc = 6.715 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 31412.9687
Standard deviation: 10.11545
R^2: 0.95200
Parameters:
 a = 112.87208
 b = 421.71754
 c = 36.68886
 d = 0.84839

Bead 1930

Date : Mon Oct 17 13:52:46 PDT 2022
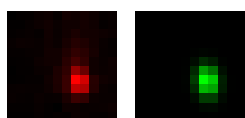Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 136 um (x), -52.7 um (y), 37.3 um (z)
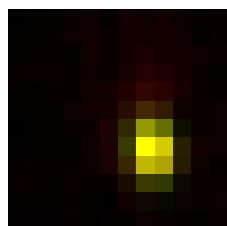Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	397 nm	413 nm	270 nm
max	573 nm	596 nm	270 nm
z	2.04 um	2.05 um	1.3 um
Asymmetry	0.692		
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 = 0.952

Parameters:
A = 662.379   (brightness)
B = 122.266   (background)
a = 0.847 px
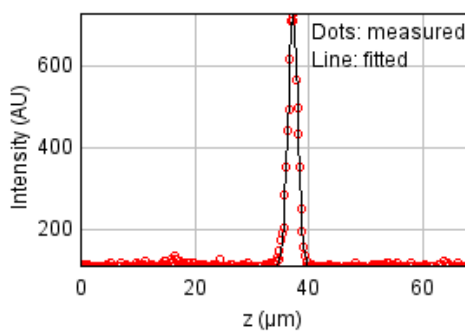b = -0.054 px
c = 0.416 px

xc = 7.375 px
yc = 7.150 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 22973.6442
Standard deviation: 8.65059
R^2: 0.99097
Parameters:
a = 112.71001
b = 727.97463
c = 37.26978
d = 0.86550

Bead 1931 (Rejected)

Date : Mon Oct 17 13:52:46 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -53.8 um (x), -76.1 um (y), 33.5 um (z)
Corresponding bead : Not found
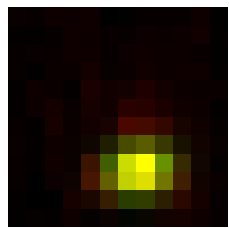Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	481 nm	501 nm	270 nm
max	621 nm	647 nm	270 nm
z	3.1 um	3.11 um	1.3 um
Asymmetry	0.774		
Theta	8.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
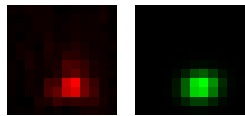
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.915$

Parameters:
A = 456.020   (brightness)
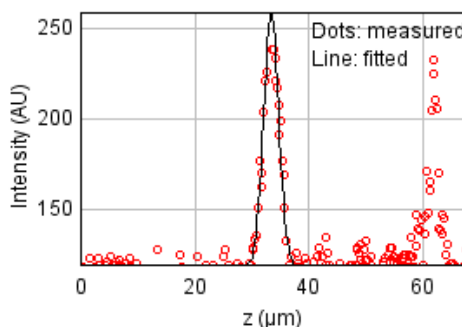B = 126.086   (background)
a = 0.354 px
b = 0.036 px
c = 0.575 px

xc = 6.659 px
yc = 8.403 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 86147.7875
Standard deviation: 16.75147
R^2: 0.68866
Parameters:
a = 119.36819
b = 258.27099
c = 33.46620
d = 1.31654

Bead 1932

Date : Mon Oct 17 13:52:46 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
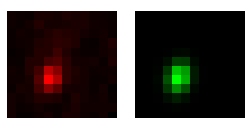Frame size : 12 pixels

Coordinates : 160 um (x), -82.6 um (y), 34.0 um (z)
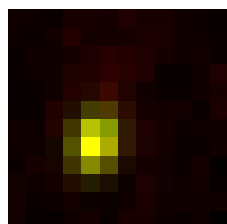Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	413 nm	430 nm	270 nm
max	560 nm	583 nm	270 nm
z	2.22 um	2.23 um	1.3 um
Asymmetry	0.737		
Theta	75.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 270.821   (brightness)
 B = 112.974   (background)
 a = 0.766 px
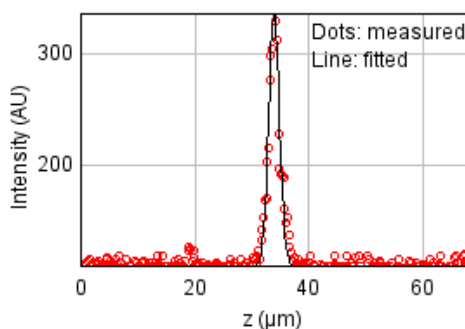 b = 0.086 px
 c = 0.450 px

xc = 4.266 px
yc = 6.754 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 22761.8501
Standard deviation: 8.61062
R^2: 0.94228
Parameters:
 a = 109.51928
 b = 336.27100
 c = 33.97759
 d = 0.94368

Bead 1933

Date : Mon Oct 17 13:52:46 PDT 2022
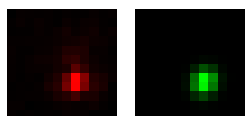Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -18.0 um (x), -84.0 um (y), 37.6 um (z)
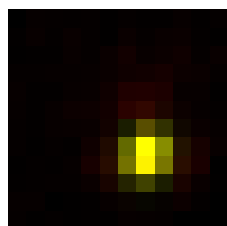Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	419 nm	436 nm	270 nm
max	475 nm	495 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.881		
Theta	66.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.950$

Parameters:
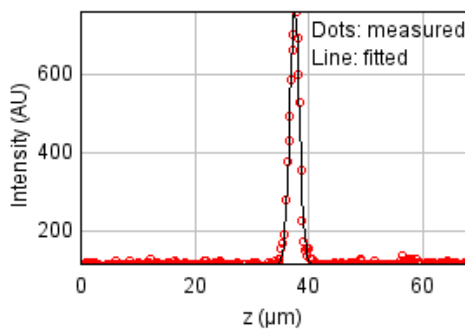A = 731.958   (brightness)
B = 127.355   (background)
a = 0.738 px
b = 0.062 px
c = 0.620 px

xc = 7.058 px
yc = 7.452 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 36965.2936
Standard deviation: 10.97306
R^2: 0.98685
Parameters:
 a = 113.25910
 b = 760.95485
 c = 37.57774
 d = 0.85941

Bead 1934

Date : Mon Oct 17 13:52:46 PDT 2022
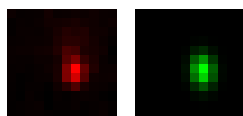Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 101 um (x), 55.1 um (y), 37.2 um (z)
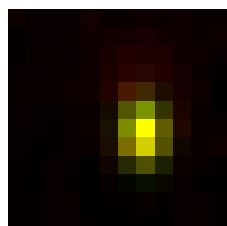Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	598 nm	623 nm	270 nm
z	1.88 um	1.89 um	1.3 um
Asymmetry	0.685		
Theta	-86.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 546.375 (brightness)
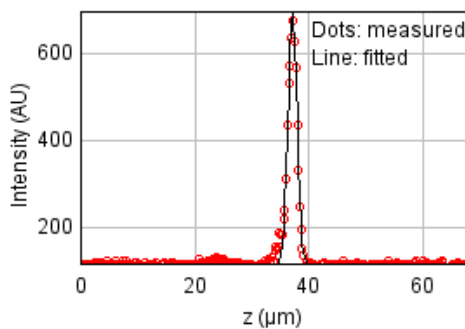 B = 124.908 (background)
 a = 0.797 px
 b = -0.027 px
 c = 0.376 px

xc = 6.878 px
yc = 6.215 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 33131.9501
Standard deviation: 10.38854
R^2: 0.98436
Parameters:
 a = 114.07422
 b = 695.68435
 c = 37.20762
 d = 0.79845

Bead 1935

Date : Mon Oct 17 13:52:47 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
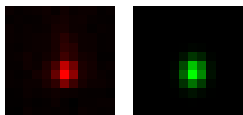Frame size : 12 pixels

Coordinates : -32.8 um (x), -22.5 um (y), 37.3 um (z)
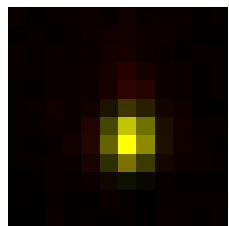Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	412 nm	429 nm	270 nm
max	504 nm	525 nm	270 nm
z	2.08 um	2.09 um	1.3 um
Asymmetry	0.817		
Theta	82.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.959$

Parameters:
A = 739.961   (brightness)
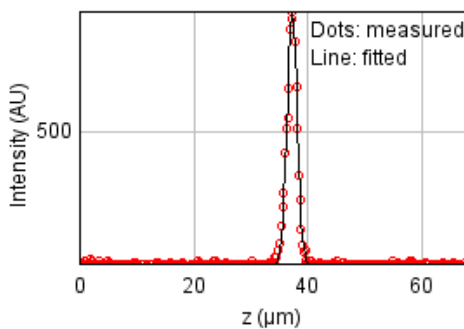B = 129.010   (background)
a = 0.787 px
b = 0.033 px
c = 0.532 px

xc = 6.120 px
yc = 6.736 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 43053.5724
Standard deviation: 11.84228
R^2: 0.98851
Parameters:
a = 114.23920
b = 852.34812
c = 37.31399
d = 0.88460

Bead 1936

Date : Mon Oct 17 13:52:47 PDT 2022
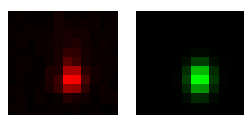Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 102 um (x), -23.4 um (y), 37.4 um (z)
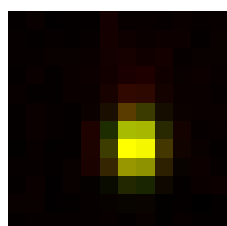Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	428 nm	445 nm	270 nm
max	567 nm	591 nm	270 nm
z	2.16 um	2.16 um	1.3 um
Asymmetry	0.753		
Theta	89.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 622.394   (brightness)
 B = 122.447   (background)
 a = 0.734 px
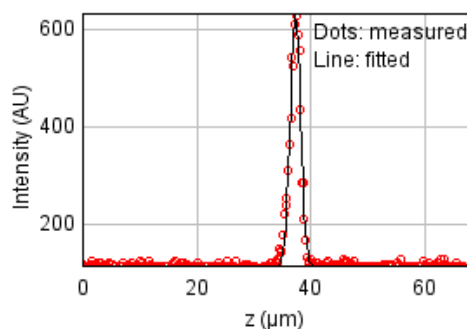 b = 0.002 px
 c = 0.417 px

xc = 6.477 px
yc = 6.867 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 36032.1930
Standard deviation: 10.83368
R^2: 0.98151
Parameters:
 a = 112.45260
 b = 634.43315
 c = 37.36395
 d = 0.91530

Bead 1937

Date : Mon Oct 17 13:52:47 PDT 2022
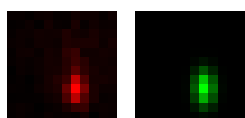Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 131 um (x), -24.7 um (y), 36.0 um (z)
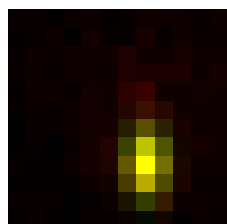Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	374 nm	390 nm	270 nm
max	646 nm	672 nm	270 nm
z	2.62 um	2.63 um	1.3 um
Asymmetry	0.58		
Theta	-89.2°		

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 = 0.934

Parameters:
A = 345.820   (brightness)
B = 120.772   (background)
a = 0.958 px
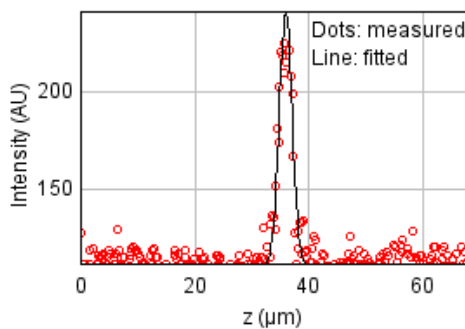b = -0.009 px
c = 0.322 px

xc = 7.062 px
yc = 7.902 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 18918.0332
Standard deviation: 7.84998
R^2: 0.88404
Parameters:
a = 111.21612
b = 241.88621
c = 36.01550
d = 1.11325

Bead 1938

Date : Mon Oct 17 13:52:47 PDT 2022
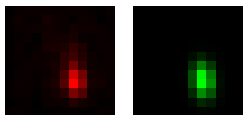Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 163 um (x), -47.3 um (y), 37.3 um (z)
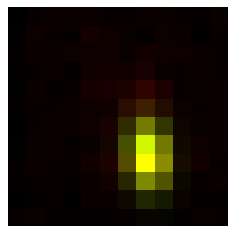Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	382 nm	398 nm	270 nm
max	645 nm	671 nm	270 nm
z	2.24 um	2.25 um	1.3 um
Asymmetry	0.592		
Theta	-85.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.956$

Parameters:
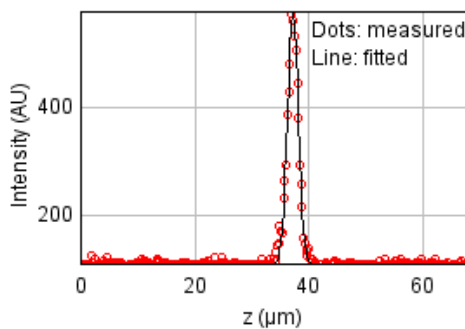A = 512.658   (brightness)
B = 118.551   (background)
a = 0.916 px
b = -0.051 px
c = 0.327 px

xc = 7.143 px
yc = 7.581 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21023.9540
Standard deviation: 8.27538
R^2: 0.98713
Parameters:
a = 110.56581
b = 581.45707
c = 37.27483
d = 0.94977

Bead 1939

Date : Mon Oct 17 13:52:47 PDT 2022
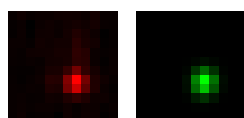Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 84.9 um (x), -49.5 um (y), 37.0 um (z)
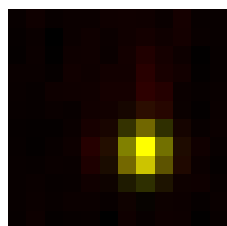Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	422 nm	439 nm	270 nm
max	480 nm	500 nm	270 nm
z	1.8 um	1.81 um	1.3 um
Asymmetry	0.879		
Theta	83.0°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.945$

Parameters:
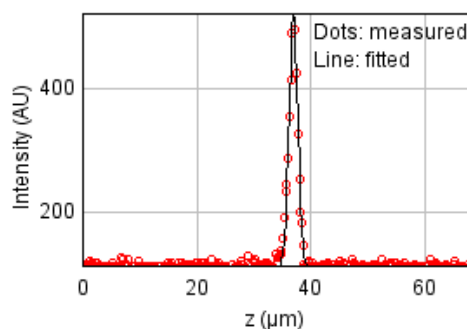 A = 427.045   (brightness)
 B = 118.677   (background)
 a = 0.751 px
 b = 0.021 px
 c = 0.585 px

 xc = 6.944 px
 yc = 7.278 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18764.9524
Standard deviation: 7.81816
R^2: 0.98146
Parameters:
 a = 112.63355
 b = 522.49407
 c = 37.02059
 d = 0.76445

Bead 1940

Date : Mon Oct 17 13:52:47 PDT 2022
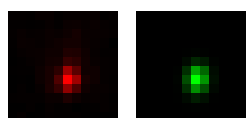Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 51.5 um (x), -94.0 um (y), 37.5 um (z)
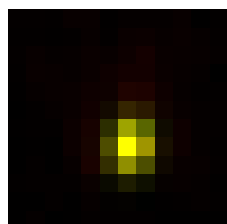Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	392 nm	408 nm	270 nm
max	512 nm	533 nm	270 nm
z	2.01 um	2.01 um	1.3 um
Asymmetry	0.766		
Theta	84.7°		

XY profile & fitting parameters :

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

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

Parameters:
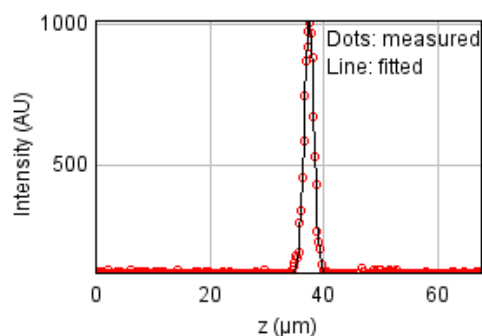 A = 874.383   (brightness)
 B = 125.773   (background)
 a = 0.869 px
 b = 0.033 px
 c = 0.515 px

xc = 6.193 px
yc = 6.921 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 26717.9367
Standard deviation: 9.32894
R^2: 0.99504
Parameters:
 a = 114.23596
 b = 1018.91414
 c = 37.47785
 d = 0.85163

Bead 1941

Date : Mon Oct 17 13:52:47 PDT 2022
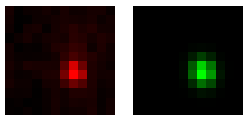Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -159 um (x), 65.5 um (y), 36.7 um (z)
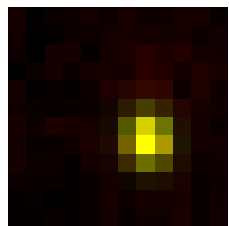Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	428 nm	446 nm	270 nm
max	512 nm	533 nm	270 nm
z	2.1 um	2.11 um	1.3 um
Asymmetry	0.836		
Theta	-80.5°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.931$

Parameters:
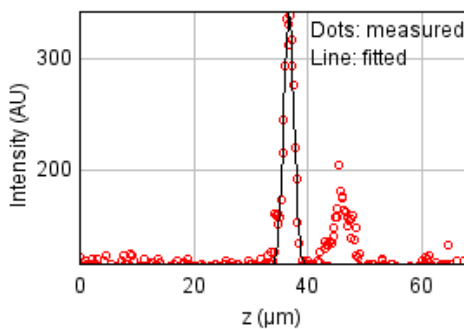 A = 229.110   (brightness)
 B = 114.132   (background)
 a = 0.726 px
 b = -0.036 px
 c = 0.518 px

xc = 7.131 px
yc = 6.700 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 66431.1098
Standard deviation: 14.71013
R^2: 0.84178
Parameters:
 a = 114.59820
 b = 341.87602
 c = 36.74355
 d = 0.89079

Bead 1942

Date : Mon Oct 17 13:52:47 PDT 2022
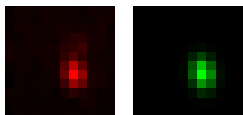Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -18.7 um (x), 65.5 um (y), 37.4 um (z)
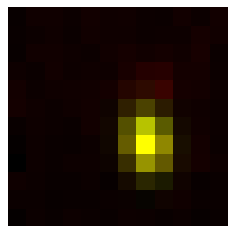Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	399 nm	416 nm	270 nm
max	581 nm	605 nm	270 nm
z	2.09 um	2.1 um	1.3 um
Asymmetry	0.688		
Theta	-81.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.960$

Parameters:
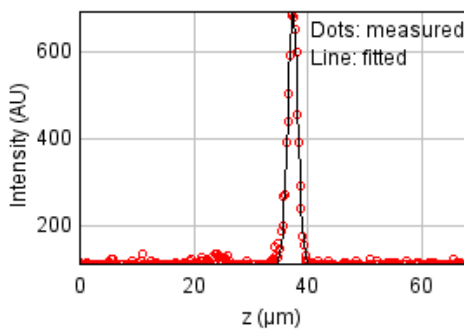A = 558.609   (brightness)
B = 121.941   (background)
a = 0.831 px
b = -0.066 px
c = 0.408 px

xc = 7.105 px
yc = 6.845 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 29180.0640
Standard deviation: 9.74931
R^2: 0.98723
Parameters:
 a = 114.79553
 b = 689.53449
 c = 37.42963
 d = 0.88922

Bead 1943

Date : Mon Oct 17 13:52:47 PDT 2022
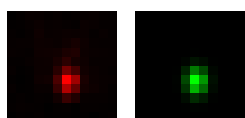Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -6.11 um (x), 50.2 um (y), 37.9 um (z)
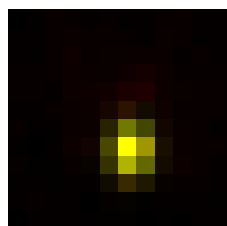Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	387 nm	403 nm	270 nm
max	493 nm	513 nm	270 nm
z	1.91 um	1.92 um	1.3 um
Asymmetry	0.785		
Theta	89.7°		

XY profile & fitting parameters :

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

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

Parameters:
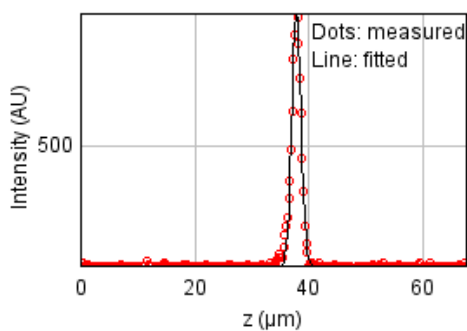 A = 901.752   (brightness)
 B = 125.548   (background)
 a = 0.898 px
 b = 0.002 px
 c = 0.553 px
 xc = 6.206 px
 yc = 7.177 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 39020.3483
Standard deviation: 11.27396
R^2: 0.99061
Parameters:
 a = 114.53896
 b = 925.43813
 c = 37.89783
 d = 0.81187

Bead 1944

Date : Mon Oct 17 13:52:48 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
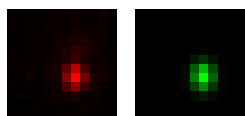Frame size : 12 pixels

Coordinates : -102 um (x), 26.3 um (y), 37.7 um (z)
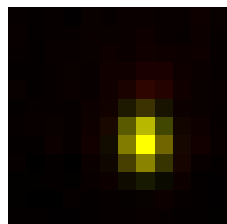Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	420 nm	270 nm
max	518 nm	540 nm	270 nm
z	2.04 um	2.05 um	1.3 um
Asymmetry	0.777		
Theta	-88.6°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.964$

  Parameters:
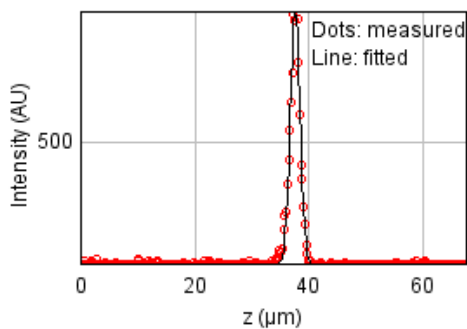 A = 769.554   (brightness)
  B = 125.748   (background)
  a = 0.826 px
  b = -0.008 px
  c = 0.500 px

  xc = 6.936 px
  yc = 6.829 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 51654.8226
Standard deviation: 12.97138
R^2: 0.98796
Parameters:
 a = 114.45970
 b = 911.66126
 c = 37.67587
 d = 0.86715

Bead 1945

Date : Mon Oct 17 13:52:48 PDT 2022
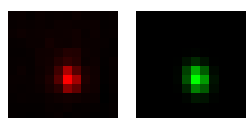Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -7.44 um (x), 19.7 um (y), 37.8 um (z)
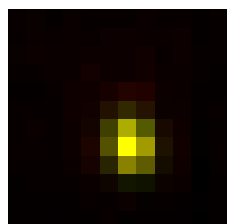Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	399 nm	416 nm	270 nm
max	509 nm	530 nm	270 nm
z	2.08 um	2.09 um	1.3 um
Asymmetry	0.784		
Theta	-75.8°		

XY profile & fitting parameters :

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

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

Parameters:
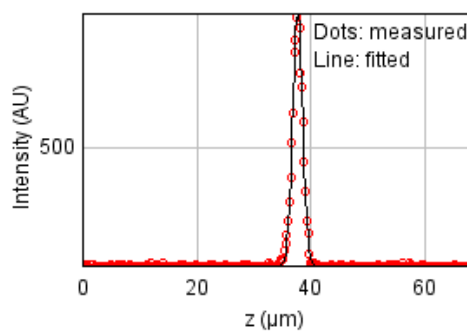 A = 908.162   (brightness)
 B = 125.530   (background)
 a = 0.823 px
 b = -0.077 px
 c = 0.538 px

xc = 6.186 px
yc = 6.890 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 25656.6745
Standard deviation: 9.14178
R^2: 0.99454
Parameters:
 a = 114.16915
 b = 943.72011
 c = 37.76460
 d = 0.88375

Bead 1946

Date : Mon Oct 17 13:52:48 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
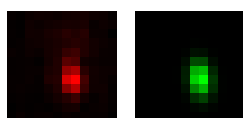Frame size : 12 pixels

Coordinates : 143 um (x), -4.71 um (y), 37.2 um (z)
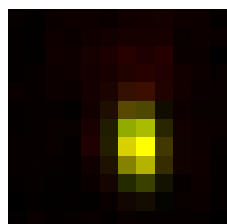Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	393 nm	409 nm	270 nm
max	642 nm	669 nm	270 nm
z	2.09 um	2.1 um	1.3 um
Asymmetry	0.612		
Theta	-84.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.939$

Parameters:
A = 493.216   (brightness)
B = 118.755   (background)
a = 0.865 px
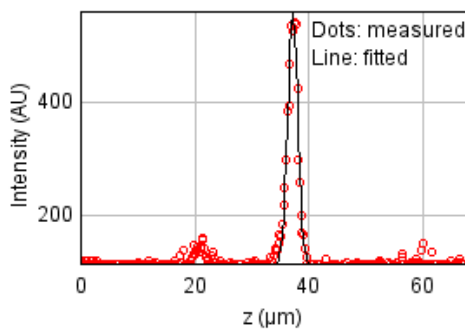b = -0.057 px
c = 0.332 px

xc = 6.613 px
yc = 6.895 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 44403.4110
Standard deviation: 12.02649
R^2: 0.96854
Parameters:
 a = 114.05688
 b = 561.30927
 c = 37.24991
 d = 0.88964

Bead 1947

Date : Mon Oct 17 13:52:48 PDT 2022
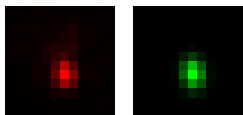Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 8.15 um (x), -10.6 um (y), 37.7 um (z)
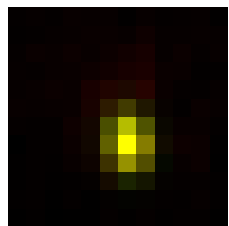Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	397 nm	413 nm	270 nm
max	561 nm	584 nm	270 nm
z	2.14 um	2.15 um	1.3 um
Asymmetry	0.708		
Theta	-83.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.966$

Parameters:
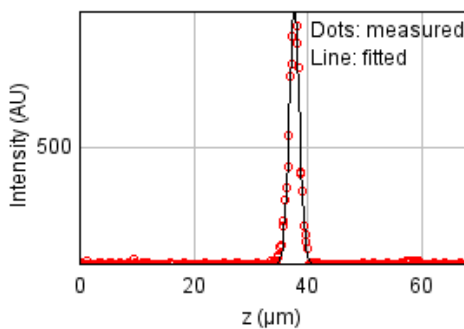A = 843.575   (brightness)
B = 129.709   (background)
a = 0.846 px
b = -0.049 px
c = 0.432 px

xc = 6.065 px
yc = 6.860 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 64775.5138
Standard deviation: 14.52567
R^2: 0.98711
Parameters:
a = 114.32388
b = 958.33869
c = 37.70538
d = 0.90742

Bead 1948

Date : Mon Oct 17 13:52:48 PDT 2022
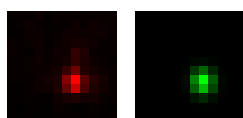Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -76.4 um (x), -16.0 um (y), 38.0 um (z)
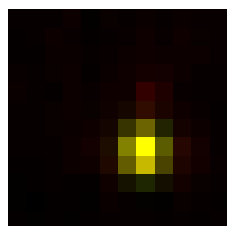Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	396 nm	412 nm	270 nm
max	461 nm	481 nm	270 nm
z	2.08 um	2.09 um	1.3 um
Asymmetry	0.858		
Theta	-87.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.951$

Parameters:
A = 921.541   (brightness)
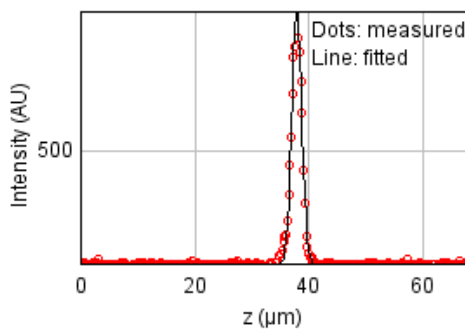B = 131.695   (background)
a = 0.857 px
b = -0.010 px
c = 0.631 px

xc = 6.899 px
yc = 7.241 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 37957.7175
Standard deviation: 11.11939
R^2: 0.99254
Parameters:
 a = 114.22473
 b = 976.88370
 c = 37.95954
 d = 0.88329

Bead 1949

Date : Mon Oct 17 13:52:48 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
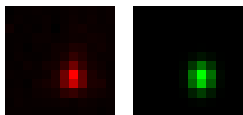Frame size : 12 pixels

Coordinates : -116 um (x), -22.2 um (y), 37.4 um (z)
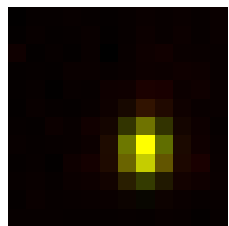Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	514 nm	535 nm	270 nm
z	2.03 um	2.04 um	1.3 um
Asymmetry	0.797		
Theta	86.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.968$

Parameters:
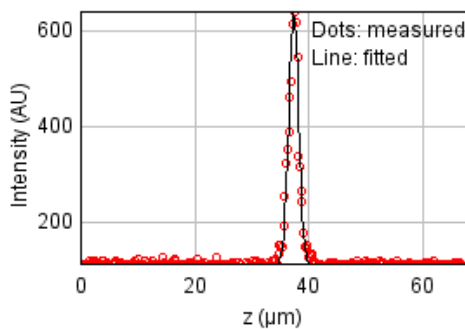A = 590.547   (brightness)
B = 120.081   (background)
a = 0.799 px
b = 0.019 px
c = 0.509 px

xc = 6.966 px
yc = 7.284 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 45594.4263
Standard deviation: 12.18672
R^2: 0.97589
Parameters:
a = 113.11962
b = 640.22932
c = 37.41209
d = 0.86353

Bead 1950

Date : Mon Oct 17 13:52:49 PDT 2022
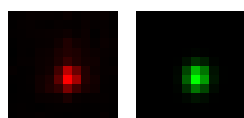Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -121 um (x), -66.9 um (y), 37.6 um (z)
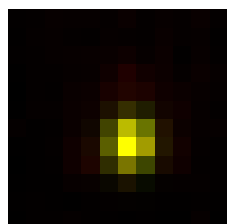Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	425 nm	443 nm	270 nm
max	495 nm	515 nm	270 nm
z	2.11 um	2.12 um	1.3 um
Asymmetry	0.86		
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 = 0.967

Parameters:
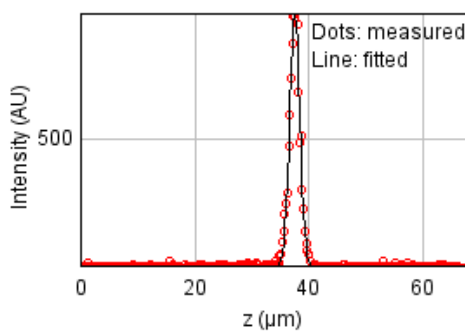A = 768.880   (brightness)
B = 126.345   (background)
a = 0.741 px
b = 0.010 px
c = 0.548 px

xc = 6.170 px
yc = 6.784 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 36774.3980
Standard deviation: 10.94469
R^2: 0.99105
Parameters:
a = 112.77729
b = 881.60080
c = 37.60146
d = 0.89712

Bead 1951 (Rejected)

Date : Mon Oct 17 13:52:49 PDT 2022
Origin : data_traditional.tif   (Nikon 40x0.95 air)
Frame size : 12 pixels

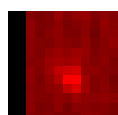Coordinates : -164 um (x), 94.7 um (y), 36.1 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

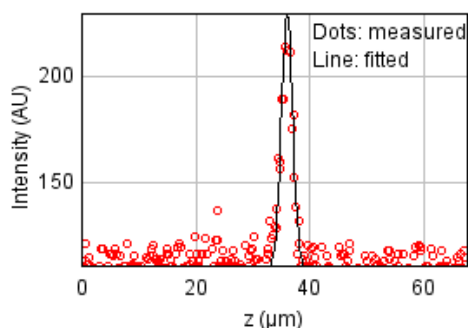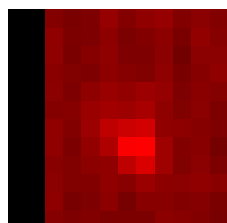| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	2.29 um	2.3 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on $y = a + (b-a) \cdot exp(-(x-c)^2/(2 \cdot d^2))$
Sum of residuals squared: 15267.7878
Standard deviation: 7.05211
R^2: 0.87447
Parameters:
 a = 110.51772
 b = 230.00104
 c = 36.08321
 d = 0.97442

Bead 1952

Date : Mon Oct 17 13:52:49 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
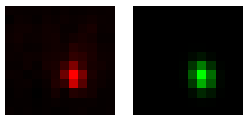Frame size : 12 pixels

Coordinates : -74.1 um (x), 89.8 um (y), 37.9 um (z)
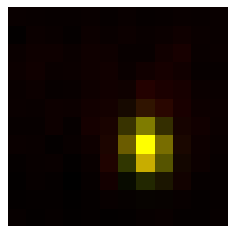Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	375 nm	391 nm	270 nm
max	496 nm	516 nm	270 nm
z	1.93 um	1.94 um	1.3 um
Asymmetry	0.757		
Theta	-80.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.953$

Parameters:
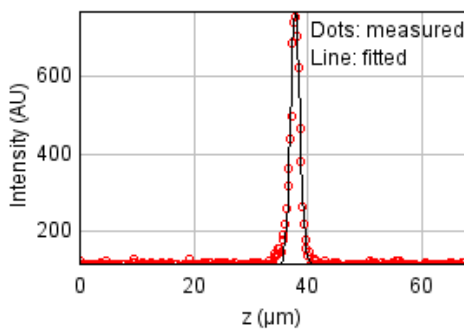A = 659.184   (brightness)
B = 125.171   (background)
a = 0.941 px
b = -0.067 px
c = 0.558 px

xc = 7.057 px
yc = 7.158 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 39807.0291
Standard deviation: 11.38704
R^2: 0.98556
Parameters:
 a = 113.83681
 b = 768.89252
 c = 37.86488
 d = 0.82096

Bead 1953

Date : Mon Oct 17 13:52:49 PDT 2022
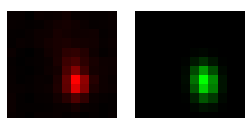Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 87.1 um (x), 79.3 um (y), 38.2 um (z)
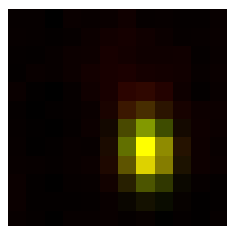Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	430 nm	448 nm	270 nm
max	620 nm	646 nm	270 nm
z	1.94 um	1.95 um	1.3 um
Asymmetry	0.694		
Theta	-83.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 564.387   (brightness)
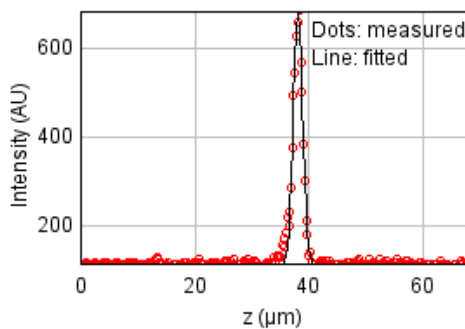 B = 123.511   (background)
 a = 0.720 px
 b = -0.045 px
 c = 0.354 px

xc = 7.091 px
yc = 7.237 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 32239.4392
Standard deviation: 10.24766
R^2: 0.98474
Parameters:
 a = 113.85241
 b = 686.47441
 c = 38.17603
 d = 0.82314

Bead 1954

Date : Mon Oct 17 13:52:49 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
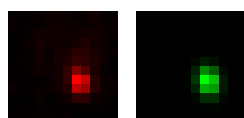Frame size : 12 pixels

Coordinates : 14.6 um (x), 66.5 um (y), 37.8 um (z)
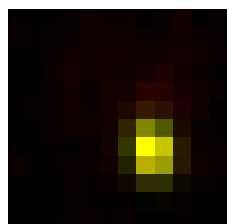Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	383 nm	399 nm	270 nm
max	522 nm	543 nm	270 nm
z	2.05 um	2.05 um	1.3 um
Asymmetry	0.734		
Theta	-79.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 684.819   (brightness)
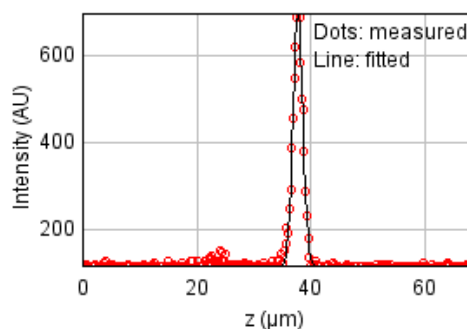 B = 127.002   (background)
 a = 0.901 px
 b = -0.074 px
 c = 0.506 px

xc = 7.367 px
yc = 7.181 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 29596.8427
Standard deviation: 9.81869
R^2: 0.98705
Parameters:
 a = 115.61320
 b = 696.64878
 c = 37.81027
 d = 0.86873

Bead 1955

Date : Mon Oct 17 13:52:49 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
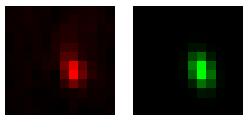Frame size : 12 pixels

Coordinates : 63.4 um (x), 57.2 um (y), 37.7 um (z)
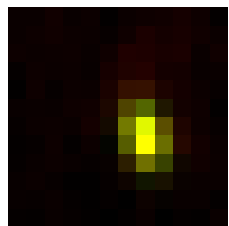Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	371 nm	387 nm	270 nm
max	590 nm	615 nm	270 nm
z	2.22 um	2.23 um	1.3 um
Asymmetry	0.629		
Theta	-74.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.943$

Parameters:
 A = 469.012   (brightness)
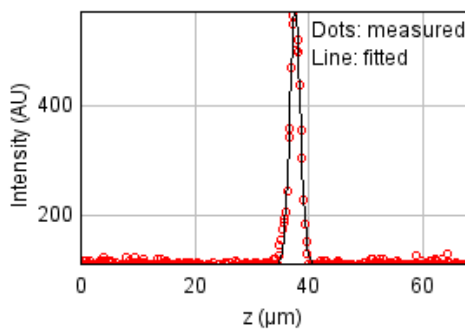 B = 123.867   (background)
 a = 0.929 px
 b = -0.154 px
 c = 0.429 px

xc = 6.968 px
yc = 6.527 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 23433.4371
Standard deviation: 8.73673
R^2: 0.98463
Parameters:
 a = 113.21440
 b = 569.43809
 c = 37.65324
 d = 0.94130

Bead 1956

Date : Mon Oct 17 13:52:50 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
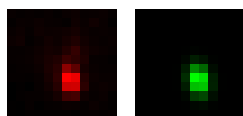Frame size : 12 pixels

Coordinates : 34.2 um (x), 53.7 um (y), 37.9 um (z)
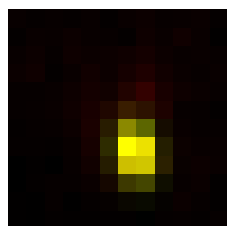Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	375 nm	390 nm	270 nm
max	549 nm	572 nm	270 nm
z	2.17 um	2.18 um	1.3 um
Asymmetry	0.683		
Theta	-80.3°		

XY profile & fitting parameters :

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

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

R^2 = 0.964

Parameters:
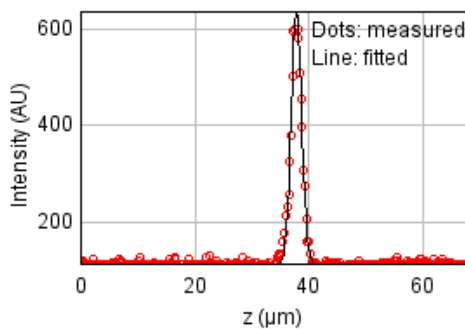 A = 720.679   (brightness)
 B = 126.476   (background)
 a = 0.941 px
 b = -0.084 px
 c = 0.460 px

xc = 6.455 px
yc = 7.265 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 27425.0626
Standard deviation: 9.45158
R^2: 0.98594
Parameters:
 a = 114.04694
 b = 635.65281
 c = 37.89569
 d = 0.92167

Bead 1957

Date : Mon Oct 17 13:52:50 PDT 2022
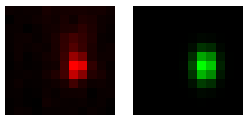Origin : data_traditional.tif   (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 90.5 um (x), 48.9 um (y), 37.5 um (z)
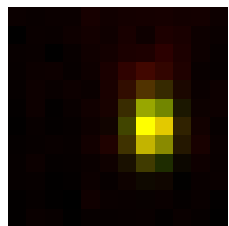Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	417 nm	434 nm	270 nm
max	591 nm	615 nm	270 nm
z	2.04 um	2.05 um	1.3 um
Asymmetry	0.706		
Theta	88.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.926$

Parameters:
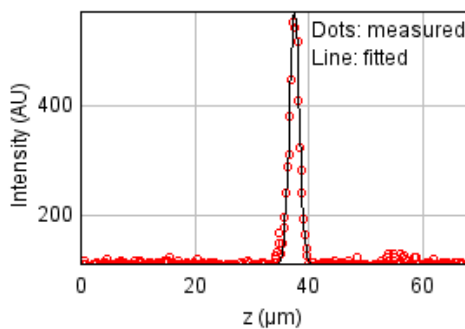 A = 459.627   (brightness)
 B = 120.520   (background)
 a = 0.772 px
 b = 0.010 px
 c = 0.385 px

xc = 7.343 px
yc = 6.039 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 30283.5960
Standard deviation: 9.93195
R^2: 0.97867
Parameters:
 a = 113.34640
 b = 570.10259
 c = 37.53995
 d = 0.86590

Bead 1958 (Rejected)

Date : Mon Oct 17 13:52:50 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

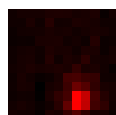Coordinates : 37.0 um (x), 27.2 um (y), 34.9 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

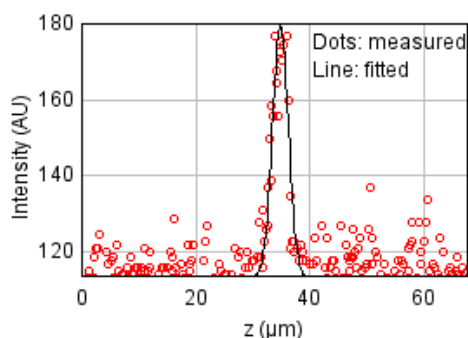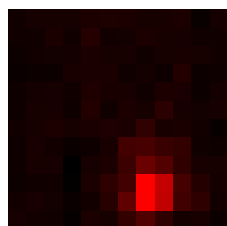| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	3.25 um	3.26 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 14406.1923
Standard deviation: 6.85023
R^2: 0.76152
Parameters:
 a = 113.50466
 b = 180.30892
 c = 34.90250
 d = 1.37891

Bead 1959

Date : Mon Oct 17 13:52:50 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
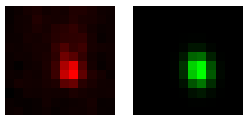Frame size : 12 pixels

Coordinates : 148 um (x), 8.36 um (y), 37.6 um (z)
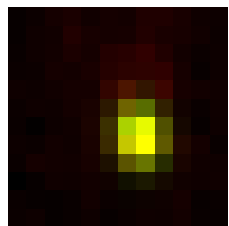Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	452 nm	470 nm	270 nm
max	583 nm	607 nm	270 nm
z	2.29 um	2.3 um	1.3 um
Asymmetry	0.775		
Theta	-81.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.920$

Parameters:
 A = 383.382   (brightness)
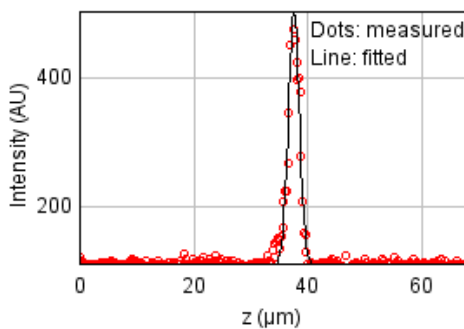 B = 119.774   (background)
 a = 0.652 px
 b = -0.039 px
 c = 0.401 px

xc = 6.660 px
yc = 6.493 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 34483.8712
Standard deviation: 10.59836
R^2: 0.97037
Parameters:
 a = 112.14171
 b = 501.79348
 c = 37.62361
 d = 0.97269

Bead 1960

Date : Mon Oct 17 13:52:50 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
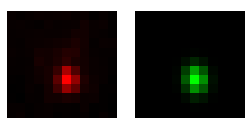Frame size : 12 pixels

Coordinates : 10.2 um (x), -19.9 um (y), 37.9 um (z)
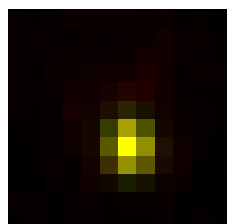Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	419 nm	270 nm
max	512 nm	534 nm	270 nm
z	2.12 um	2.13 um	1.3 um
Asymmetry	0.786		
Theta	-83.6°		

XY profile & fitting parameters :

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

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

Parameters:
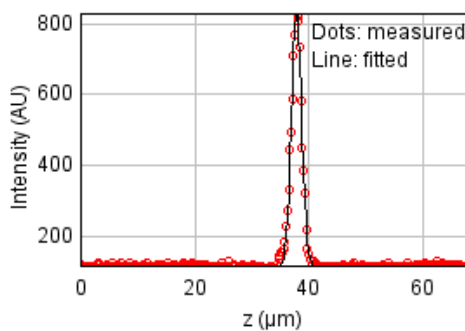A = 721.982   (brightness)
B = 127.612   (background)
a = 0.823 px
b = -0.035 px
c = 0.515 px

xc = 6.140 px
yc = 6.956 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 25378.7488
Standard deviation: 9.09214
R^2: 0.99294
Parameters:
 a = 113.76777
 b = 832.28043
 c = 37.92052
 d = 0.90081

Bead 1961

Date : Mon Oct 17 13:52:50 PDT 2022
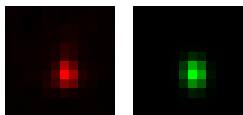Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -24.6 um (x), -48.3 um (y), 37.9 um (z)
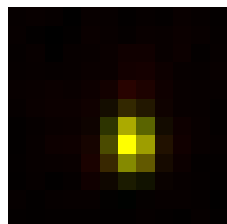Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	395 nm	412 nm	270 nm
max	512 nm	533 nm	270 nm
z	2.14 um	2.15 um	1.3 um
Asymmetry	0.773		
Theta	-86.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 873.612   (brightness)
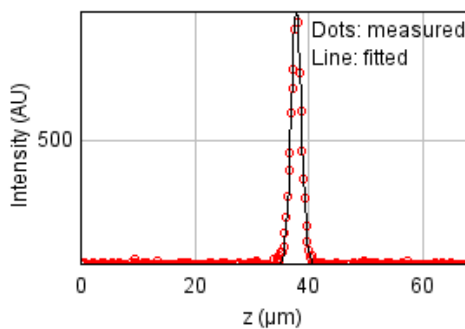 B = 129.138   (background)
 a = 0.857 px
 b = -0.023 px
 c = 0.514 px

xc = 6.215 px
yc = 6.908 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 39678.9143
Standard deviation: 11.36870
R^2: 0.99105
Parameters:
 a = 113.47784
 b = 906.73185
 c = 37.86775
 d = 0.90979

Bead 1962

Date : Mon Oct 17 13:52:50 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
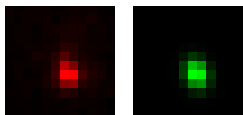Frame size : 12 pixels

Coordinates : 30.2 um (x), -48.9 um (y), 37.8 um (z)
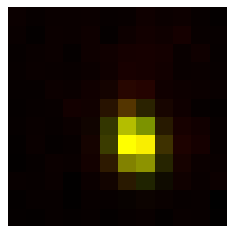Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	412 nm	429 nm	270 nm
max	543 nm	565 nm	270 nm
z	2.06 um	2.07 um	1.3 um
Asymmetry	0.76		
Theta	-72.7°		

XY profile & fitting parameters :

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

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

Parameters:
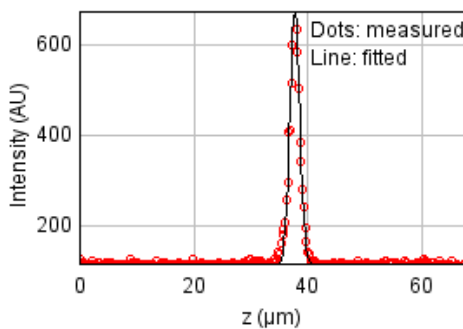 A = 686.649   (brightness)
 B = 123.239   (background)
 a = 0.760 px
 b = -0.095 px
 c = 0.485 px

xc = 6.441 px
yc = 6.892 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 31253.5329
Standard deviation: 10.08975
R^2: 0.98548
Parameters:
 a = 113.58546
 b = 675.09897
 c = 37.78946
 d = 0.87494

Bead 1963

Date : Mon Oct 17 13:52:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
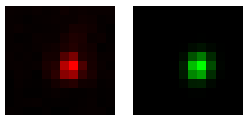Frame size : 12 pixels

Coordinates : -40.8 um (x), -51.4 um (y), 37.7 um (z)
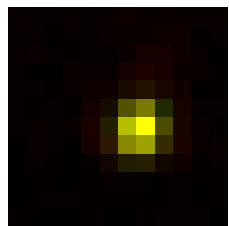Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	418 nm	435 nm	270 nm
max	482 nm	502 nm	270 nm
z	1.96 um	1.97 um	1.3 um
Asymmetry	0.867		
Theta	72.8°		

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

$R^2 = 0.972$

Parameters:
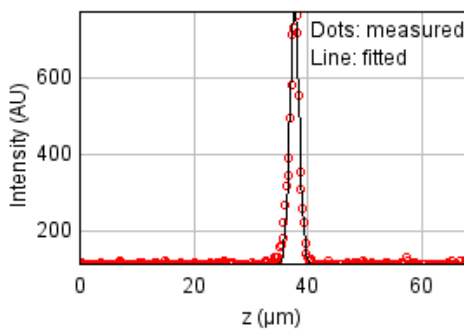A = 752.405   (brightness)
B = 124.116   (background)
a = 0.752 px
b = 0.054 px
c = 0.594 px

xc = 6.686 px
yc = 6.147 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 57675.8098
Standard deviation: 13.70653
R^2: 0.97998
Parameters:
a = 113.47799
b = 776.71027
c = 37.74701
d = 0.83314

Bead 1964

Date : Mon Oct 17 13:52:51 PDT 2022
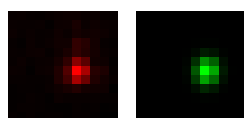Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -69.9 um (x), -56.7 um (y), 38.0 um (z)
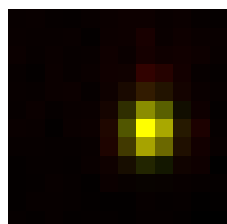Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	422 nm	439 nm	270 nm
max	507 nm	528 nm	270 nm
z	2.09 um	2.09 um	1.3 um
Asymmetry	0.831		
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 = 0.959

Parameters:
A = 680.722   (brightness)
B = 125.137   (background)
a = 0.754 px
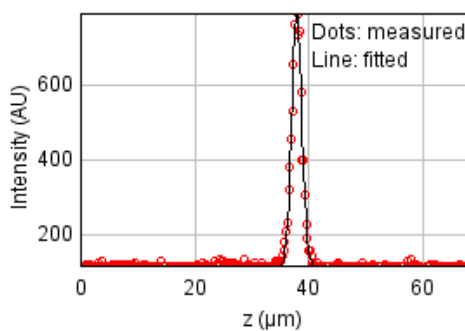b = 0.015 px
c = 0.522 px

xc = 7.220 px
yc = 6.063 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 31895.9811
Standard deviation: 10.19292
R^2: 0.98994
Parameters:
 a = 114.65348
 b = 793.88397
 c = 37.95919
 d = 0.88548

Bead 1965

Date : Mon Oct 17 13:52:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
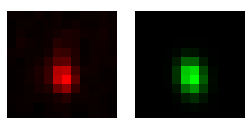Frame size : 12 pixels

Coordinates : 116 um (x), -85.6 um (y), 37.7 um (z)
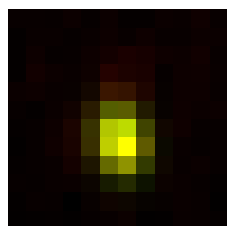Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	456 nm	475 nm	270 nm
max	626 nm	652 nm	270 nm
z	2.03 um	2.03 um	1.3 um
Asymmetry	0.729		
Theta	-78.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.966$

Parameters:
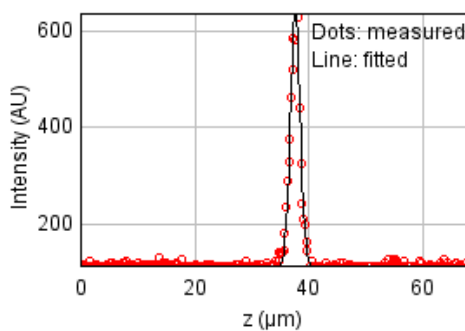A = 477.652   (brightness)
B = 118.019   (background)
a = 0.635 px
b = -0.058 px
c = 0.354 px

xc = 5.640 px
yc = 6.661 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 39841.9007
Standard deviation: 11.39202
R^2: 0.97865
Parameters:
a = 112.14298
b = 637.50205
c = 37.70323
d = 0.86019

Bead 1966

Date : Mon Oct 17 13:52:51 PDT 2022
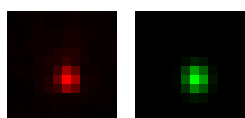Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 16.8 um (x), -89.2 um (y), 37.9 um (z)
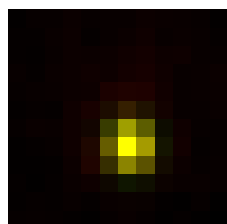Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	421 nm	439 nm	270 nm
max	486 nm	506 nm	270 nm
z	2.06 um	2.06 um	1.3 um
Asymmetry	0.867		
Theta	-84.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.967$

Parameters:
A = 793.654   (brightness)
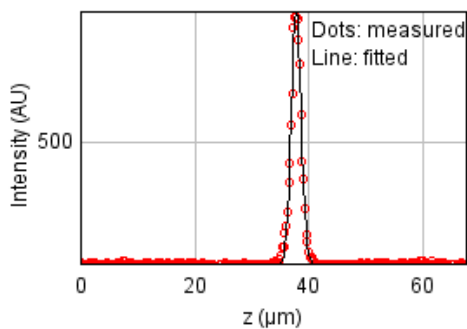B = 125.529   (background)
a = 0.755 px
b = -0.017 px
c = 0.570 px

xc = 6.165 px
yc = 6.923 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 26423.0931
Standard deviation: 9.27732
R^2: 0.99385
Parameters:
a = 113.37561
b = 910.68903
c = 37.85670
d = 0.87329

Bead 1967

Date : Mon Oct 17 13:52:51 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
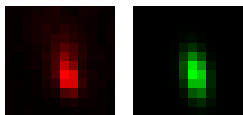Frame size : 12 pixels

Coordinates : 129 um (x), 94.1 um (y), 38.4 um (z)
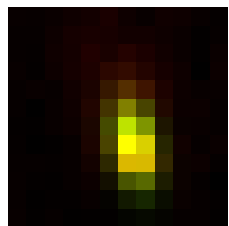Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	431 nm	270 nm
max	810 nm	843 nm	270 nm
z	2.12 um	2.13 um	1.3 um
Asymmetry	0.511		
Theta	-79.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 662.239   (brightness)
 B = 129.079   (background)
 a = 0.764 px
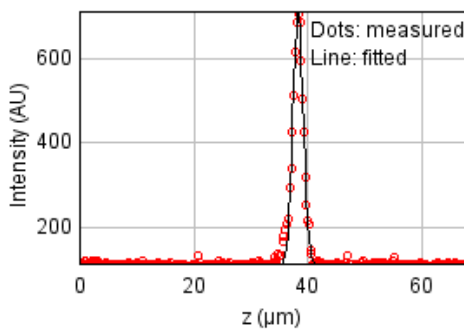 b = -0.106 px
 c = 0.225 px

xc = 6.355 px
yc = 6.938 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 30548.2691
Standard deviation: 9.97526
R^2: 0.98798
Parameters:
 a = 112.16744
 b = 714.75843
 c = 38.35876
 d = 0.90062

Bead 1968 (Rejected)

Date : Mon Oct 17 13:52:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

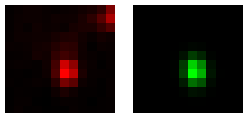Coordinates : -3.68 um (x), 75.4 um (y), 38.2 um (z)
Corresponding bead : Not found
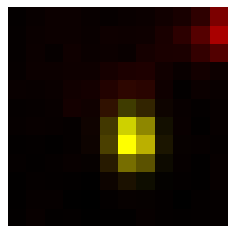Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	389 nm	405 nm	270 nm
max	509 nm	530 nm	270 nm
z	2.07 um	2.08 um	1.3 um
Asymmetry	0.764		
Theta	-84.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.729$

Parameters:
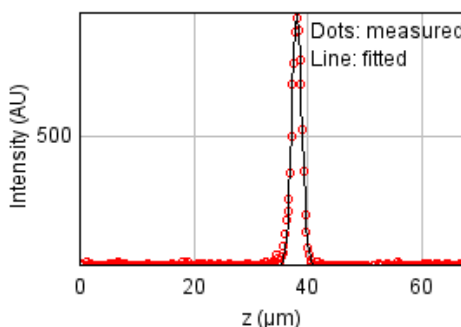 A = 795.273   (brightness)
 B = 142.452   (background)
 a = 0.883 px
 b = -0.033 px
 c = 0.521 px

xc = 6.279 px
yc = 6.711 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 28150.4454
Standard deviation: 9.57576
R^2: 0.99273
Parameters:
 a = 114.86504
 b = 869.16037
 c = 38.15333
 d = 0.87949

Bead 1969 (Rejected)

Date : Mon Oct 17 13:52:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -42.5 um (x), 69.2 um (y), 8.43 um (z)
Corresponding bead : Not found
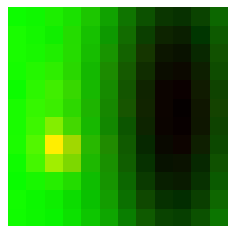Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	1.52 um	1.59 um	270 nm
max	4.03 um	4.2 um	270 nm
z	1.75 um	1.75 um	1.3 um
Asymmetry	0.378		
Theta	89.7°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
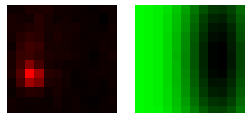
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.198$

Parameters:
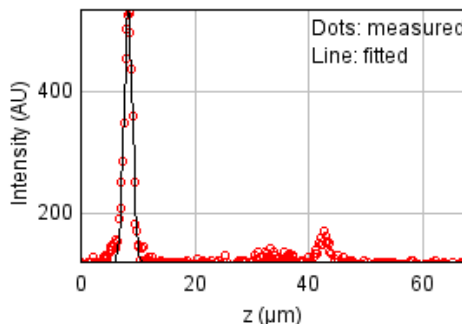 A = -57.651   (brightness)
 B = 168.987   (background)
 a = 0.058 px
 b = 0.000 px
 c = -0.008 px

xc = 8.651 px
yc = 5.132 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 43571.6209
Standard deviation: 11.91332
R^2: 0.95859
Parameters:
 a = 118.61459
 b = 537.62450
 c = 8.42538
 d = 0.74186

Bead 1970 (Rejected)

Date : Mon Oct 17 13:52:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 103 um (x), 47.7 um (y), 34.5 um (z)
Corresponding bead : Not found
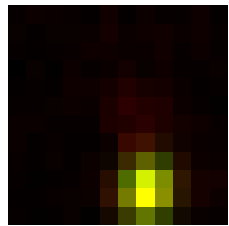Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	448 nm	467 nm	270 nm
max	565 nm	589 nm	270 nm
z	3.41 um	3.42 um	1.3 um
Asymmetry	0.793		
Theta	83.8°		

XY profile & fitting parameters :

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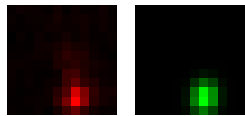
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.921$

Parameters:
 A = 439.437   (brightness)
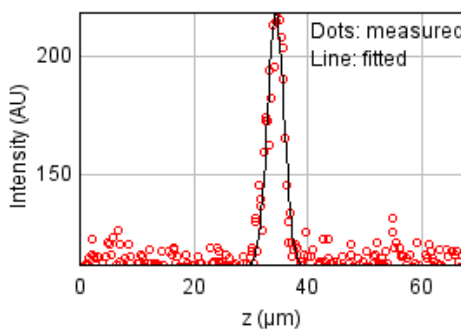 B = 123.357   (background)
 a = 0.665 px
 b = 0.027 px
 c = 0.423 px

xc = 7.078 px
yc = 9.567 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 14384.5657
Standard deviation: 6.84509
R^2: 0.89537
Parameters:
 a = 111.91508
 b = 218.79392
 c = 34.45366
 d = 1.44706

Bead 1971

Date : Mon Oct 17 13:52:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
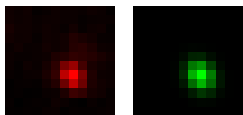Frame size : 12 pixels

Coordinates : -75.7 um (x), 25.2 um (y), 38.3 um (z)
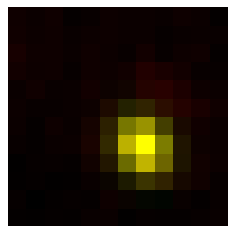Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	478 nm	497 nm	270 nm
max	573 nm	597 nm	270 nm
z	1.94 um	1.95 um	1.3 um
Asymmetry	0.833		
Theta	-61.3°		

XY profile & fitting parameters :

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

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

Parameters:
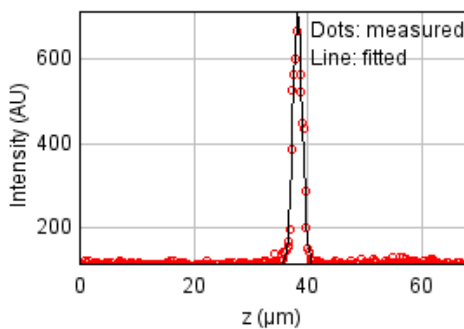 A = 612.016   (brightness)
 B = 126.458   (background)
 a = 0.547 px
 b = -0.076 px
 c = 0.450 px

xc = 6.849 px
yc = 7.086 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 46547.8571
Standard deviation: 12.31348
R^2: 0.97989
Parameters:
 a = 113.71856
 b = 711.45155
 c = 38.28189
 d = 0.82340

Bead 1972 (Rejected)

Date : Mon Oct 17 13:52:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -130 um (x), 18.2 um (y), 35.9 um (z)
Corresponding bead : Not found
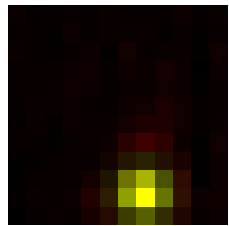Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	447 nm	466 nm	270 nm
max	466 nm	485 nm	270 nm
z	3.87 um	3.88 um	1.3 um
Asymmetry	0.961		
Theta	-7.0°		

XY profile & fitting parameters :

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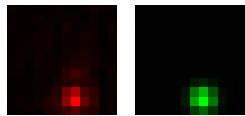
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.921$

Parameters:
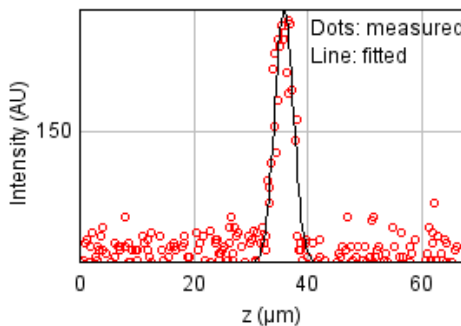 A = 425.408   (brightness)
 B = 120.583   (background)
 a = 0.620 px
 b = -0.006 px
 c = 0.669 px

xc = 6.871 px
yc = 9.758 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 16762.6474
Standard deviation: 7.38928
R^2: 0.80472
Parameters:
 a = 111.13620
 b = 186.71339
 c = 35.90767
 d = 1.64213

Bead 1973 (Rejected)

Date : Mon Oct 17 13:52:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 64.8 um (x), -2.31 um (y), 34.3 um (z)
Corresponding bead : Not found
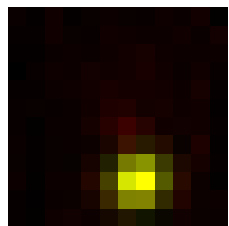Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	458 nm	477 nm	270 nm
max	498 nm	519 nm	270 nm
z	4.0 um	4.01 um	1.3 um
Asymmetry	0.92		
Theta	36.7°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
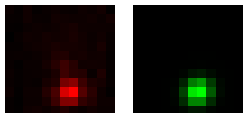
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.941$

Parameters:
A = 520.185   (brightness)
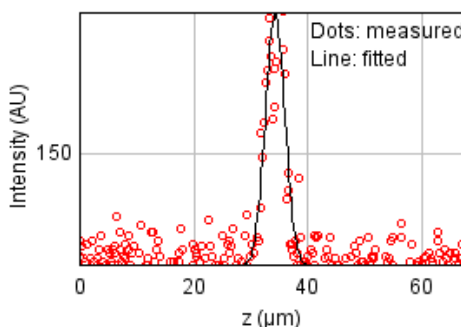B = 123.484   (background)
a = 0.575 px
b = 0.047 px
c = 0.603 px

xc = 6.594 px
yc = 8.980 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18895.4722
Standard deviation: 7.84530
R^2: 0.82556
Parameters:
a = 112.51916
b = 197.24135
c = 34.33284
d = 1.69698

Bead 1974

Date : Mon Oct 17 13:52:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
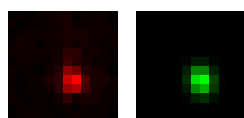Frame size : 12 pixels

Coordinates : -135 um (x), -8.71 um (y), 37.9 um (z)
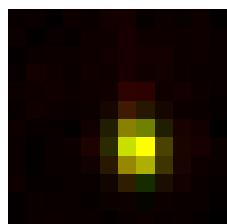Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	419 nm	437 nm	270 nm
max	515 nm	537 nm	270 nm
z	2.0 um	2.01 um	1.3 um
Asymmetry	0.814		
Theta	-75.7°		

XY profile & fitting parameters :

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

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

Parameters:
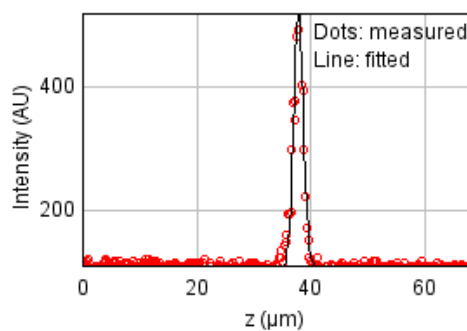 A = 410.442   (brightness)
 B = 118.222   (background)
 a = 0.747 px
 b = -0.062 px
 c = 0.521 px

xc = 6.599 px
yc = 7.097 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 39120.9729
Standard deviation: 11.28848
R^2: 0.96560
Parameters:
 a = 111.33294
 b = 520.98908
 c = 37.91999
 d = 0.85001

Bead 1975 (Rejected)

Date : Mon Oct 17 13:52:52 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -62.9 um (x), -32.5 um (y), 34.0 um (z)
Corresponding bead : Not found
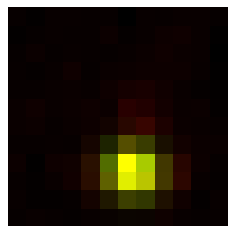Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	460 nm	479 nm	270 nm
max	501 nm	522 nm	270 nm
z	3.66 um	3.67 um	1.3 um
Asymmetry	0.918		
Theta	-12.7°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
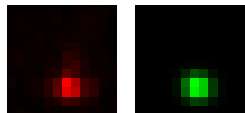
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.949$

Parameters:
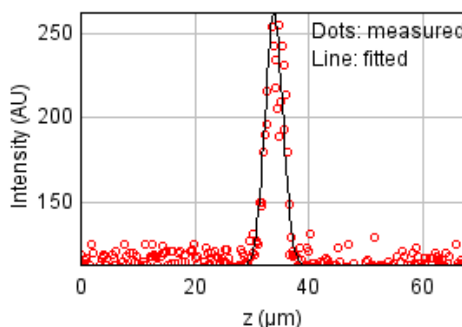 A = 657.220   (brightness)
 B = 127.955   (background)
 a = 0.539 px
 b = -0.021 px
 c = 0.629 px
xc = 6.306 px
yc = 8.452 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 36905.4502
Standard deviation: 10.96418
R^2: 0.87474
Parameters:
 a = 112.59704
 b = 262.29796
 c = 33.95756
 d = 1.55372

Bead 1976 (Rejected)

Date : Mon Oct 17 13:52:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -94.1 um (x), -54.5 um (y), 34.5 um (z)
Corresponding bead : Not found
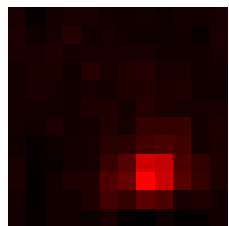Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	2.18 um	2.28 um	270 nm
max	3.17 um	3.3 um	270 nm
z	3.11 um	3.13 um	1.3 um
Asymmetry	0.69		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
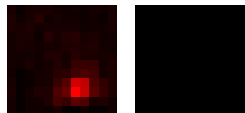
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.177$

Parameters:
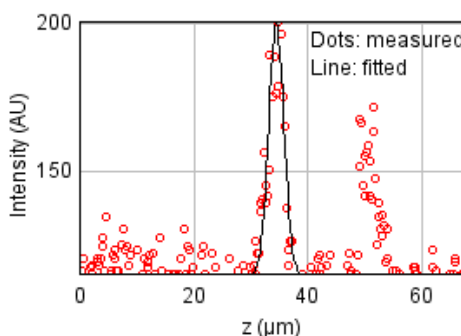 A = -48.147   (brightness)
 B = 167.371   (background)
 a = 0.005 px
 b = 0.021 px
 c = 0.010 px

xc = 3.095 px
yc = 2.229 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 46815.9345
Standard deviation: 12.34888
R^2: 0.60607
Parameters:
 a = 115.48751
 b = 200.72400
 c = 34.53811
 d = 1.32197

Bead 1977

Date : Mon Oct 17 13:52:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
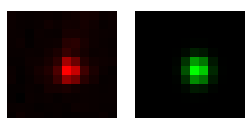Frame size : 12 pixels

Coordinates : -11.8 um (x), -69.8 um (y), 37.7 um (z)
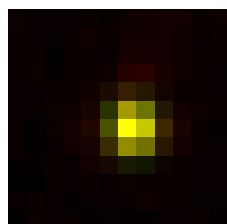Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	440 nm	458 nm	270 nm
max	494 nm	514 nm	270 nm
z	2.06 um	2.07 um	1.3 um
Asymmetry	0.891		
Theta	-84.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 545.085   (brightness)
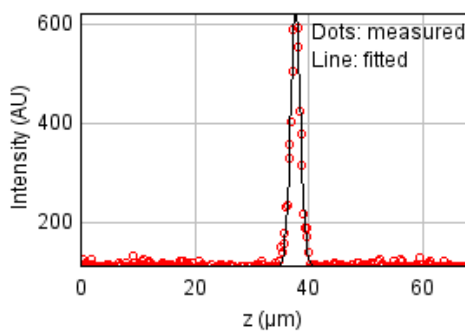 B = 121.657   (background)
 a = 0.692 px
 b = -0.014 px
 c = 0.552 px

xc = 6.326 px
yc = 5.962 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 26726.7637
Standard deviation: 9.33048
R^2: 0.98485
Parameters:
 a = 114.38522
 b = 622.99944
 c = 37.74307
 d = 0.87340

Bead 1978

Date : Mon Oct 17 13:52:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
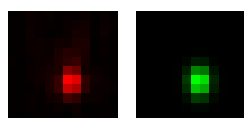Frame size : 12 pixels

Coordinates : 54.2 um (x), -74.5 um (y), 38.3 um (z)
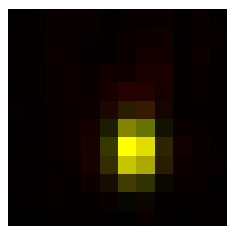Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	402 nm	418 nm	270 nm
max	538 nm	560 nm	270 nm
z	2.08 um	2.09 um	1.3 um
Asymmetry	0.747		
Theta	89.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 840.172   (brightness)
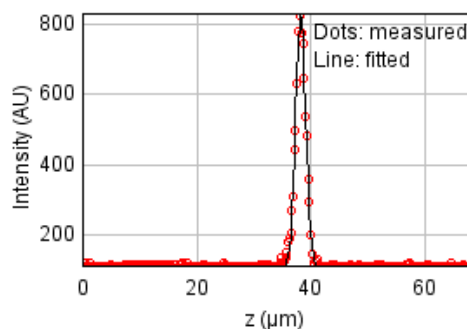 B = 124.843   (background)
 a = 0.831 px
 b = 0.003 px
 c = 0.464 px

xc = 6.412 px
yc = 7.210 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 23686.0417
Standard deviation: 8.78369
R^2: 0.99322
Parameters:
 a = 113.36927
 b = 827.49331
 c = 38.29395
 d = 0.88493

Bead 1979

Date : Mon Oct 17 13:52:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
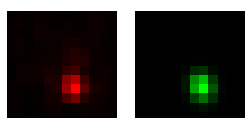Frame size : 12 pixels

Coordinates : 29.9 um (x), -86.1 um (y), 38.0 um (z)
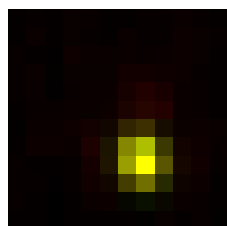Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	409 nm	426 nm	270 nm
max	497 nm	517 nm	270 nm
z	2.05 um	2.06 um	1.3 um
Asymmetry	0.823		
Theta	-75.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.963$

Parameters:
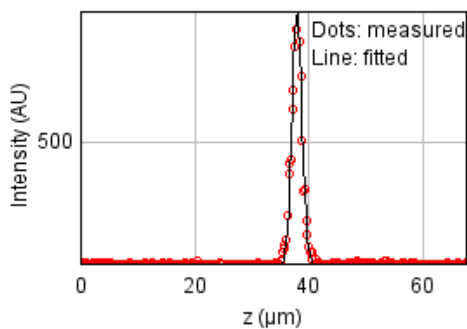A = 857.714   (brightness)
B = 128.528   (background)
a = 0.786 px
b = -0.063 px
c = 0.560 px

xc = 6.781 px
yc = 7.734 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 65401.1672
Standard deviation: 14.59565
R^2: 0.98492
Parameters:
a = 114.16527
b = 913.21801
c = 38.00577
d = 0.87005

Bead 1980

Date : Mon Oct 17 13:52:53 PDT 2022
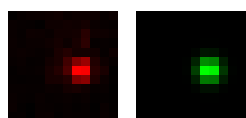Origin : data_traditional.tif   (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -121 um (x), 54.0 um (y), 38.3 um (z)
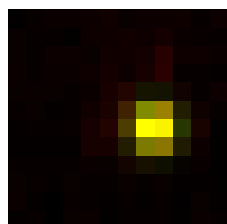Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	429 nm	446 nm	270 nm
max	447 nm	466 nm	270 nm
z	1.94 um	1.94 um	1.3 um
Asymmetry	0.958		
Theta	-82.4°		

XY profile & fitting parameters :

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

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

Parameters:
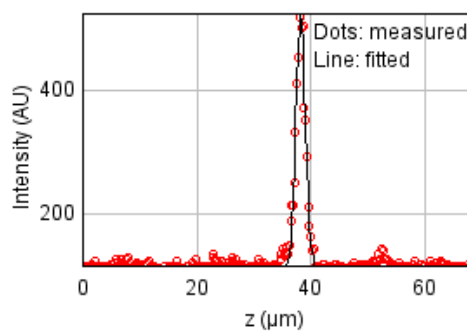 A = 472.987   (brightness)
 B = 120.860   (background)
 a = 0.730 px
 b = -0.008 px
 c = 0.672 px

xc = 7.466 px
yc = 5.960 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 27512.8448
Standard deviation: 9.46670
R^2: 0.97453
Parameters:
 a = 115.54621
 b = 523.16341
 c = 38.28485
 d = 0.82182

Bead 1981

Date : Mon Oct 17 13:52:53 PDT 2022
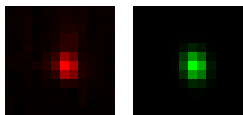Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -45.5 um (x), 3.4 um (y), 38.2 um (z)
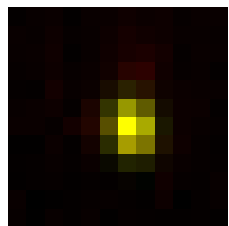Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	409 nm	426 nm	270 nm
max	521 nm	542 nm	270 nm
z	2.05 um	2.06 um	1.3 um
Asymmetry	0.786		
Theta	-80.3°		

XY profile & fitting parameters :

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

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

Parameters:
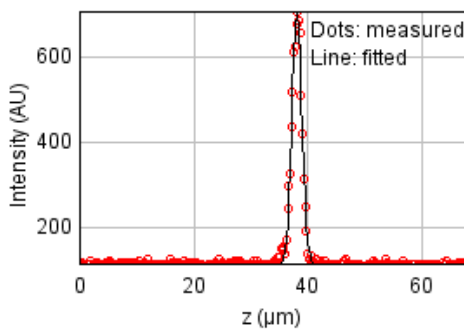 A = 584.070 (brightness)
 B = 120.998 (background)
 a = 0.792 px
 b = -0.051 px
 c = 0.504 px

xc = 6.244 px
yc = 6.042 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 24436.6687
Standard deviation: 8.92179
R^2: 0.98992
Parameters:
 a = 113.31843
 b = 711.53193
 c = 38.16064
 d = 0.87207

Bead 1982

Date : Mon Oct 17 13:52:53 PDT 2022
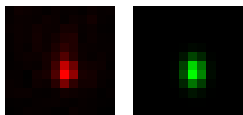Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 22.3 um (x), -4.22 um (y), 38.0 um (z)
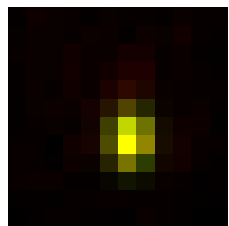Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	380 nm	396 nm	270 nm
max	527 nm	548 nm	270 nm
z	2.04 um	2.04 um	1.3 um
Asymmetry	0.722		
Theta	89.1°		

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 = 0.959

Parameters:
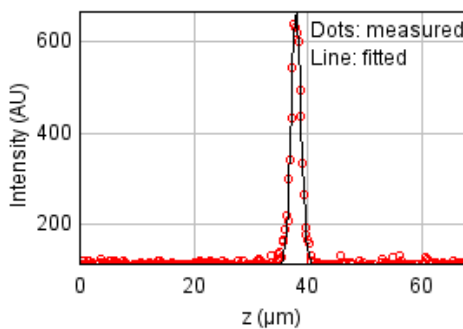A = 588.219   (brightness)
B = 126.218   (background)
a = 0.928 px
b = 0.007 px
c = 0.484 px

xc = 6.155 px
yc = 6.681 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25713.2450
Standard deviation: 9.15186
R^2: 0.98741
Parameters:
a = 114.30737
b = 664.99287
c = 38.01919
d = 0.86468

Bead 1983

Date : Mon Oct 17 13:52:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
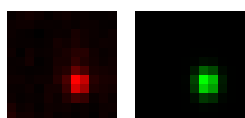Frame size : 12 pixels

Coordinates : -132 um (x), -65.5 um (y), 37.9 um (z)
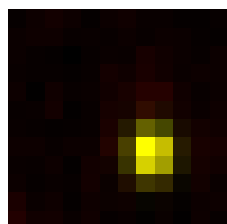Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	399 nm	416 nm	270 nm
max	480 nm	500 nm	270 nm
z	1.92 um	1.93 um	1.3 um
Asymmetry	0.832		
Theta	-87.8°		

XY profile & fitting parameters :

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

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

Parameters:
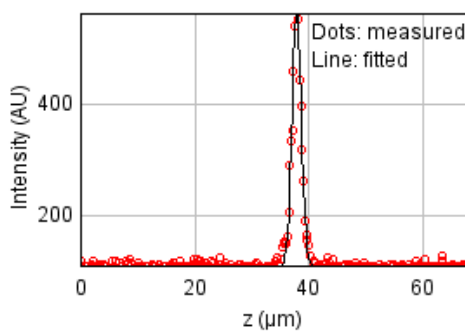 A = 516.400   (brightness)
 B = 122.430   (background)
 a = 0.842 px
 b = -0.010 px
 c = 0.583 px

xc = 7.327 px
yc = 7.334 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 20908.4657
Standard deviation: 8.25262
R^2: 0.98388
Parameters:
 a = 112.19152
 b = 562.53172
 c = 37.94809
 d = 0.81601

Bead 1984

Date : Mon Oct 17 13:52:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

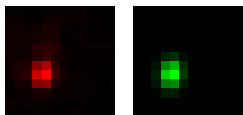Coordinates : 37.3 um (x), -82.4 um (y), 52.4 um (z)
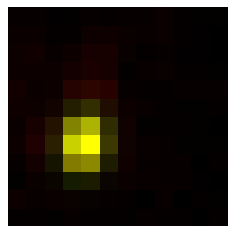Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	396 nm	413 nm	270 nm
max	523 nm	545 nm	270 nm
z	2.05 um	2.06 um	1.3 um
Asymmetry	0.758		
Theta	81.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.961$

Parameters:
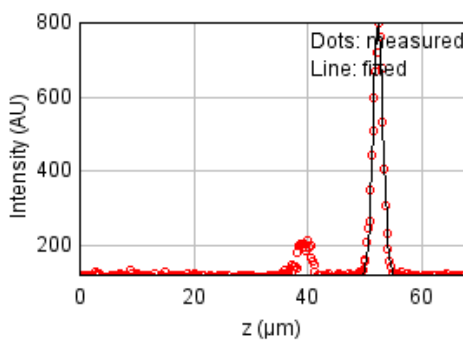A = 753.626   (brightness)
B = 125.667   (background)
a = 0.847 px
b = 0.051 px
c = 0.497 px

xc = 3.626 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: 119997.576
Standard deviation: 19.77047
R^2: 0.96302
Parameters:
a = 118.80545
b = 801.33900
c = 52.37770
d = 0.87235

Bead 1985 (Rejected)

Date : Mon Oct 17 13:52:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

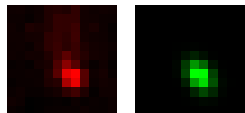Coordinates : 93.2 um (x), 54.0 um (y), 37.7 um (z)
Corresponding bead : Not found
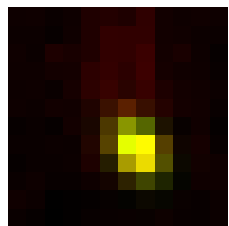Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	411 nm	428 nm	270 nm
max	581 nm	605 nm	270 nm
z	2.22 um	2.23 um	1.3 um
Asymmetry	0.708		
Theta	-57.1°		

XY profile & fitting parameters :

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

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

Parameters:
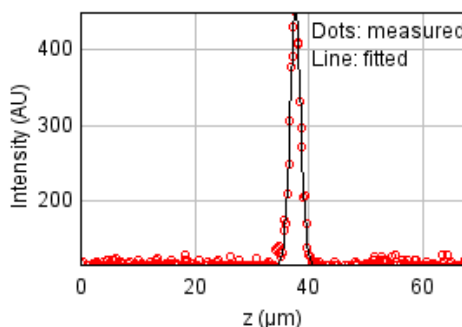 A = 423.920   (brightness)
 B = 127.254   (background)
 a = 0.677 px
 b = -0.180 px
 c = 0.515 px

 xc = 6.542 px
 yc = 7.209 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15549.9816
Standard deviation: 7.11698
R^2: 0.98157
Parameters:
 a = 113.02638
 b = 451.78021
 c = 37.72126
 d = 0.94201

Bead 1986 (Rejected)

Date : Mon Oct 17 13:52:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 10.1 um (x), 27.5 um (y), 34.4 um (z)
Corresponding bead : Not found
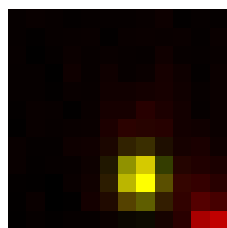Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	437 nm	270 nm
max	466 nm	485 nm	270 nm
z	3.71 um	3.72 um	1.3 um
Asymmetry	0.901		
Theta	-86.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
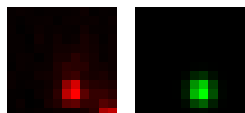
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.692$

Parameters:
 A = 622.988   (brightness)
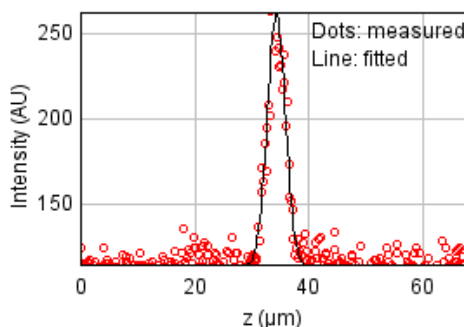 B = 142.892   (background)
 a = 0.761 px
 b = -0.008 px
 c = 0.619 px

xc = 6.721 px
yc = 8.686 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19724.3882
Standard deviation: 8.01554
R^2: 0.92757
Parameters:
 a = 114.67189
 b = 261.96249
 c = 34.37049
 d = 1.57494

Bead 1987

Date : Mon Oct 17 13:52:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
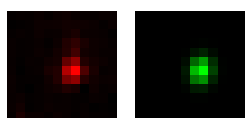Frame size : 12 pixels

Coordinates : -99.5 um (x), 16.2 um (y), 38.9 um (z)
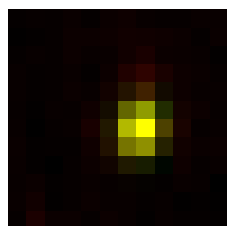Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	395 nm	412 nm	270 nm
max	507 nm	528 nm	270 nm
z	1.98 um	1.99 um	1.3 um
Asymmetry	0.78		
Theta	81.0°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 648.540   (brightness)
 B = 128.889   (background)
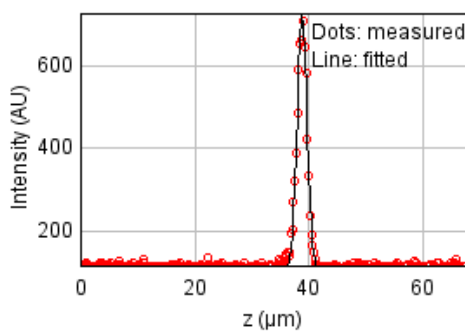 a = 0.850 px
 b = 0.052 px
 c = 0.530 px

xc = 6.692 px
yc = 5.992 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 25420.2282
Standard deviation: 9.09956
R^2: 0.98977
Parameters:
 a = 113.33942
 b = 728.88585
 c = 38.87911
 d = 0.84274

Bead 1988

Date : Mon Oct 17 13:52:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
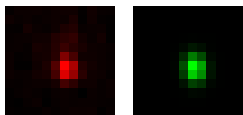Frame size : 12 pixels

Coordinates : 78.4 um (x), 10.8 um (y), 38.4 um (z)
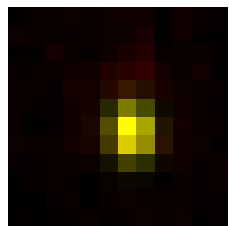Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	404 nm	421 nm	270 nm
max	534 nm	556 nm	270 nm
z	1.93 um	1.94 um	1.3 um
Asymmetry	0.758		
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:
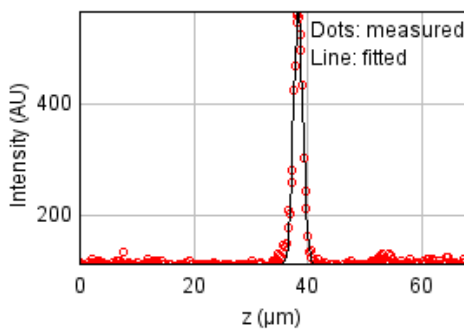 A = 486.391   (brightness)
 B = 121.402   (background)
 a = 0.818 px
 b = -0.030 px
 c = 0.474 px

xc = 6.244 px
yc = 6.285 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 23853.0211
Standard deviation: 8.81460
R^2: 0.98227
Parameters:
 a = 113.70356
 b = 571.20153
 c = 38.38815
 d = 0.81884

Bead 1989 (Rejected)

Date : Mon Oct 17 13:52:53 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -76.2 um (x), -44.2 um (y), 24.6 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

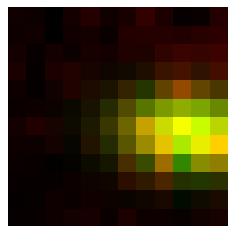| FWHM	Non corrected	Corrected	Theoretical
min	754 nm	785 nm	270 nm
max	1.31 um	1.37 um	270 nm
z	2.66 um	2.67 um	1.3 um
Asymmetry	0.574		
Theta	-5.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
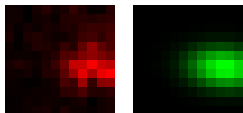
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.882$

Parameters:
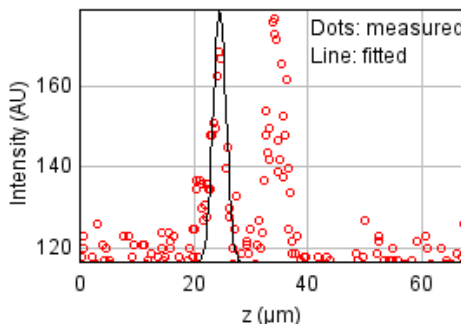 A = 166.599   (brightness)
 B = 115.763   (background)
 a = 0.079 px
 b = -0.015 px
 c = 0.235 px

xc = 9.512 px
yc = 6.351 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 51516.3602
Standard deviation: 12.95399
R^2: 0.39363
Parameters:
 a = 116.51376
 b = 178.97614
 c = 24.61027
 d = 1.13079

Bead 1990

Date : Mon Oct 17 13:52:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

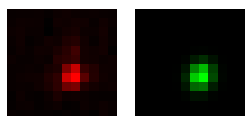Coordinates : -121 um (x), -48.9 um (y), 38.5 um (z)
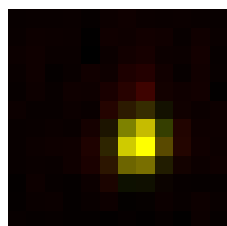Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	437 nm	270 nm
max	496 nm	516 nm	270 nm
z	2.0 um	2.01 um	1.3 um
Asymmetry	0.848		
Theta	70.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 515.930   (brightness)
 B = 119.839   (background)
 a = 0.737 px
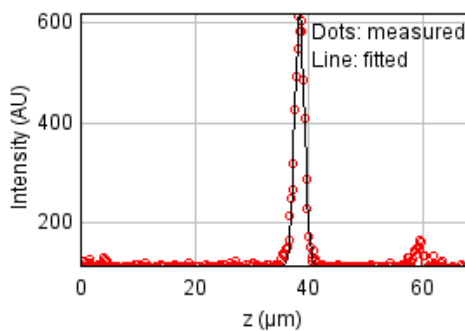 b = 0.067 px
 c = 0.570 px

xc = 6.673 px
yc = 6.810 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 38727.9420
Standard deviation: 11.23164
R^2: 0.97722
Parameters:
 a = 114.36931
 b = 618.04473
 c = 38.45790
 d = 0.85075

Bead 1991

Date : Mon Oct 17 13:52:54 PDT 2022
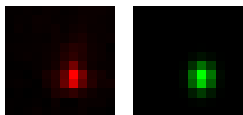Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 8.58 um (x), -49.9 um (y), 38.6 um (z)
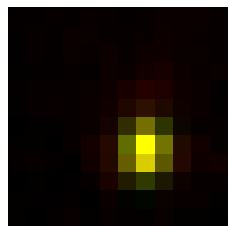Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	405 nm	422 nm	270 nm
max	505 nm	526 nm	270 nm
z	1.89 um	1.9 um	1.3 um
Asymmetry	0.802		
Theta	84.7°		

XY profile & fitting parameters :

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

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

Parameters:
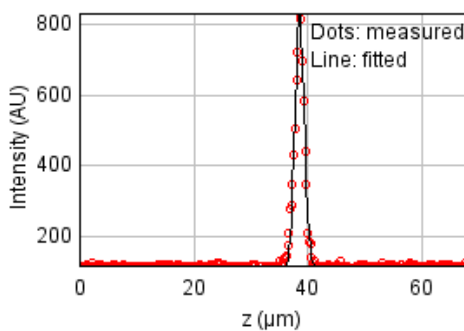A = 773.295   (brightness)
B = 128.035   (background)
a = 0.816 px
b = 0.027 px
c = 0.529 px

xc = 7.006 px
yc = 7.290 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 38916.6414
Standard deviation: 11.25897
R^2: 0.98803
Parameters:
a = 114.14281
b = 834.31952
c = 38.62959
d = 0.80275

Bead 1992

Date : Mon Oct 17 13:52:54 PDT 2022
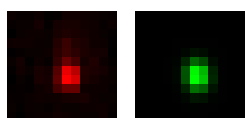Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -159 um (x), -51.1 um (y), 37.9 um (z)
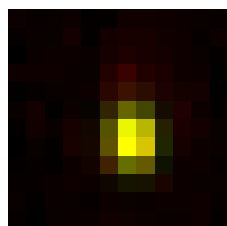Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	435 nm	454 nm	270 nm
max	558 nm	582 nm	270 nm
z	2.25 um	2.26 um	1.3 um
Asymmetry	0.78		
Theta	-84.4°		

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 = 412.615   (brightness)
 B = 121.438   (background)
 a = 0.705 px
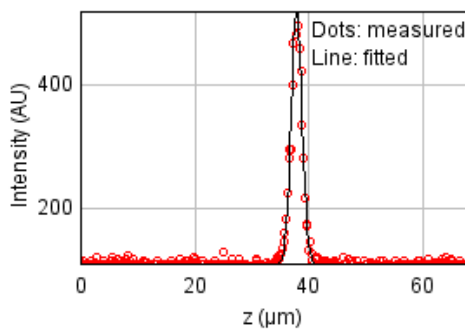 b = -0.027 px
 c = 0.433 px

  xc = 6.300 px
  yc = 6.554 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 19798.8809
Standard deviation: 8.03066
R^2: 0.98387
Parameters:
 a = 111.36834
 b = 517.48712
 c = 37.92679
 d = 0.95685

Bead 1993

Date : Mon Oct 17 13:52:54 PDT 2022
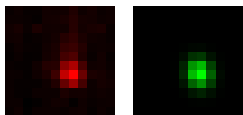Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 163 um (x), -68.1 um (y), 38.1 um (z)
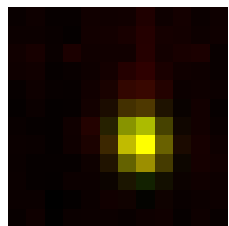Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	457 nm	476 nm	270 nm
max	554 nm	577 nm	270 nm
z	2.15 um	2.16 um	1.3 um
Asymmetry	0.825		
Theta	-79.3°		

XY profile & fitting parameters :

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

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

Parameters:
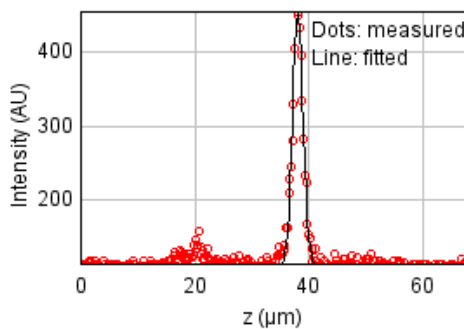A = 342.673   (brightness)
B = 115.857   (background)
a = 0.636 px
b = -0.038 px
c = 0.444 px

xc = 6.731 px
yc = 6.829 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 30484.6496
Standard deviation: 9.96486
R^2: 0.96434
Parameters:
a = 112.71347
b = 455.85272
c = 38.13569
d = 0.91268

Bead 1994

Date : Mon Oct 17 13:52:54 PDT 2022
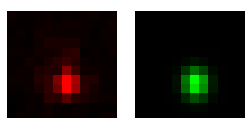Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -7.23 um (x), -83.1 um (y), 38.3 um (z)
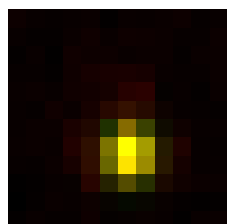Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	457 nm	476 nm	270 nm
max	521 nm	543 nm	270 nm
z	2.12 um	2.13 um	1.3 um
Asymmetry	0.877		
Theta	-89.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.945$

Parameters:
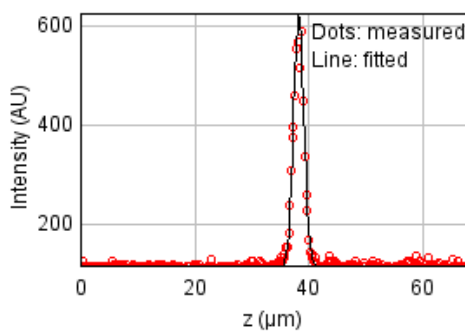A = 505.101   (brightness)
B = 123.329   (background)
a = 0.642 px
b = -0.002 px
c = 0.494 px

xc = 6.115 px
yc = 7.384 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 49128.7301
Standard deviation: 12.65023
R^2: 0.97369
Parameters:
a = 113.93593
b = 626.35377
c = 38.30194
d = 0.90192

Bead 1995

Date : Mon Oct 17 13:52:54 PDT 2022
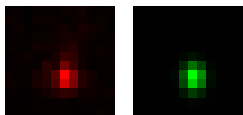Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 129 um (x), -94.6 um (y), 38.3 um (z)
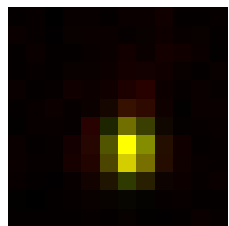Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	398 nm	414 nm	270 nm
max	505 nm	526 nm	270 nm
z	1.93 um	1.94 um	1.3 um
Asymmetry	0.788		
Theta	89.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 494.000   (brightness)
 B = 119.359   (background)
 a = 0.848 px
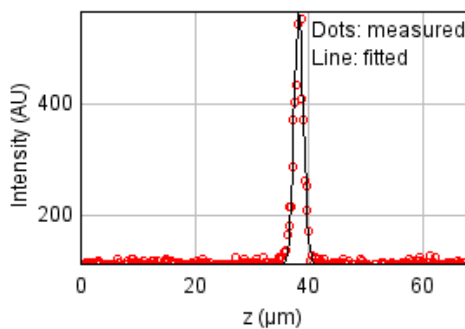 b = 0.004 px
 c = 0.527 px

 xc = 6.145 px
 yc = 7.291 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 27811.3241
Standard deviation: 9.51791
R^2: 0.97911
Parameters:
 a = 112.59878
 b = 566.81726
 c = 38.31553
 d = 0.81920

Bead 1996

Date : Mon Oct 17 13:52:54 PDT 2022
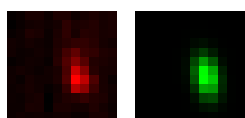Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 153 um (x), 93.7 um (y), 37.7 um (z)
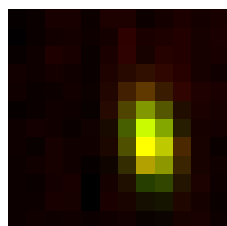Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	436 nm	454 nm	270 nm
max	773 nm	805 nm	270 nm
z	2.25 um	2.26 um	1.3 um
Asymmetry	0.564		
Theta	-79.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.915$

Parameters:
A = 226.524   (brightness)
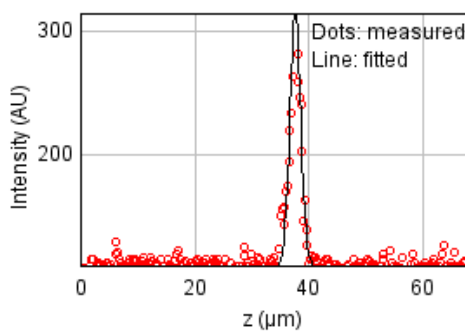B = 114.455   (background)
a = 0.691 px
b = -0.086 px
c = 0.240 px

xc = 7.283 px
yc = 6.636 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17644.3617
Standard deviation: 7.58113
R^2: 0.94535
Parameters:
 a = 110.14390
 b = 314.36926
 c = 37.69785
 d = 0.95607

Bead 1997 (Rejected)

Date : Mon Oct 17 13:52:54 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

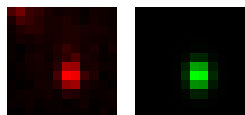Coordinates : -135 um (x), 75.6 um (y), 38.3 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

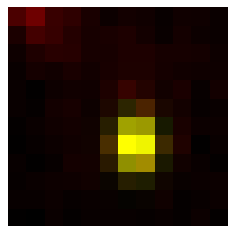| FWHM	Non corrected	Corrected	Theoretical
min	390 nm	406 nm	270 nm
max	511 nm	533 nm	270 nm
z	2.33 um	2.34 um	1.3 um
Asymmetry	0.763		
Theta	-88.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.854$

Parameters:
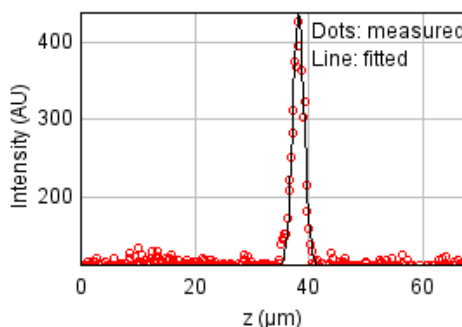 A = 368.402   (brightness)
 B = 122.430   (background)
 a = 0.882 px
 b = -0.008 px
 c = 0.513 px

xc = 6.476 px
yc = 6.948 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 30736.5416
Standard deviation: 10.00595
R^2: 0.96272
Parameters:
 a = 113.05525
 b = 437.15548
 c = 38.27067
 d = 0.98924

Bead 1998

Date : Mon Oct 17 13:52:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
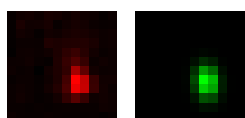Frame size : 12 pixels

Coordinates : 140 um (x), -8.52 um (y), 38.7 um (z)
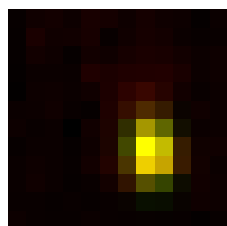Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	411 nm	428 nm	270 nm
max	606 nm	631 nm	270 nm
z	1.94 um	1.95 um	1.3 um
Asymmetry	0.678		
Theta	-84.7°		

XY profile & fitting parameters :

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

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

Parameters:
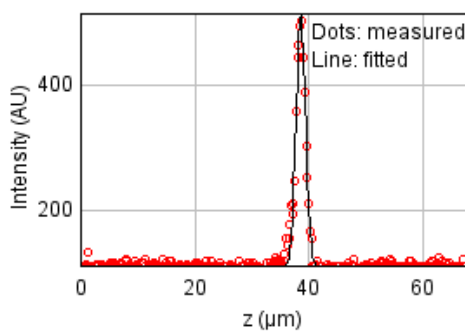 A = 443.321   (brightness)
 B = 117.777   (background)
 a = 0.790 px
 b = -0.039 px
 c = 0.369 px

xc = 7.316 px
yc = 7.246 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 26315.2657
Standard deviation: 9.25837
R^2: 0.97520
Parameters:
 a = 111.29787
 b = 514.80548
 c = 38.65879
 d = 0.82442

Bead 1999

Date : Mon Oct 17 13:52:55 PDT 2022
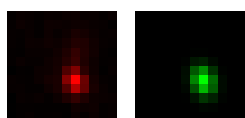Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 103 um (x), -45.2 um (y), 38.5 um (z)
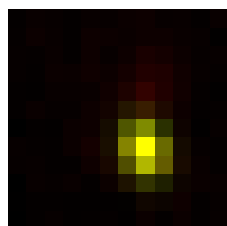Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	549 nm	572 nm	270 nm
z	1.94 um	1.95 um	1.3 um
Asymmetry	0.747		
Theta	-73.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 538.404   (brightness)
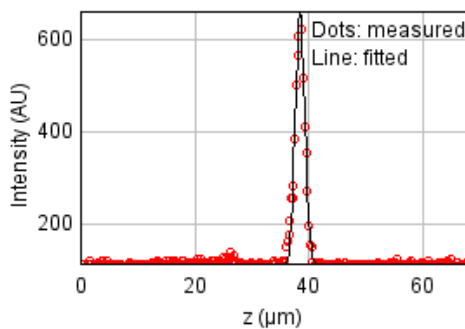 B = 120.075   (background)
 a = 0.770 px
 b = -0.094 px
 c = 0.472 px

xc = 6.947 px
yc = 7.135 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 26571.7072
Standard deviation: 9.30338
R^2: 0.98620
Parameters:
 a = 112.70890
 b = 659.39643
 c = 38.53476
 d = 0.82434

Bead 2000

Date : Mon Oct 17 13:52:55 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
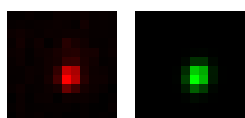Frame size : 12 pixels

Coordinates : -97.8 um (x), -57.0 um (y), 38.2 um (z)
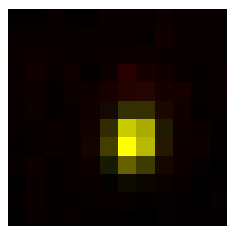Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	388 nm	404 nm	270 nm
max	476 nm	496 nm	270 nm
z	2.13 um	2.14 um	1.3 um
Asymmetry	0.815		
Theta	75.4°		

XY profile & fitting parameters :

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

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

Parameters:
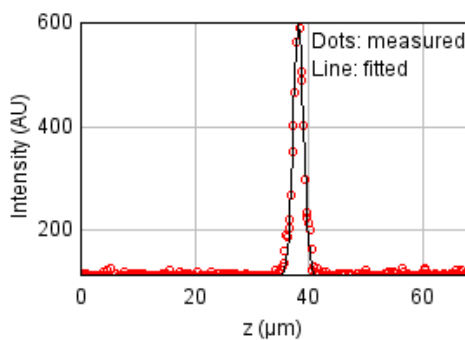 A = 571.310 (brightness)
 B = 122.943 (background)
 a = 0.872 px
 b = 0.073 px
 c = 0.611 px

xc = 6.346 px
yc = 6.647 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 27343.9975
Standard deviation: 9.43761
R^2: 0.98374
Parameters:
 a = 113.28183
 b = 601.30876
 c = 38.24481
 d = 0.90500