Bead 1201

Date : Mon Oct 17 13:28:56 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
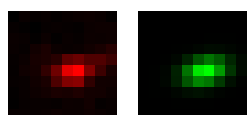
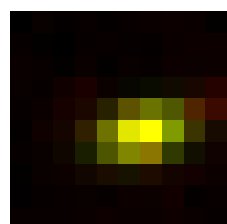Coordinates : 151 um (x), 84.5 um (y), 26.4 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	419 nm	223 nm
max	701 nm	725 nm	223 nm
z	1.78 um	1.79 um	885 nm
Asymmetry	0.578		
Theta	12.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 382.370   (brightness)
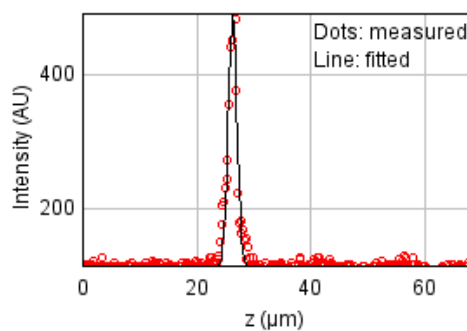 B = 113.286   (background)
 a = 0.300 px
 b = 0.118 px
 c = 0.789 px

xc = 5.641 px
yc = 5.061 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 49968.8803
Standard deviation: 12.75794
R^2: 0.94443
Parameters:
 a = 112.35161
 b = 493.05262
 c = 26.36571
 d = 0.75726

Bead 1202

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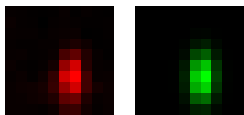Frame size : 10 pixels

Coordinates : -19.2 um (x), 83.8 um (y), 26.6 um (z)
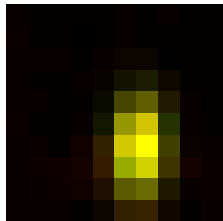Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	407 nm	421 nm	223 nm
max	759 nm	785 nm	223 nm
z	1.17 um	1.18 um	885 nm
Asymmetry	0.536		
Theta	88.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.985$

Parameters:
A = 844.759   (brightness)
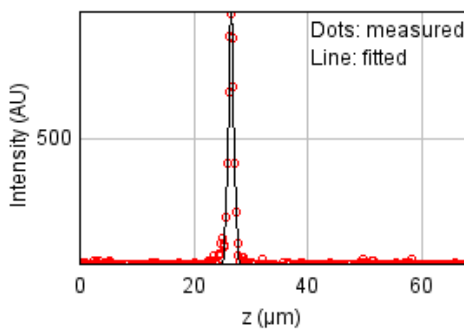B = 121.550   (background)
a = 0.809 px
b = 0.015 px
c = 0.233 px

xc = 5.645 px
yc = 6.091 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 28546.6853
Standard deviation: 9.64292
R^2: 0.98787
Parameters:
 a = 115.23587
 b = 886.50445
 c = 26.62303
 d = 0.49824

Bead 1203

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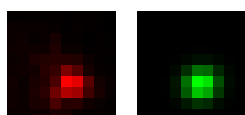Frame size : 10 pixels

Coordinates : -107 um (x), 59.3 um (y), 27.2 um (z)
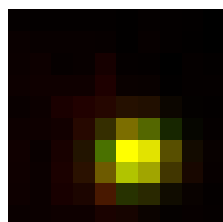Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	489 nm	505 nm	223 nm
max	539 nm	557 nm	223 nm
z	2.04 um	2.05 um	885 nm
Asymmetry	0.907		
Theta	15.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 658.984   (brightness)
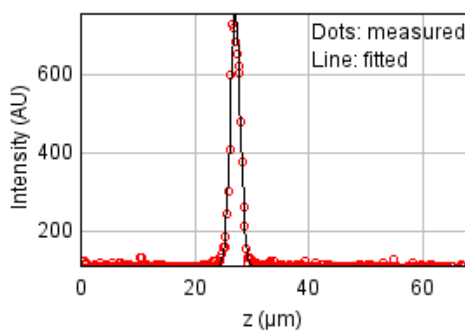 B = 133.323   (background)
 a = 0.469 px
 b = 0.026 px
 c = 0.554 px

xc = 5.357 px
yc = 6.244 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 46755.7320
Standard deviation: 12.34094
R^2: 0.98365
Parameters:
 a = 112.70043
 b = 762.19207
 c = 27.17222
 d = 0.86705

Bead 1204

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
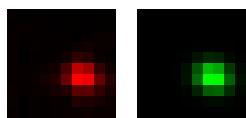Frame size : 10 pixels

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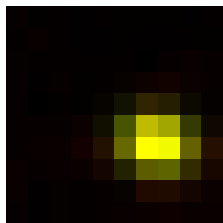Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	447 nm	462 nm	223 nm
max	545 nm	563 nm	223 nm
z	1.54 um	1.55 um	885 nm
Asymmetry	0.82		
Theta	-13.4°		

XY profile & fitting parameters :

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

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

Parameters:
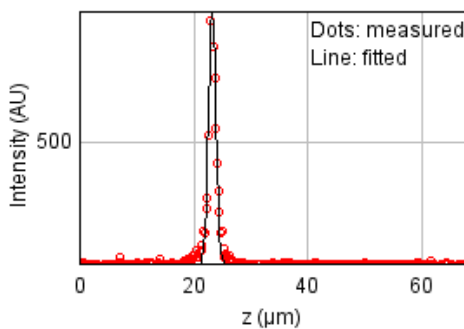A = 903.076   (brightness)
B = 120.439   (background)
a = 0.464 px
b = -0.050 px
c = 0.660 px

xc = 6.451 px
yc = 5.768 px

Z profile & fitting parameters:

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

Bead 1205

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
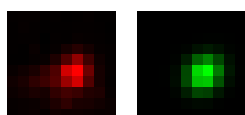Frame size : 10 pixels

Coordinates : -47.4 um (x), -35.9 um (y), 27.0 um (z)
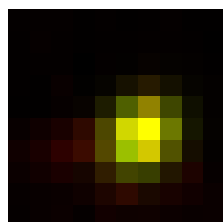Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	503 nm	520 nm	223 nm
max	581 nm	600 nm	223 nm
z	1.68 um	1.69 um	885 nm
Asymmetry	0.867		
Theta	45.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 999.686   (brightness)
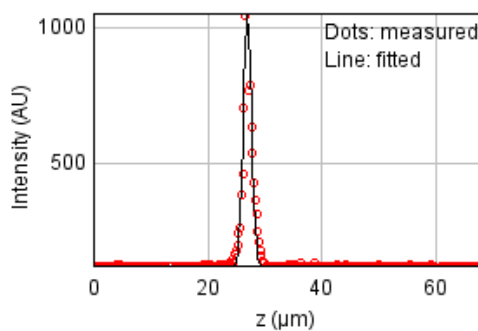 B = 138.255   (background)
 a = 0.465 px
 b = 0.066 px
 c = 0.462 px

xc = 5.647 px
yc = 5.282 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 212693.468
Standard deviation: 26.32133
R^2: 0.95863
Parameters:
 a = 114.39586
 b = 1057.01957
 c = 27.00991
 d = 0.71518

Bead 1206 (Rejected)

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

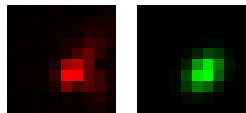Coordinates : 85.3 um (x), 94.2 um (y), 27.2 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	436 nm	451 nm	223 nm
max	596 nm	616 nm	223 nm
z	1.57 um	1.57 um	885 nm
Asymmetry	0.732		
Theta	44.5°		

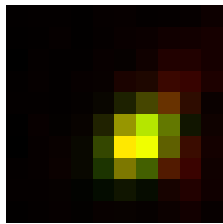## XY profile & fitting parameters :

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

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

Parameters:
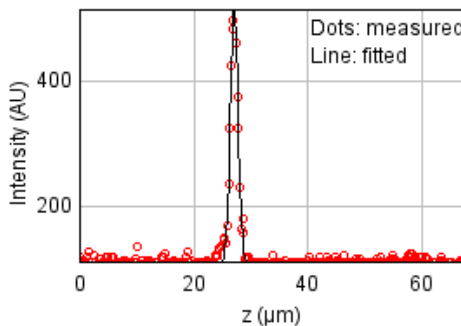 A = 566.120   (brightness)
 B = 126.431   (background)
 a = 0.539 px
 b = 0.164 px
 c = 0.545 px

xc = 5.686 px
yc = 5.692 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19561.5831
Standard deviation: 7.98239
R^2: 0.97751
Parameters:
 a = 112.23909
 b = 517.61411
 c = 27.15014
 d = 0.66541

Bead 1207

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
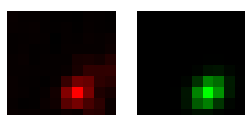Frame size : 10 pixels

Coordinates : 107 um (x), 71.1 um (y), 27.3 um (z)
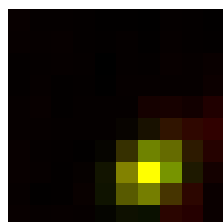Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	404 nm	418 nm	223 nm
max	532 nm	550 nm	223 nm
z	1.53 um	1.54 um	885 nm
Asymmetry	0.759		
Theta	38.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.919$

Parameters:
 A = 694.897   (brightness)
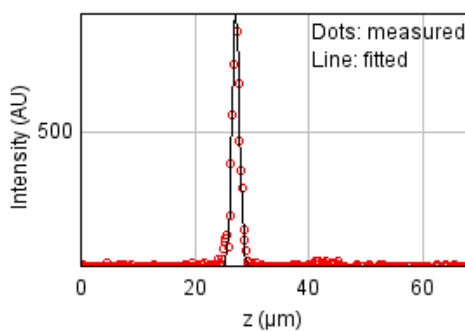 B = 121.214   (background)
 a = 0.610 px
 b = 0.170 px
 c = 0.686 px

 xc = 6.059 px
 yc = 6.969 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 41485.9180
Standard deviation: 11.62468
R^2: 0.98473
Parameters:
 a = 114.57561
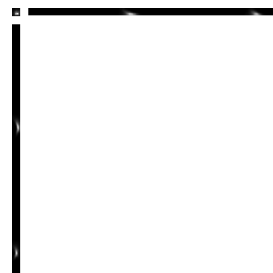 b = 841.46116
 c = 27.25828
 d = 0.65078

Bead 1208

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

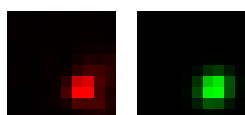Coordinates : 90.8 um (x), 56.8 um (y), 27.7 um (z)
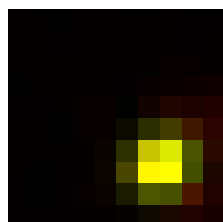Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	443 nm	458 nm	223 nm
max	493 nm	509 nm	223 nm
z	1.87 um	1.88 um	885 nm
Asymmetry	0.9		
Theta	38.7°		

XY profile & fitting parameters :

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

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

Parameters:
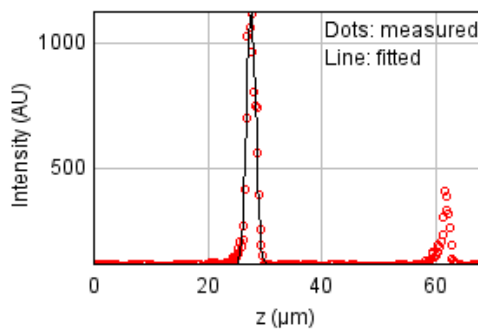 A = 1217.292   (brightness)
 B = 130.037   (background)
 a = 0.604 px
 b = 0.064 px
 c = 0.632 px

xc = 6.574 px
yc = 6.615 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 547246.992
Standard deviation: 42.22042
R^2: 0.91871
Parameters:
 a = 122.60116
 b = 1125.61907
 c = 27.66704
 d = 0.79618

Bead 1209

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
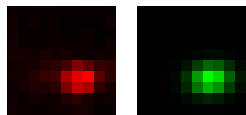Frame size : 10 pixels

Coordinates : -161 um (x), 31.2 um (y), 26.9 um (z)
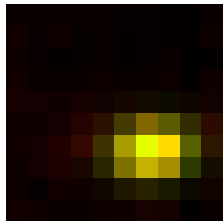Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	456 nm	472 nm	223 nm
max	643 nm	665 nm	223 nm
z	1.9 um	1.91 um	885 nm
Asymmetry	0.71		
Theta	4.9°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 496.562   (brightness)
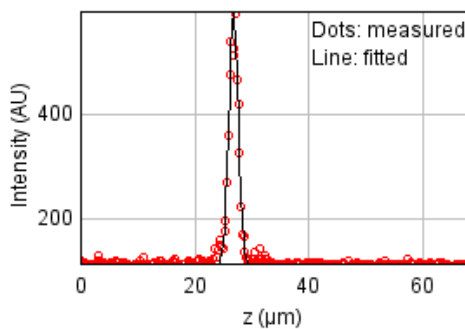 B = 122.508   (background)
 a = 0.327 px
 b = 0.027 px
 c = 0.642 px

xc = 6.234 px
yc = 6.206 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 38914.2847
Standard deviation: 11.25862
R^2: 0.97444
Parameters:
 a = 112.04793
 b = 600.28269
 c = 26.87263
 d = 0.80647

Bead 1210

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
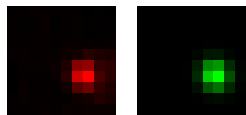Frame size : 10 pixels

Coordinates : 81.8 um (x), 11.3 um (y), 27.2 um (z)
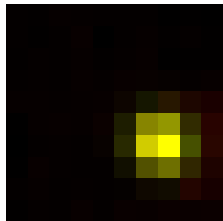Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	428 nm	442 nm	223 nm
max	459 nm	474 nm	223 nm
z	1.89 um	1.89 um	885 nm
Asymmetry	0.933		
Theta	-49.9°		

XY profile & fitting parameters :

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

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

Parameters:
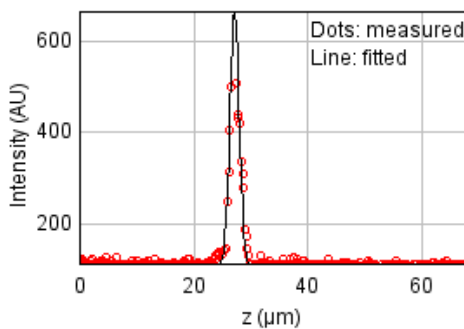 A = 765.853   (brightness)
 B = 119.582   (background)
 a = 0.693 px
 b = -0.047 px
 c = 0.677 px

xc = 6.651 px
yc = 5.863 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 110142.021
Standard deviation: 18.94119
R^2: 0.94463
Parameters:
 a = 113.21804
 b = 664.39175
 c = 27.21574
 d = 0.80126

Bead 1211

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
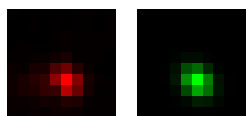Frame size : 10 pixels

Coordinates : -73.7 um (x), 5.24 um (y), 27.3 um (z)
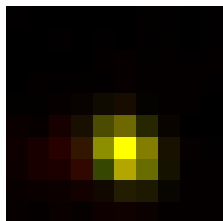Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	509 nm	527 nm	223 nm
z	1.66 um	1.67 um	885 nm
Asymmetry	0.809		
Theta	-42.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1086.796   (brightness)
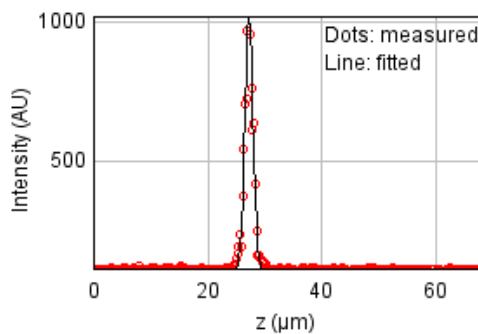 B = 129.885   (background)
 a = 0.642 px
 b = -0.136 px
 c = 0.666 px

xc = 4.989 px
yc = 6.175 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 107896.891
Standard deviation: 18.74715
R^2: 0.97648
Parameters:
 a = 112.44408
 b = 1017.34400
 c = 27.28845
 d = 0.70505

Bead 1212

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
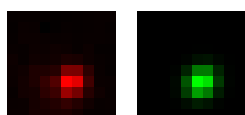Frame size : 10 pixels

Coordinates : -114 um (x), 4.16 um (y), 27.1 um (z)
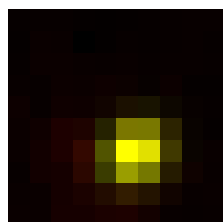Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	440 nm	455 nm	223 nm
max	494 nm	510 nm	223 nm
z	1.26 um	1.26 um	885 nm
Asymmetry	0.891		
Theta	45.0°		

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
   $R^2 = 0.965$

Parameters:
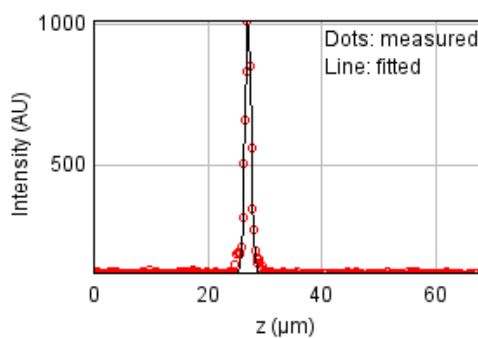 A = 954.541   (brightness)
 B = 130.295   (background)
 a = 0.622 px
 b = 0.071 px
 c = 0.621 px

 xc = 5.386 px
 yc = 6.070 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 53145.1116
Standard deviation: 13.15717
R^2: 0.98479
Parameters:
 a = 113.68176
 b = 1020.05869
 c = 27.13085
 d = 0.53481

Bead 1213

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
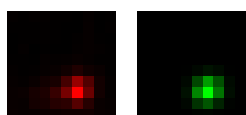Frame size : 10 pixels

Coordinates : -48.8 um (x), 1.36 um (y), 27.6 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	401 nm	415 nm	223 nm
max	443 nm	458 nm	223 nm
z	1.37 um	1.38 um	885 nm
Asymmetry	0.905		
Theta	29.4°		

XY profile & fitting parameters :

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

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

Parameters:
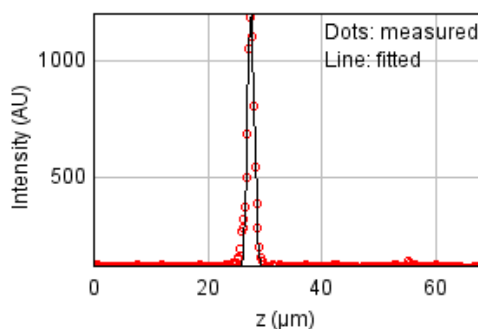A = 1091.808   (brightness)
B = 130.718   (background)
a = 0.719 px
b = 0.065 px
c = 0.798 px

xc = 5.972 px
yc = 6.811 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 92050.3144
Standard deviation: 17.31584
R^2: 0.98337
Parameters:
a = 115.81064
b = 1210.06113
c = 27.63687
d = 0.58185

Bead 1214

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
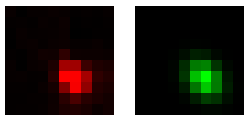Frame size : 10 pixels

Coordinates : 89.5 um (x), -36.1 um (y), 27.0 um (z)
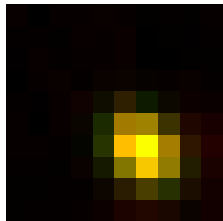Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	472 nm	488 nm	223 nm
max	606 nm	627 nm	223 nm
z	1.36 um	1.36 um	885 nm
Asymmetry	0.778		
Theta	-49.6°		

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:
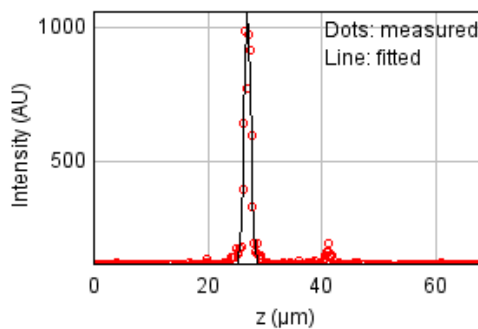 A = 795.337   (brightness)
 B = 119.656   (background)
 a = 0.503 px
 b = -0.117 px
 c = 0.465 px

xc = 5.834 px
yc = 6.187 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 197072.420
Standard deviation: 25.33633
R^2: 0.95323
Parameters:
 a = 115.83585
 b = 1060.59213
 c = 27.01942
 d = 0.57594

Bead 1215

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
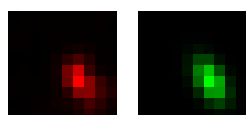Frame size : 10 pixels

Coordinates : 23.1 um (x), -46.2 um (y), 27.1 um (z)
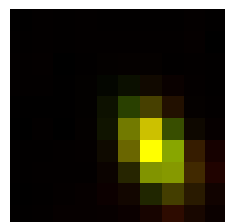Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	420 nm	223 nm
max	695 nm	718 nm	223 nm
z	1.3 um	1.3 um	885 nm
Asymmetry	0.585		
Theta	-59.8°		

XY profile & fitting parameters :

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

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

Parameters:
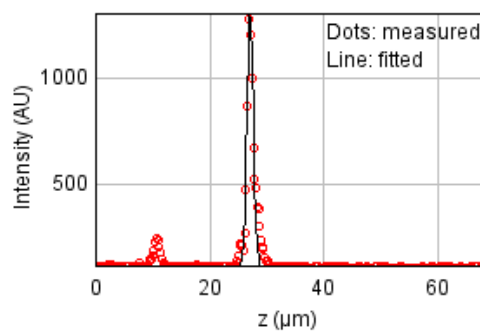 A = 1252.482   (brightness)
 B = 128.108   (background)
 a = 0.678 px
 b = -0.233 px
 c = 0.413 px

xc = 6.154 px
yc = 5.928 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 400202.538
Standard deviation: 36.10528
R^2: 0.93832
Parameters:
 a = 121.69863
 b = 1309.30502
 c = 27.14086
 d = 0.55174

Bead 1216

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
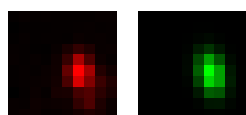Frame size : 10 pixels

Coordinates : 11.7 um (x), -51.8 um (y), 26.9 um (z)
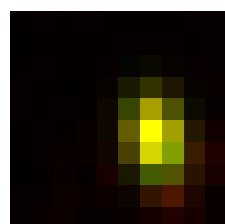Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	422 nm	436 nm	223 nm
max	660 nm	682 nm	223 nm
z	1.38 um	1.38 um	885 nm
Asymmetry	0.64		
Theta	-77.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 908.012   (brightness)
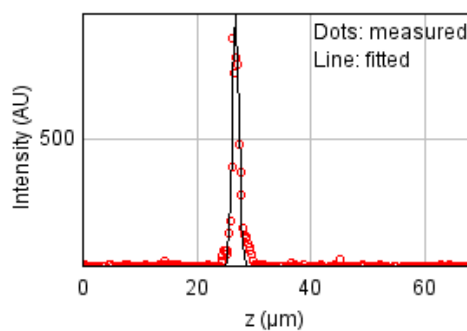 B = 126.880   (background)
 a = 0.734 px
 b = -0.093 px
 c = 0.329 px

xc = 6.215 px
yc = 5.286 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 137842.535
Standard deviation: 21.18958
R^2: 0.95075
Parameters:
 a = 115.77336
 b = 878.57736
 c = 26.88547
 d = 0.58551

Bead 1217

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
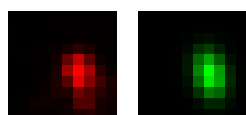Frame size : 10 pixels

Coordinates : 7.5 um (x), -66.7 um (y), 26.8 um (z)
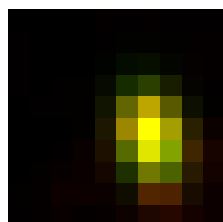Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	482 nm	499 nm	223 nm
max	727 nm	751 nm	223 nm
z	1.39 um	1.4 um	885 nm
Asymmetry	0.664		
Theta	-77.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.949$

Parameters:
A = 1070.734   (brightness)
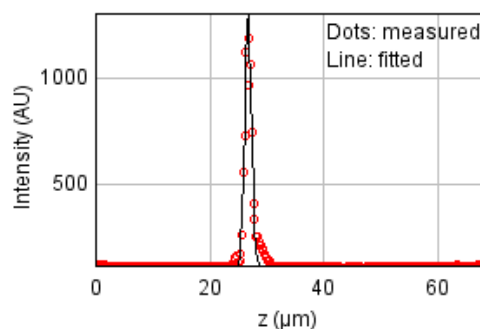B = 127.300   (background)
a = 0.561 px
b = -0.070 px
c = 0.270 px

xc = 6.110 px
yc = 5.330 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 243147.121
Standard deviation: 28.14268
R^2: 0.96398
Parameters:
a = 115.87254
b = 1302.08592
c = 26.79336
d = 0.59238

Bead 1218

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
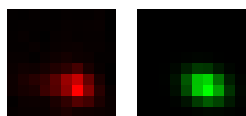Frame size : 10 pixels

Coordinates : -83.2 um (x), -80.2 um (y), 27.4 um (z)
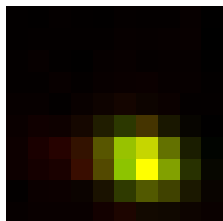Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	458 nm	473 nm	223 nm
max	631 nm	652 nm	223 nm
z	1.49 um	1.49 um	885 nm
Asymmetry	0.725		
Theta	-17.0°		

XY profile & fitting parameters :

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

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

Parameters:
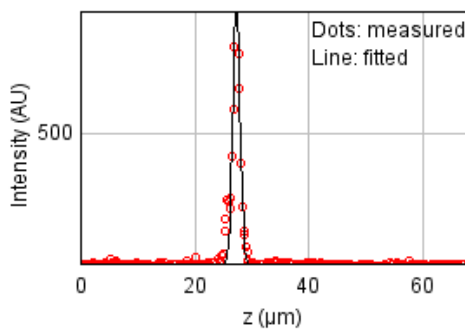 A = 787.127   (brightness)
 B = 126.847   (background)
 a = 0.363 px
 b = -0.085 px
 c = 0.615 px

xc = 5.773 px
yc = 6.615 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 117711.389
Standard deviation: 19.58123
R^2: 0.95899
Parameters:
 a = 115.25154
 b = 863.74481
 c = 27.37108
 d = 0.63068

Bead 1219

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
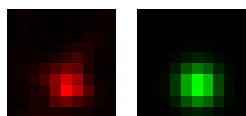Frame size : 10 pixels

Coordinates : -124 um (x), -86.1 um (y), 27.0 um (z)
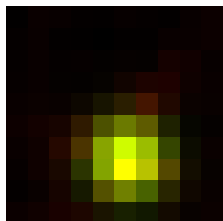Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	607 nm	628 nm	223 nm
max	619 nm	640 nm	223 nm
z	1.93 um	1.94 um	885 nm
Asymmetry	0.981		
Theta	-57.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 545.826   (brightness)
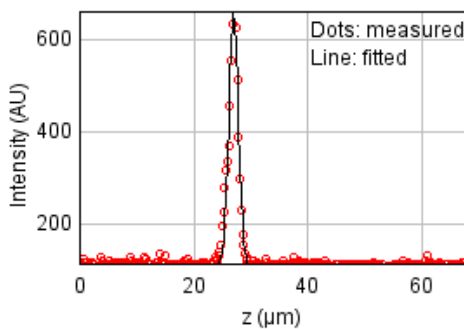 B = 123.407   (background)
 a = 0.360 px
 b = -0.006 px
 c = 0.354 px

xc = 5.108 px
yc = 6.522 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 42946.7899
Standard deviation: 11.82759
R^2: 0.97791
Parameters:
 a = 111.59184
 b = 659.48395
 c = 27.04543
 d = 0.82141

Bead 1220 (Rejected)

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -19.1 um (x), -93.8 um (y), 27.5 um (z)
Corresponding bead : Not found
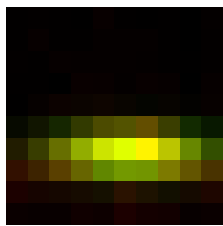Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	419 nm	223 nm
max	1.28 um	1.33 um	223 nm
z	1.87 um	1.88 um	885 nm
Asymmetry	0.316		
Theta	-0.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
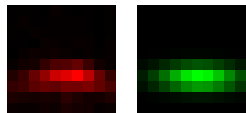
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.956$

Parameters:
 A = 558.040   (brightness)
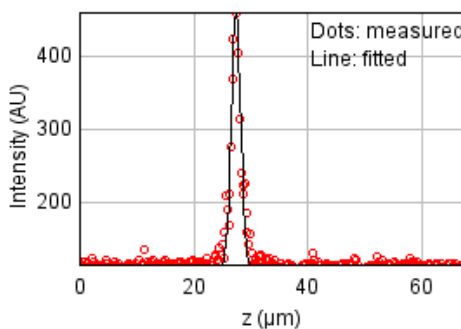 B = 121.653   (background)
 a = 0.081 px
 b = -0.007 px
 c = 0.816 px

xc = 5.221 px
yc = 6.190 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 38221.3634
Standard deviation: 11.15794
R^2: 0.95031
Parameters:
 a = 114.37724
 b = 459.36260
 c = 27.48036
 d = 0.79549

Bead 1221 (Rejected)

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

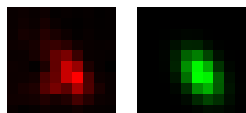Coordinates : -80.7 um (x), 92.5 um (y), 28.0 um (z)
Corresponding bead : Not found
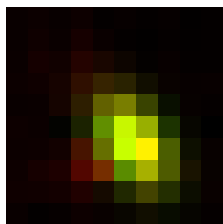Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	500 nm	517 nm	223 nm
max	771 nm	797 nm	223 nm
z	2.07 um	2.07 um	885 nm
Asymmetry	0.649		
Theta	-56.8°		

XY profile & fitting parameters :

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

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

Parameters:
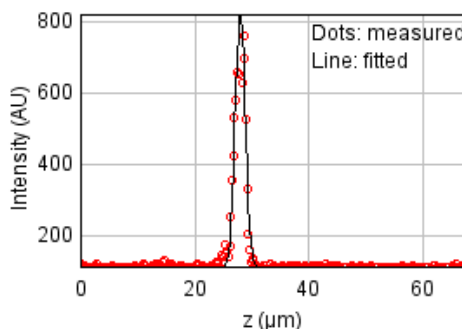A = 663.904   (brightness)
B = 135.616   (background)
a = 0.443 px
b = -0.142 px
c = 0.319 px

xc = 5.343 px
yc = 5.708 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 114739.953
Standard deviation: 19.33251
R^2: 0.96760
Parameters:
a = 113.04483
b = 825.73363
c = 28.03752
d = 0.87759

Bead 1222 (Rejected)

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 67.5 um (x), 63.5 um (y), 26.7 um (z)
Corresponding bead : Not found
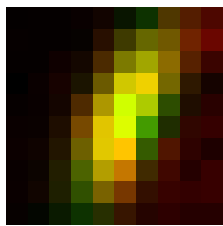Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	557 nm	576 nm	223 nm
max	1.43 um	1.47 um	223 nm
z	1.15 um	1.15 um	885 nm
Asymmetry	0.391		
Theta	66.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
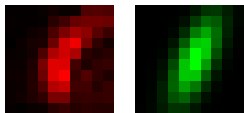
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.852$

Parameters:
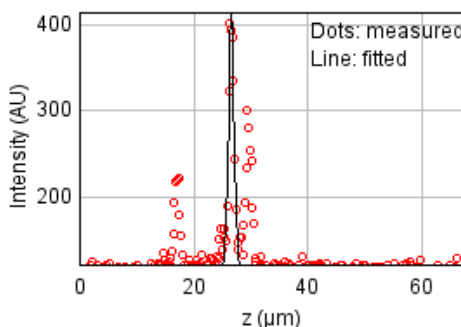 A = 293.263   (brightness)
 B = 137.855   (background)
 a = 0.373 px
 b = 0.134 px
 c = 0.125 px

xc = 5.042 px
yc = 4.436 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 197362.217
Standard deviation: 25.35495
R^2: 0.62879
Parameters:
 a = 119.81228
 b = 415.65780
 c = 26.65309
 d = 0.48648

Bead 1223 (Rejected)

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -111 um (x), 55.0 um (y), 25.9 um (z)
Corresponding bead : Not found
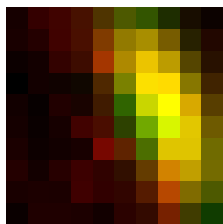Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	632 nm	654 nm	223 nm
max	1.62 um	1.67 um	223 nm
z	1.64 um	1.64 um	885 nm
Asymmetry	0.391		
Theta	-67.4°		

XY profile & fitting parameters :

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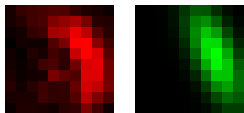
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.840$

Parameters:
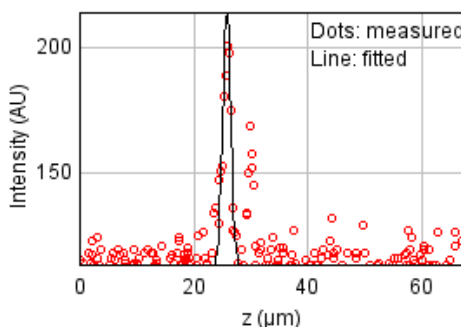 A = 153.982   (brightness)
 B = 137.104   (background)
 a = 0.294 px
 b = -0.101 px
 c = 0.093 px

xc = 6.847 px
yc = 4.149 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 24869.5854
Standard deviation: 9.00047
R^2: 0.69390
Parameters:
 a = 112.66289
 b = 214.83491
 c = 25.86588
 d = 0.69566

Bead 1224 (Rejected)

Date : Mon Oct 17 13:28:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -111 um (x), 55.0 um (y), 25.9 um (z)
Corresponding bead : Not found
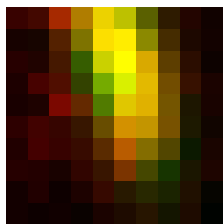Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	644 nm	666 nm	223 nm
max	1.71 um	1.77 um	223 nm
z	1.64 um	1.64 um	885 nm
Asymmetry	0.376		
Theta	-74.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
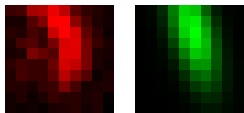
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.846$

Parameters:
 A = 162.269   (brightness)
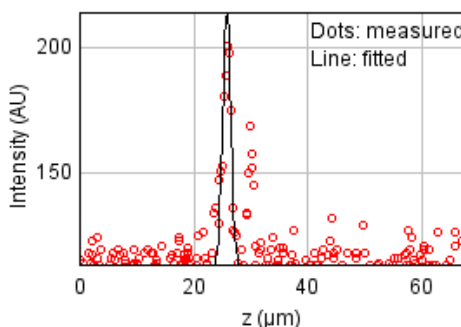 B = 131.339   (background)
 a = 0.304 px
 b = -0.071 px
 c = 0.065 px

xc = 4.793 px
yc = 1.833 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 24869.5854
Standard deviation: 9.00047
R^2: 0.69390
Parameters:
 a = 112.66289
 b = 214.83491
 c = 25.86588
 d = 0.69566

Bead 1225

Date : Mon Oct 17 13:28:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
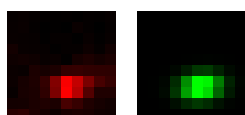Frame size : 10 pixels

Coordinates : 131 um (x), 43.0 um (y), 26.8 um (z)
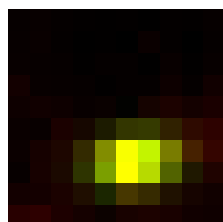Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	414 nm	428 nm	223 nm
max	658 nm	680 nm	223 nm
z	1.6 um	1.61 um	885 nm
Asymmetry	0.63		
Theta	7.2°		

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:
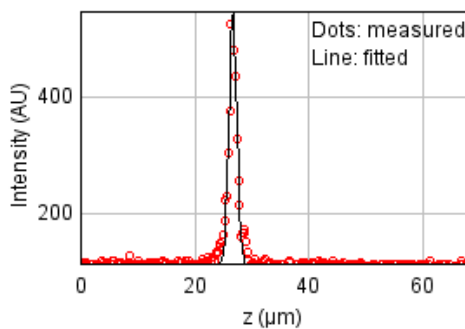 A = 518.350   (brightness)
 B = 126.946   (background)
 a = 0.317 px
 b = 0.058 px
 c = 0.774 px

xc = 5.344 px
yc = 6.477 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 31928.8776
Standard deviation: 10.19818
R^2: 0.96967
Parameters:
 a = 112.04138
 b = 551.37639
 c = 26.75203
 d = 0.68068

Bead 1226

Date : Mon Oct 17 13:28:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
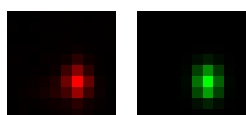Frame size : 10 pixels

Coordinates : -31.9 um (x), 41.8 um (y), 27.6 um (z)
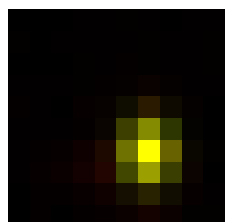Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	403 nm	223 nm
max	499 nm	515 nm	223 nm
z	1.3 um	1.3 um	885 nm
Asymmetry	0.782		
Theta	-88.8°		

XY profile & fitting parameters :

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

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

Parameters:
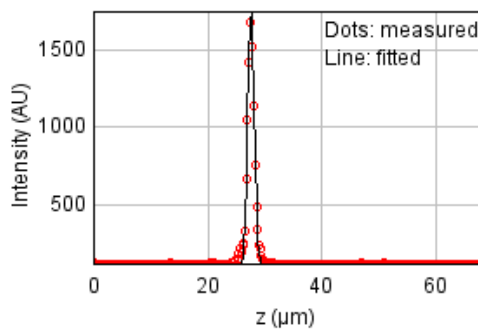 A = 1657.506   (brightness)
 B = 130.143   (background)
 a = 0.882 px
 b = -0.007 px
 c = 0.540 px

xc = 5.958 px
yc = 6.066 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 77549.0379
Standard deviation: 15.89348
R^2: 0.99338
Parameters:
 a = 116.44918
 b = 1758.76447
 c = 27.64975
 d = 0.55171

Bead 1227

Date : Mon Oct 17 13:28:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
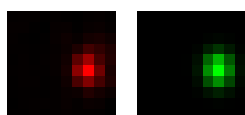Frame size : 10 pixels

Coordinates : 148 um (x), 33.0 um (y), 52.0 um (z)
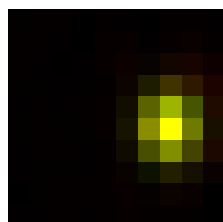Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	448 nm	463 nm	223 nm
max	537 nm	555 nm	223 nm
z	1.31 um	1.32 um	885 nm
Asymmetry	0.835		
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
  $R^2 = 0.977$

Parameters:
 A = 920.217   (brightness)
 B = 115.887   (background)
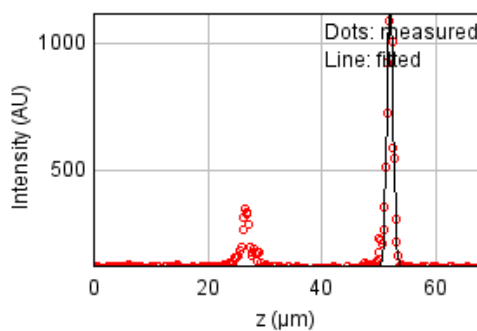 a = 0.668 px
 b = 0.001 px
 c = 0.466 px

xc = 6.947 px
yc = 4.871 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 382261.948
Standard deviation: 35.28672
R^2: 0.92111
Parameters:
 a = 120.04490
 b = 1131.79110
 c = 52.02008
 d = 0.55746

Bead 1228

Date : Mon Oct 17 13:28:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
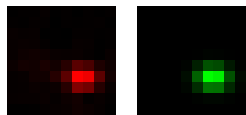Frame size : 10 pixels

Coordinates : -156 um (x), 32.8 um (y), 27.6 um (z)
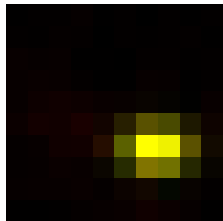Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	372 nm	385 nm	223 nm
max	510 nm	527 nm	223 nm
z	1.67 um	1.68 um	885 nm
Asymmetry	0.729		
Theta	-1.7°		

XY profile & fitting parameters :

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

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

Parameters:
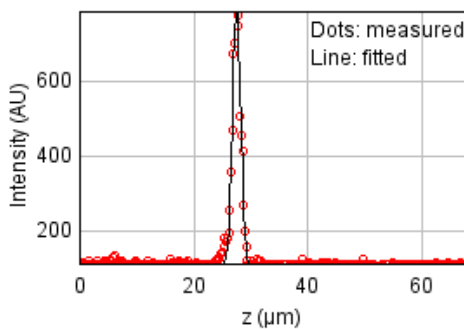 A = 773.893   (brightness)
 B = 119.732   (background)
 a = 0.516 px
 b = -0.013 px
 c = 0.969 px

xc = 6.445 px
yc = 6.100 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 43910.6096
Standard deviation: 11.95957
R^2: 0.98279
Parameters:
 a = 112.68112
 b = 787.43418
 c = 27.58478
 d = 0.70984

Bead 1229

Date : Mon Oct 17 13:28:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
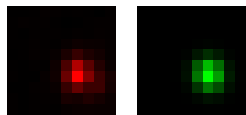Frame size : 10 pixels

Coordinates : 35.4 um (x), 32.2 um (y), 27.9 um (z)
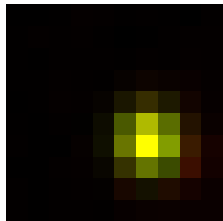Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	457 nm	473 nm	223 nm
max	494 nm	511 nm	223 nm
z	1.43 um	1.43 um	885 nm
Asymmetry	0.925		
Theta	-73.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1222.479   (brightness)
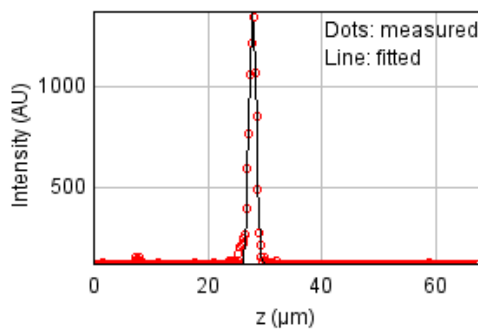 B = 128.468   (background)
 a = 0.635 px
 b = -0.025 px
 c = 0.556 px

xc = 6.110 px
yc = 5.792 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 86005.1384
Standard deviation: 16.73759
R^2: 0.98867
Parameters:
 a = 116.69797
 b = 1376.18597
 c = 27.93555
 d = 0.60619

Bead 1230

Date : Mon Oct 17 13:28:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
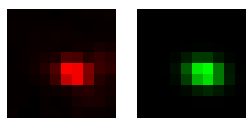Frame size : 10 pixels

Coordinates : 122 um (x), 25.7 um (y), 27.2 um (z)
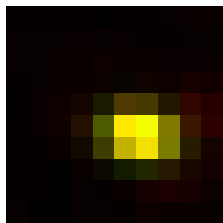Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	402 nm	415 nm	223 nm
max	569 nm	589 nm	223 nm
z	1.69 um	1.69 um	885 nm
Asymmetry	0.705		
Theta	-9.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 693.641   (brightness)
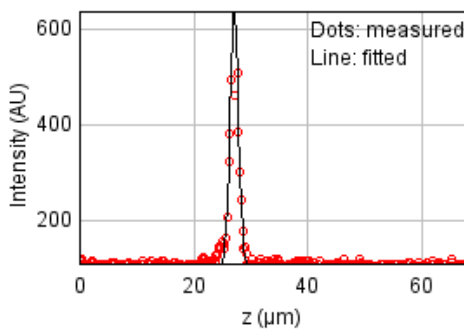 B = 120.197   (background)
 a = 0.425 px
 b = -0.066 px
 c = 0.822 px

xc = 5.678 px
yc = 5.395 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 74178.9897
Standard deviation: 15.54430
R^2: 0.95451
Parameters:
 a = 110.87387
 b = 640.26169
 c = 27.15635
 d = 0.71619

Bead 1231

Date : Mon Oct 17 13:28:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

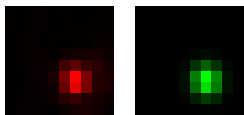Coordinates : 93.7 um (x), 25.0 um (y), 27.6 um (z)
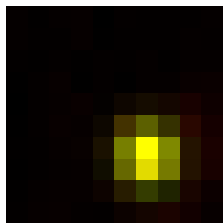Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	449 nm	464 nm	223 nm
max	489 nm	505 nm	223 nm
z	1.48 um	1.48 um	885 nm
Asymmetry	0.919		
Theta	-78.4°		

XY profile & fitting parameters :

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

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

Parameters:
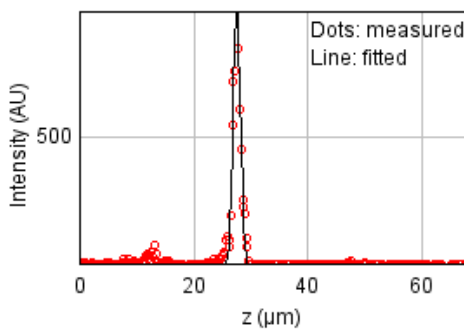 A = 897.736   (brightness)
 B = 122.741   (background)
 a = 0.662 px
 b = -0.020 px
 c = 0.566 px

xc = 6.038 px
yc = 6.363 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 94718.0865
Standard deviation: 17.56496
R^2: 0.96872
Parameters:
 a = 115.49350
 b = 889.96972
 c = 27.61531
 d = 0.62759

Bead 1232

Date : Mon Oct 17 13:28:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
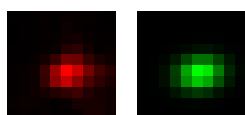Frame size : 10 pixels

Coordinates : 45.2 um (x), -93.8 um (y), 27.0 um (z)
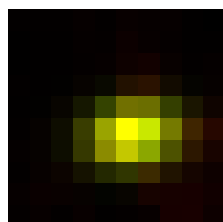Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	499 nm	516 nm	223 nm
max	711 nm	735 nm	223 nm
z	1.3 um	1.31 um	885 nm
Asymmetry	0.701		
Theta	8.3°		

XY profile & fitting parameters :

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

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

Parameters:
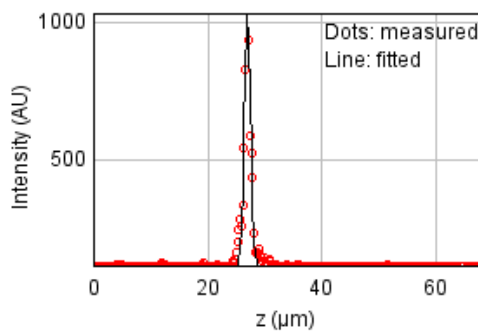 A = 938.696   (brightness)
 B = 130.774   (background)
 a = 0.271 px
 b = 0.039 px
 c = 0.533 px

xc = 5.282 px
yc = 5.249 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 104774.918
Standard deviation: 18.47394
R^2: 0.97214
Parameters:
 a = 115.72016
 b = 1035.23535
 c = 27.01373
 d = 0.55277

Bead 1233

Date : Mon Oct 17 13:28:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
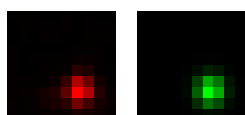Frame size : 10 pixels

Coordinates : -29.9 um (x), 30.2 um (y), 27.7 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	441 nm	455 nm	223 nm
max	464 nm	480 nm	223 nm
z	1.5 um	1.5 um	885 nm
Asymmetry	0.949		
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
   $R^2 = 0.984$

Parameters:
 A = 1312.889   (brightness)
 B = 123.391   (background)
 a = 0.691 px
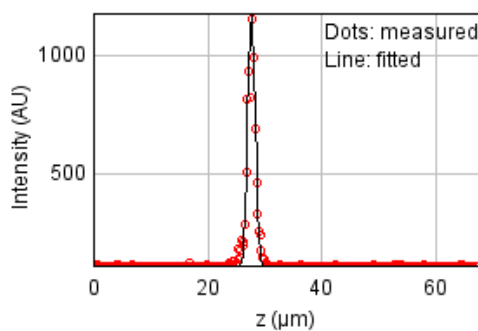 b = 0.006 px
 c = 0.624 px

   xc = 6.218 px
   yc = 6.833 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 186144.963
Standard deviation: 24.62388
R^2: 0.96758
Parameters:
 a = 115.33369
 b = 1174.36081
 c = 27.73674
 d = 0.63592

Bead 1234

Date : Mon Oct 17 13:28:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
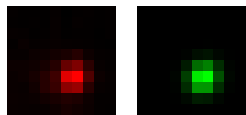Frame size : 10 pixels

Coordinates : -111 um (x), 13.8 um (y), 27.7 um (z)
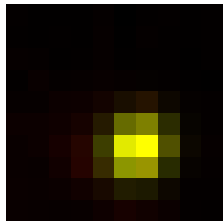Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	449 nm	464 nm	223 nm
max	484 nm	500 nm	223 nm
z	1.72 um	1.73 um	885 nm
Asymmetry	0.928		
Theta	46.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1180.223   (brightness)
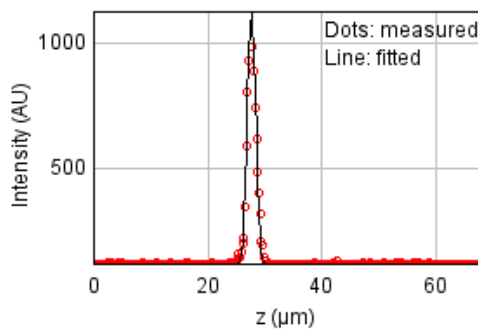 B = 128.620   (background)
 a = 0.622 px
 b = 0.046 px
 c = 0.616 px

xc = 5.564 px
yc = 6.096 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 87041.1857
Standard deviation: 16.83810
R^2: 0.98529
Parameters:
 a = 112.35621
 b = 1127.08435
 c = 27.73806
 d = 0.73089

Bead 1235

Date : Mon Oct 17 13:28:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
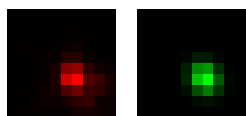Frame size : 10 pixels

Coordinates : 25.2 um (x), -33.6 um (y), 27.9 um (z)
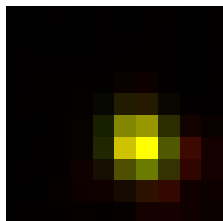Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	430 nm	444 nm	223 nm
max	486 nm	502 nm	223 nm
z	1.43 um	1.43 um	885 nm
Asymmetry	0.884		
Theta	-53.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1579.704   (brightness)
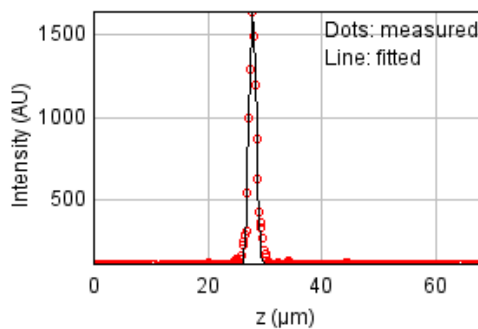 B = 138.891   (background)
 a = 0.671 px
 b = -0.076 px
 c = 0.625 px

 xc = 5.692 px
 yc = 5.879 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 168698.402
Standard deviation: 23.44155
R^2: 0.98485
Parameters:
 a = 116.87962
 b = 1639.07777
 c = 27.92571
 d = 0.60692

Bead 1236

Date : Mon Oct 17 13:28:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
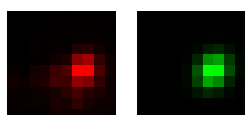Frame size : 10 pixels

Coordinates : -50.3 um (x), -57.9 um (y), 27.5 um (z)
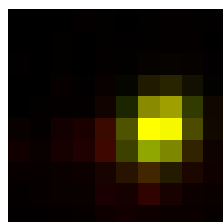Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	457 nm	473 nm	223 nm
max	542 nm	560 nm	223 nm
z	1.43 um	1.43 um	885 nm
Asymmetry	0.843		
Theta	53.6°		

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
$R^2 = 0.943$

Parameters:
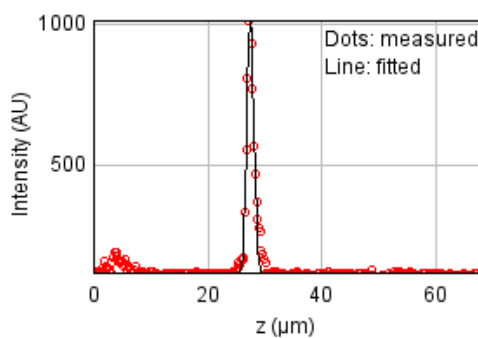A = 1000.901   (brightness)
B = 137.457   (background)
a = 0.577 px
b = 0.088 px
c = 0.522 px

xc = 6.470 px
yc = 5.011 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 163057.625
Standard deviation: 23.04631
R^2: 0.95862
Parameters:
a = 118.75640
b = 1012.92839
c = 27.53878
d = 0.60552

Bead 1237

Date : Mon Oct 17 13:28:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
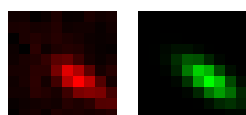Frame size : 10 pixels

Coordinates : 153 um (x), -71.9 um (y), 26.3 um (z)
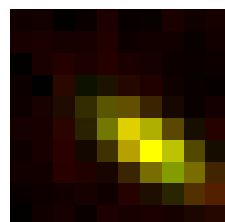Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	405 nm	419 nm	223 nm
max	952 nm	984 nm	223 nm
z	1.84 um	1.85 um	885 nm
Asymmetry	0.426		
Theta	-34.2°		

XY profile & fitting parameters :

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

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

Parameters:
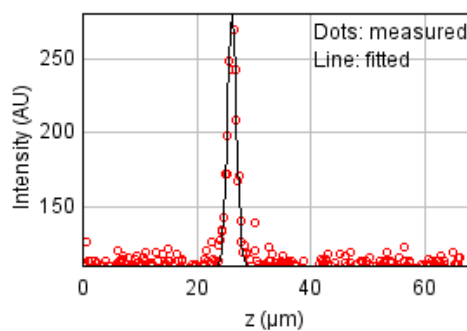 A = 185.095   (brightness)
 B = 111.567   (background)
 a = 0.360 px
 b = -0.311 px
 c = 0.606 px

xc = 5.935 px
yc = 5.773 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 14424.2105
Standard deviation: 6.85452
R^2: 0.92534
Parameters:
 a = 109.39304
 b = 281.24497
 c = 26.25424
 d = 0.78341

Bead 1238

Date : Mon Oct 17 13:28:59 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
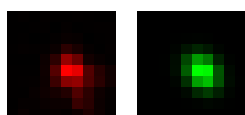Frame size : 10 pixels

Coordinates : 31.3 um (x), -77.9 um (y), 27.3 um (z)
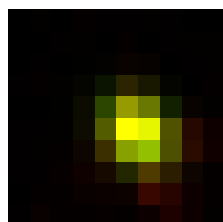Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	467 nm	483 nm	223 nm
max	584 nm	604 nm	223 nm
z	1.4 um	1.41 um	885 nm
Asymmetry	0.8		
Theta	-51.4°		

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:
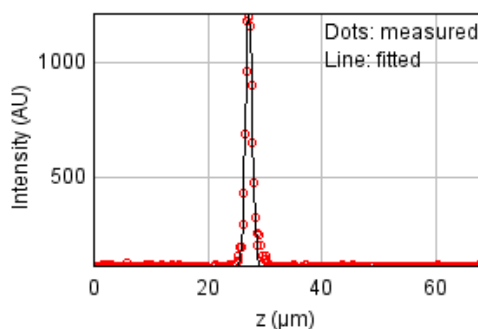A = 1096.782   (brightness)
B = 129.659   (background)
a = 0.528 px
b = -0.108 px
c = 0.479 px

xc = 5.489 px
yc = 5.129 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 75291.8518
Standard deviation: 15.66047
R^2: 0.98670
Parameters:
a = 115.39218
b = 1212.28268
c = 27.27670
d = 0.59477

Bead 1239

Date : Mon Oct 17 13:28:59 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
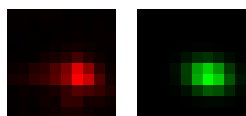Frame size : 10 pixels

Coordinates : -63.6 um (x), -91.0 um (y), 27.6 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	460 nm	475 nm	223 nm
max	658 nm	681 nm	223 nm
z	1.8 um	1.81 um	885 nm
Asymmetry	0.698		
Theta	-10.1°		

XY profile & fitting parameters :

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

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

Parameters:
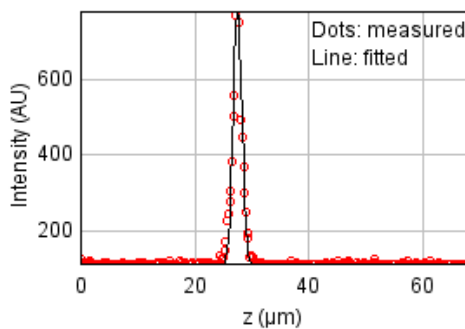 A = 708.355   (brightness)
 B = 129.728   (background)
 a = 0.320 px
 b = -0.056 px
 c = 0.625 px

xc = 6.077 px
yc = 5.663 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 68507.3714
Standard deviation: 14.93824
R^2: 0.97440
Parameters:
 a = 114.25394
 b = 778.41299
 c = 27.56814
 d = 0.76445

Bead 1240

Date : Mon Oct 17 13:28:59 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
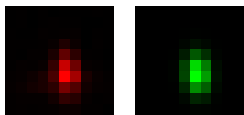Frame size : 10 pixels

Coordinates : -27.7 um (x), 58.6 um (y), 28.0 um (z)
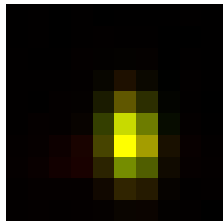Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	385 nm	398 nm	223 nm
max	598 nm	618 nm	223 nm
z	1.29 um	1.29 um	885 nm
Asymmetry	0.644		
Theta	-85.8°		

XY profile & fitting parameters :

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

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

Parameters:
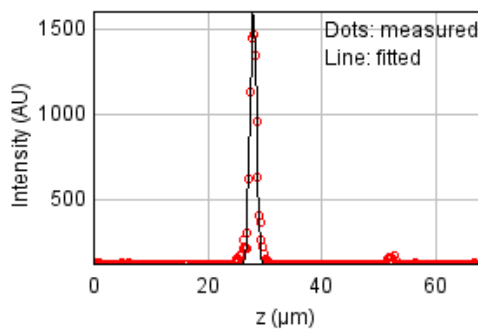 A = 1573.495   (brightness)
 B = 127.362   (background)
 a = 0.902 px
 b = -0.039 px
 c = 0.378 px

  xc = 5.219 px
  yc = 5.735 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 156414.303
Standard deviation: 22.57195
R^2: 0.98413
Parameters:
 a = 118.56494
 b = 1624.53632
 c = 28.02948
 d = 0.54637

Bead 1241

Date : Mon Oct 17 13:28:59 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
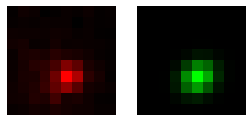Frame size : 10 pixels

Coordinates : -119 um (x), 47.3 um (y), 27.4 um (z)
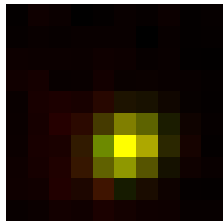Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	451 nm	466 nm	223 nm
max	537 nm	555 nm	223 nm
z	1.58 um	1.59 um	885 nm
Asymmetry	0.841		
Theta	31.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 373.517   (brightness)
 B = 120.651   (background)
 a = 0.518 px
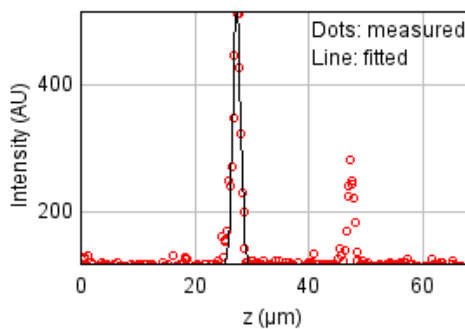 b = 0.086 px
 c = 0.608 px

xc = 5.085 px
yc = 6.062 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 149094.281
Standard deviation: 22.03745
R^2: 0.84805
Parameters:
 a = 117.74966
 b = 516.97581
 c = 27.42073
 d = 0.67164

Bead 1242 (Rejected)

Date : Mon Oct 17 13:28:59 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 132 um (x), 44.2 um (y), 26.0 um (z)
Corresponding bead : Not found
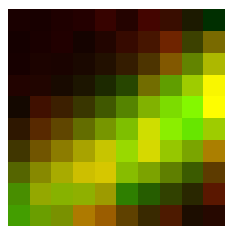Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	878 nm	907 nm	223 nm
max	9.08 um	9.39 um	223 nm
z	1.27 um	1.27 um	885 nm
Asymmetry	0.097		
Theta	30.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
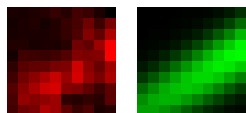
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.726$

Parameters:
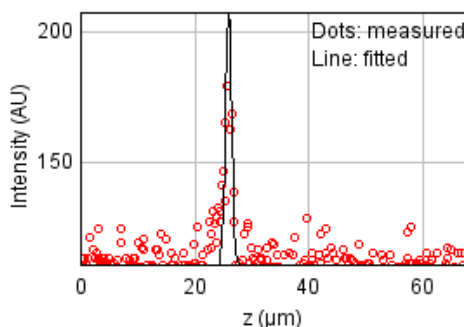 A = 115.338   (brightness)
 B = 115.280   (background)
 a = 0.046 px
 b = 0.075 px
 c = 0.130 px
xc = 17.175 px
yc = -1.116 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 14864.3601
Standard deviation: 6.95831
R^2: 0.72757
Parameters:
 a = 110.95351
 b = 207.99343
 c = 26.01738
 d = 0.53843

Bead 1243 (Rejected)

Date : Mon Oct 17 13:28:59 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 129 um (x), 42.5 um (y), 26.0 um (z)
Corresponding bead : Not found
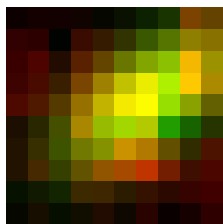Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	837 nm	865 nm	223 nm
max	1.65 um	1.71 um	223 nm
z	1.27 um	1.27 um	885 nm
Asymmetry	0.506		
Theta	35.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
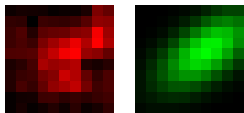
Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
  $R^2 = 0.711$

Parameters:
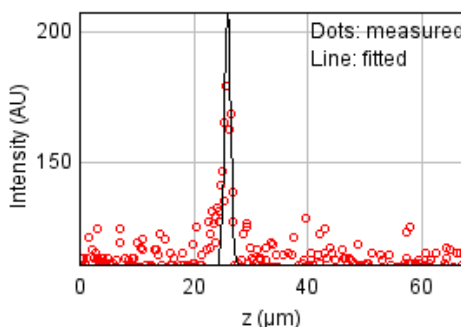 A = 93.056   (brightness)
 B = 121.580   (background)
 a = 0.097 px
 b = 0.067 px
 c = 0.144 px

xc = 6.101 px
yc = 3.676 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 14864.3601
Standard deviation: 6.95831
R^2: 0.72757
Parameters:
 a = 110.95351
 b = 207.99343
 c = 26.01738
 d = 0.53843

Bead 1244

Date : Mon Oct 17 13:28:59 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
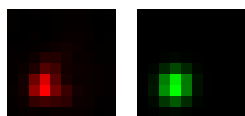Frame size : 10 pixels

Coordinates : 46.4 um (x), 34.0 um (y), 50.0 um (z)
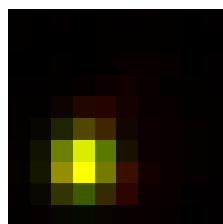Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	450 nm	466 nm	223 nm
max	490 nm	506 nm	223 nm
z	1.36 um	1.36 um	885 nm
Asymmetry	0.92		
Theta	74.0°		

XY profile & fitting parameters :

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

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

Parameters:
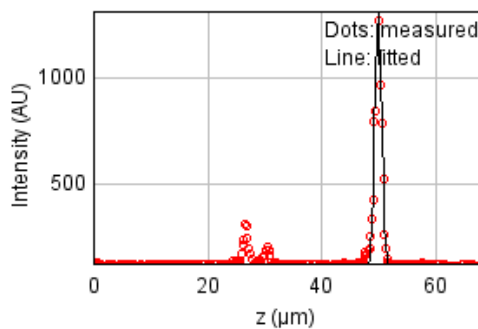 A = 1192.420   (brightness)
 B = 137.393   (background)
 a = 0.654 px
 b = 0.027 px
 c = 0.567 px

  xc = 2.962 px
  yc = 6.567 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 250379.238
Standard deviation: 28.55814
R^2: 0.96268
Parameters:
 a = 120.61857
 b = 1317.47643
 c = 49.95160
 d = 0.57708

Bead 1245

Date : Mon Oct 17 13:28:59 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
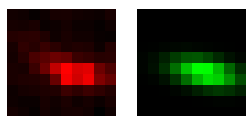Frame size : 10 pixels

Coordinates : 154 um (x), 22.1 um (y), 27.1 um (z)
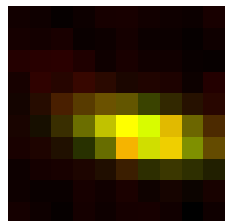Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	425 nm	440 nm	223 nm
max	1.04 um	1.08 um	223 nm
z	2.15 um	2.16 um	885 nm
Asymmetry	0.407		
Theta	-10.9°		

XY profile & fitting parameters :

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

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

  Parameters:
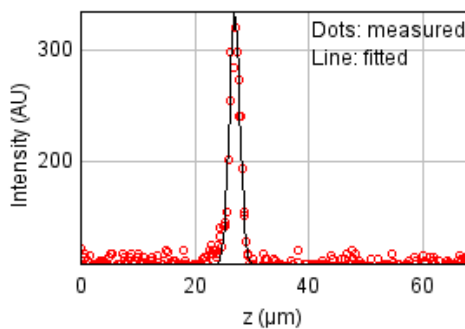 A = 230.015   (brightness)
  B = 114.951   (background)
  a = 0.145 px
  b = -0.114 px
  c = 0.720 px

 xc = 5.750 px
 yc = 5.375 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 18312.2150
Standard deviation: 7.72327
R^2: 0.95025
Parameters:
 a = 109.66035
 b = 333.20271
 c = 27.05029
 d = 0.91230

Bead 1246

Date : Mon Oct 17 13:28:59 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
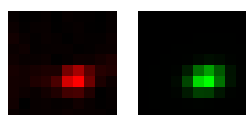Frame size : 10 pixels

Coordinates : -164 um (x), 20.1 um (y), 27.6 um (z)
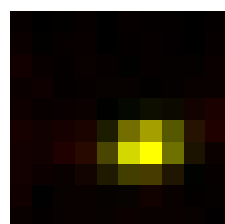Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	367 nm	379 nm	223 nm
max	536 nm	554 nm	223 nm
z	1.54 um	1.55 um	885 nm
Asymmetry	0.684		
Theta	12.2°		

XY profile & fitting parameters :

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

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

Parameters:
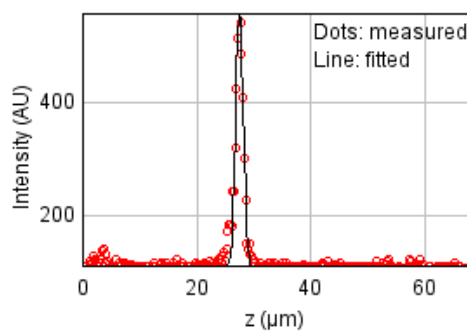 A = 518.982   (brightness)
 B = 118.500   (background)
 a = 0.491 px
 b = 0.110 px
 c = 0.973 px

xc = 5.715 px
yc = 5.775 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 36352.4460
Standard deviation: 10.88172
R^2: 0.96482
Parameters:
 a = 112.79760
 b = 555.18203
 c = 27.55656
 d = 0.65477

Bead 1247

Date : Mon Oct 17 13:28:59 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
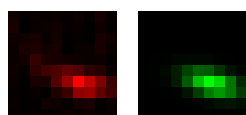Frame size : 10 pixels

Coordinates : 162 um (x), 17.3 um (y), 27.2 um (z)
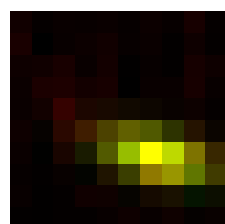Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	375 nm	388 nm	223 nm
max	864 nm	893 nm	223 nm
z	1.85 um	1.85 um	885 nm
Asymmetry	0.435		
Theta	-14.8°		

XY profile & fitting parameters :

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

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

Parameters:
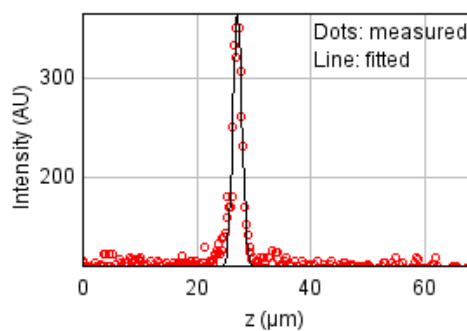 A = 269.766 (brightness)
 B = 114.325 (background)
 a = 0.230 px
 b = -0.191 px
 c = 0.902 px

xc = 6.260 px
yc = 6.143 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 24703.0591
Standard deviation: 8.97028
R^2: 0.94037
Parameters:
 a = 111.82592
 b = 365.37888
 c = 27.19304
 d = 0.78424

Bead 1248

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
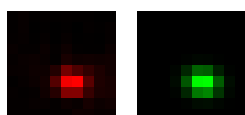Frame size : 10 pixels

Coordinates : 116 um (x), 16.9 um (y), 27.4 um (z)
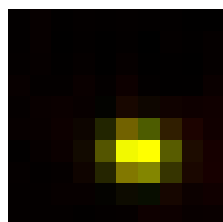Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	399 nm	413 nm	223 nm
max	508 nm	525 nm	223 nm
z	1.35 um	1.35 um	885 nm
Asymmetry	0.786		
Theta	-7.9°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 680.410   (brightness)
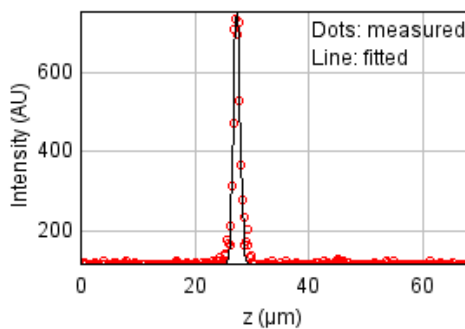 B = 120.253   (background)
 a = 0.526 px
 b = -0.044 px
 c = 0.835 px

xc = 5.531 px
yc = 6.087 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 47024.8271
Standard deviation: 12.37640
R^2: 0.97550
Parameters:
 a = 113.99672
 b = 761.11866
 c = 27.42943
 d = 0.57208

Bead 1249

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
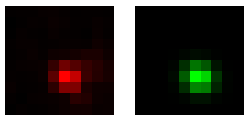Frame size : 10 pixels

Coordinates : 102 um (x), 8.78 um (y), 27.5 um (z)
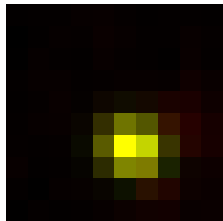Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	425 nm	439 nm	223 nm
max	478 nm	494 nm	223 nm
z	1.37 um	1.37 um	885 nm
Asymmetry	0.889		
Theta	-21.6°		

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 = 818.320   (brightness)
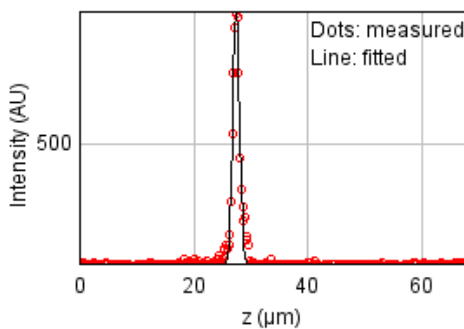 B = 124.445   (background)
 a = 0.609 px
 b = -0.053 px
 c = 0.722 px

xc = 5.354 px
yc = 6.075 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 80509.6416
Standard deviation: 16.19402
R^2: 0.97351
Parameters:
 a = 113.73603
 b = 920.90682
 c = 27.51072
 d = 0.58133

Bead 1250

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
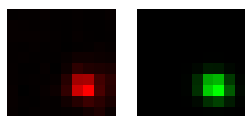Frame size : 10 pixels

Coordinates : 80.9 um (x), 5.79 um (y), 28.3 um (z)
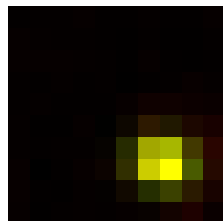Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	393 nm	407 nm	223 nm
max	468 nm	484 nm	223 nm
z	1.32 um	1.32 um	885 nm
Asymmetry	0.841		
Theta	-15.2°		

XY profile & fitting parameters :

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

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

Parameters:
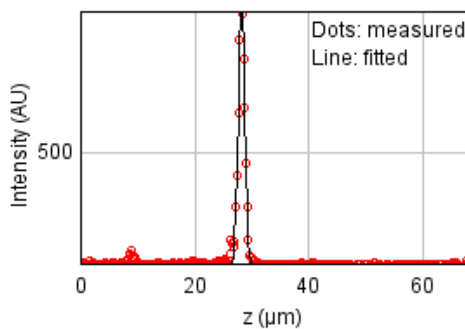 A = 1002.583   (brightness)
 B = 120.259   (background)
 a = 0.631 px
 b = -0.064 px
 c = 0.850 px

xc = 6.641 px
yc = 6.671 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 40916.2476
Standard deviation: 11.54460
R^2: 0.98824
Parameters:
 a = 114.57178
 b = 1000.59876
 c = 28.26749
 d = 0.55986

Bead 1251

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
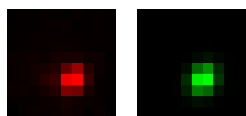Frame size : 10 pixels

Coordinates : -132 um (x), -8.13 um (y), 27.5 um (z)
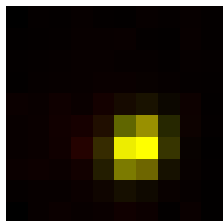Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	382 nm	394 nm	223 nm
max	455 nm	470 nm	223 nm
z	1.32 um	1.32 um	885 nm
Asymmetry	0.839		
Theta	52.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 873.891   (brightness)
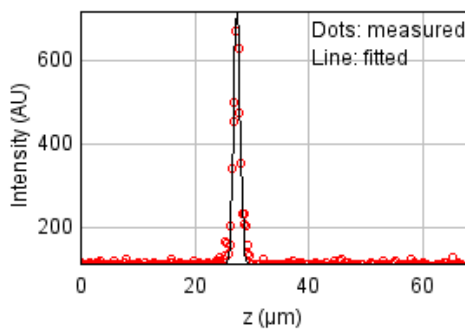 B = 121.354   (background)
 a = 0.822 px
 b = 0.131 px
 c = 0.748 px

xc = 5.551 px
yc = 5.965 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 80510.8509
Standard deviation: 16.19414
R^2: 0.95270
Parameters:
 a = 111.74560
 b = 720.90244
 c = 27.45093
 d = 0.55879

Bead 1252

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
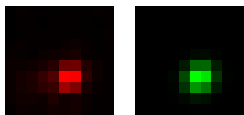Frame size : 10 pixels

Coordinates : -84.6 um (x), -9.92 um (y), 28.2 um (z)
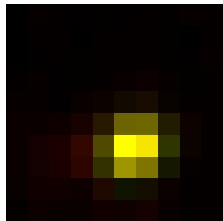Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	413 nm	427 nm	223 nm
max	461 nm	476 nm	223 nm
z	1.89 um	1.89 um	885 nm
Asymmetry	0.897		
Theta	33.4°		

XY profile & fitting parameters :

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

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

Parameters:
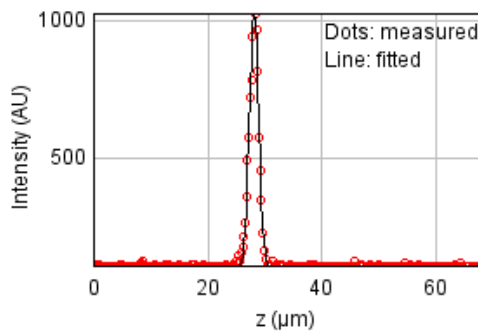 A = 1132.162   (brightness)
 B = 130.374   (background)
 a = 0.679 px
 b = 0.071 px
 c = 0.739 px

xc = 5.409 px
yc = 6.096 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 44169.2841
Standard deviation: 11.99474
R^2: 0.99149
Parameters:
 a = 112.32660
 b = 1024.55313
 c = 28.19062
 d = 0.80120

Bead 1253

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
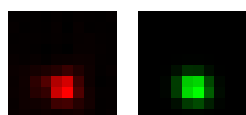Frame size : 10 pixels

Coordinates : -122 um (x), -46.1 um (y), 27.7 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	430 nm	445 nm	223 nm
max	489 nm	506 nm	223 nm
z	1.44 um	1.45 um	885 nm
Asymmetry	0.88		
Theta	-17.6°		

XY profile & fitting parameters :

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

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

Parameters:
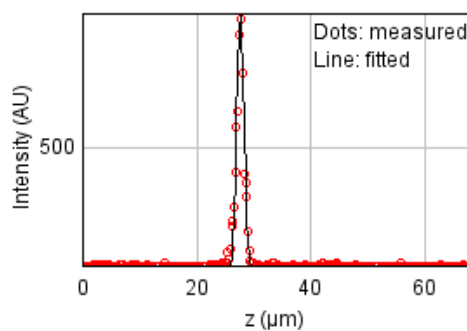A = 1078.863 (brightness)
B = 124.796 (background)
a = 0.576 px
b = -0.047 px
c = 0.710 px

xc = 4.605 px
yc = 6.599 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 102011.330
Standard deviation: 18.22867
R^2: 0.96948
Parameters:
a = 113.63750
b = 937.27090
c = 27.71062
d = 0.61258

Bead 1254

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
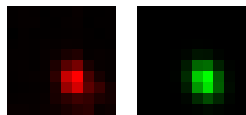Frame size : 10 pixels

Coordinates : 25.5 um (x), -55.5 um (y), 27.6 um (z)
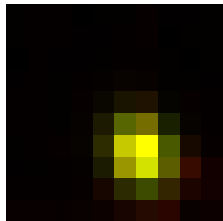Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	442 nm	457 nm	223 nm
max	546 nm	564 nm	223 nm
z	1.24 um	1.24 um	885 nm
Asymmetry	0.81		
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 = 0.968

Parameters:
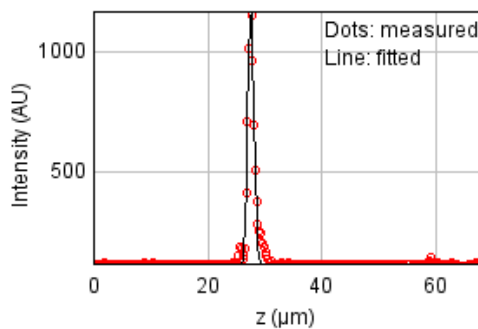A = 1114.252   (brightness)
B = 124.221   (background)
a = 0.650 px
b = -0.086 px
c = 0.488 px

xc = 5.727 px
yc = 6.324 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 119641.809
Standard deviation: 19.74114
R^2: 0.97514
Parameters:
a = 116.49875
b = 1183.92519
c = 27.63218
d = 0.52560

Bead 1255

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
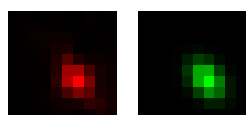Frame size : 10 pixels

Coordinates : 89.3 um (x), -74.8 um (y), 27.6 um (z)
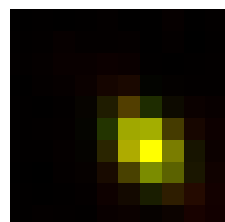Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	434 nm	449 nm	223 nm
max	627 nm	648 nm	223 nm
z	1.54 um	1.54 um	885 nm
Asymmetry	0.692		
Theta	-50.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1015.601   (brightness)
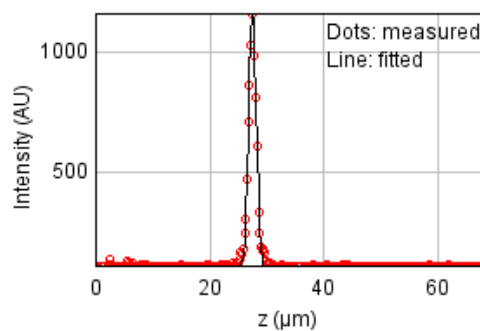 B = 126.648   (background)
 a = 0.561 px
 b = -0.182 px
 c = 0.492 px

xc = 5.799 px
yc = 5.815 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 42311.1157
Standard deviation: 11.73973
R^2: 0.99242
Parameters:
 a = 114.52912
 b = 1159.57993
 c = 27.56307
 d = 0.65214

Bead 1256

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
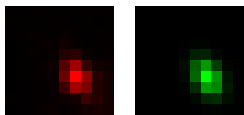Frame size : 10 pixels

Coordinates : 72.2 um (x), -74.6 um (y), 27.5 um (z)
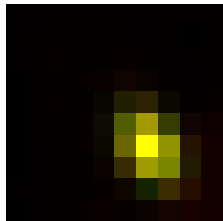Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	399 nm	413 nm	223 nm
max	589 nm	608 nm	223 nm
z	1.28 um	1.28 um	885 nm
Asymmetry	0.678		
Theta	-60.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1090.868   (brightness)
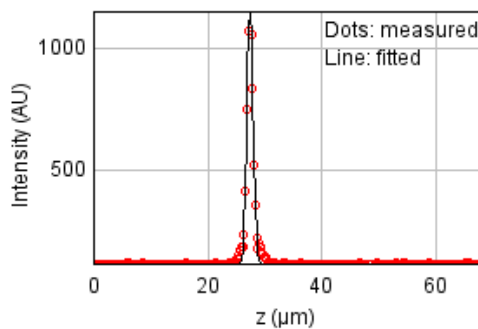 B = 124.924   (background)
 a = 0.731 px
 b = -0.196 px
 c = 0.499 px

xc = 6.139 px
yc = 6.062 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 79230.5215
Standard deviation: 16.06486
R^2: 0.98305
Parameters:
 a = 114.72190
 b = 1154.66382
 c = 27.47197
 d = 0.54281

Bead 1257 (Rejected)

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -139 um (x), -83.9 um (y), 28.5 um (z)
Corresponding bead : Not found
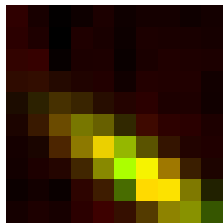Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	396 nm	409 nm	223 nm
max	1.41 um	1.46 um	223 nm
z	1.25 um	1.26 um	885 nm
Asymmetry	0.28		
Theta	-35.3°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
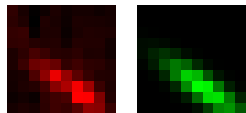
Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
   R^2 = 0.906

Parameters:
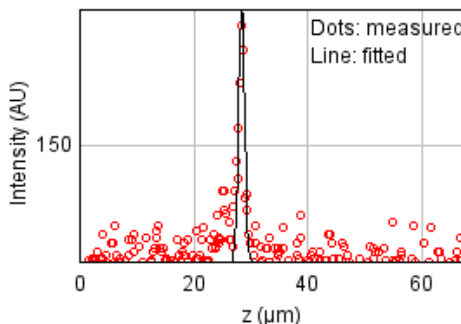 A = 206.064   (brightness)
 B = 117.976   (background)
 a = 0.331 px
 b = -0.372 px
 c = 0.593 px

xc = 5.620 px
yc = 7.168 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 15068.9279
Standard deviation: 7.00603
R^2: 0.66280
Parameters:
 a = 111.38427
 b = 195.75933
 c = 28.46081
 d = 0.53117

Bead 1258

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
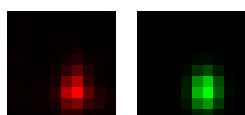Frame size : 10 pixels

Coordinates : -5.33 um (x), 79.7 um (y), 27.9 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	443 nm	458 nm	223 nm
max	588 nm	608 nm	223 nm
z	1.3 um	1.31 um	885 nm
Asymmetry	0.753		
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 = 0.973

Parameters:
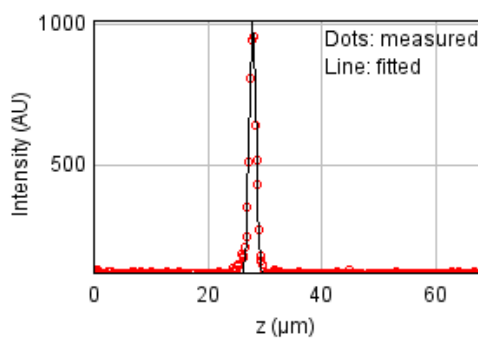 A = 933.688   (brightness)
 B = 120.930   (background)
 a = 0.684 px
 b = 0.011 px
 c = 0.389 px

xc = 5.756 px
yc = 6.844 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 55401.1950
Standard deviation: 13.43354
R^2: 0.98437
Parameters:
 a = 114.73358
 b = 1012.04908
 c = 27.92572
 d = 0.55381

Bead 1259

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
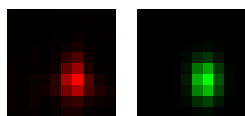Frame size : 10 pixels

Coordinates : -18.1 um (x), 71.7 um (y), 28.1 um (z)
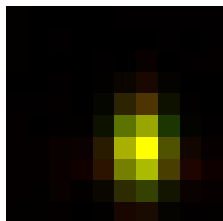Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	423 nm	437 nm	223 nm
max	601 nm	622 nm	223 nm
z	1.21 um	1.21 um	885 nm
Asymmetry	0.703		
Theta	-89.5°		

XY profile & fitting parameters :

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

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

Parameters:
A = 1239.764   (brightness)
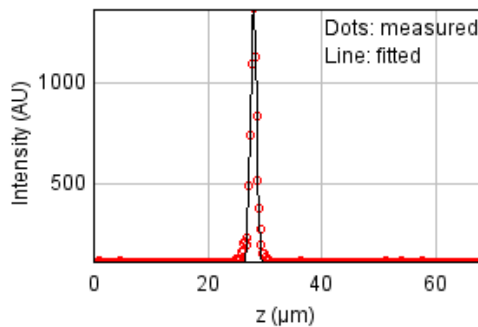B = 126.396   (background)
a = 0.750 px
b = -0.003 px
c = 0.371 px

xc = 5.750 px
yc = 6.075 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 65464.1813
Standard deviation: 14.60268
R^2: 0.98997
Parameters:
a = 115.40731
b = 1383.25613
c = 28.07638
d = 0.51258

Bead 1260

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
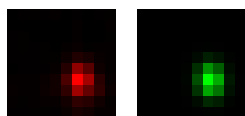Frame size : 10 pixels

Coordinates : -6.55 um (x), 52.1 um (y), 28.1 um (z)
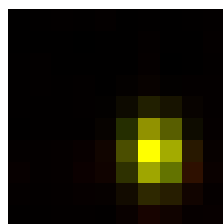Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	411 nm	425 nm	223 nm
max	520 nm	537 nm	223 nm
z	1.23 um	1.23 um	885 nm
Asymmetry	0.791		
Theta	-86.5°		

XY profile & fitting parameters :

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

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

Parameters:
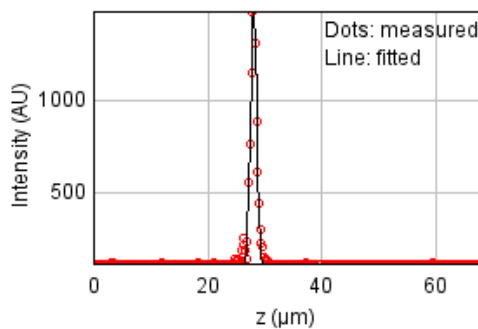 A = 1384.650   (brightness)
 B = 122.071   (background)
 a = 0.793 px
 b = -0.018 px
 c = 0.498 px

xc = 6.248 px
yc = 6.073 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 102400.193
Standard deviation: 18.26338
R^2: 0.98677
Parameters:
 a = 115.95233
 b = 1482.88305
 c = 28.10021
 d = 0.52147

Bead 1261

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
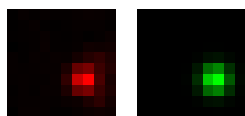Frame size : 10 pixels

Coordinates : 90.6 um (x), 42.0 um (y), 28.2 um (z)
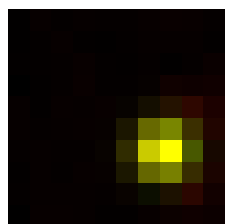Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	447 nm	462 nm	223 nm
max	457 nm	472 nm	223 nm
z	1.29 um	1.29 um	885 nm
Asymmetry	0.978		
Theta	16.3°		

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:
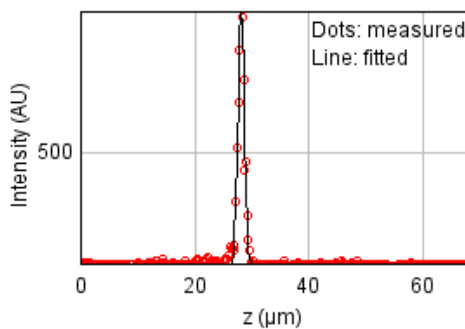 A = 962.020   (brightness)
 B = 125.803   (background)
 a = 0.645 px
 b = 0.008 px
 c = 0.670 px

xc = 6.678 px
yc = 5.987 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 65824.7417
Standard deviation: 14.64284
R^2: 0.98020
Parameters:
 a = 115.44824
 b = 988.31950
 c = 28.19655
 d = 0.54648

Bead 1262

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
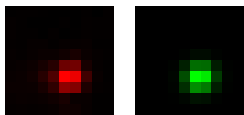Frame size : 10 pixels

Coordinates : -122 um (x), -24.2 um (y), 28.1 um (z)
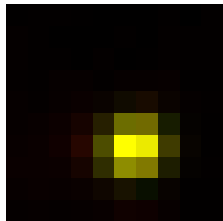Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	428 nm	442 nm	223 nm
max	460 nm	475 nm	223 nm
z	1.55 um	1.56 um	885 nm
Asymmetry	0.93		
Theta	17.4°		

XY profile & fitting parameters :

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

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

Parameters:
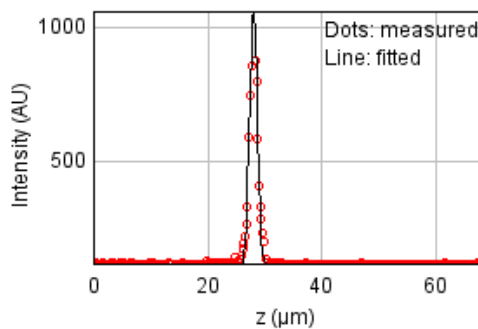 A = 1223.194   (brightness)
 B = 125.206   (background)
 a = 0.644 px
 b = 0.028 px
 c = 0.725 px

xc = 5.427 px
yc = 6.071 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 76763.0891
Standard deviation: 15.81274
R^2: 0.98382
Parameters:
 a = 114.00390
 b = 1069.01943
 c = 28.07764
 d = 0.65781

Bead 1263

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
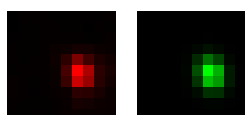Frame size : 10 pixels

Coordinates : 86.7 um (x), -33.1 um (y), 28.0 um (z)
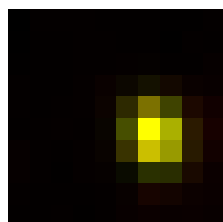Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	424 nm	223 nm
max	505 nm	522 nm	223 nm
z	1.2 um	1.2 um	885 nm
Asymmetry	0.812		
Theta	-72.6°		

XY profile & fitting parameters :

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

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

Parameters:
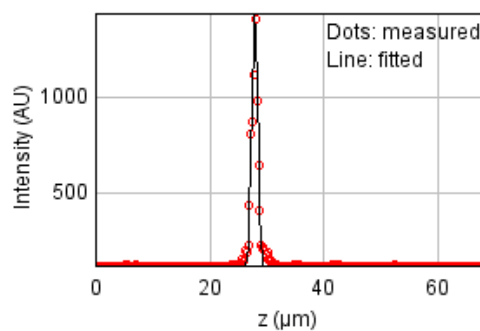 A = 1628.225   (brightness)
 B = 127.955   (background)
 a = 0.775 px
 b = -0.078 px
 c = 0.552 px

xc = 6.286 px
yc = 5.278 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 184170.520
Standard deviation: 24.49294
R^2: 0.97439
Parameters:
 a = 114.55557
 b = 1440.57551
 c = 27.95412
 d = 0.50812

Bead 1264

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
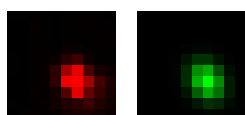Frame size : 10 pixels

Coordinates : 47.7 um (x), -49.5 um (y), 28.3 um (z)
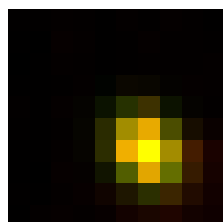Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	491 nm	507 nm	223 nm
max	616 nm	636 nm	223 nm
z	1.76 um	1.77 um	885 nm
Asymmetry	0.797		
Theta	-55.4°		

XY profile & fitting parameters :

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

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

Parameters:
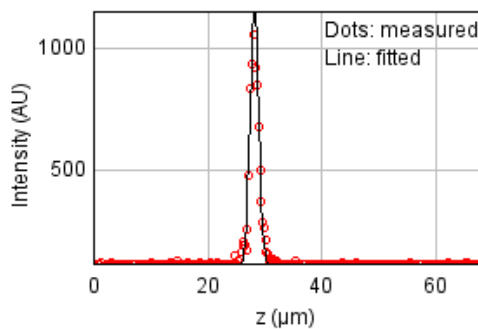 A = 1094.017   (brightness)
 B = 121.758   (background)
 a = 0.492 px
 b = -0.095 px
 c = 0.420 px

 xc = 5.878 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: 350185.265
Standard deviation: 33.77379
R^2: 0.94769
Parameters:
 a = 114.35059
 b = 1161.85845
 c = 28.25097
 d = 0.74688

Bead 1265

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
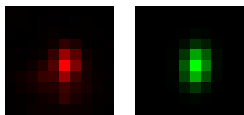Frame size : 10 pixels

Coordinates : -43.5 um (x), -53.0 um (y), 27.8 um (z)
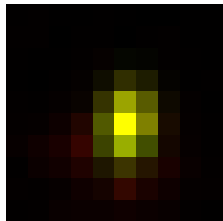Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	403 nm	223 nm
max	573 nm	593 nm	223 nm
z	1.3 um	1.3 um	885 nm
Asymmetry	0.68		
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 = 0.943

Parameters:
 A = 1323.197   (brightness)
 B = 140.866   (background)
 a = 0.877 px
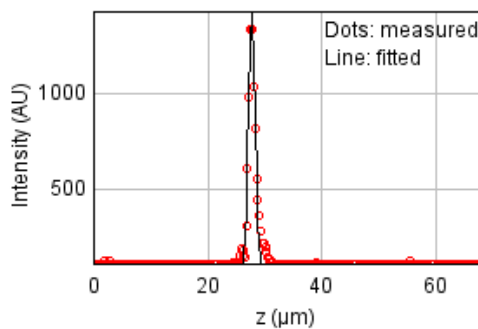 b = 0.053 px
 c = 0.414 px

xc = 5.103 px
yc = 5.023 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 209289.096
Standard deviation: 26.10983
R^2: 0.97285
Parameters:
 a = 116.22209
 b = 1435.12206
 c = 27.79169
 d = 0.55104

Bead 1266

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
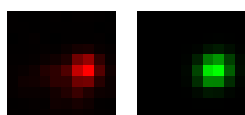Frame size : 10 pixels

Coordinates : -60.1 um (x), -66.2 um (y), 28.0 um (z)
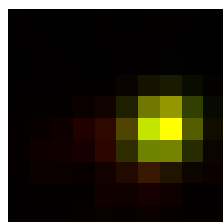Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	457 nm	473 nm	223 nm
max	512 nm	530 nm	223 nm
z	1.34 um	1.34 um	885 nm
Asymmetry	0.893		
Theta	35.0°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1091.783   (brightness)
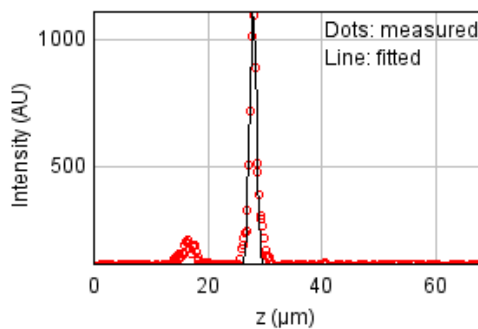 B = 136.371   (background)
 a = 0.554 px
 b = 0.061 px
 c = 0.599 px

xc = 6.602 px
yc = 4.980 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 250461.483
Standard deviation: 28.56283
R^2: 0.94618
Parameters:
 a = 120.58747
 b = 1116.09411
 c = 28.00584
 d = 0.56840

Bead 1267

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
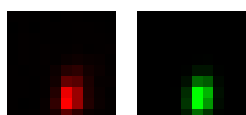Frame size : 10 pixels

Coordinates : -56.7 um (x), 95.2 um (y), 62.2 um (z)
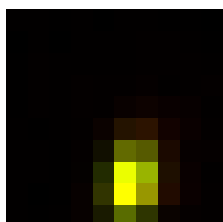Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	354 nm	366 nm	223 nm
max	565 nm	584 nm	223 nm
z	1.38 um	1.38 um	885 nm
Asymmetry	0.626		
Theta	82.0°		

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
  $R^2 = 0.982$

Parameters:
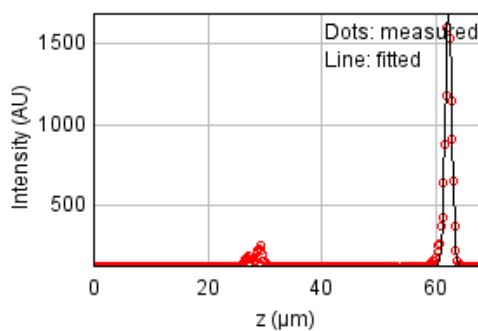 A = 2101.755   (brightness)
 B = 128.967   (background)
 a = 1.061 px
 b = 0.090 px
 c = 0.433 px

xc = 5.299 px
yc = 7.446 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 466058.702
Standard deviation: 38.96289
R^2: 0.96010
Parameters:
 a = 120.38632
 b = 1686.89747
 c = 62.24953
 d = 0.58521

Bead 1268

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
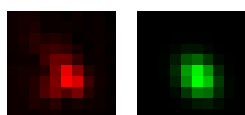Frame size : 10 pixels

Coordinates : -108 um (x), 87.0 um (y), 28.1 um (z)
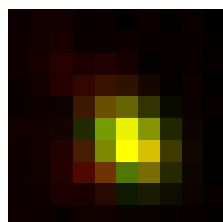Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	500 nm	517 nm	223 nm
max	636 nm	658 nm	223 nm
z	1.59 um	1.6 um	885 nm
Asymmetry	0.786		
Theta	-51.9°		

XY profile & fitting parameters :

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

Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
   $R^2 = 0.903$

Parameters:
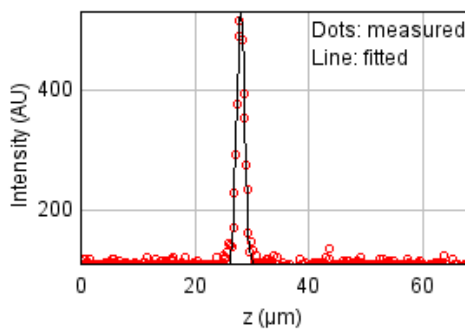 A = 484.695   (brightness)
 B = 127.637   (background)
 a = 0.459 px
 b = -0.100 px
 c = 0.410 px

xc = 5.097 px
yc = 5.589 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 20183.3511
Standard deviation: 8.10826
R^2: 0.97846
Parameters:
 a = 112.34586
 b = 530.06959
 c = 28.10782
 d = 0.67602

Bead 1269

Date : Mon Oct 17 13:29:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
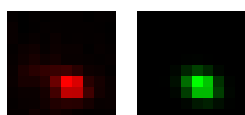Frame size : 10 pixels

Coordinates : -158 um (x), 70.8 um (y), 28.1 um (z)
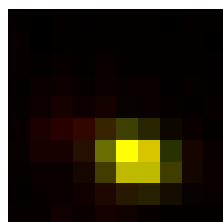Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	385 nm	398 nm	223 nm
max	513 nm	530 nm	223 nm
z	1.73 um	1.73 um	885 nm
Asymmetry	0.75		
Theta	-21.0°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 808.081   (brightness)
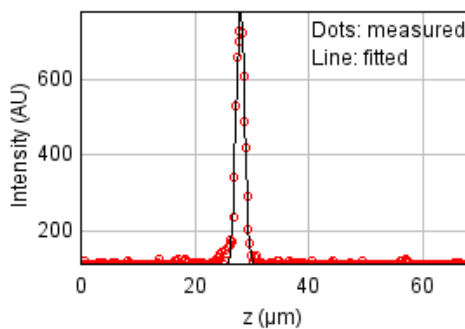 B = 123.005   (background)
 a = 0.561 px
 b = -0.133 px
 c = 0.855 px

xc = 5.351 px
yc = 6.367 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 31354.8358
Standard deviation: 10.10609
R^2: 0.98791
Parameters:
 a = 111.57729
 b = 782.81820
 c = 28.06284
 d = 0.73382

Bead 1270

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
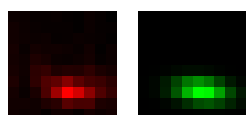Frame size : 10 pixels

Coordinates : 134 um (x), 15.0 um (y), 27.3 um (z)
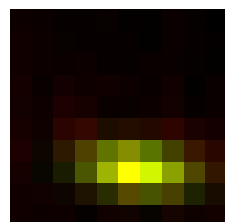Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	381 nm	393 nm	223 nm
max	853 nm	882 nm	223 nm
z	2.18 um	2.18 um	885 nm
Asymmetry	0.446		
Theta	-6.2°		

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:
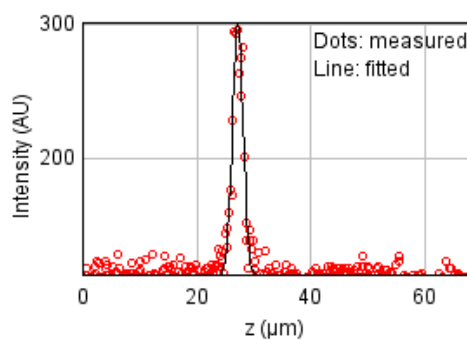 A = 335.373   (brightness)
 B = 117.775   (background)
 a = 0.193 px
 b = -0.080 px
 c = 0.917 px

xc = 5.344 px
yc = 6.853 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 23764.5394
Standard deviation: 8.79823
R^2: 0.91536
Parameters:
 a = 111.43150
 b = 301.91540
 c = 27.25430
 d = 0.92387

Bead 1271

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
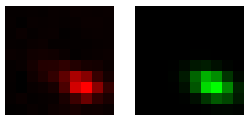Frame size : 10 pixels

Coordinates : 134 um (x), 2.03 um (y), 28.2 um (z)
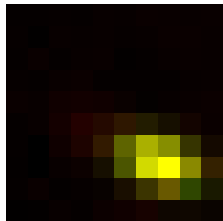Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	388 nm	401 nm	223 nm
max	646 nm	668 nm	223 nm
z	1.58 um	1.59 um	885 nm
Asymmetry	0.6		
Theta	-20.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 612.846   (brightness)
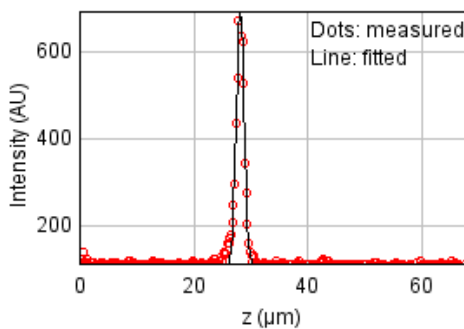 B = 118.097   (background)
 a = 0.392 px
 b = -0.188 px
 c = 0.820 px

xc = 6.590 px
yc = 6.764 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 29321.2369
Standard deviation: 9.77287
R^2: 0.98373
Parameters:
 a = 111.73782
 b = 694.20452
 c = 28.21038
 d = 0.67216

Bead 1272

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
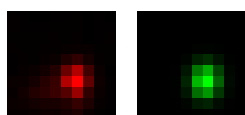Frame size : 10 pixels

Coordinates : -73.1 um (x), -12.5 um (y), 28.5 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	455 nm	470 nm	223 nm
max	534 nm	552 nm	223 nm
z	1.75 um	1.75 um	885 nm
Asymmetry	0.851		
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:
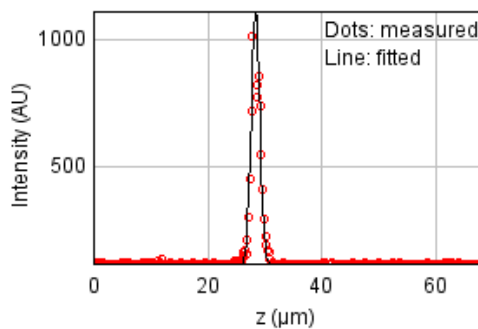 A = 1257.706   (brightness)
 B = 137.619   (background)
 a = 0.648 px
 b = 0.015 px
 c = 0.471 px

xc = 5.761 px
yc = 5.939 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 294177.544
Standard deviation: 30.95534
R^2: 0.95155
Parameters:
 a = 114.09954
 b = 1116.91745
 c = 28.45138
 d = 0.74194

Bead 1273

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
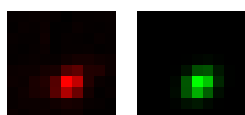Frame size : 10 pixels

Coordinates : -148 um (x), -12.8 um (y), 27.6 um (z)
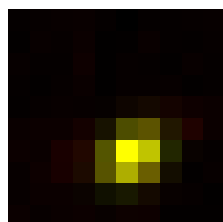Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	381 nm	394 nm	223 nm
max	492 nm	508 nm	223 nm
z	1.42 um	1.42 um	885 nm
Asymmetry	0.776		
Theta	36.4°		

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
  $R^2 = 0.980$

Parameters:
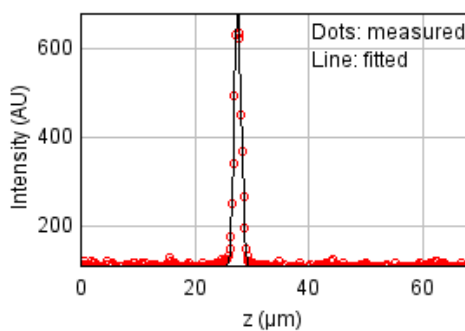 A = 636.548   (brightness)
 B = 117.074   (background)
 a = 0.685 px
 b = 0.175 px
 c = 0.793 px

xc = 5.252 px
yc = 6.203 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 21091.2530
Standard deviation: 8.28862
R^2: 0.98651
Parameters:
 a = 111.84495
 b = 685.14391
 c = 27.60492
 d = 0.60146

Bead 1274

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
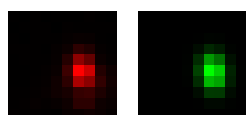Frame size : 10 pixels

Coordinates : 961 nm (x), -16.5 um (y), 28.3 um (z)
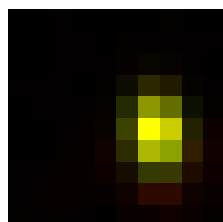Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	424 nm	223 nm
max	568 nm	587 nm	223 nm
z	1.36 um	1.37 um	885 nm
Asymmetry	0.722		
Theta	-82.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.973$

Parameters:
A = 1940.322   (brightness)
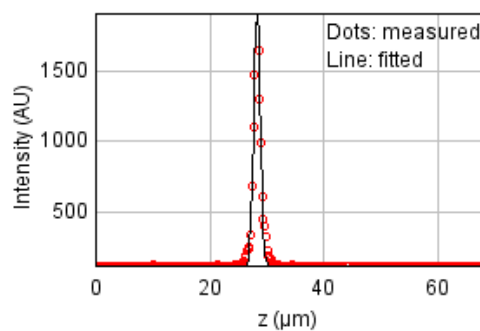B = 135.558   (background)
a = 0.792 px
b = -0.050 px
c = 0.423 px

xc = 6.369 px
yc = 5.156 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 187719.112
Standard deviation: 24.72778
R^2: 0.98724
Parameters:
a = 117.60845
b = 1908.80644
c = 28.34614
d = 0.57935

Bead 1275

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
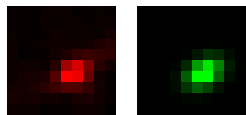Frame size : 10 pixels

Coordinates : -160 um (x), -30.5 um (y), 28.1 um (z)
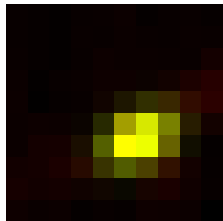Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	400 nm	413 nm	223 nm
max	591 nm	611 nm	223 nm
z	1.74 um	1.74 um	885 nm
Asymmetry	0.677		
Theta	27.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.966$

Parameters:
A = 701.365 (brightness)
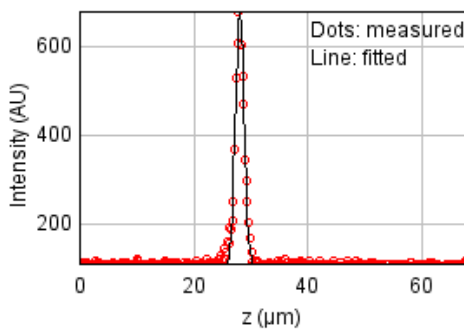B = 124.544 (background)
a = 0.482 px
b = 0.187 px
c = 0.743 px

xc = 5.642 px
yc = 5.656 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 35392.7839
Standard deviation: 10.73713
R^2: 0.98129
Parameters:
 a = 110.92397
 b = 680.83634
 c = 28.12920
 d = 0.73773

Bead 1276

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
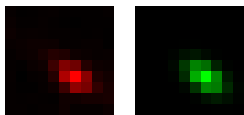Frame size : 10 pixels

Coordinates : 115 um (x), -37.6 um (y), 28.2 um (z)
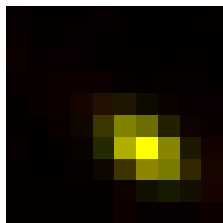Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	377 nm	389 nm	223 nm
max	639 nm	661 nm	223 nm
z	1.41 um	1.41 um	885 nm
Asymmetry	0.589		
Theta	-34.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1047.872   (brightness)
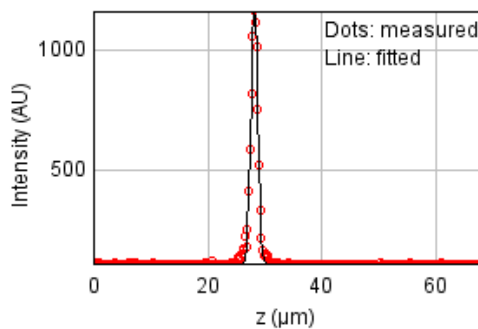 B = 123.166   (background)
 a = 0.522 px
 b = -0.287 px
 c = 0.752 px

xc = 5.889 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: 36477.9631
Standard deviation: 10.90049
R^2: 0.99301
Parameters:
 a = 113.14880
 b = 1166.78127
 c = 28.23439
 d = 0.59827

Bead 1277

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
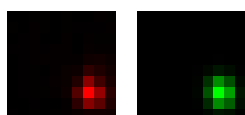Frame size : 10 pixels

Coordinates : 102 um (x), -44.7 um (y), 52.6 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	419 nm	223 nm
max	472 nm	488 nm	223 nm
z	1.26 um	1.26 um	885 nm
Asymmetry	0.859		
Theta	-78.0°		

XY profile & fitting parameters :

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

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

Parameters:
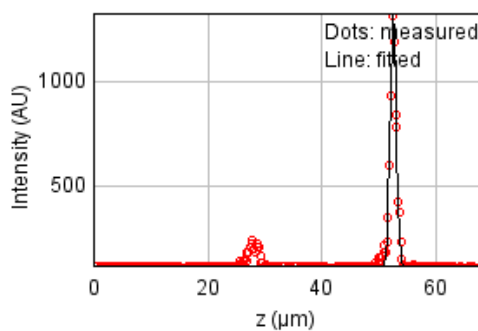 A = 1197.153   (brightness)
 B = 119.608   (background)
 a = 0.806 px
 b = -0.044 px
 c = 0.610 px

xc = 7.208 px
yc = 7.013 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 224475.783
Standard deviation: 27.04055
R^2: 0.96432
Parameters:
 a = 117.43128
 b = 1322.74560
 c = 52.59024
 d = 0.53318

Bead 1278

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
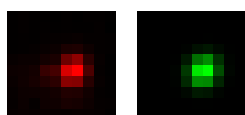Frame size : 10 pixels

Coordinates : -93.6 um (x), -50.4 um (y), 28.2 um (z)
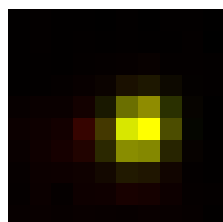Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	436 nm	451 nm	223 nm
max	489 nm	505 nm	223 nm
z	1.45 um	1.46 um	885 nm
Asymmetry	0.893		
Theta	53.1°		

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 = 0.969

Parameters:
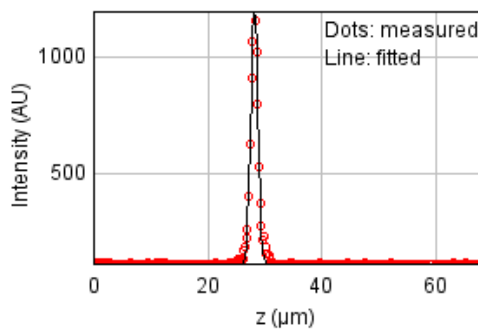A = 1185.794   (brightness)
B = 133.660   (background)
a = 0.653 px
b = 0.069 px
c = 0.613 px

xc = 5.575 px
yc = 5.036 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 50537.8642
Standard deviation: 12.83037
R^2: 0.99125
Parameters:
a = 114.19904
b = 1205.07059
c = 28.23413
d = 0.61723

Bead 1279

Date : Mon Oct 17 13:29:01 PDT 2022
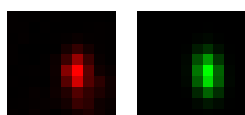Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 24.2 um (x), -73.5 um (y), 27.7 um (z)
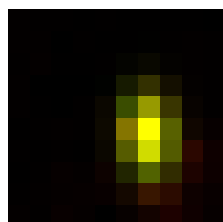Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	641 nm	663 nm	223 nm
z	1.16 um	1.17 um	885 nm
Asymmetry	0.609		
Theta	-85.4°		

XY profile & fitting parameters :

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

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

Parameters:
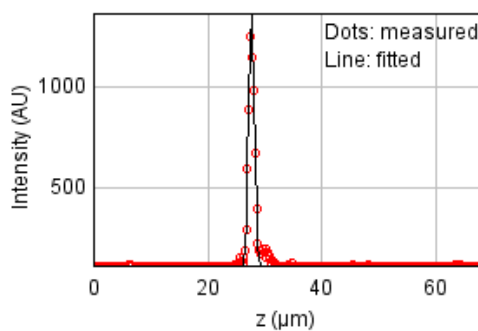 A = 1286.822   (brightness)
 B = 131.524   (background)
 a = 0.876 px
 b = -0.044 px
 c = 0.330 px

xc = 5.962 px
yc = 5.265 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 87475.7503
Standard deviation: 16.88009
R^2: 0.98563
Parameters:
 a = 115.51899
 b = 1360.55016
 c = 27.74194
 d = 0.49326

Bead 1280

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
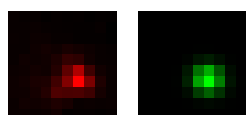Frame size : 10 pixels

Coordinates : -78.8 um (x), 72.4 um (y), 28.7 um (z)
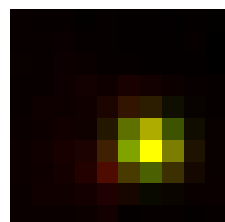Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	442 nm	457 nm	223 nm
max	482 nm	498 nm	223 nm
z	1.51 um	1.52 um	885 nm
Asymmetry	0.917		
Theta	-6.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 839.021   (brightness)
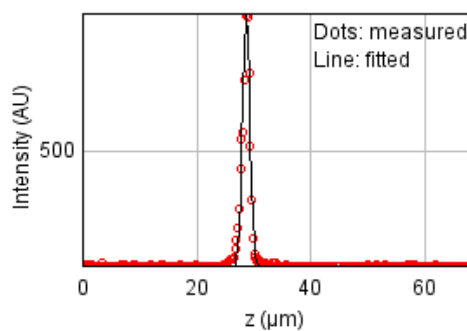 B = 135.594   (background)
 a = 0.580 px
 b = -0.013 px
 c = 0.687 px

xc = 5.886 px
yc = 5.784 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 77936.0024
Standard deviation: 15.93309
R^2: 0.97910
Parameters:
 a = 113.81354
 b = 967.76458
 c = 28.73931
 d = 0.64292

Bead 1281

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
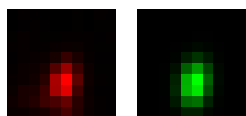Frame size : 10 pixels

Coordinates : -48.5 um (x), 16.6 um (y), 28.6 um (z)
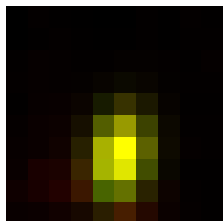Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	444 nm	459 nm	223 nm
max	674 nm	697 nm	223 nm
z	1.26 um	1.27 um	885 nm
Asymmetry	0.659		
Theta	80.7°		

XY profile & fitting parameters :

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

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

Parameters:
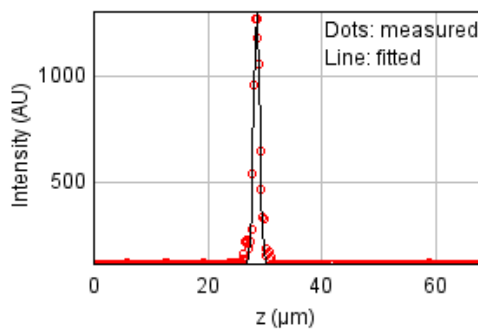A = 1161.352   (brightness)
B = 135.257   (background)
a = 0.669 px
b = 0.061 px
c = 0.305 px

xc = 4.741 px
yc = 6.381 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 125713.960
Standard deviation: 20.23590
R^2: 0.97914
Parameters:
 a = 116.14755
 b = 1302.33966
 c = 28.64241
 d = 0.53544

Bead 1282

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
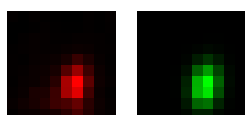Frame size : 10 pixels

Coordinates : -48.5 um (x), 16.6 um (y), 28.6 um (z)
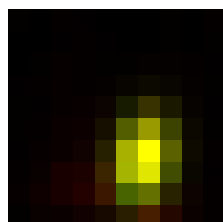Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	444 nm	459 nm	223 nm
max	674 nm	697 nm	223 nm
z	1.26 um	1.27 um	885 nm
Asymmetry	0.659		
Theta	80.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.965$

Parameters:
A = 1161.391 (brightness)
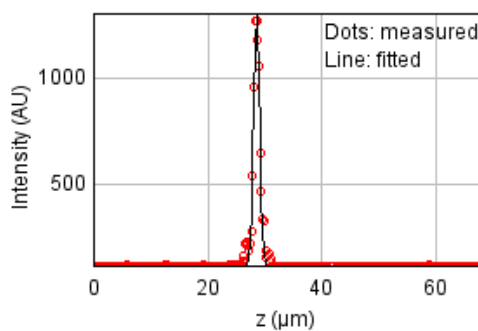B = 135.385 (background)
a = 0.670 px
b = 0.061 px
c = 0.305 px

xc = 5.741 px
yc = 6.381 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 125713.960
Standard deviation: 20.23590
R^2: 0.97914
Parameters:
a = 116.14755
b = 1302.33966
c = 28.64241
d = 0.53544

Bead 1283

Date : Mon Oct 17 13:29:01 PDT 2022
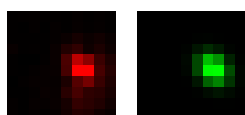Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 70.1 um (x), -11.8 um (y), 28.1 um (z)
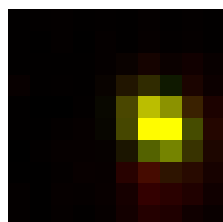Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	422 nm	436 nm	223 nm
max	532 nm	550 nm	223 nm
z	1.19 um	1.19 um	885 nm
Asymmetry	0.794		
Theta	-45.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.929$

Parameters:
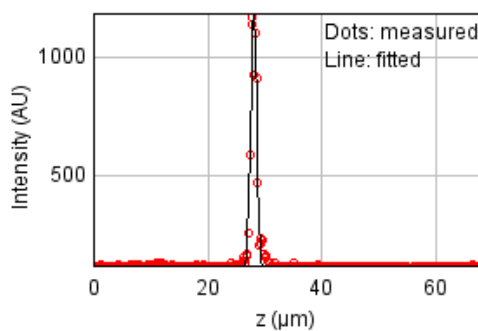A = 903.698   (brightness)
B = 136.897   (background)
a = 0.618 px
b = -0.139 px
c = 0.609 px

xc = 6.479 px
yc = 4.838 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 230332.018
Standard deviation: 27.39101
R^2: 0.95227
Parameters:
a = 114.20213
b = 1192.94852
c = 28.10529
d = 0.50344

Bead 1284

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
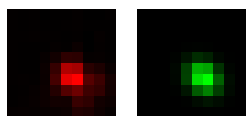Frame size : 10 pixels

Coordinates : 30.3 um (x), -50.1 um (y), 28.6 um (z)
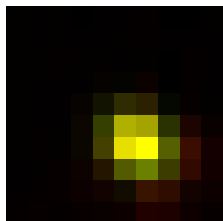Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	447 nm	463 nm	223 nm
max	542 nm	561 nm	223 nm
z	1.28 um	1.28 um	885 nm
Asymmetry	0.825		
Theta	-42.0°		

XY profile & fitting parameters :

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

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

Parameters:
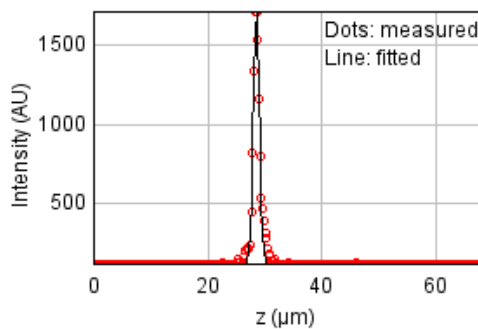 A = 1697.626   (brightness)
 B = 138.169   (background)
 a = 0.552 px
 b = -0.107 px
 c = 0.574 px

 xc = 5.588 px
 yc = 5.817 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 237402.764
Standard deviation: 27.80825
R^2: 0.97841
Parameters:
 a = 117.01931
 b = 1708.76103
 c = 28.59184
 d = 0.54257

Bead 1285

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
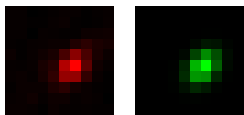Frame size : 10 pixels

Coordinates : -134 um (x), -50.2 um (y), 27.8 um (z)
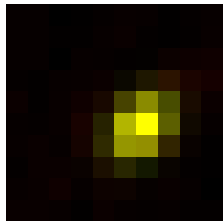Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	416 nm	223 nm
max	559 nm	578 nm	223 nm
z	1.28 um	1.29 um	885 nm
Asymmetry	0.72		
Theta	49.9°		

XY profile & fitting parameters :

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

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

Parameters:
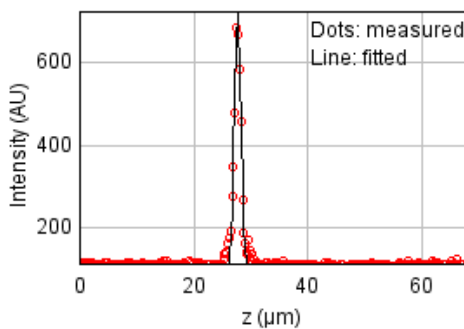 A = 640.818   (brightness)
 B = 121.586   (background)
 a = 0.662 px
 b = 0.197 px
 c = 0.595 px

xc = 5.729 px
yc = 5.100 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 32154.6345
Standard deviation: 10.23417
R^2: 0.98044
Parameters:
 a = 111.58067
 b = 726.53593
 c = 27.76486
 d = 0.54465

Bead 1286

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
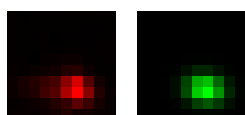Frame size : 10 pixels

Coordinates : -85.2 um (x), -70.6 um (y), 28.6 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	439 nm	453 nm	223 nm
max	590 nm	610 nm	223 nm
z	1.55 um	1.55 um	885 nm
Asymmetry	0.744		
Theta	-8.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1112.257   (brightness)
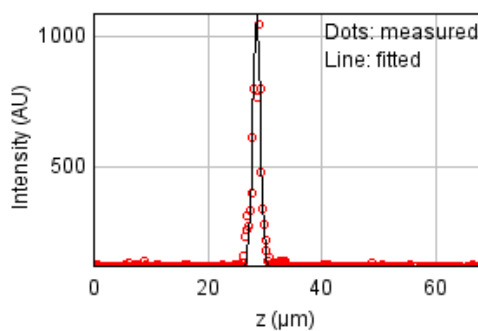 B = 130.012   (background)
 a = 0.393 px
 b = -0.047 px
 c = 0.691 px

xc = 5.755 px
yc = 6.692 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 226661.546
Standard deviation: 27.17188
R^2: 0.95515
Parameters:
 a = 115.45058
 b = 1087.22317
 c = 28.64001
 d = 0.65698

Bead 1287

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
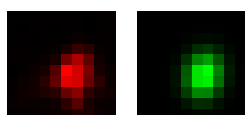Frame size : 10 pixels

Coordinates : -9.99 um (x), -72.9 um (y), 28.3 um (z)
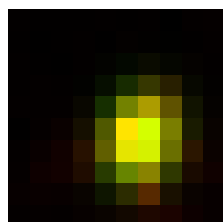Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	565 nm	584 nm	223 nm
max	708 nm	732 nm	223 nm
z	1.74 um	1.75 um	885 nm
Asymmetry	0.798		
Theta	76.9°		

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 = 0.959

Parameters:
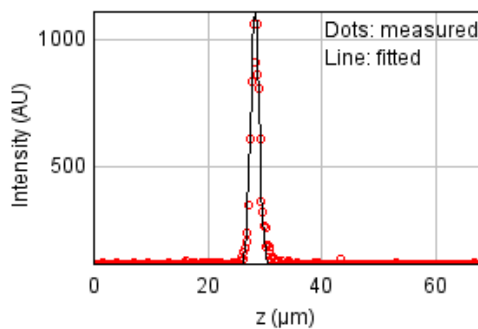 A = 1008.484   (brightness)
 B = 121.586   (background)
 a = 0.413 px
 b = 0.034 px
 c = 0.276 px

xc = 5.605 px
yc = 5.439 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 200324.481
Standard deviation: 25.54452
R^2: 0.96590
Parameters:
 a = 115.03721
 b = 1110.14821
 c = 28.34448
 d = 0.73986

Bead 1288

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
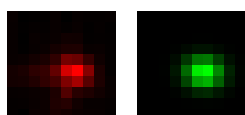Frame size : 10 pixels

Coordinates : -62.8 um (x), -85.0 um (y), 28.2 um (z)
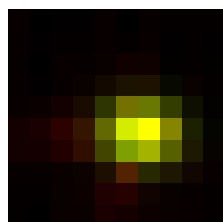Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	489 nm	506 nm	223 nm
max	607 nm	628 nm	223 nm
z	1.43 um	1.44 um	885 nm
Asymmetry	0.806		
Theta	-4.4°		

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 = 600.790   (brightness)
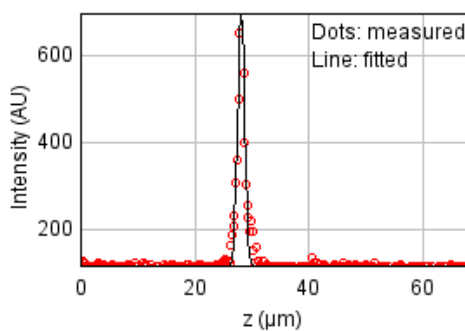 B = 125.803   (background)
 a = 0.365 px
 b = -0.015 px
 c = 0.559 px

xc = 5.614 px
yc = 5.165 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 58687.0720
Standard deviation: 13.82617
R^2: 0.96496
Parameters:
 a = 114.35929
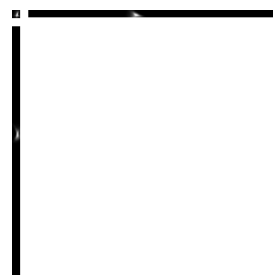 b = 697.48684
 c = 28.20012
 d = 0.60932

Bead 1289

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

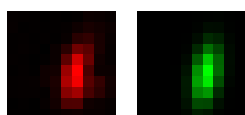Coordinates : 10.1 um (x), 93.6 um (y), 28.9 um (z)
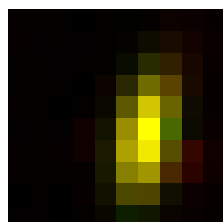Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	419 nm	433 nm	223 nm
max	932 nm	964 nm	223 nm
z	1.18 um	1.19 um	885 nm
Asymmetry	0.45		
Theta	79.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.971$

Parameters:
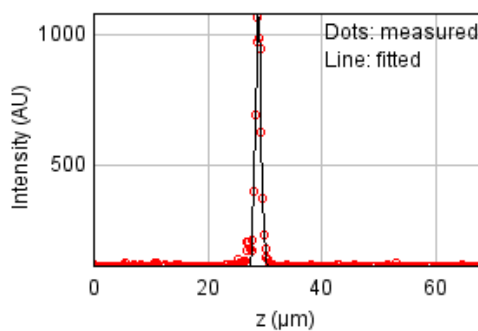 A = 987.374   (brightness)
 B = 126.112   (background)
 a = 0.745 px
 b = 0.106 px
 c = 0.173 px

xc = 5.849 px
yc = 5.326 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 56550.9276
Standard deviation: 13.57221
R^2: 0.98523
Parameters:
 a = 115.12996
 b = 1093.69742
 c = 28.90906
 d = 0.50226

Bead 1290

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
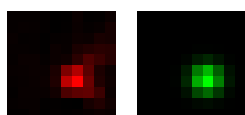Frame size : 10 pixels

Coordinates : 94.4 um (x), 81.9 um (y), 29.0 um (z)
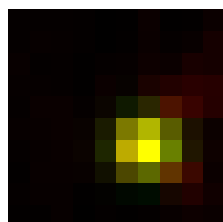Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	466 nm	482 nm	223 nm
max	496 nm	513 nm	223 nm
z	1.63 um	1.64 um	885 nm
Asymmetry	0.941		
Theta	3.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.904$

Parameters:
 A = 691.220   (brightness)
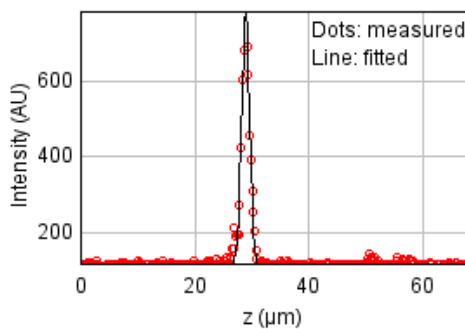 B = 133.147   (background)
 a = 0.546 px
 b = 0.005 px
 c = 0.617 px

xc = 5.867 px
yc = 5.775 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 47666.7433
Standard deviation: 12.46059
R^2: 0.98078
Parameters:
 a = 115.19352
 b = 787.03043
 c = 28.98495
 d = 0.69413

Bead 1291 (Rejected)

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

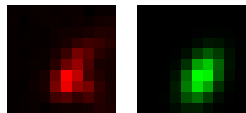Coordinates : 56.2 um (x), 72.6 um (y), 29.1 um (z)
Corresponding bead : Not found
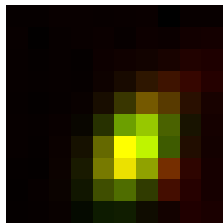Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	494 nm	511 nm	223 nm
max	775 nm	801 nm	223 nm
z	1.93 um	1.94 um	885 nm
Asymmetry	0.638		
Theta	60.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 658.984   (brightness)
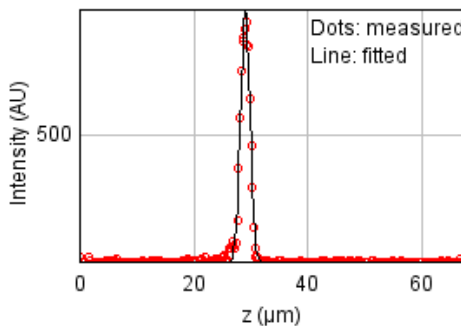 B = 133.148   (background)
 a = 0.471 px
 b = 0.139 px
 c = 0.302 px

xc = 5.419 px
yc = 6.097 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 47076.1454
Standard deviation: 12.38315
R^2: 0.98762
Parameters:
 a = 112.51475
 b = 883.02262
 c = 29.09639
 d = 0.82019

Bead 1292

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
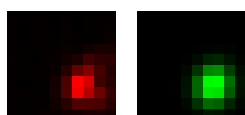Frame size : 10 pixels

Coordinates : 56.0 um (x), 54.3 um (y), 29.2 um (z)
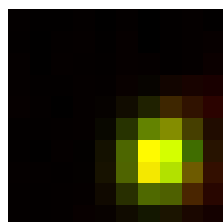Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	548 nm	567 nm	223 nm
max	617 nm	638 nm	223 nm
z	1.85 um	1.86 um	885 nm
Asymmetry	0.889		
Theta	72.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.939$

Parameters:
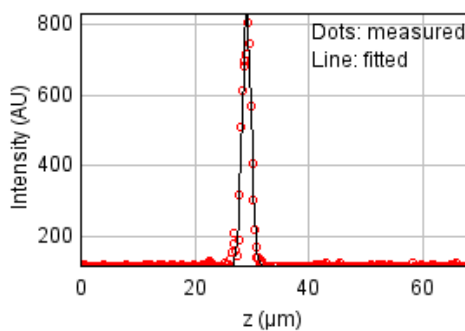A = 707.439   (brightness)
B = 121.701   (background)
a = 0.438 px
b = 0.027 px
c = 0.361 px

xc = 6.503 px
yc = 6.360 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 76318.1034
Standard deviation: 15.76684
R^2: 0.97638
Parameters:
 a = 114.20859
 b = 835.35019
 c = 29.16345
 d = 0.78522

Bead 1293

Date : Mon Oct 17 13:29:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
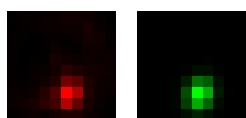Frame size : 10 pixels

Coordinates : -47.0 um (x), 26.1 um (y), 29.0 um (z)
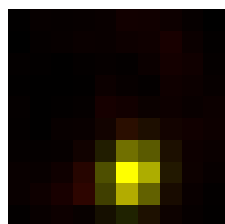Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	405 nm	418 nm	223 nm
max	483 nm	499 nm	223 nm
z	1.47 um	1.48 um	885 nm
Asymmetry	0.838		
Theta	66.9°		

XY profile & fitting parameters :

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

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

Parameters:
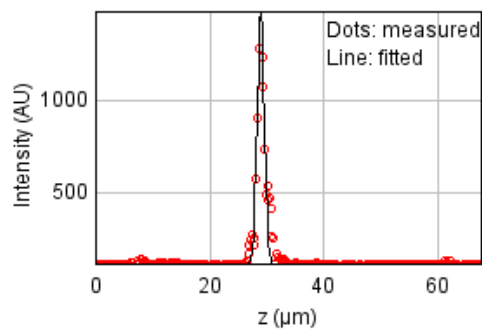 A = 1422.818   (brightness)
 B = 173.679   (background)
 a = 0.782 px
 b = 0.088 px
 c = 0.614 px

xc = 5.233 px
yc = 7.142 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 504996.940
Standard deviation: 40.55787
R^2: 0.94636
Parameters:
 a = 122.50015
 b = 1475.06738
 c = 29.00334
 d = 0.62495

Bead 1294

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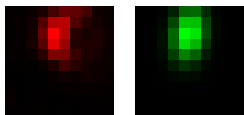Frame size : 10 pixels

Coordinates : 38.6 um (x), 21.8 um (y), 61.2 um (z)
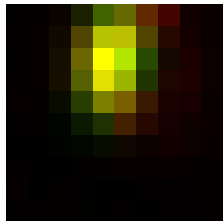Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	506 nm	524 nm	223 nm
max	822 nm	849 nm	223 nm
z	1.21 um	1.21 um	885 nm
Asymmetry	0.616		
Theta	81.7°		

XY profile & fitting parameters :

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

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

Parameters:
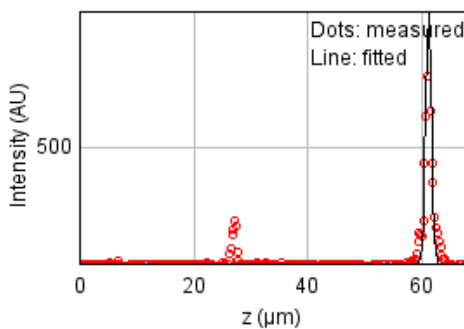 A = 919.690   (brightness)
 B = 132.996   (background)
 a = 0.516 px
 b = 0.046 px
 c = 0.206 px

xc = 4.385 px
yc = 2.076 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 205717.594
Standard deviation: 25.88609
R^2: 0.93006
Parameters:
 a = 119.66361
 b = 944.44417
 c = 61.21272
 d = 0.51287

Bead 1295

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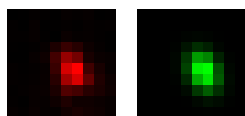Frame size : 10 pixels

Coordinates : 24.3 um (x), -16.3 um (y), 28.7 um (z)
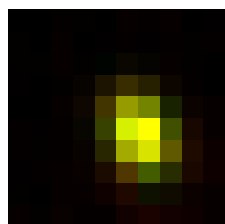Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	451 nm	467 nm	223 nm
max	624 nm	645 nm	223 nm
z	1.7 um	1.71 um	885 nm
Asymmetry	0.723		
Theta	-67.0°		

XY profile & fitting parameters :

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

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

Parameters:
A = 908.996   (brightness)
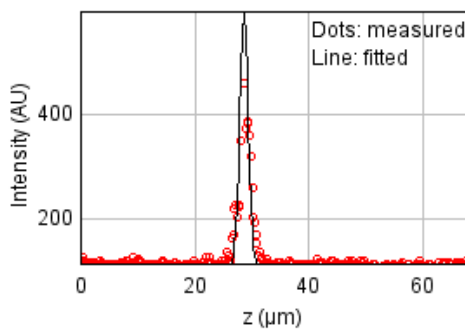B = 124.336   (background)
a = 0.611 px
b = -0.113 px
c = 0.392 px

xc = 5.595 px
yc = 5.232 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 314281.579
Standard deviation: 31.99560
R^2: 0.80819
Parameters:
a = 114.32392
b = 600.50443
c = 28.70683
d = 0.72268

Bead 1296

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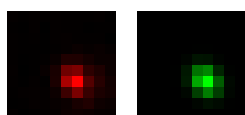Frame size : 10 pixels

Coordinates : 76.3 um (x), -17.6 um (y), 28.7 um (z)
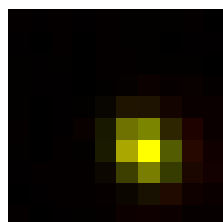Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	400 nm	413 nm	223 nm
max	485 nm	502 nm	223 nm
z	1.34 um	1.34 um	885 nm
Asymmetry	0.823		
Theta	-49.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.974$

Parameters:
A = 1243.642   (brightness)
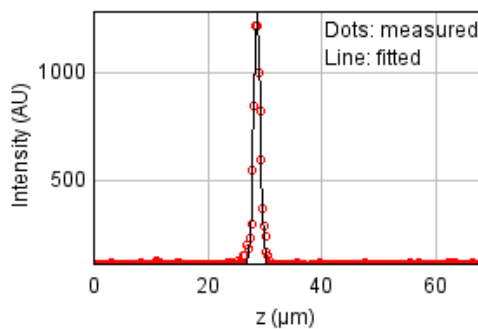B = 124.922   (background)
a = 0.726 px
b = -0.134 px
c = 0.684 px

xc = 5.780 px
yc = 5.935 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 80932.7588
Standard deviation: 16.23652
R^2: 0.98719
Parameters:
a = 113.66850
b = 1298.17232
c = 28.69287
d = 0.56855

Bead 1297

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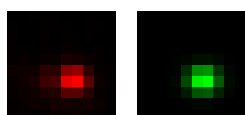Frame size : 10 pixels

Coordinates : -98.0 um (x), -42.4 um (y), 28.8 um (z)
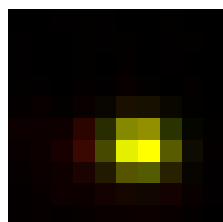Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	409 nm	422 nm	223 nm
max	494 nm	511 nm	223 nm
z	1.56 um	1.57 um	885 nm
Asymmetry	0.827		
Theta	-1.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.964$

Parameters:
A = 1495.430   (brightness)
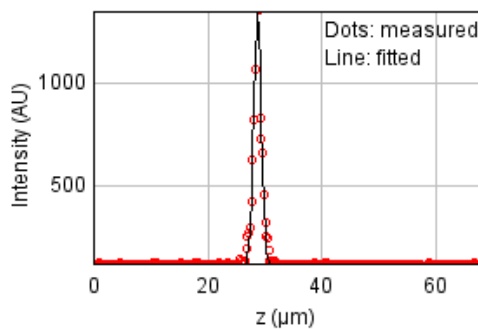B = 134.959   (background)
a = 0.550 px
b = -0.008 px
c = 0.803 px

xc = 5.559 px
yc = 5.855 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 230531.695
Standard deviation: 27.40288
R^2: 0.97148
Parameters:
a = 113.98740
b = 1349.05110
c = 28.79104
d = 0.66201

Bead 1298

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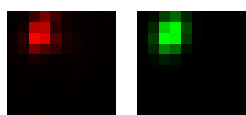Frame size : 10 pixels

Coordinates : 50.7 um (x), 84.6 um (y), 54.7 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	415 nm	429 nm	223 nm
max	575 nm	595 nm	223 nm
z	1.78 um	1.79 um	885 nm
Asymmetry	0.722		
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 = 0.961

Parameters:
A = 1352.798   (brightness)
B = 119.061   (background)
a = 0.737 px
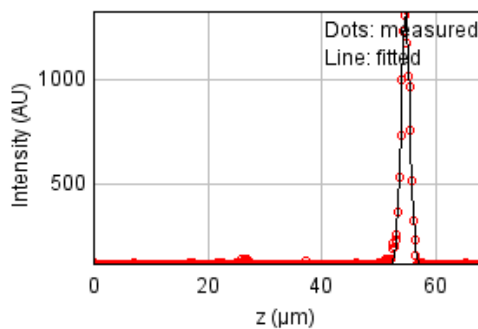b = 0.117 px
c = 0.447 px

xc = 2.535 px
yc = 1.613 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 66102.1391
Standard deviation: 14.67366
R^2: 0.99234
Parameters:
a = 113.90446
b = 1322.71832
c = 54.73715
d = 0.75695

Bead 1299

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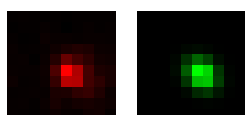Frame size : 10 pixels

Coordinates : 61.5 um (x), 12.5 um (y), 28.8 um (z)
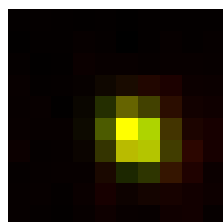Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	427 nm	441 nm	223 nm
max	521 nm	538 nm	223 nm
z	1.79 um	1.8 um	885 nm
Asymmetry	0.82		
Theta	-43.3°		

XY profile & fitting parameters :

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

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

Parameters:
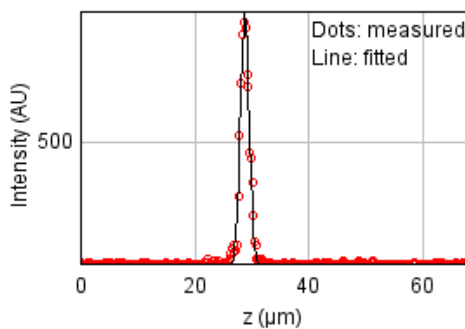 A = 797.880   (brightness)
 B = 127.608   (background)
 a = 0.609 px
 b = -0.121 px
 c = 0.623 px

xc = 5.410 px
yc = 5.328 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 67743.5196
Standard deviation: 14.85473
R^2: 0.98239
Parameters:
 a = 113.35934
 b = 914.89663
 c = 28.83575
 d = 0.76050

Bead 1300

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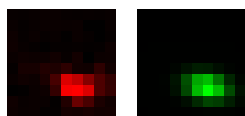Frame size : 10 pixels

Coordinates : 124 um (x), 12.0 um (y), 28.4 um (z)
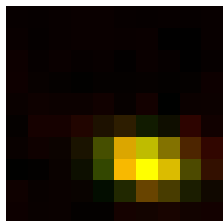Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	400 nm	414 nm	223 nm
max	673 nm	696 nm	223 nm
z	1.63 um	1.64 um	885 nm
Asymmetry	0.595		
Theta	-10.9°		

XY profile & fitting parameters :

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

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

R^2 = 0.947

Parameters:
A = 426.574   (brightness)
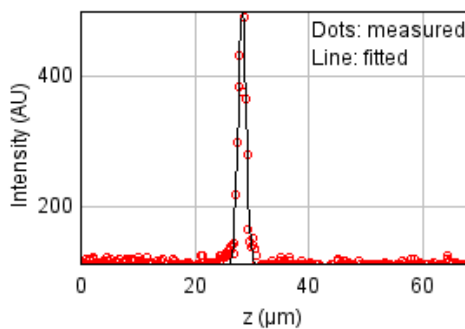B = 116.500   (background)
a = 0.316 px
b = -0.100 px
c = 0.819 px

xc = 5.913 px
yc = 6.674 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 43541.8893
Standard deviation: 11.90925
R^2: 0.94904
Parameters:
a = 111.56111
b = 499.52614
c = 28.37527
d = 0.69387