

JupyLabBook

May 22, 2020

Contents

0.0.1 SIRIUS_2020_03_12_0756: continuous_ascan delta -24 -19 100 5 1

<IPython.core.display.Javascript object>

<IPython.core.display.Javascript object>

0.0.1 SIRIUS_2020_03_12_0756: continuous_ascan delta -24 -19 100 5

- Open Nexus Data File :

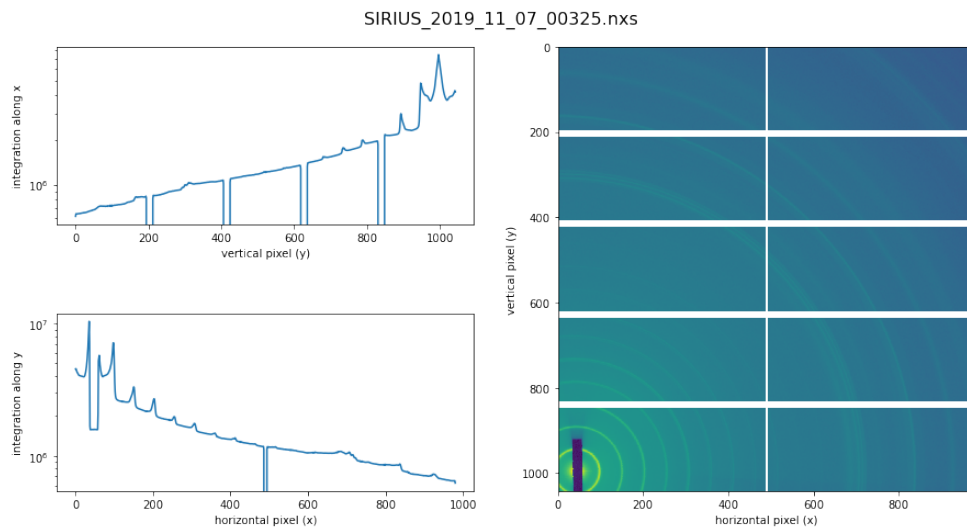
/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/recording
/SIRIUS_2019_11_07_00325.nxs

. Number of data points: 11

. Available Counters:

0	----->	hu36energy
1	----->	current
2	----->	mon2
3	----->	mon4
4	----->	camxdirect
5	----->	pilatus
6	----->	pilatusroi1
7	----->	integration_time
8	----->	sensorsRelTimestamps
9	----->	sensorsTimestamps

. Pilatus data found, (column 5, alias pilatus)



```
. Original matrix saved in:
    /Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/
working/SIRIUS_2019_11_07_00325.mat
```

```
. Tiff saved in:
    /Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/
working/SIRIUS_2019_11_07_00325.tiff
```

- Open Nexus Data File :

```
/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/recording
/SIRIUS_2019_11_07_00325.nxs
```

```
. Number of data points:  11
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```
. Available Counters:
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```
0 -----> hu36energy
1 -----> current
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4 -----> camxdirect
5 -----> pilatus
6 -----> pilatusroi1
7 -----> integration_time
8 -----> sensorsRelTimestamps
9 -----> sensorsTimestamps
```

```
. Pilatus data found, (column 5, alias pilatus)
```

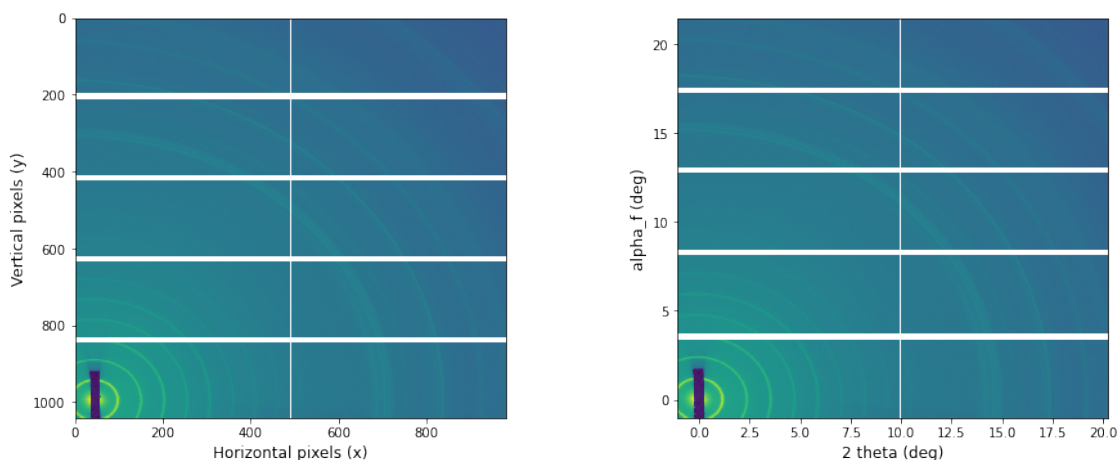
```
. No gamma found, taking gamma = 0
```

```
. No delta found, taking delta =-11.58
```

```
. For more details on the geometry, see:
```

```
-Fig.2 in doi:10.1107/S0909049512022017
```

```
-Slide 4 in http://gisaxs.com/files/Strzalka.pdf
```



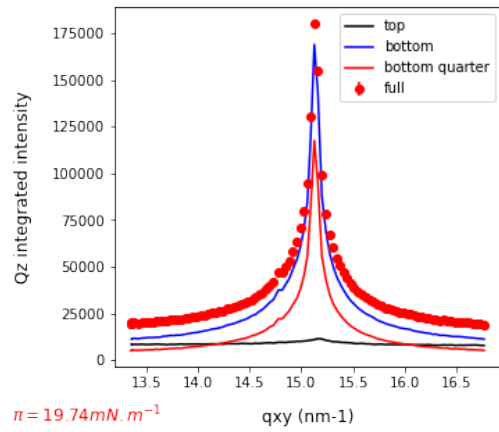
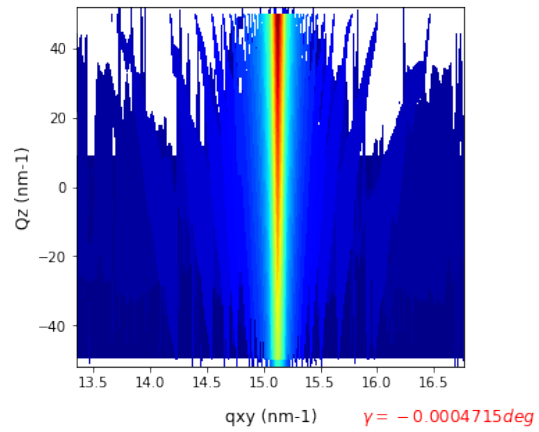
```
. Original matrix saved in:
    /Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/
working/SIRIUS_2019_11_07_00325.mat
```

```
. Tiff saved in:
    /Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/
working/SIRIUS_2019_11_07_00325.tiff
```

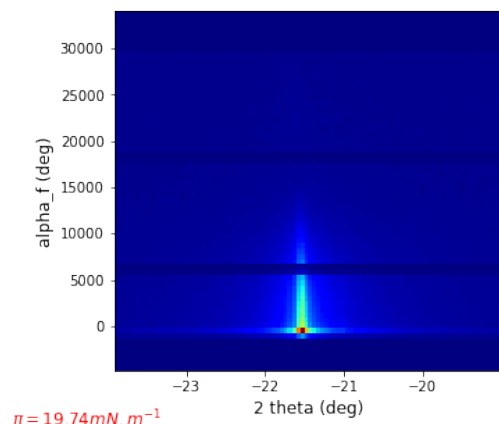
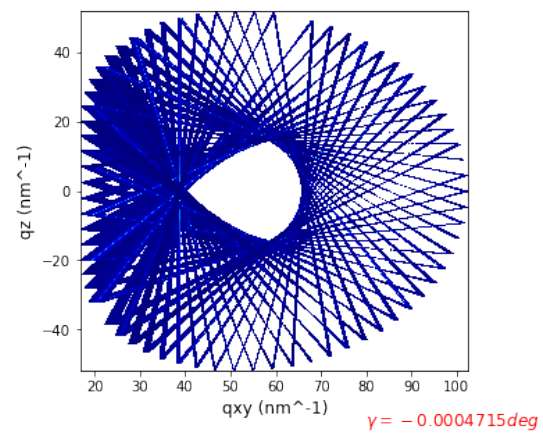
- Open Nexus Data File :

```
/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/recording/
/SIRIUS_2020_03_12_0756.nxs
```

```
. Number of data points: 101
. Pilatus data found, (column 11, alias pilatus)
. qxy data found, (column 10, alias qxy)
. Valuable data between points 0 and 100
. Surface pressure data found, mean value 19.74 ± 0.006163 mN/m
. Area per molecule data found, mean value 0.3557 ± 3.866e-05 nm2 per
molecule
. Gamma motor data found, mean value -0.0004715 deg
. For more details on the geometry, see:
    -Fig.2 in doi:10.1107/S0909049512022017
    -Slide 4 in http://gisaxs.com/files/Strzalka.pdf
. Data saved in text format
```


 $\pi = 19.74 \text{ mN} \cdot \text{m}^{-1}$

 $\gamma = -0.0004715 \text{ deg}$

True GIXD


 $\pi = 19.74 \text{ mN} \cdot \text{m}^{-1}$

 $\gamma = -0.0004715 \text{ deg}$