

JupyLabBook

May 22, 2020

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<IPython.core.display.Javascript object>

<IPython.core.display.Javascript object>

0.0.1 SIRIUS_2020_03_12_0759: continuous_ascan delta -24 -15 150 5

- Open Nexus Data File :

/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/recording
/SIRIUS_2020_03_12_0759.nxs

. Number of data points: 151

. Available Counters:

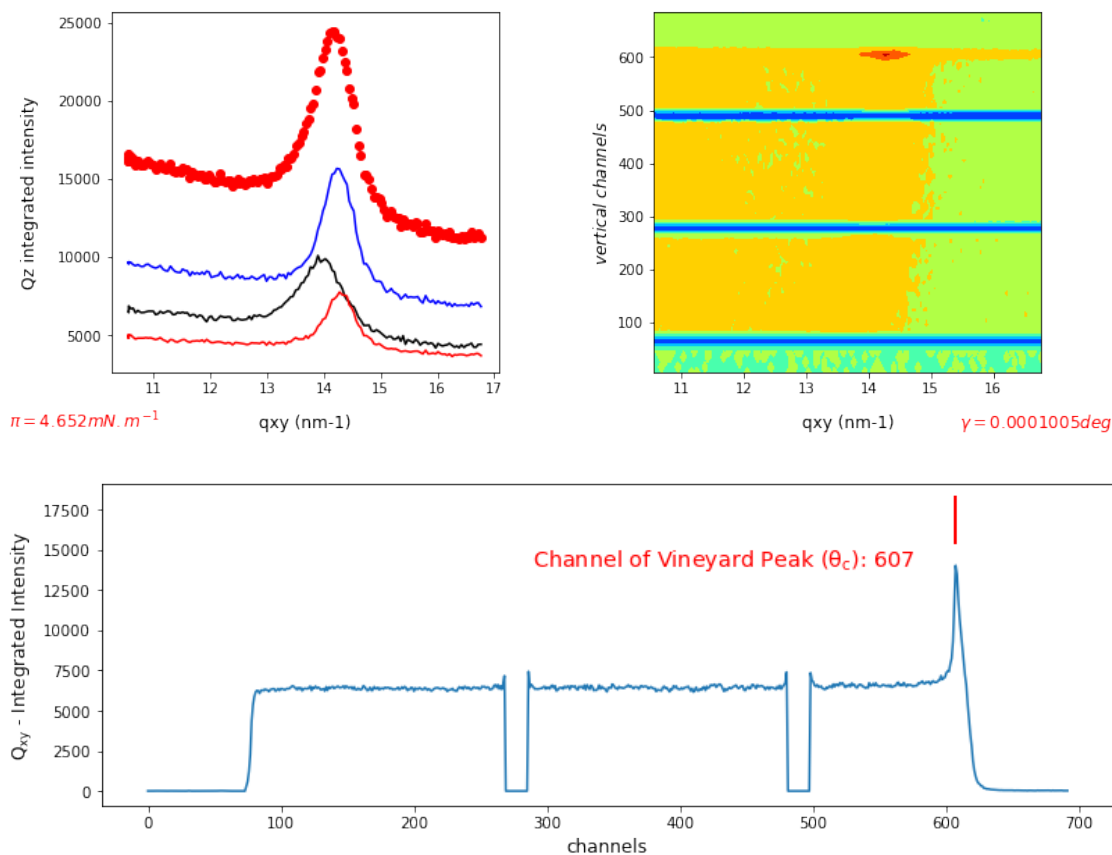
```
0 -----> delta
1 -----> zs
2 -----> gamma
3 -----> hu36energy
4 -----> xs
5 -----> energydcm
6 -----> current
7 -----> mon2
8 -----> surfacepressure
9 -----> areapermolecule
10 -----> qxy
11 -----> pilatus
12 -----> pilatusroi1
13 -----> integration_time
14 -----> sensorsRelTimestamps
15 -----> sensorsTimestamps
```

. Pilatus data found, (column 11, alias pilatus)

. qxy data found, (column 10, alias qxy)

. Surface pressure data found, mean value 4.652 ± 0.002432 mN/m
. Area per molecule data found, mean value 0.2927 ± 0.000273 nm² per molecule
. Gamma motor data found, mean value 0.0001005 deg

SIRIUS_2020_03_12_0759.nxs



Data not saved. To save data, run a GIXD on the scan.
Channel0: 607

0.0.2 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:

```

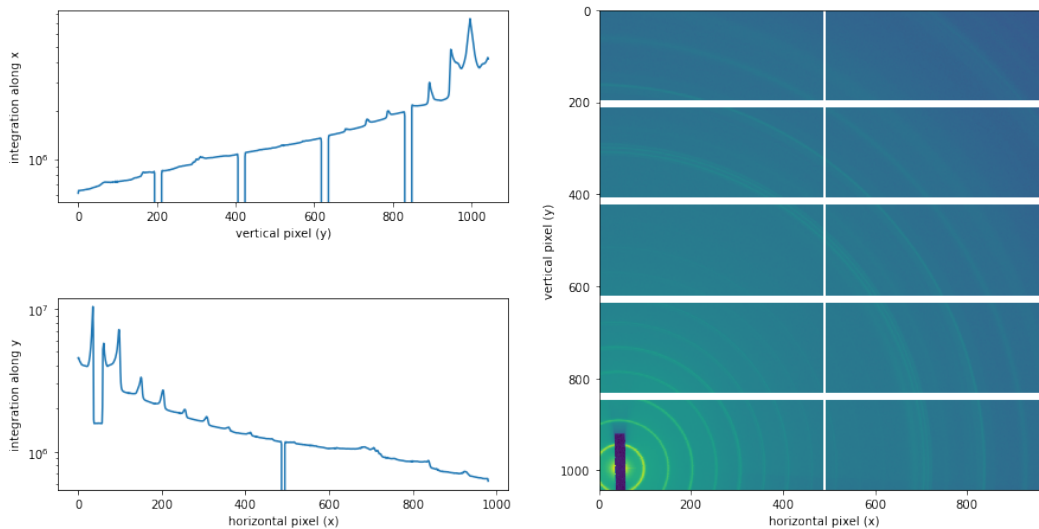
0 -----> hu36energy
1 -----> current
2 -----> mon2
3 -----> mon4
4 -----> camxdirect
5 -----> pilatus
6 -----> pilatusroi1
7 -----> integration_time
8 -----> sensorsRelTimestamps

```

```

9 -----> sensorsTimestamps
. Pilatus data found, (column 5, alias pilatus)
  SIRIUS_2019_11_07_00325.nxs

```



```

. 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

```

```

. 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)

```

```

. No gamma found, taking gamma = 0

```

```

. No delta found, taking delta =-11.58

```

```

. For more details on the geometry, see:

```

```

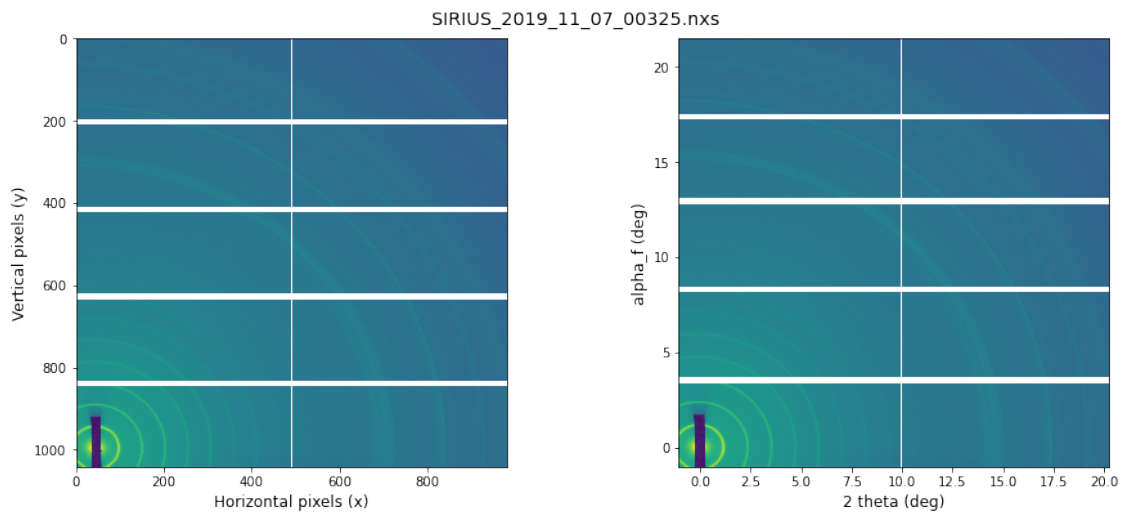
  -Fig.2 in doi:10.1107/S0909049512022017

```

```

  -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_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)
```

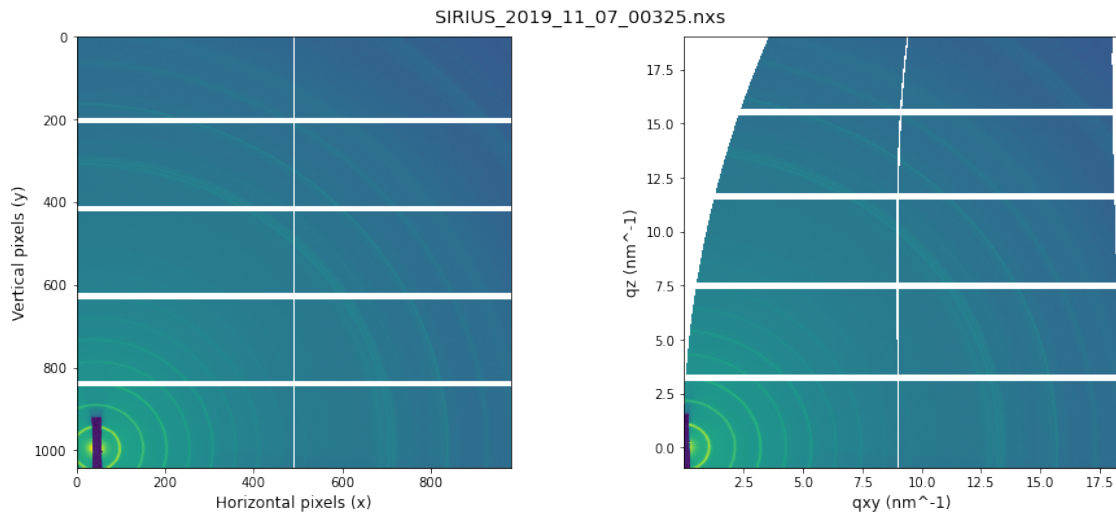
```
. No gamma found, taking gamma = 0
```

```
. 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_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)
```

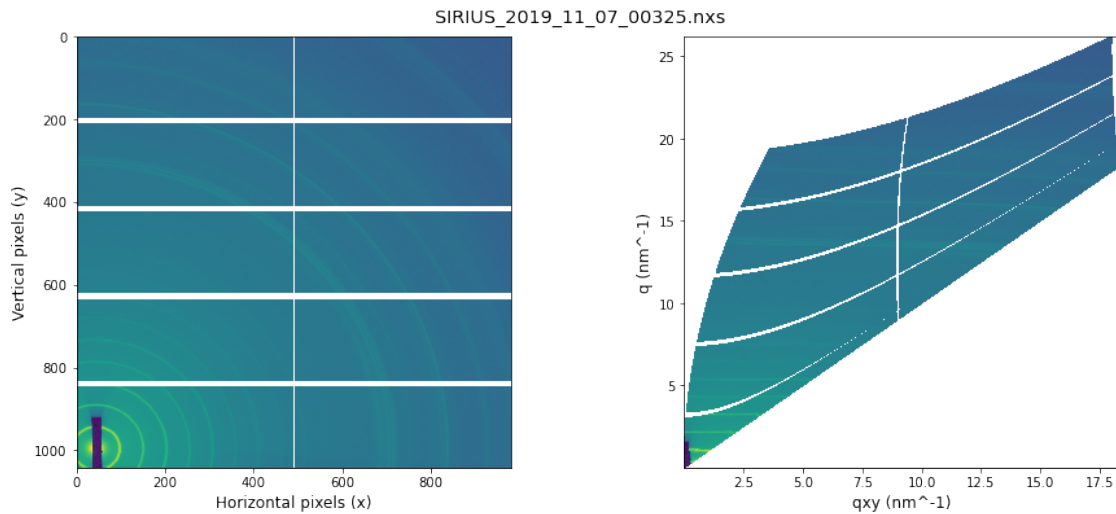
```
. No gamma found, taking gamma = 0
```

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

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

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

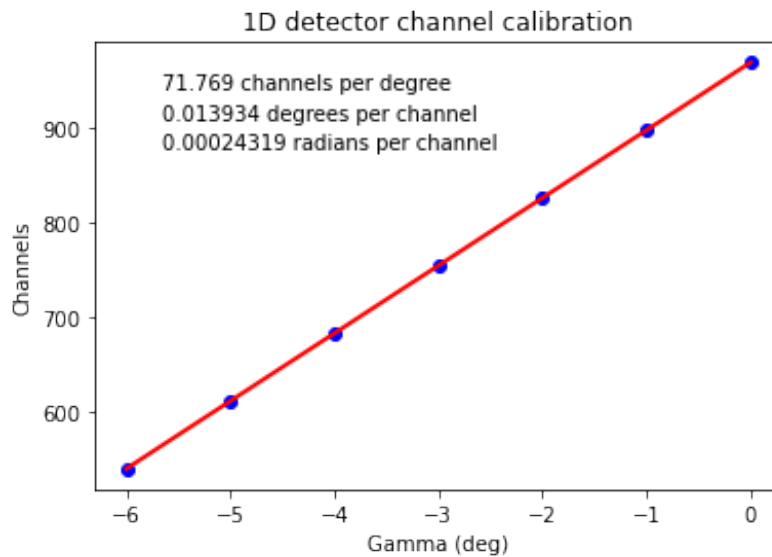
```
-Slide 4 in http://gisaxs.com/files/Strzalka.pdf
```



. 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

0.1 Calibration thetaz



0.1.1 SIRIUS_2020_03_12_0759: continuous_ascan delta -24 -15 150 5

- Open Nexus Data File :

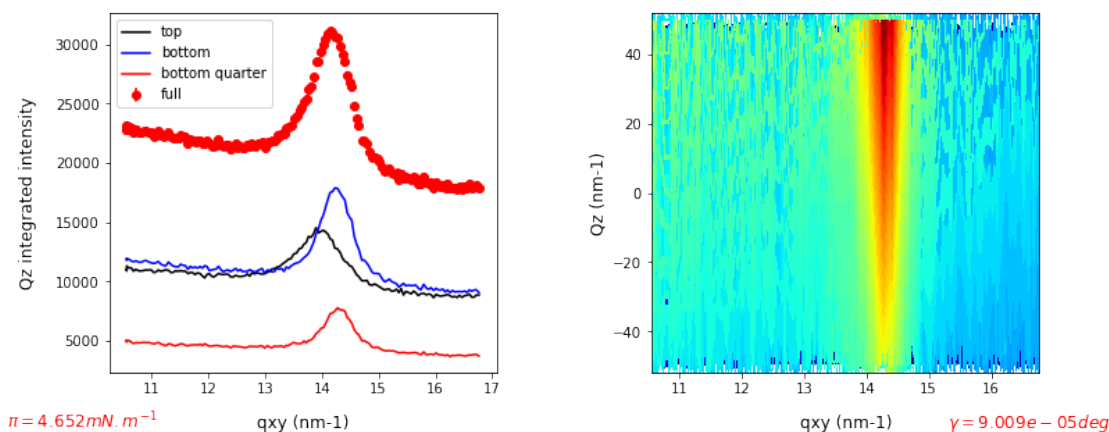
/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/recording
 /SIRIUS_2020_03_12_0759.nxs

```

. Number of data points: 151
. Pilatus data found, (column 11, alias pilatus)
. qxy data found, (column 10, alias qxy)
. Valuable data between points 0 and 150
. Surface pressure data found, mean value 4.652 ± 0.002447 mN/m
. Area per molecule data found, mean value 0.2927 ± 0.0002703 nm2 per
molecule
. Gamma motor data found, mean value 9.009e-05 deg
. Data saved in text format

```

SIRIUS_2020_03_12_0759.nxs



0.1.2 SIRIUS_2020_03_12_0756: continuous__ascan delta -24 -19 100 5

- Open Nexus Data File :

```

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

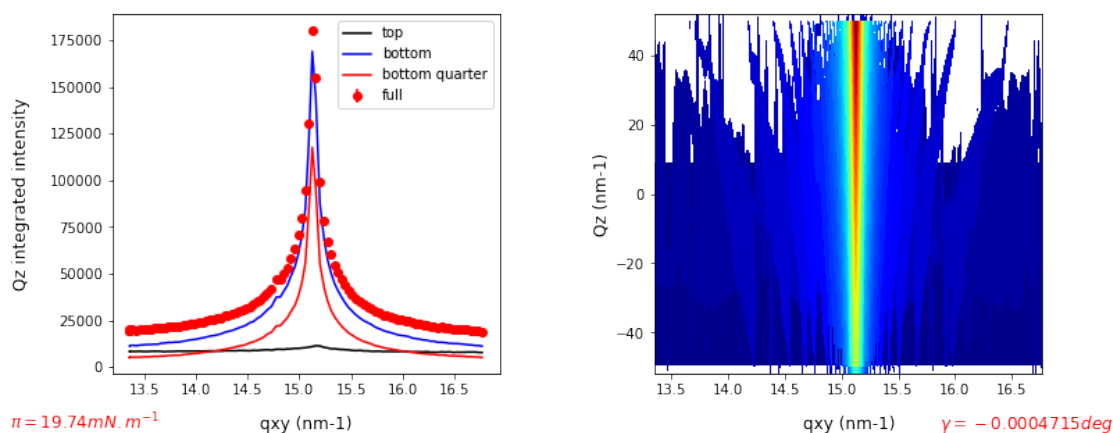
```

```

. 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
. Data saved in text format

```

SIRIUS_2020_03_12_0756.nxs



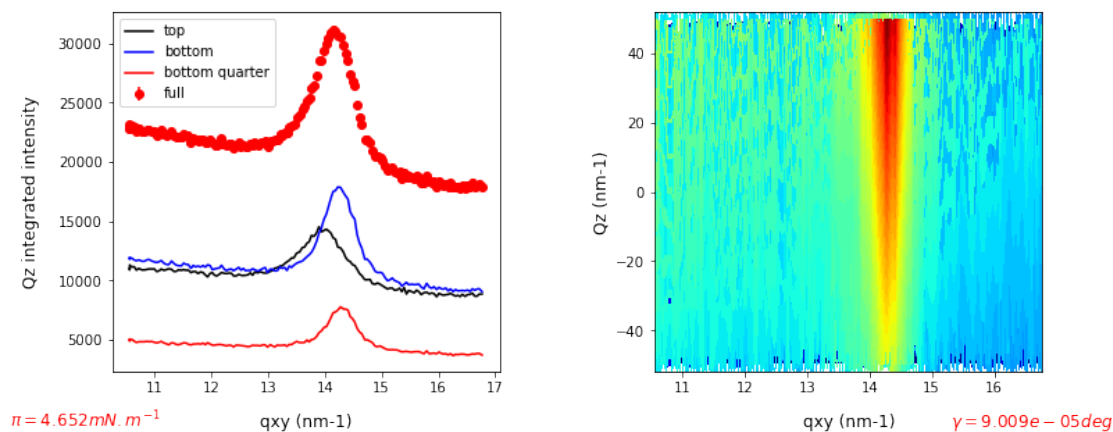
0.1.3 SIRIUS_2020_03_12_0759: continuous_ascan delta -24 -15 150 5

- Open Nexus Data File :

/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyterLabBook/recording
/SIRIUS_2020_03_12_0759.nxs

- . Number of data points: 151
- . Pilatus data found, (column 11, alias pilatus)
- . qxy data found, (column 10, alias qxy)
- . Valuable data between points 0 and 150
- . Surface pressure data found, mean value $4.652 \pm 0.002447 \text{ mN/m}$
- . Area per molecule data found, mean value $0.2927 \pm 0.0002703 \text{ nm}^2$ per molecule
- . Gamma motor data found, mean value $9.009\text{e-}05 \text{ deg}$
- . Data saved in text format

SIRIUS_2020_03_12_0759.nxs



0.1.4 SIRIUS_2020_03_12_0760: run cont_regh.ipy

- Open Nexus Data File :

/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyterLabBook/recording


```
/SIRIUS_2020_03_12_0760.nxs  
  . Number of data points: 101  
  . No pilatus data found
```