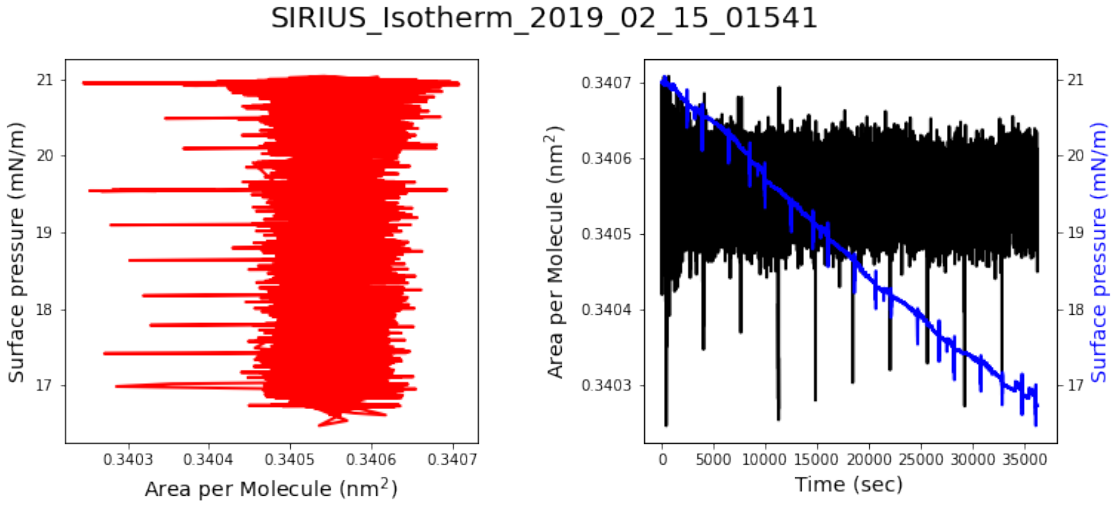
JupyLabBook

May 25, 2020

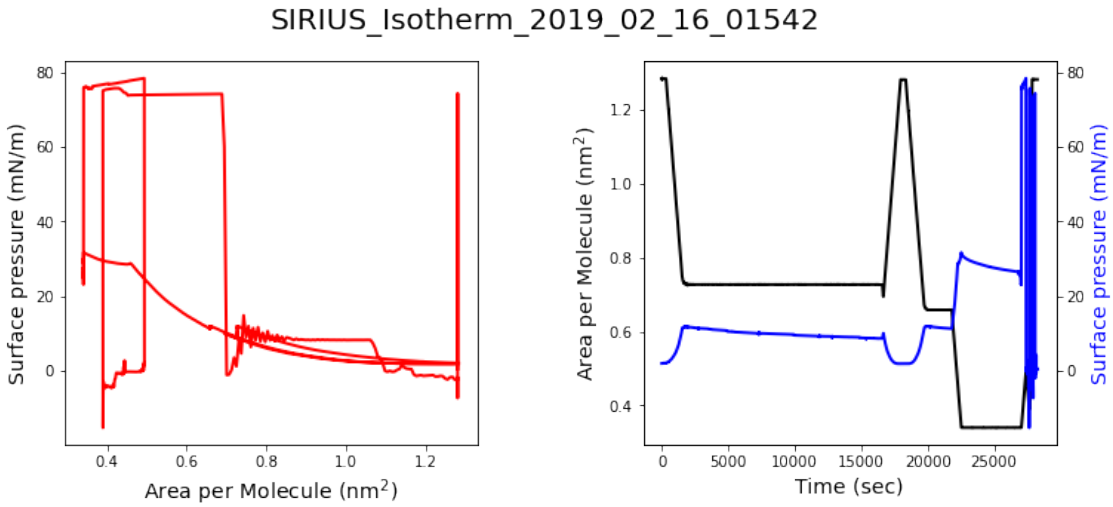
Contents


```
<IPython.core.display.Javascript object>
```

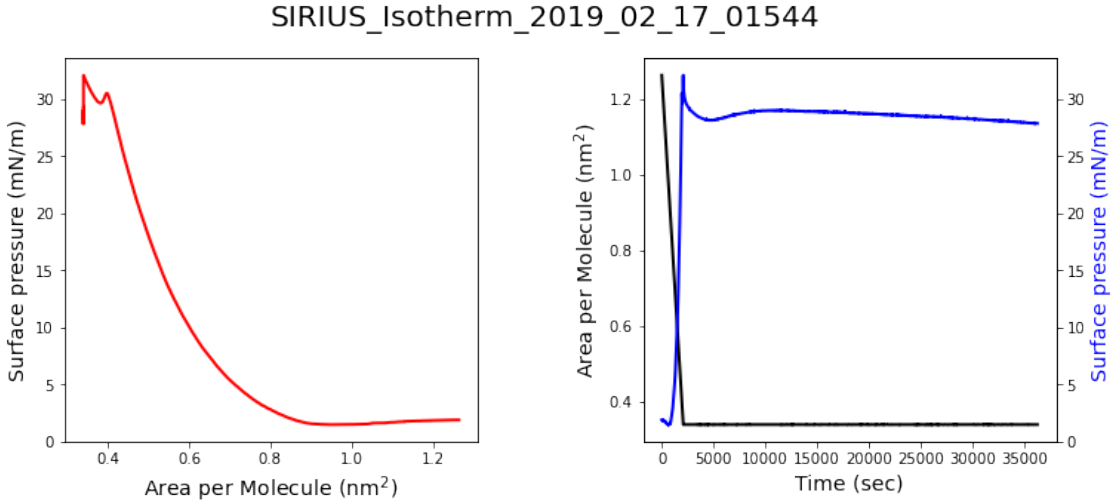
0.0.1 SIRIUS_Isotherm_2019_02_15_01541: isotherm 1.97 46 35000 1



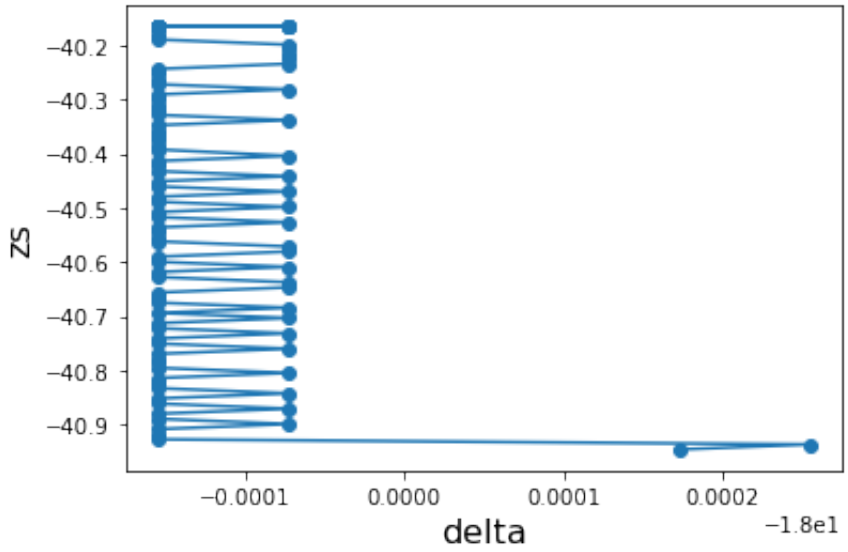
0.0.2 SIRIUS_Isotherm_2019_02_16_01542: isotherm 1.97 46 35000 1



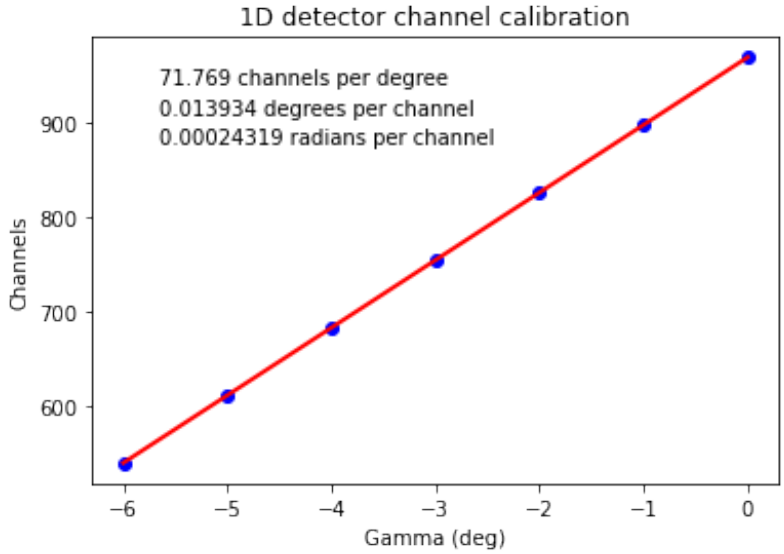
0.0.3 SIRIUS_Isotherm_2019_02_17_01544: isotherm 1.97 46 35000 1



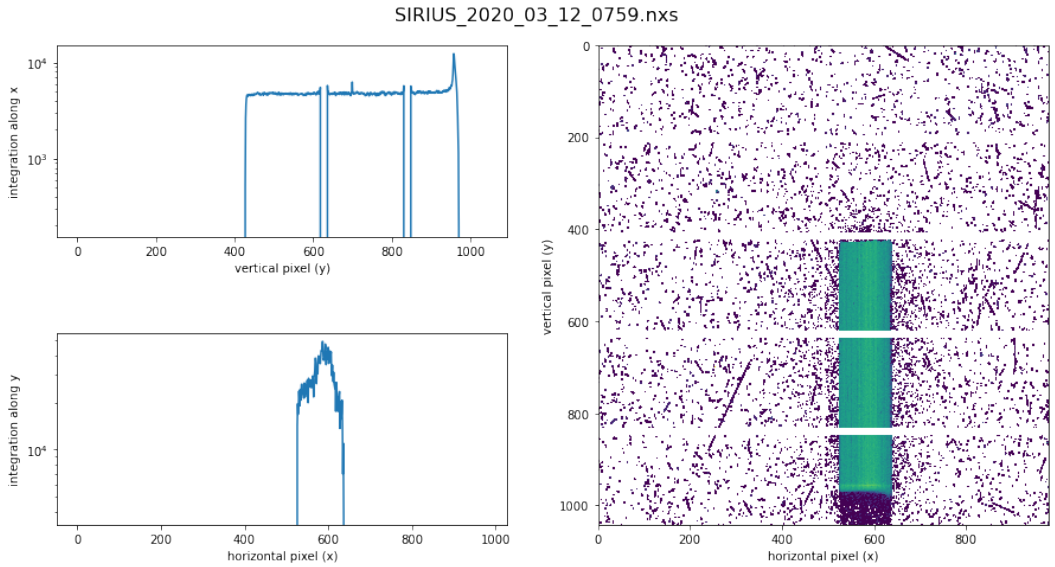
0.0.4 SIRIUS_2020_03_12_0760: run cont_regh.ipy



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)

. Valid 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

. For more details on the geometry, see:

-Fig.2 in doi:10.1107/S0909049512022017

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

. Original, non binned matrix saved in:

/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/SIRIUS_2020_03_12_0759_1D.mat

. Scalar data saved in:

/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/SIRIUS_2020_03_12_0759_1D.dat

. Qz values saved in:

/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/SIRIUS_2020_03_12_0759_1D_qz10.dat

. Binned matrix saved in:

/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/SIRIUS_2020_03_12_0759_1D.mat10

. XYZ data saved in:

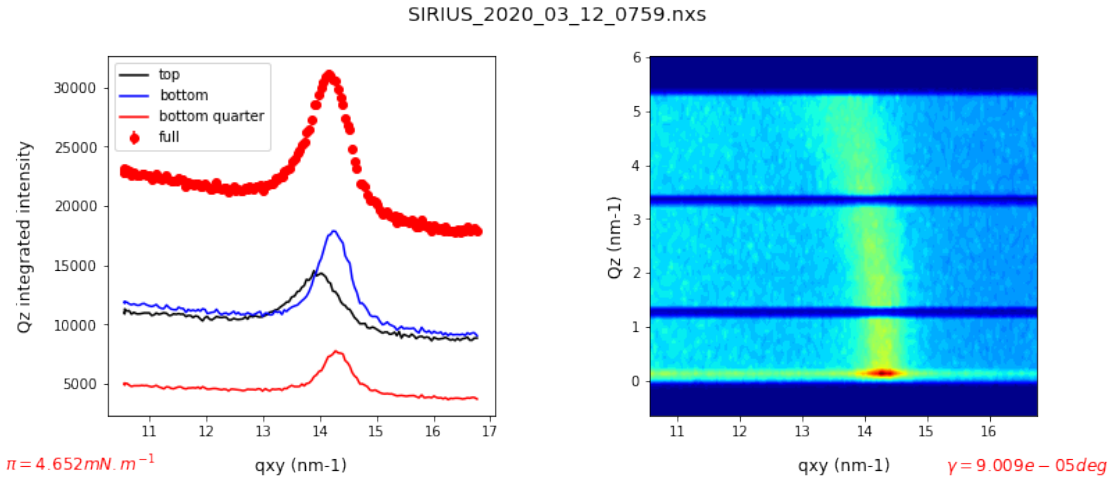
/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/SIRIUS_2020_03_12_0759_1D.moy10

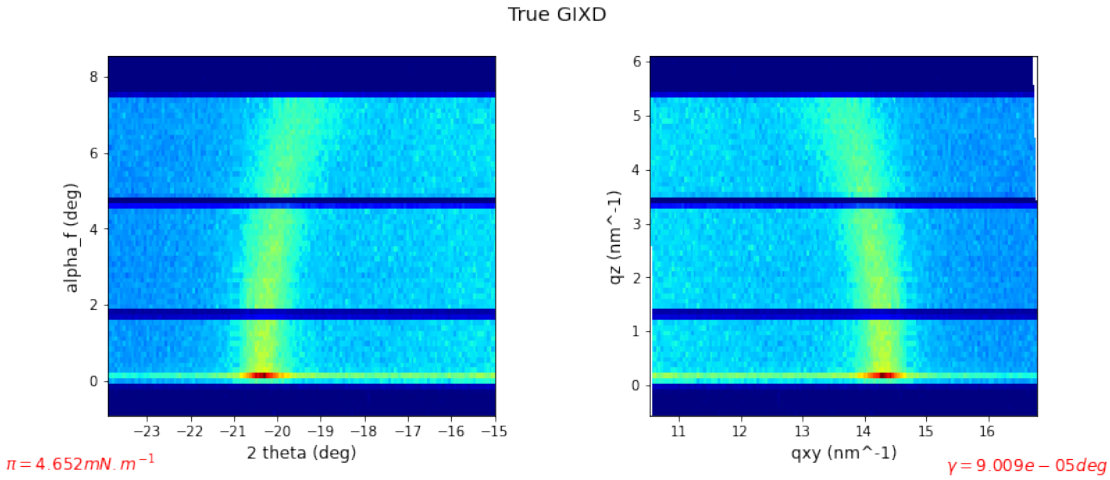
. Qz values saved in:

/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/SIRIUS_2020_03_12_0759_1D_qz20.dat

. Binned matrix saved in:

/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/SIRIUS_2020_03_12_0759_1D.mat20
. XYZ data saved in:
/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/SIRIUS_2020_03_12_0759_1D.moy20
. Qz values saved in:
/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/SIRIUS_2020_03_12_0759_1D_qz40.dat
. Binned matrix saved in:
/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/SIRIUS_2020_03_12_0759_1D.mat40
. XYZ data saved in:
/Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/SIRIUS_2020_03_12_0759_1D.moy40

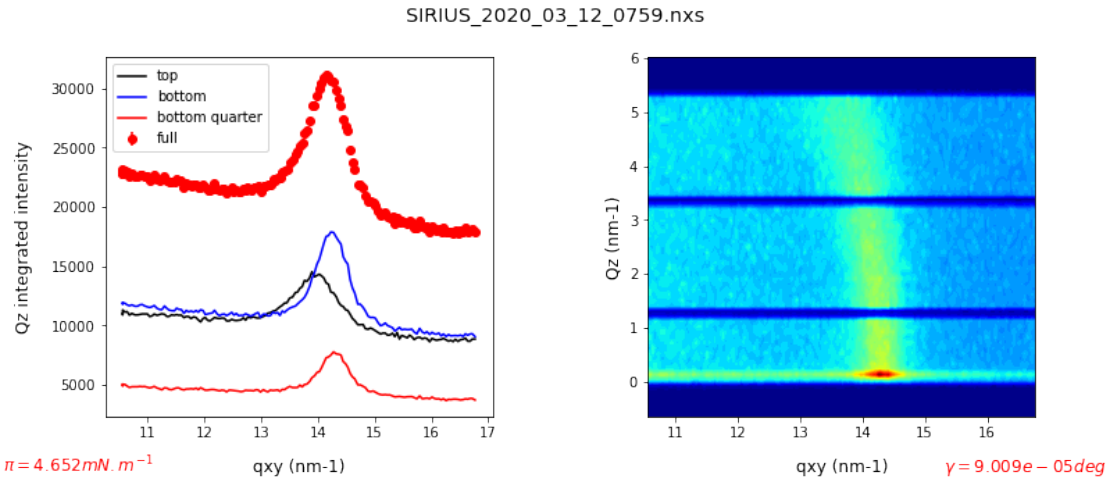


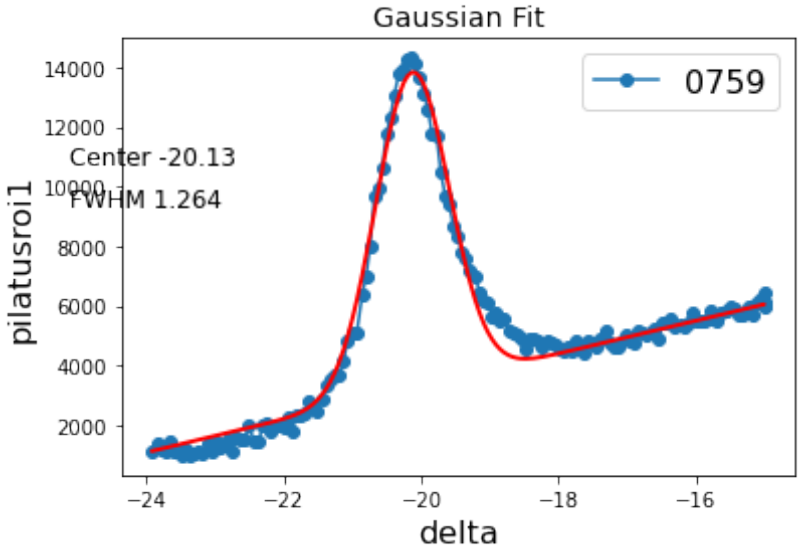


- Open Nexus Data File :

/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)
. Valid data between points 0 and 150

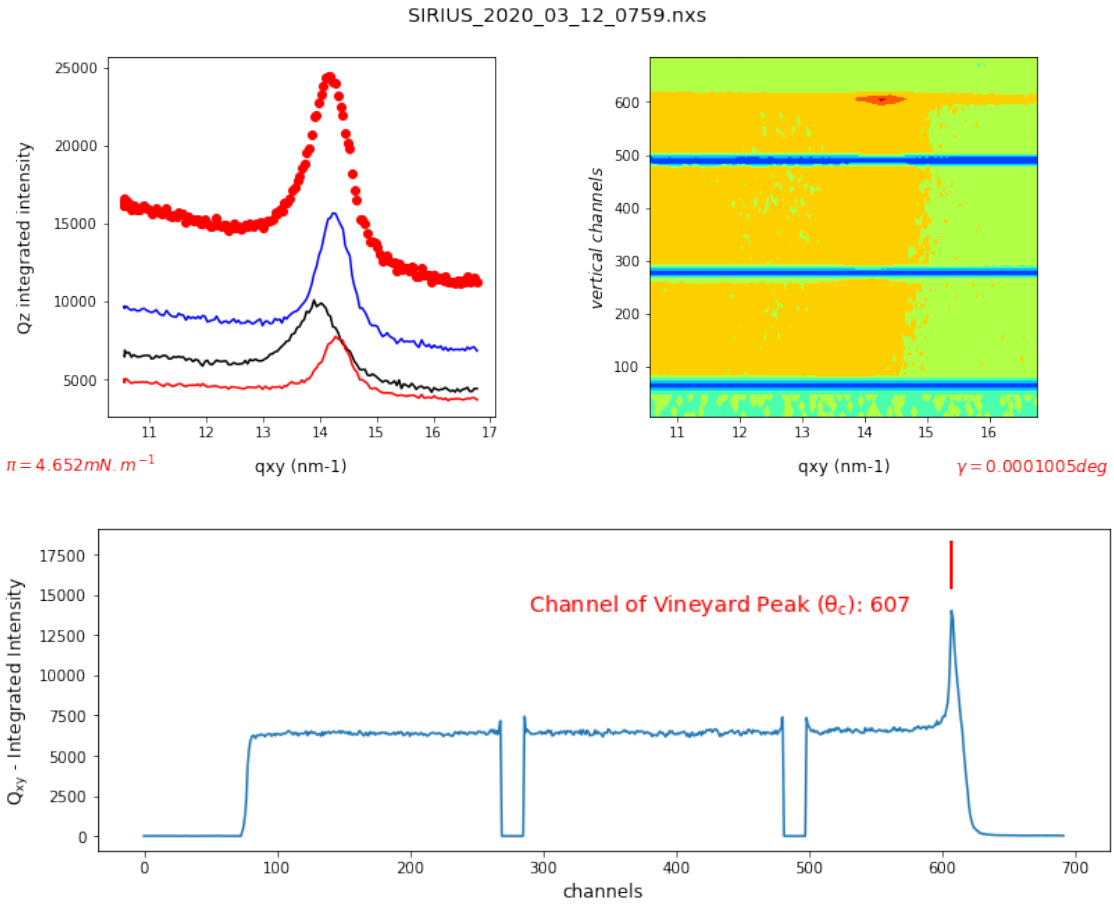
```
        . Surface pressure data found, mean value 4.652 ± 0.002447 mN/m
        . Area per molecule data found, mean value 0.2927 ± 0.0002703 nm2 per
molecule
        . Gamma motor data found, mean value 9.009e-05 deg
        . Original, non binned matrix saved in:
         /Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/
SIRIUS_2020_03_12_0759_1D.mat
        . Scalar data saved in:
         /Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/
SIRIUS_2020_03_12_0759_1D.dat
        . Qz values saved in:
        /Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/S
IRIUS_2020_03_12_0759_1D_qz10.dat
        . Binned matrix saved in:
         /Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/
SIRIUS_2020_03_12_0759_1D.mat10
        . XYZ    data saved in:
         /Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/
SIRIUS_2020_03_12_0759_1D.moy10
        . Qz values saved in:
        /Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/S
IRIUS_2020_03_12_0759_1D_qz20.dat
        . Binned matrix saved in:
         /Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/
SIRIUS_2020_03_12_0759_1D.mat20
        . XYZ    data saved in:
         /Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/
SIRIUS_2020_03_12_0759_1D.moy20
        . Qz values saved in:
        /Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/S
IRIUS_2020_03_12_0759_1D_qz40.dat
        . Binned matrix saved in:
         /Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/
SIRIUS_2020_03_12_0759_1D.mat40
        . XYZ    data saved in:
         /Users/arnaudhemmerle/Documents/Recherche/Analysis/JupyLabBook/working/
SIRIUS_2020_03_12_0759_1D.moy40
```





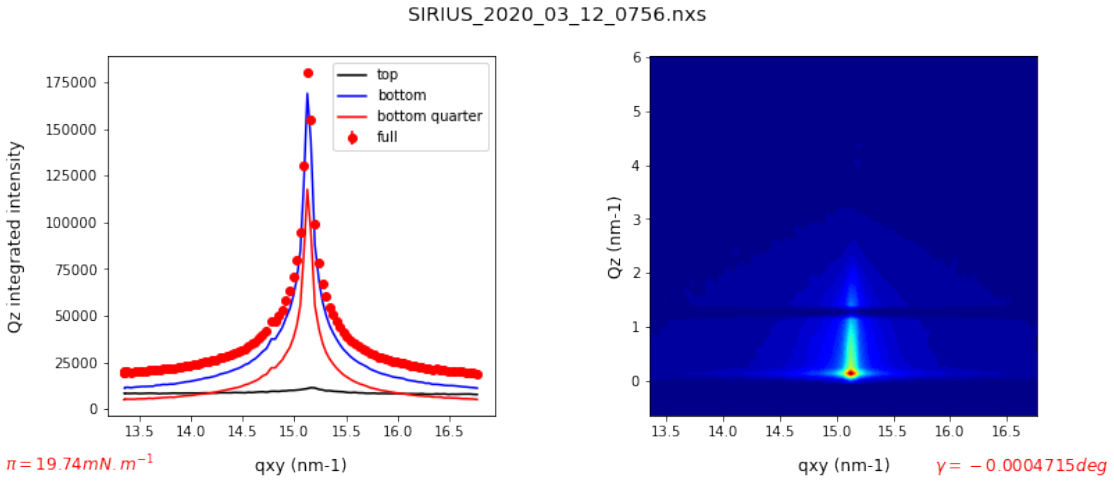
0.1.2 SIRIUS_2020_03_12_0759: continuous_ascan delta -24 -15 150 5

```
 - 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
```

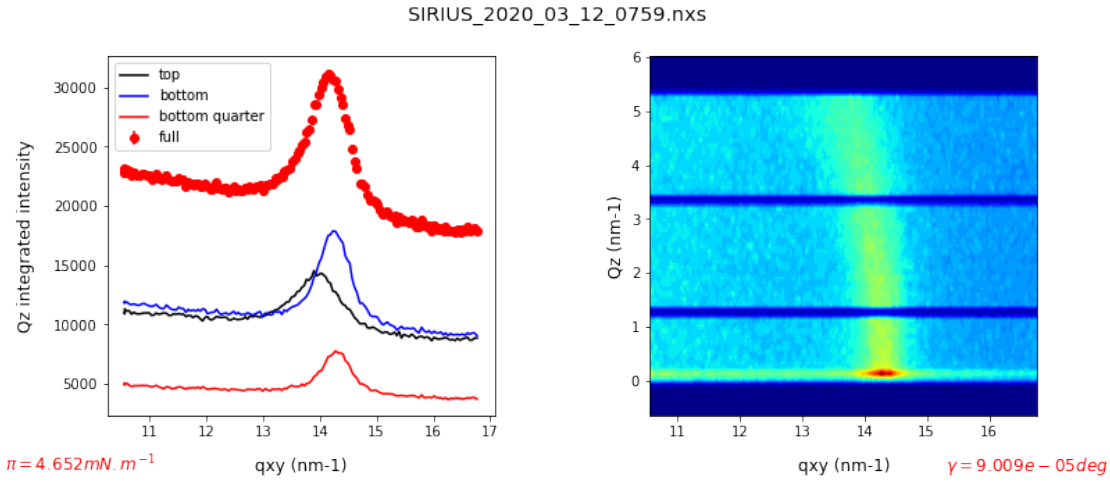



```
Data not saved. To save data, run a GIXD on the scan.
Channel0: 607
```

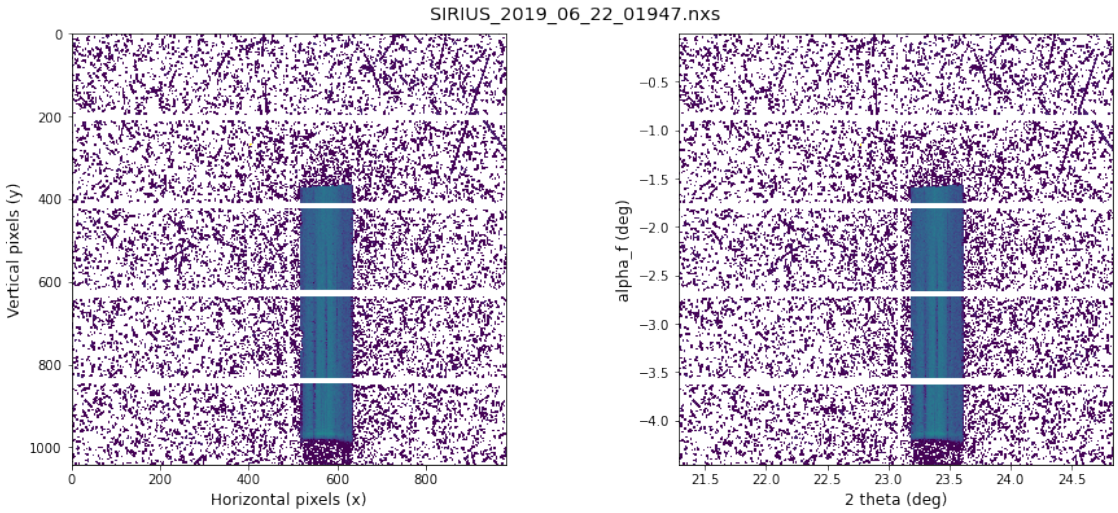
0.1.3 SIRIUS_2020_03_12_0756: continuous_ascan delta -24 -19 100 5



0.1.4 SIRIUS_2020_03_12_0759: continuous_ascan delta -24 -15 150 5



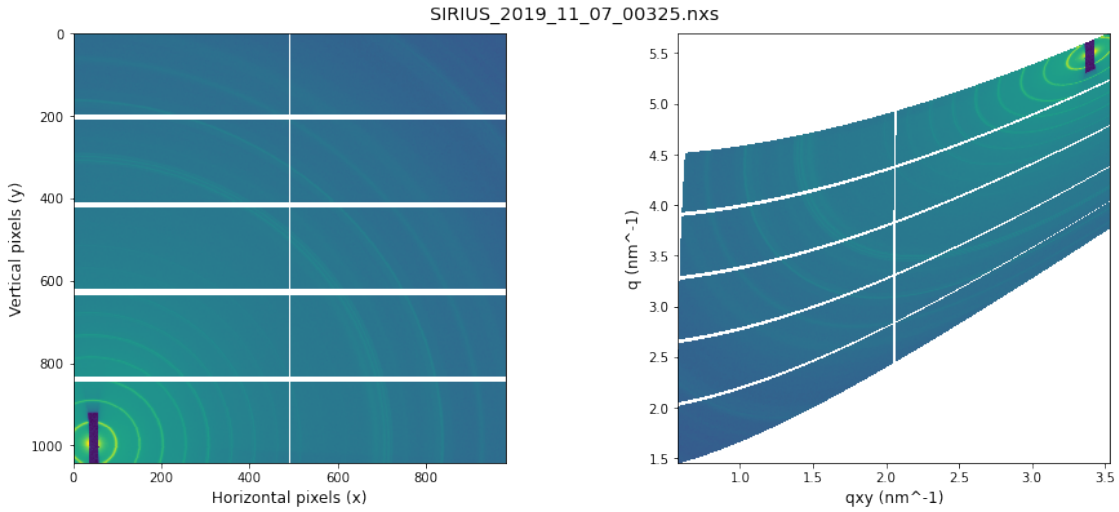
0.1.5 SIRIUS_2019_06_22_01947: No command found



0.1.6 SIRIUS_2019_11_07_00325: No command found

```
        . No gamma found!
Enter gamma:-2
        . gamma = -2

        . No delta found!
Enter delta:5
        . delta = 5
```



. No gamma found!

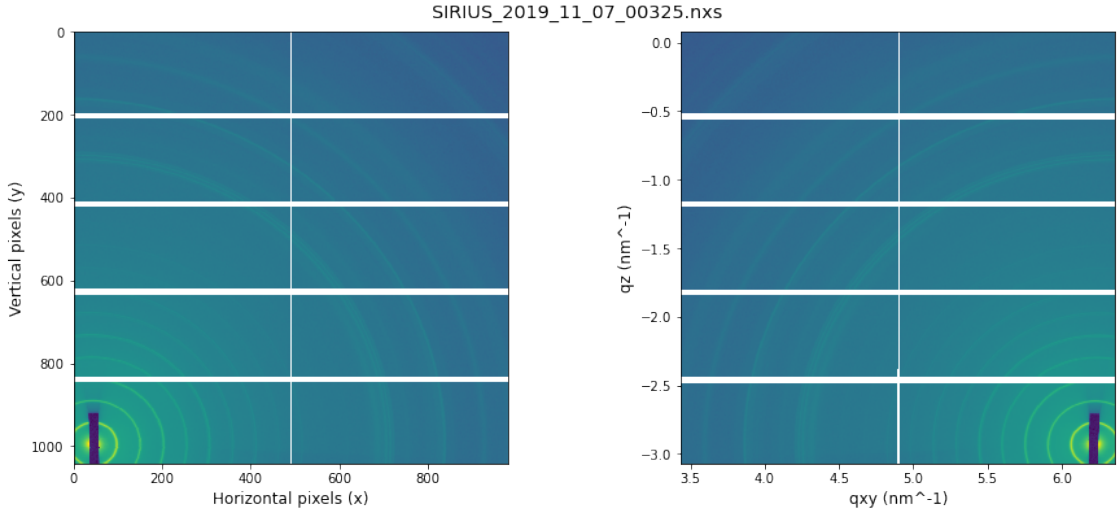
Enter gamma:

. gamma = 0

. No delta found!

Enter delta:9

. delta = 9



. No gamma found!

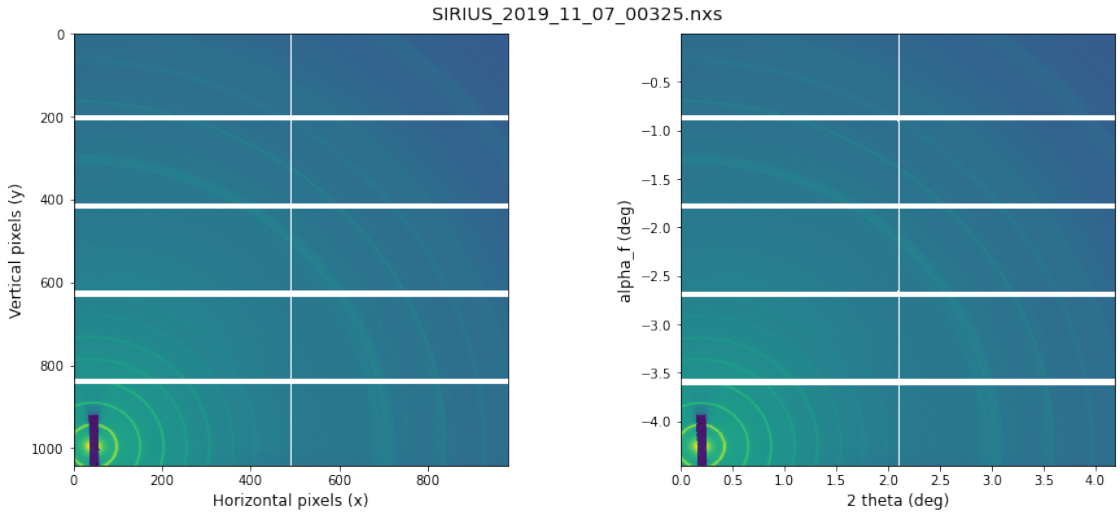
Enter gamma:

. gamma = 0

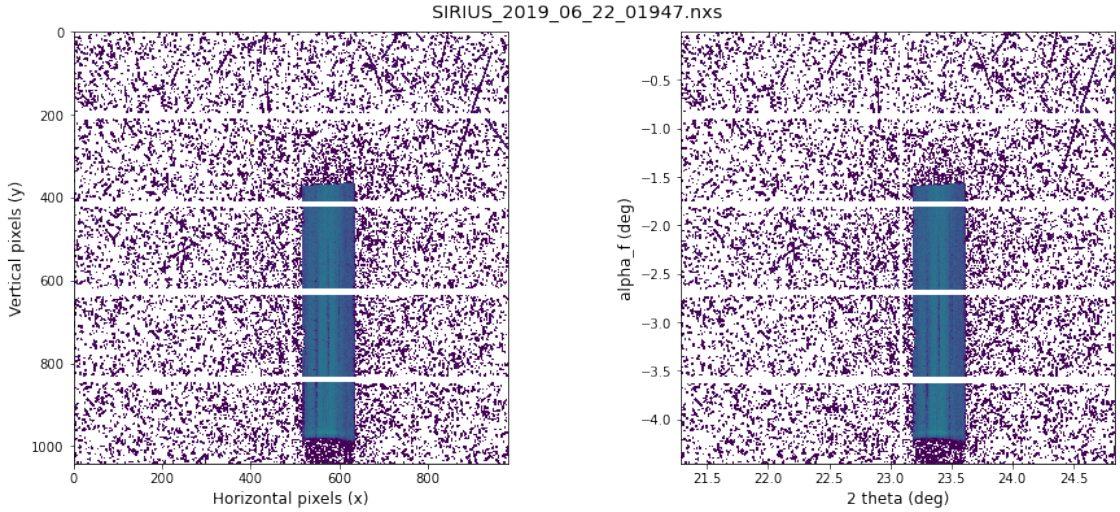
. No delta found!

Enter delta:

. delta = 0



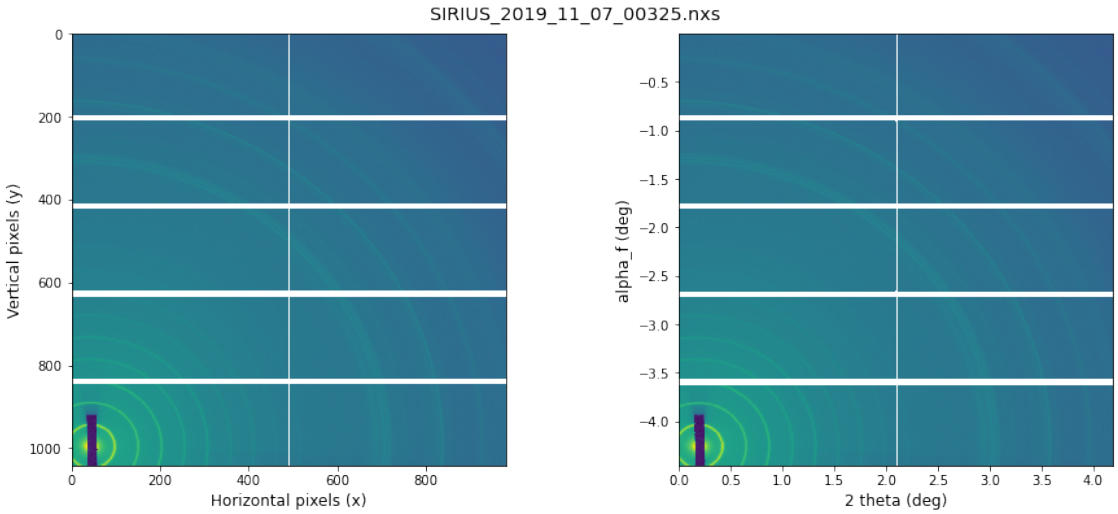
0.1.7 SIRIUS_2019_06_22_01947: No command found



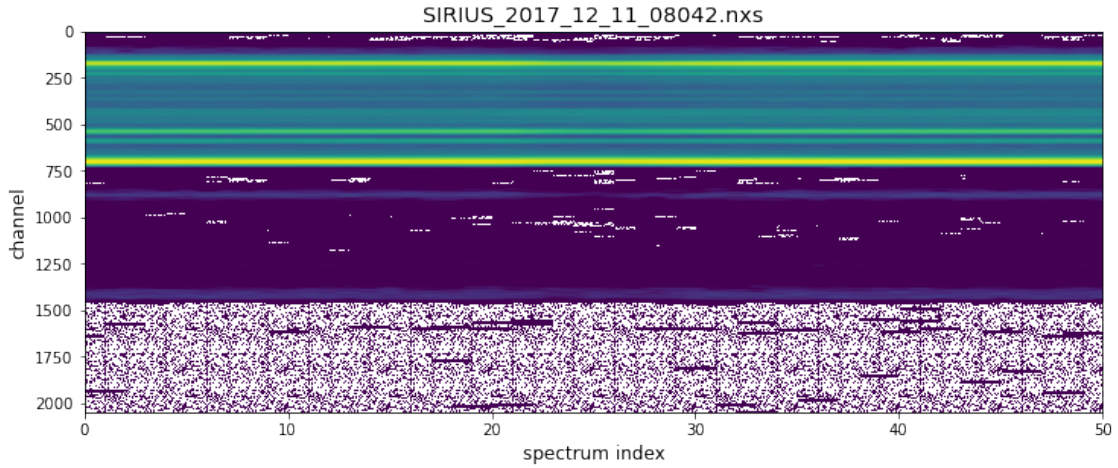
0.1.8 SIRIUS_2019_11_07_00325: No command found

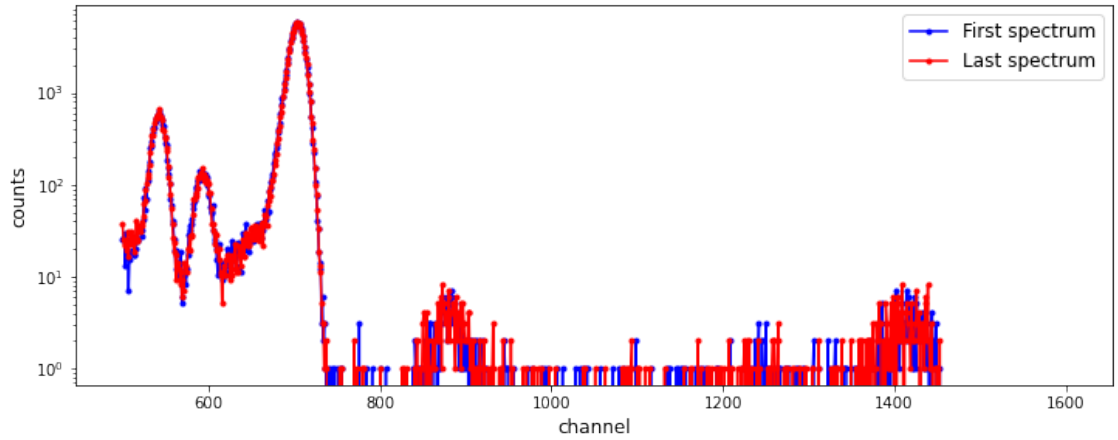
```
        . No gamma found!
Enter gamma:
        . gamma = 0

        . No delta found!
Enter delta:
        . delta = 0
```



0.1.9 SIRIUS_2017_12_11_08042: run xsw7.ipy

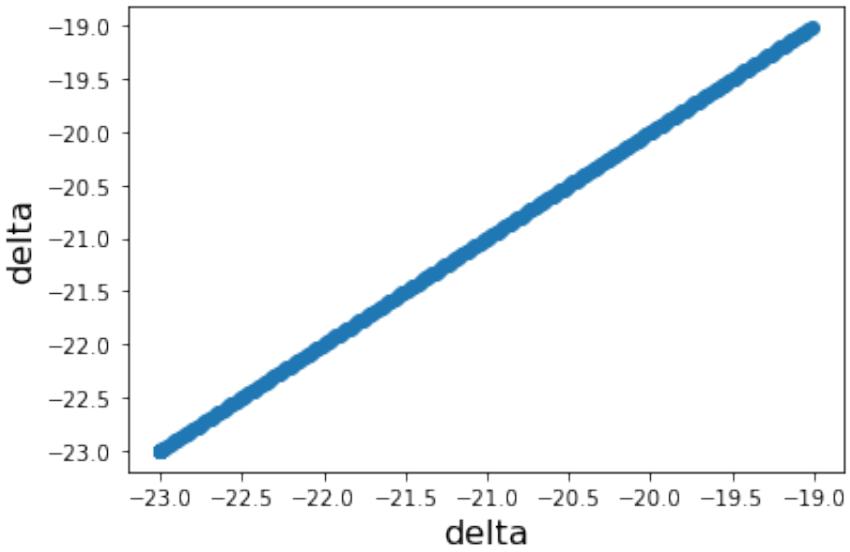




0.1.10 SIRIUS_2017_12_11_08042: run xsw7.ipy

0.1.11 SIRIUS_2019_06_22_01947: No command found

0.1.12 SIRIUS_2019_06_22_01947: No command found



1 Form

SIRIUS Beamline : Experiment

- Type:
- Safety: Yellow
- Date:

- Main proposer:
- Local contact:
- Users (on site):
- Recording directory:

- Machine:
  - Current:
  - Mode:

- Optics:
  - DCM: Si111
  - MGM: Not used
  - M1: M1-A Pt Track
  - M2: M2 Pt Track
  - M3: No M3
  - M4: M4 Pt Track

- Beam:
  - Fixed/Variable energy: Fixed

  - Energy (keV):
  - Wavelength (nm):
  - Harmonic:
  - Polarisation: LH
  - Phase (deg): 0
  - Horizontal focalisation True
  - Vertical focalisation True
  - Horizontal beamsize (mm):

- Monitors and XBPM:
  - mon1:
  - mon2:
  - mon3:
  - mon4:
  - Detectors:

- Remarks: