



| The European Synchrotron

daiquiri



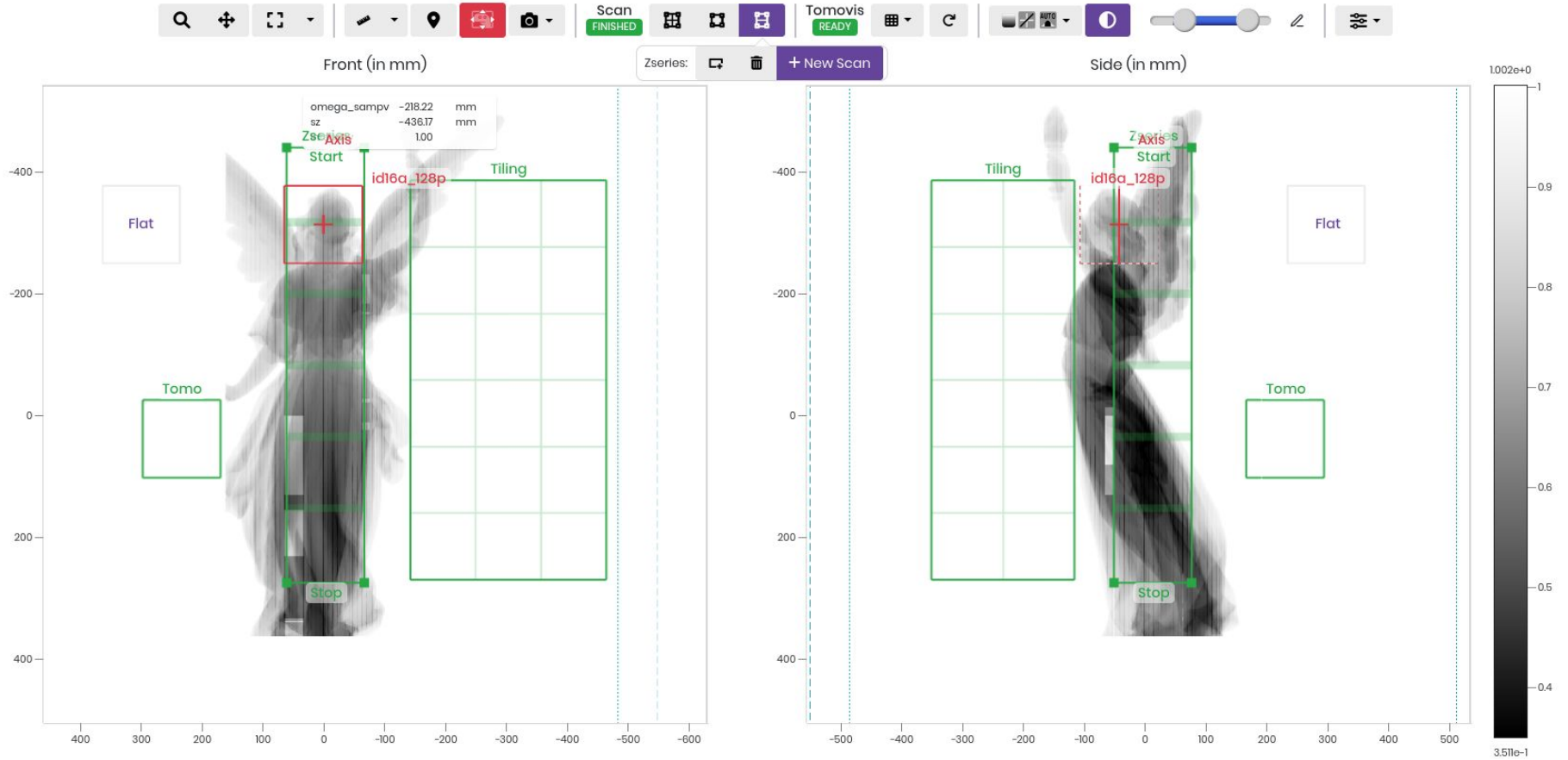
advanced user interfaces for tomography and mapping

Stuart Fisher / Valentin Valls

ESRF

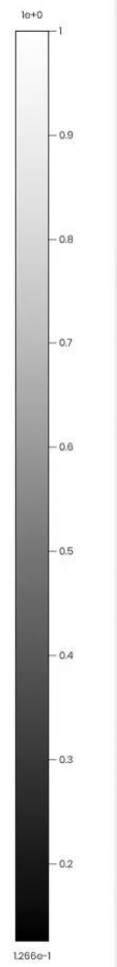
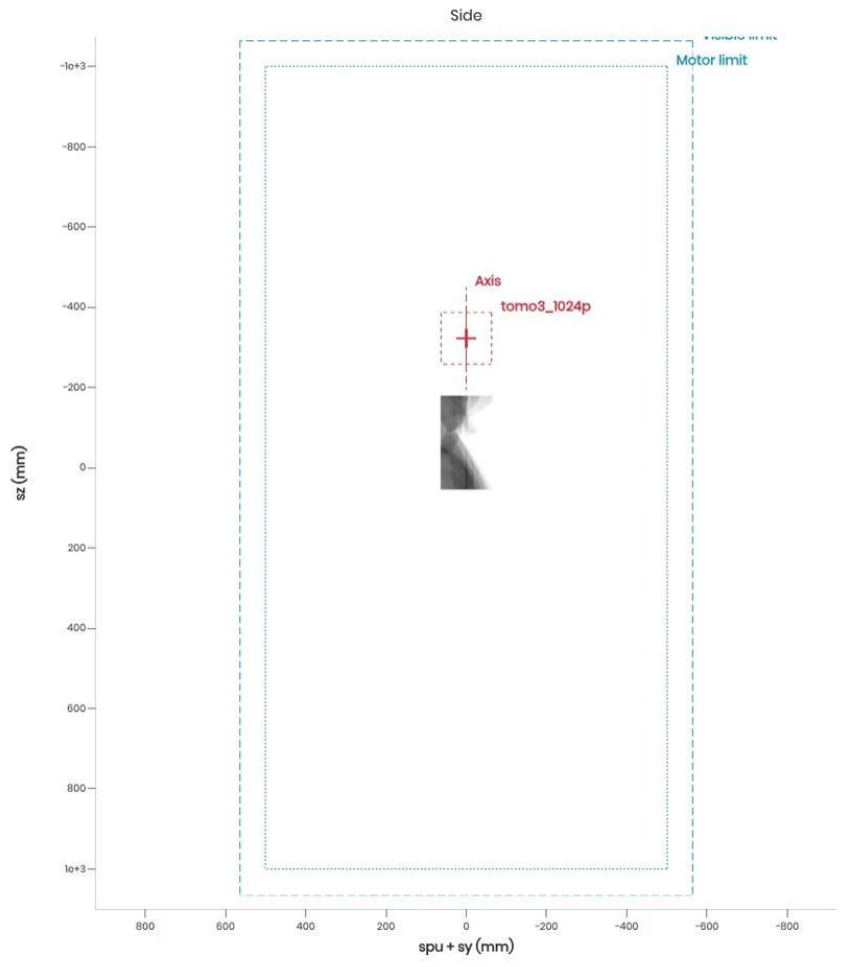
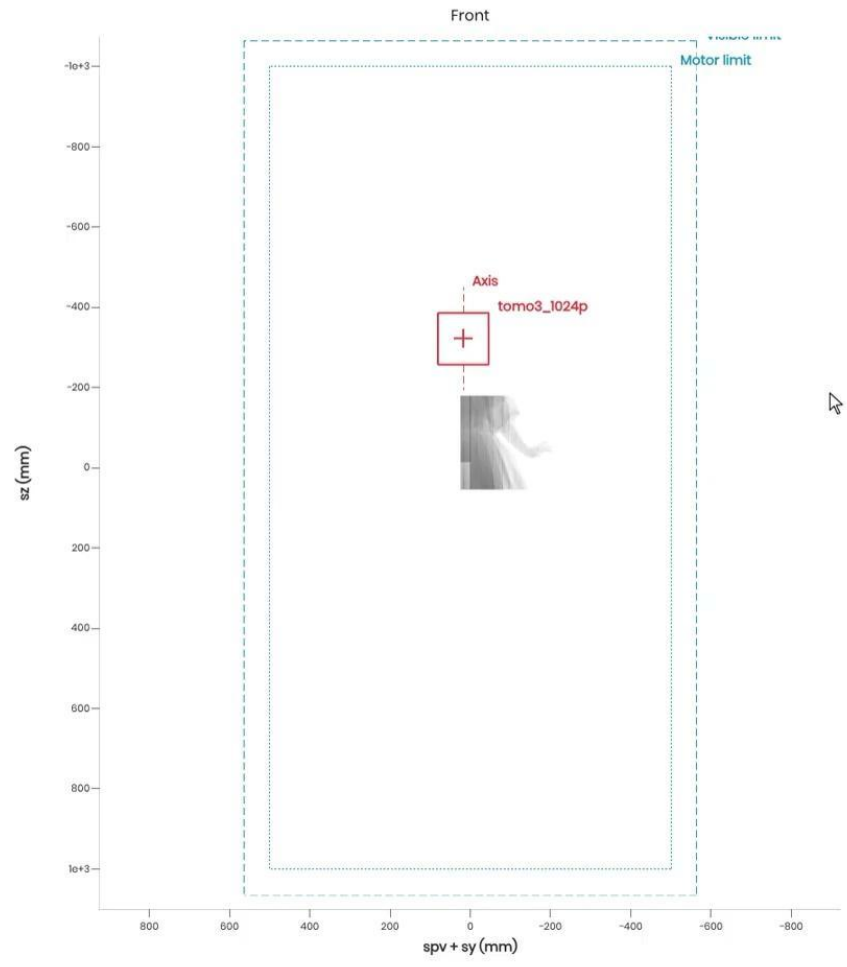
Software Engineer / BCU

Tomography: Tiling View



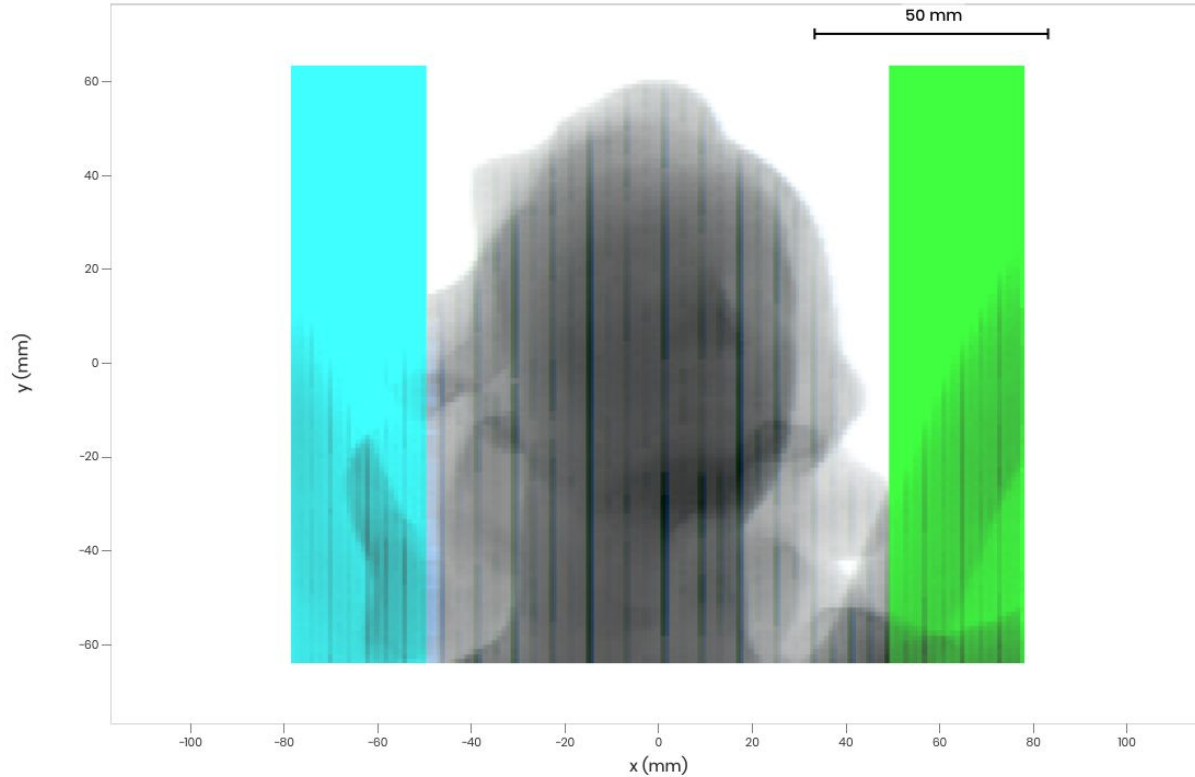


Search, zoom, pan, and Tomovis status (READY) controls.



Tomography: Alignment View

Alignment Procedure data



Description

Lateral axis sy
Tilt axis idl6a_128p_rot

Estimation

Estimator nabu
Method 1d-correlation
Lateral -14.616084 mm
Tilt -0.923944 deg

Correction

Lateral

AWAITING INPUT

READY



Mock

float32

bob marley

ID16A

align 32bits

align 16bits

align 8bits

ID16B

Needle

sy

crot crot2

crot crot2 (refined)

sthy

sthy (refined)

ID16B

Rock

240nm

50nm

25nm

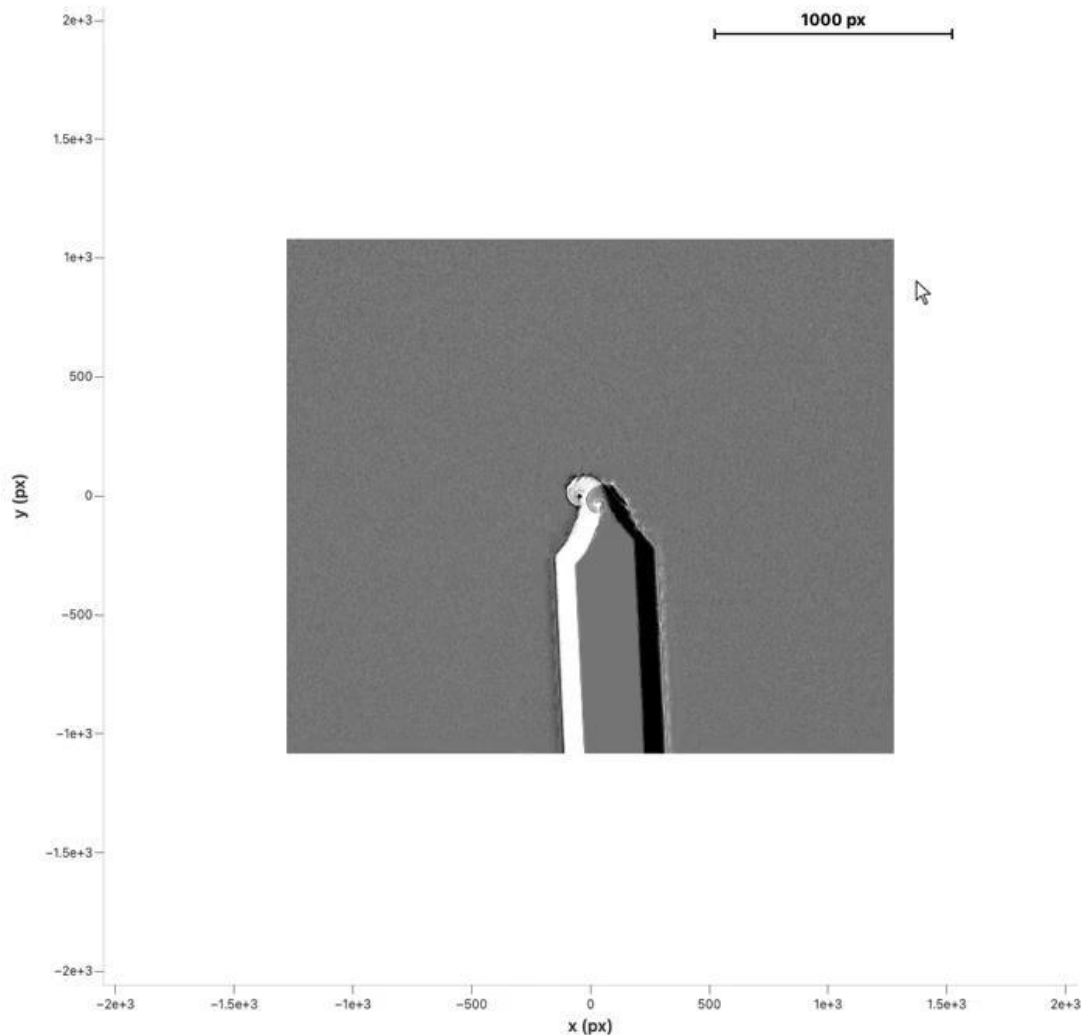
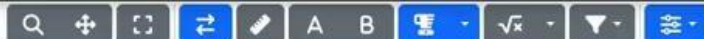
25nm (refined)

ID16B

Soft tissue

25nm

25nm (refined)



Align procedure

Placeholder which will be used to start and monitor the alignment procedure



Corrections



Lateral px



Tilt deg



Apply corrections

Abort

Tomography: Acquisition View

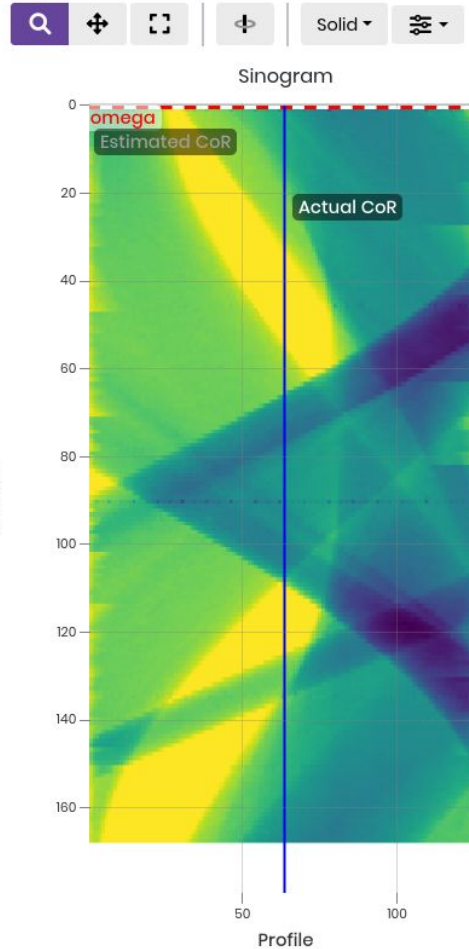
Scan status

- Data collection: 88
- Scan: 694229204
- Start: 5:31:26 PM
- Status: **FAILED**
- Progress: **Dark Flat Step scan Return**
- Description: 3/4:
Tomo scan using rotation as step motor
- End: 5:33:09 PM
- Duration: 2 min

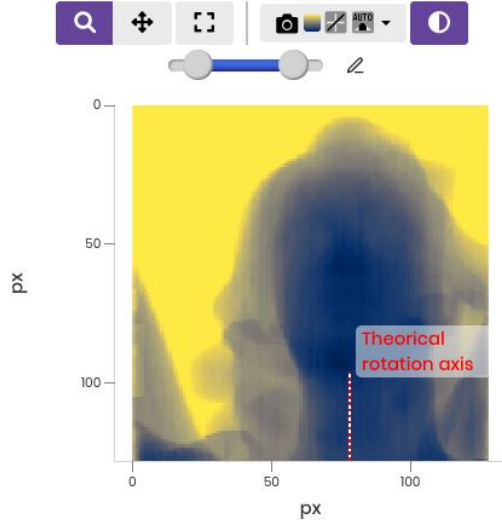
Sample stage



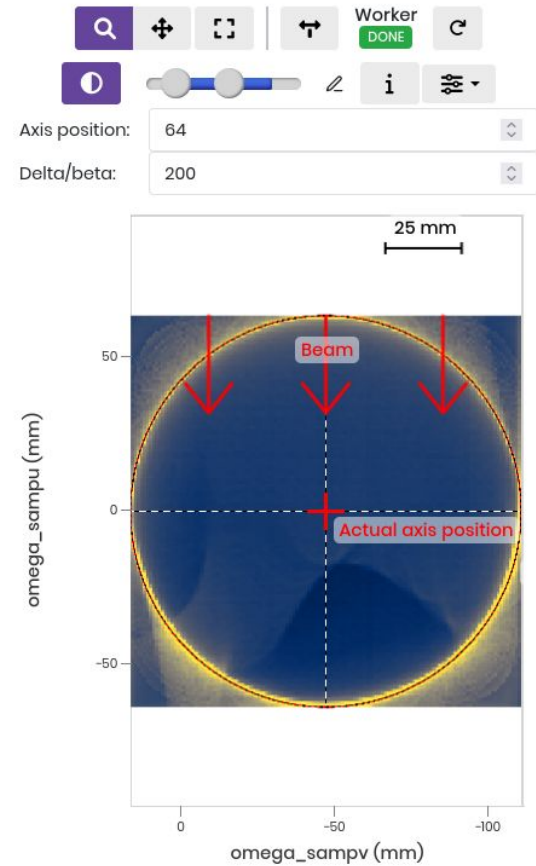
Sinogram



Projection



Reconstructed slice



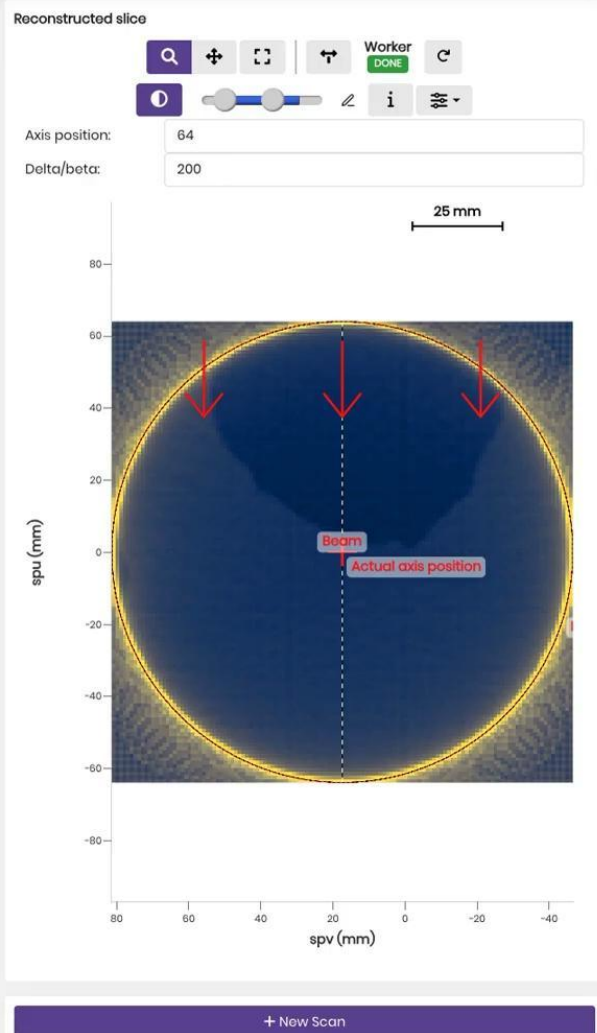
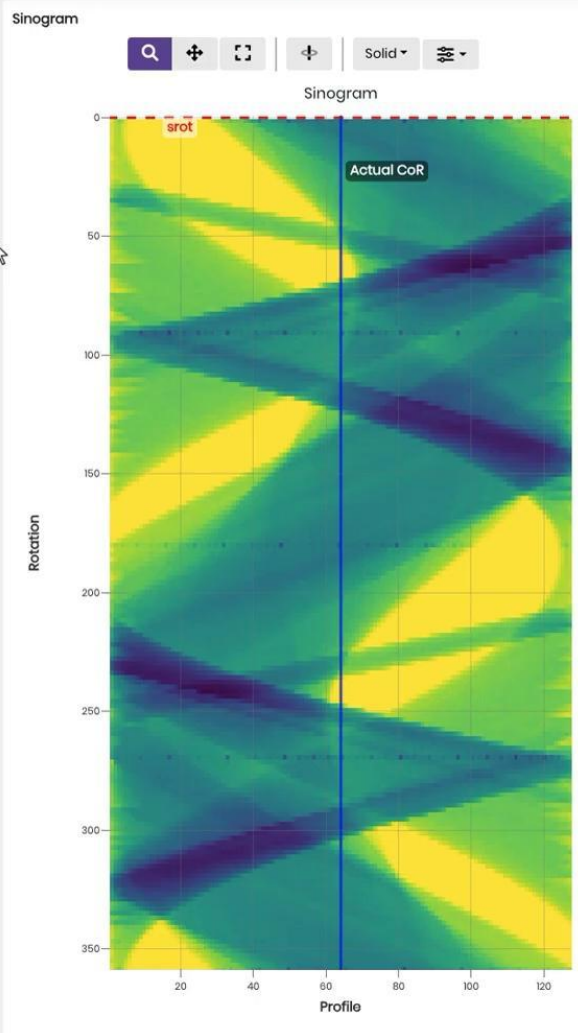
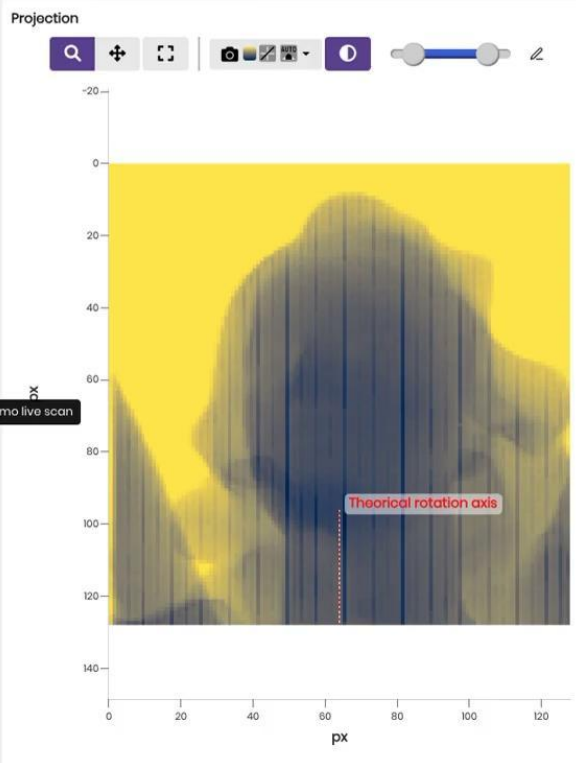
Scan status

- Data collection: 5
- Scan: 2117099923
- Start: 10:58:07
- Status: FINISHED
- Progress:
 - Dark
 - Flat
 - Step scan
 - Return
- Description: Done
- End: 10:59:46
- Duration: 2 min

Sample stage

srot READY
 sy READY

0.0 mm



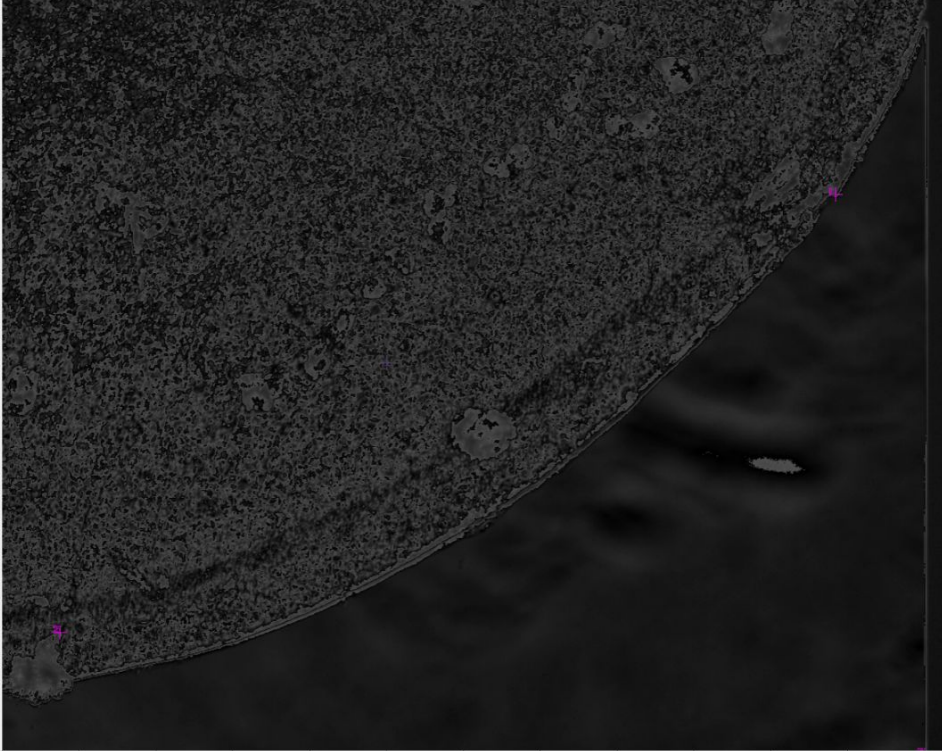
Mapping: Correlated Imaging

Daiquiri UI: ID21

Ring Current: -0.17525 | Front End: STANDBY | PSS Interlock: ON | Absorber 1: OPEN | Absorber 2: FAULT | Energy: - | Shutter: CLOSED

HiHram HCM

Reference | ROI | Pan | Move | Linear | Grays | Invert

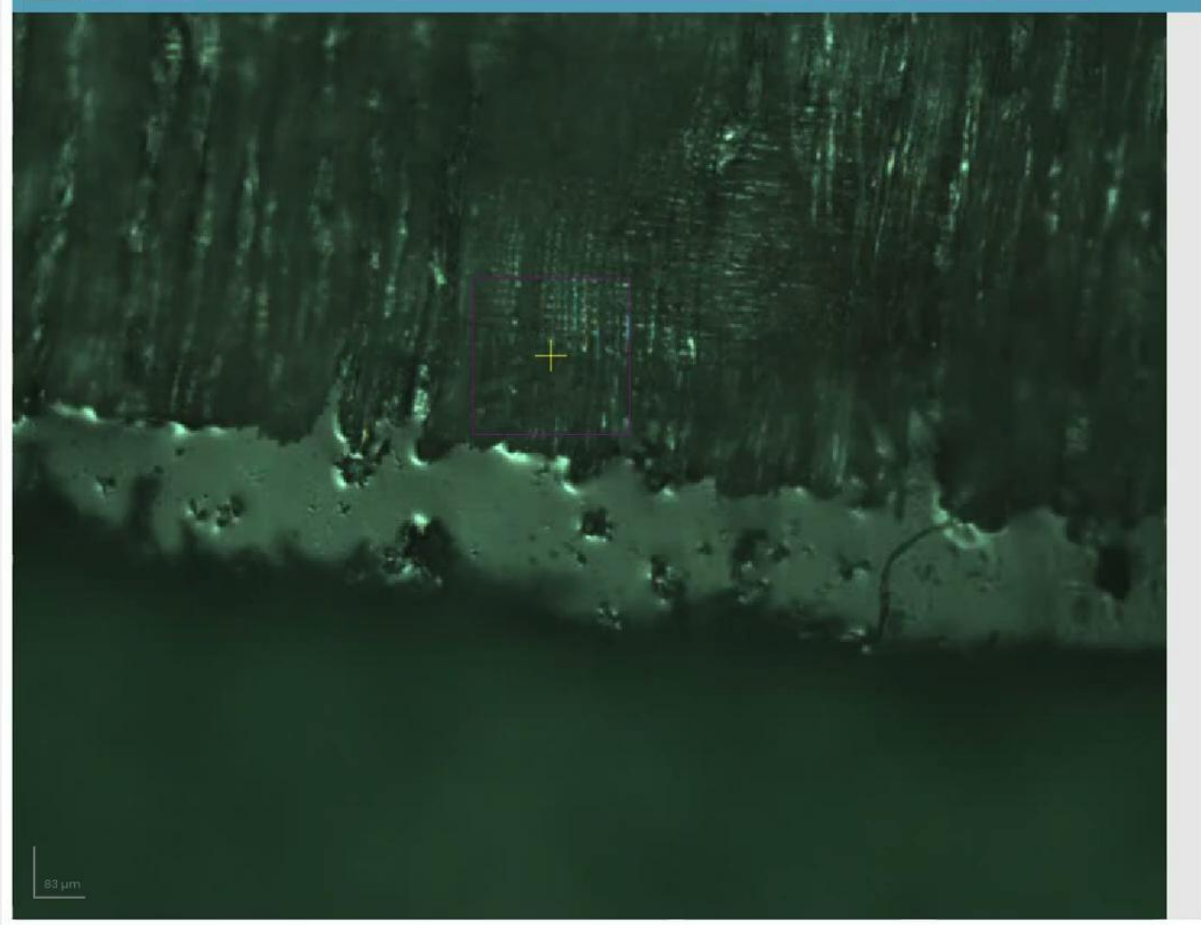


| Id | Status | Message | Image |
|------|---------|----------|-------|
| 2937 | SUCCESS | Test_reg | Yes |

| # | Type | X | Y |
|---|-----------|----------|----------|
| 1 | reference | 2169 | 563 |
| 2 | reference | 150 | 1702 |
| 3 | reference | 2399 | 2020 |
| 1 | real | 12722047 | 22583790 |
| 2 | real | 11625058 | 23089962 |
| 3 | real | 12773312 | 23386965 |



Sum + Snap Off Mosaic Ref POI ROI LOI Measure Pan Move Cursor Video Images



correlated ☰ 🖼️ 🗑️ ✖

| # | Type | Size | Tags |
|--------------------|------|------|------|
| No objects defined | | | |

No object selected

nny READY nnz READY nnp2 READY nnp3 READY nnp1 READY nnp3 READY nnp1 READY nzoom READY nvolpi5 ON nvlm ACQUIRING

-0.4953 0.1 mm -2.8374 0.1 mm 125 1 125 1 4.4 0.1 mm 125 1 x5 Move 16% 0.0001 *10 s Live

