# FIP-BM30A

**Beamline Status** 







Y. Sallaz-Damaz MXCuBE Meeting - January 2017

### FIP-BM30A: a F-CRG beamline

French Investigation for Protein

French – Collaborating Research Groupe

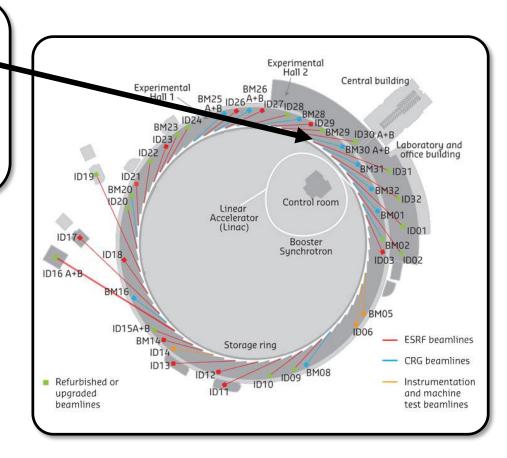
is located at the ESRF but

but

is founded and staffed by

French research institutions





### FIP-BM30A: Staff

#### Administration

J.-L. Ferrer

FIP responsible

P. Israel-Gouy

secretary

#### FIP technical Staff

Y. Sallaz-Damaz

Instrumentation & Software - 100%

M. Pirocchi

Samples & Vaccum & Cryo - 20%

P. Jacquet

Mechanics & CAD - 50%

C. Berzin

PLC & Electronics - 100%

#### Local contact

F. Borel

D. Cobessi

M. Pirocchi

J.-L. Ferrer

### FIP-BM30A: hardware

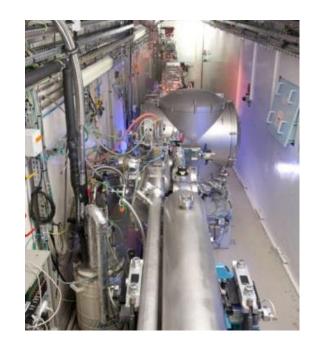
# FIP is optimized for the anomalous diffraction (SAD/MAD) from 0.7 to 1.75Å

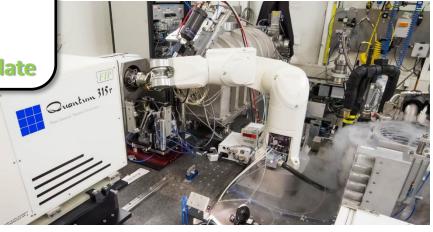
#### **Optical elements:**

- 2 parabolic mirrors
- a double monochromator cooled with LN2+ sagittal focalization

#### Sample environment:

- MD2 goniometer driven by a Galil controller and ICEPAP
- a CCD detector ADSC 315R
- A drilled on axis sample microscope
- a sample beam size around 200-300µm
- a Custom G-Rob to change sample
- and to mount and expose diffraction plate





# FIP-BM30A: main software

#### Spec

Macro Motor (Icepap)
Galil Ethernet Motor (MD2)

Spec macro for data collection, geometry control, wavelength setup....





#### Tango Device Server

G-Rob \*
MCA Rontec \*
CAENels picoammeter \*
Inclinometer \*
Wago

\*Internal FIP development

Taco

**ADSC Detector** 

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**ADSC Detector** 







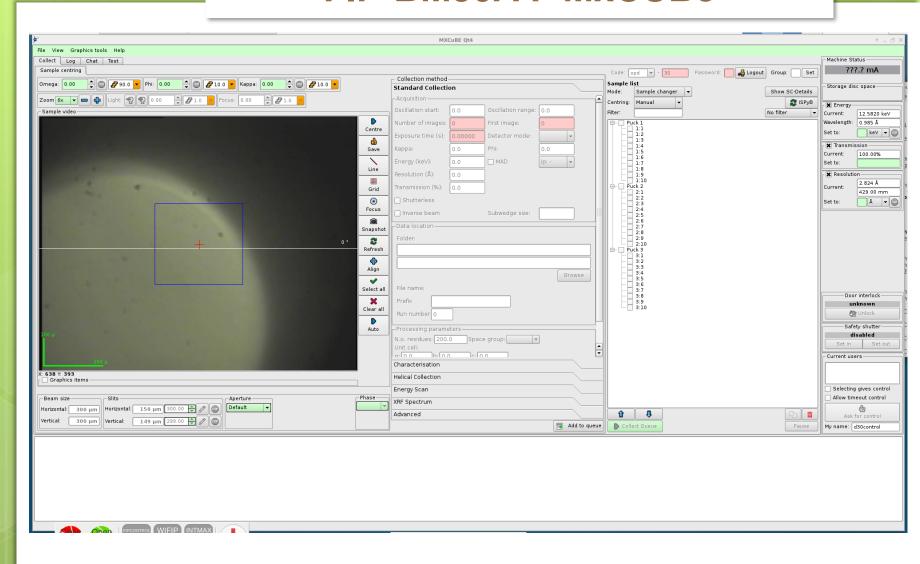
Web-base user interface

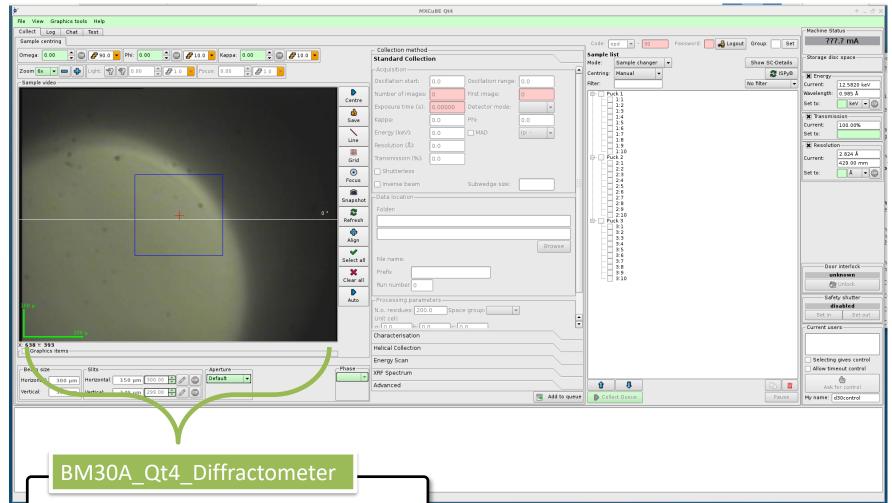
Discussed later today



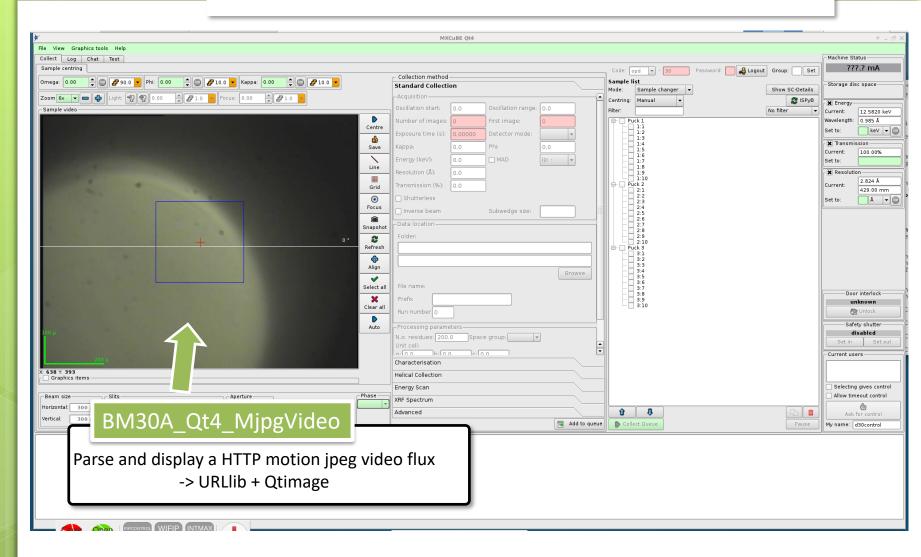


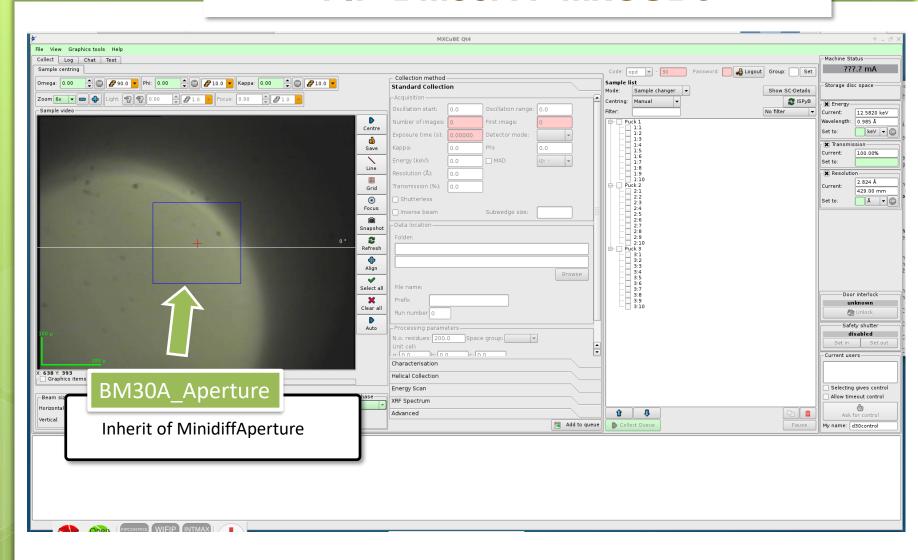
Using QT4 90% implemented

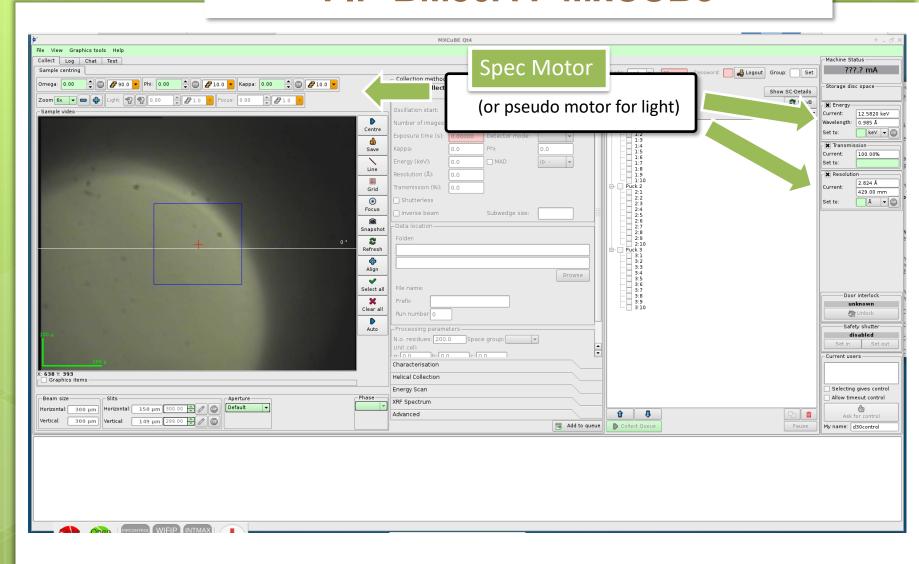


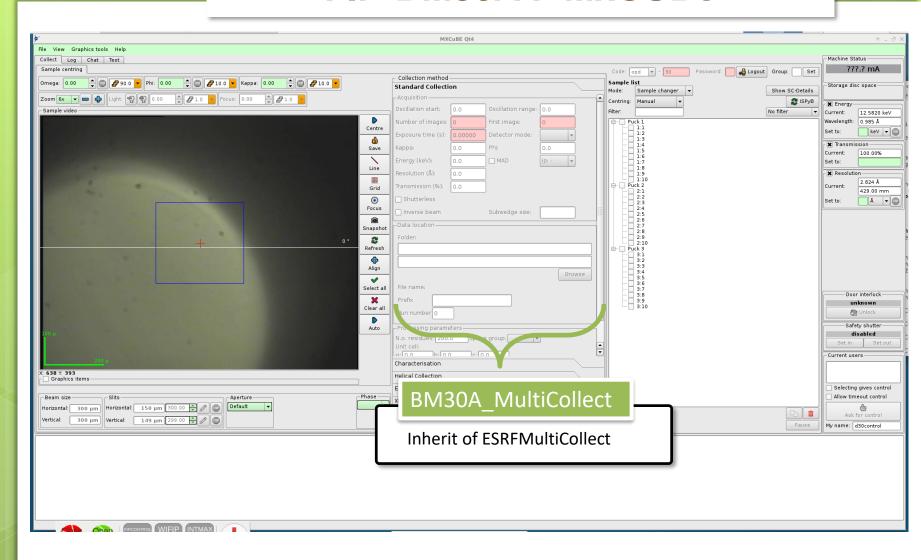


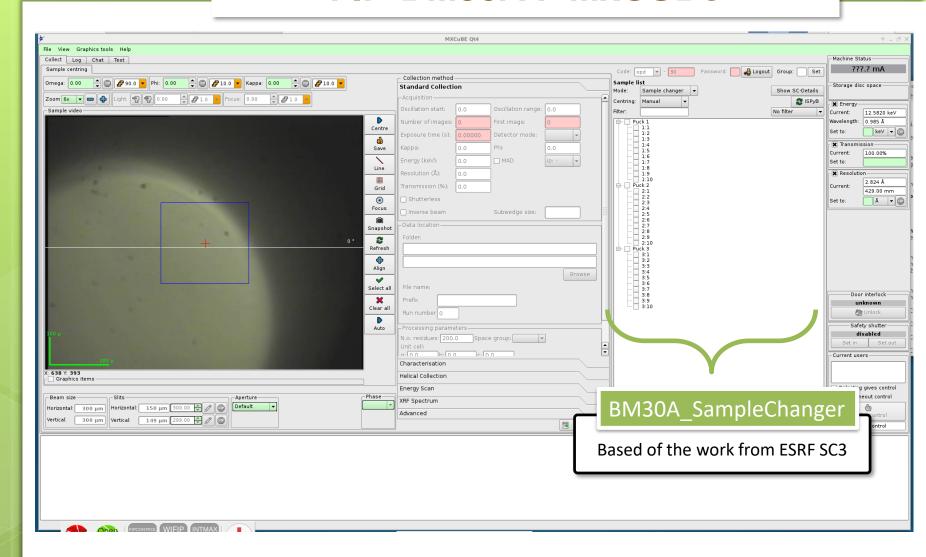
Inherit of GenericDiffractometer
With CenteringMath HWO

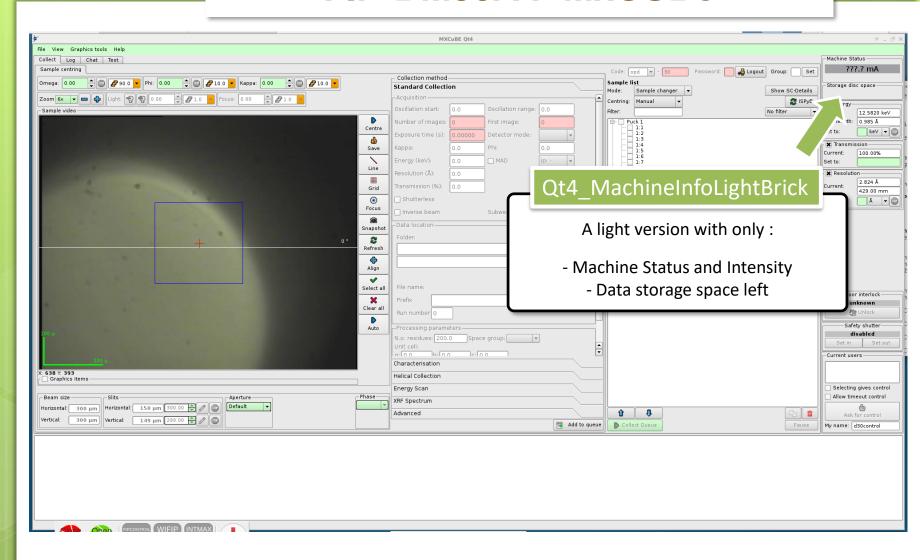


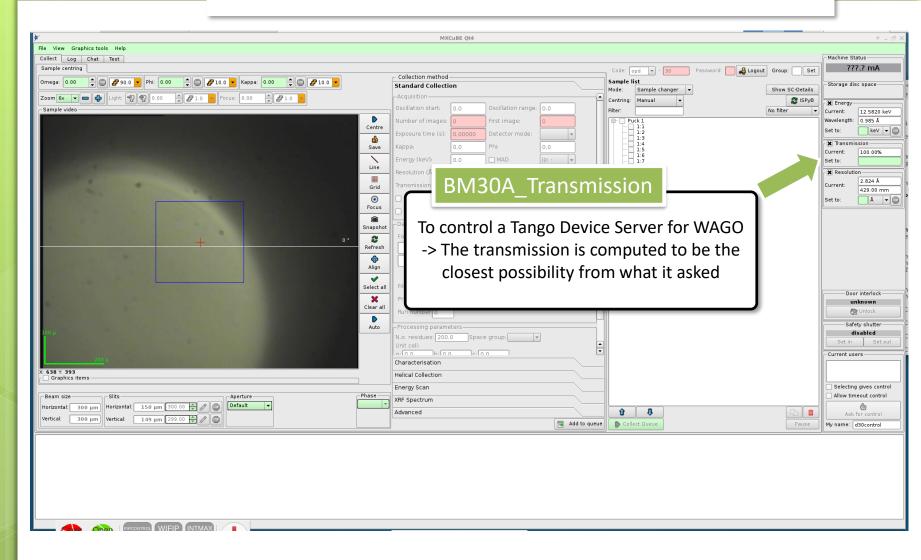


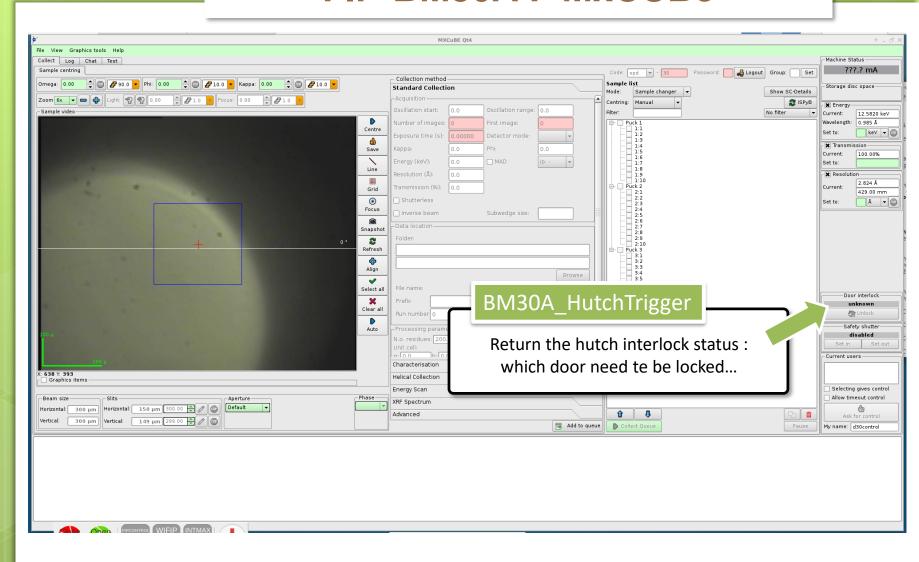












### FIP-BM30A: Current Status

#### Working

#### Almost all basic functionalities:

- Goniometer
- Manual Centering
- Monochromatic data collection (at the FIP fashion w/o icepyb)
- Screening
- Energy setup

#### Almost working

- Sample changer for frozen sample

#### Not implement

- Sample changer in plate mode
- Auto processing
- Auto centering
- MCA
  - ...

# FIP-BM30A

**WIFIP** 







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## FIP-BM30A: WUI



**W**eb-based

user Interface

for FIP

### FIP-BM30A: WUI



Web-based

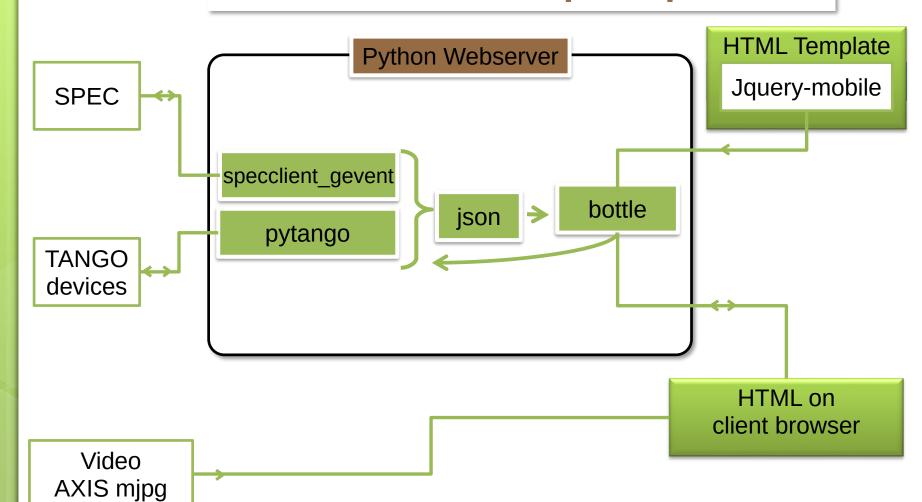
user Interface

for FIP

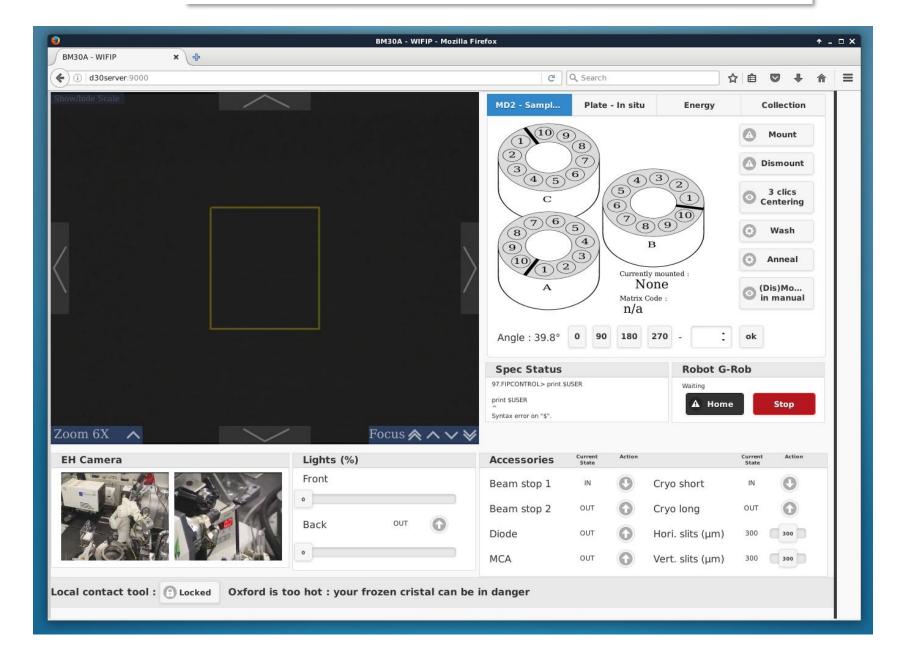
- → Use the beamline **easily** from a browser from **anywhere**
- → Allow local contact to help the user remotely

WIFIP is in function since September 2015

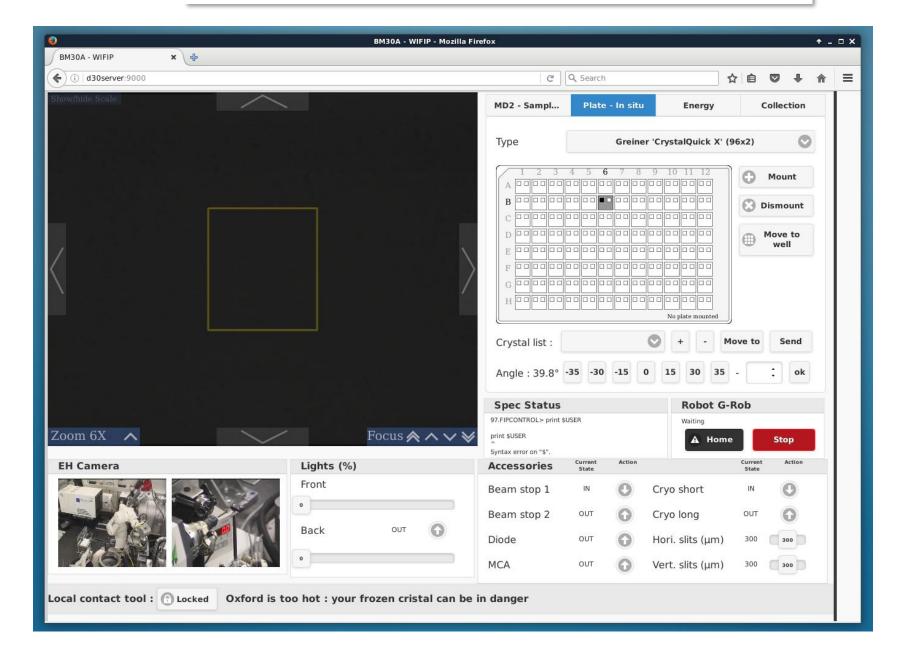
# FIP-BM30A: principle



# FIP-BM30A: Sample changer



# FIP-BM30A: Plate changer



### FIP-BM30A: Feedback

After 16 month what is the user feedback?



Multi users simultaneously (student at the beamline, the researcher away)

Using every where

Session persistency

Easy to use remotely

UI easy to learn

Camera feedback

It's not MxCUBe

No IcepyB connection

No MCA in the first version