

# ISPyB site report

Elettra Sincrotrone Trieste



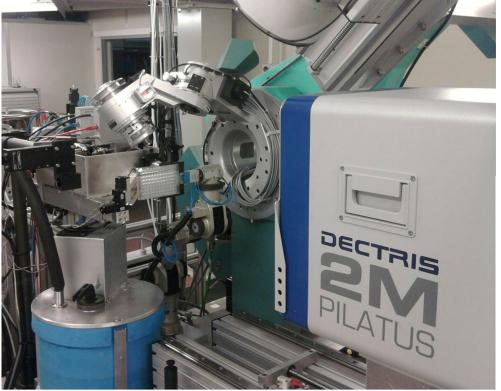


### Brief beamlines summary

**XRD2** (X-ray diffraction 2):

Focussed on MX - SPINE standard samples only

Surviving without a LIMS is impossible!





**XRD1** (X-ray diffraction):

General purpose XRD - multiple supports accepted

Experiments other than SC-XRD are not asking for a LIMS (not high throughput anyway)



Deployment Intranet Storage **DMZ** system NFS SMB SynchWeb server Internet [production] **Pipeline** ISPyB server processing [production] DB servers [production] [prod.] Pipeline ISPyB server processing [test] servers [test] [test] **VUO** proposal SynchWeb server management [test] Test ---system server DB Production





## ISPyB status (1)

#### **Backend:**

- Deployment at glance:
  - CentOS 7 with Apache in DMZ
  - Schema version 3.0.0
  - Database version 10.4.12 MariaDB
- DLS ISPyB <a href="https://github.com/DiamondLightSource/ispyb-database">https://github.com/DiamondLightSource/ispyb-database</a>
- Updated to version 3 applied the changes

#### Frontend:

- Synchweb from php 5 to php 7
- Re-apply all the local changes and bug fixes





## ISPyB status (2)

#### **Tools:**

#### ispyb-datasync

Synchronization between VUO and the ISPyB database ingesting all the proposals, users and sessions

Python3.6

#### ispyb-api

Interface with ISPyB from python

- Version 9 (compatible with ISPyB v3.0.0)
- Migrating from stored procedure to SQLAlchemy (MXCuBE)

#### ispyb-database

It allows creating and updating the ISPyB schema





### Plans for the next six months

- Fixing (random) folder permission problems
- (Optimistically) allow SynchWeb to relaunch pipelines using RunScriptWeb

Development of is basically frozen due to:

- "limited" Human Resources allocated (dark period coming in 2025)
- current "Elettra users needs" fit the db and SynchWeb interface works great (clean and intuitive)

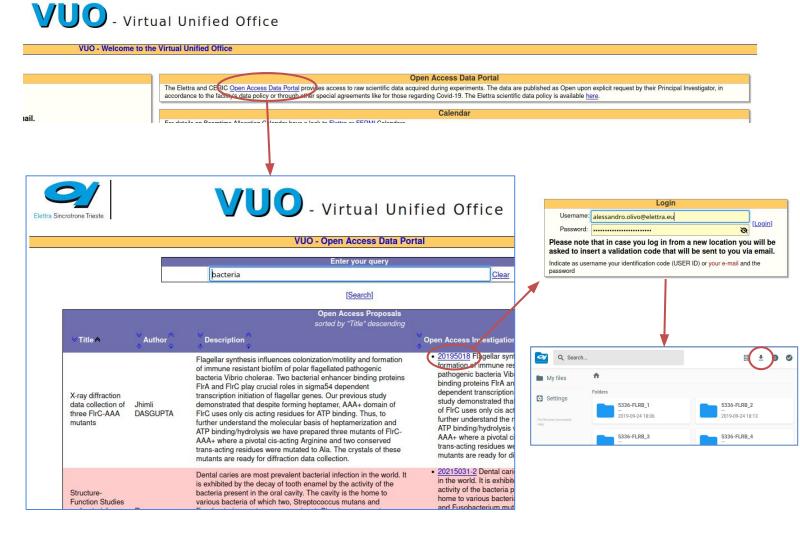
Better performance for pipelines and more features needed with uXRD on Elettra 2.0 (Multi-crystal, time dependant experiments ...CryoEM support?)





### Catalog

- Integrated in VUO
- Implementing the data policy for the opendata
- Public users can browse open investigations:
  - Simple filtering (name, title, description)
- Authenticated users can download investigation data







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