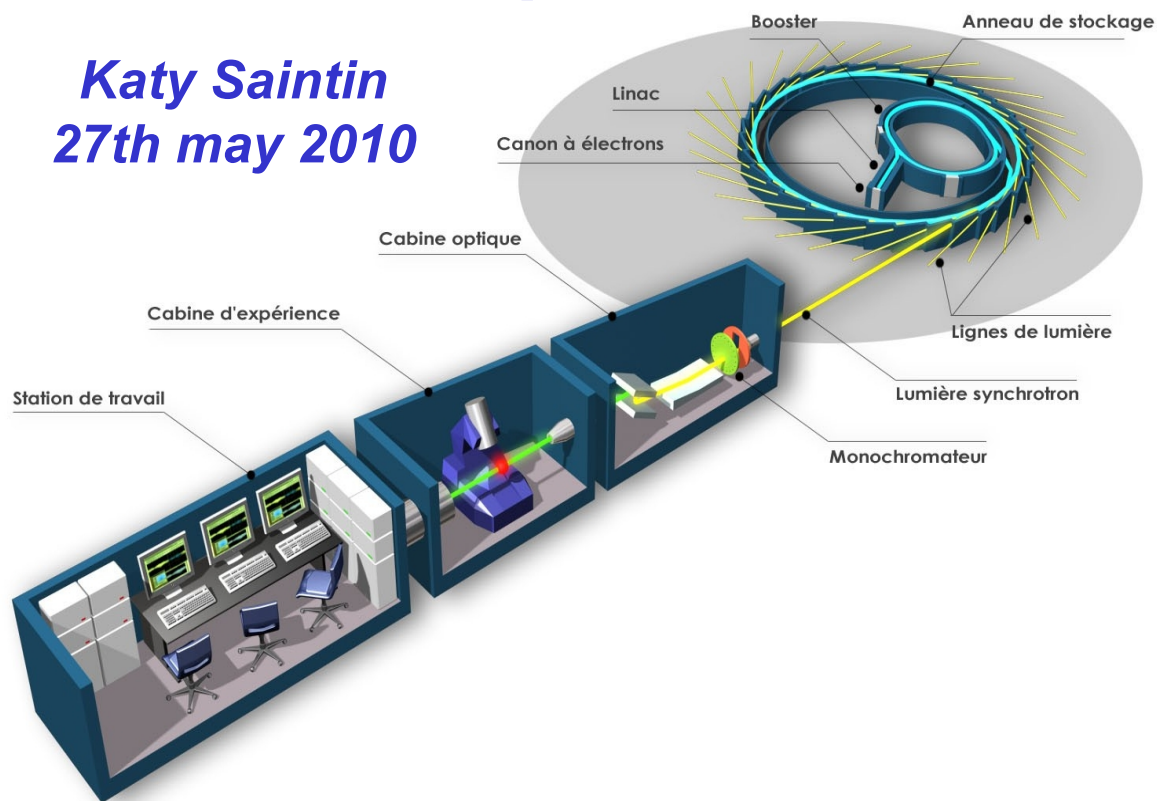


GUI Developments SOLEIL Roadmap

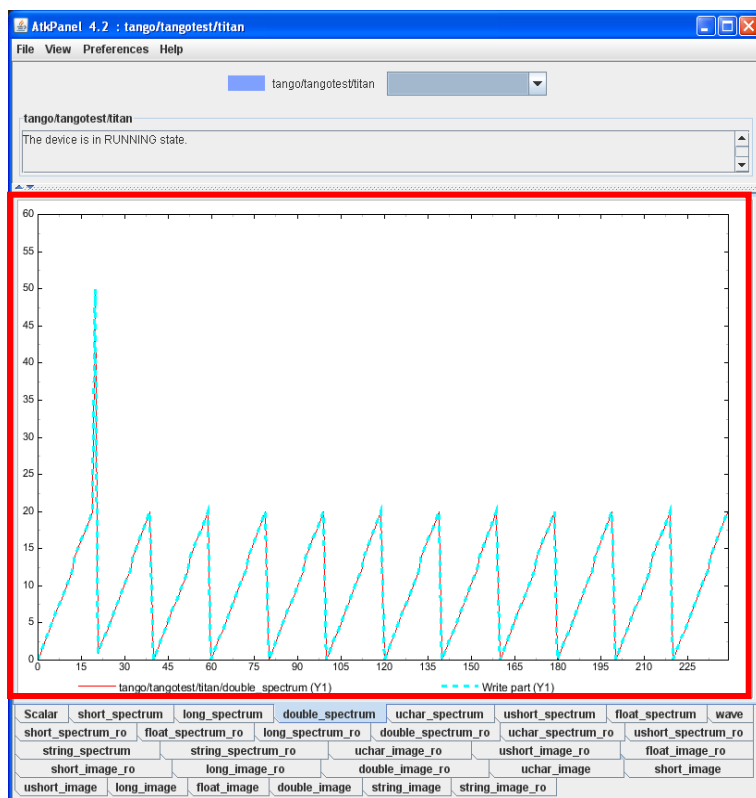
Katy Saintin
27th may 2010



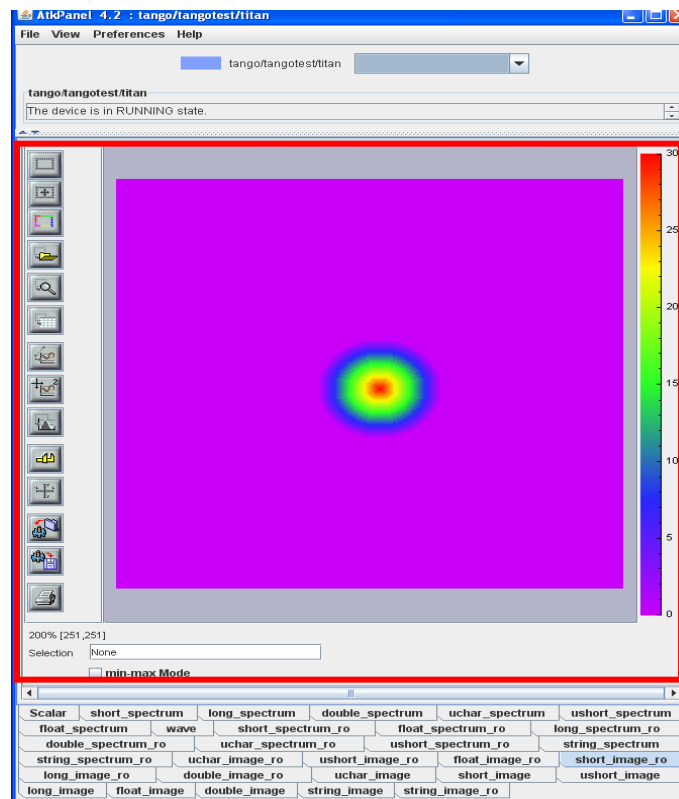
- Reasons for project
 - ✓ GUI of existing tool
 - ✓ Old software architecture
- Project goals
- COMETE solution
 - ✓ Presentation
 - ✓ New software architecture
 - ✓ Examples
- Current status of the project
- Next steps of the project

ATKPanel

- ✓ Generic tools for monitoring the TANGO devices.



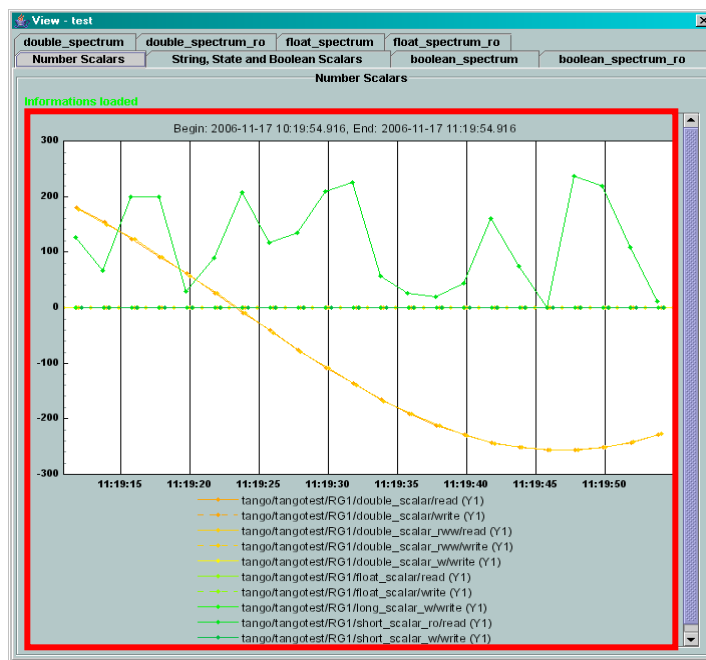
JLChart : NumberSpectrumViewer



NumberImageViewer

Mambo

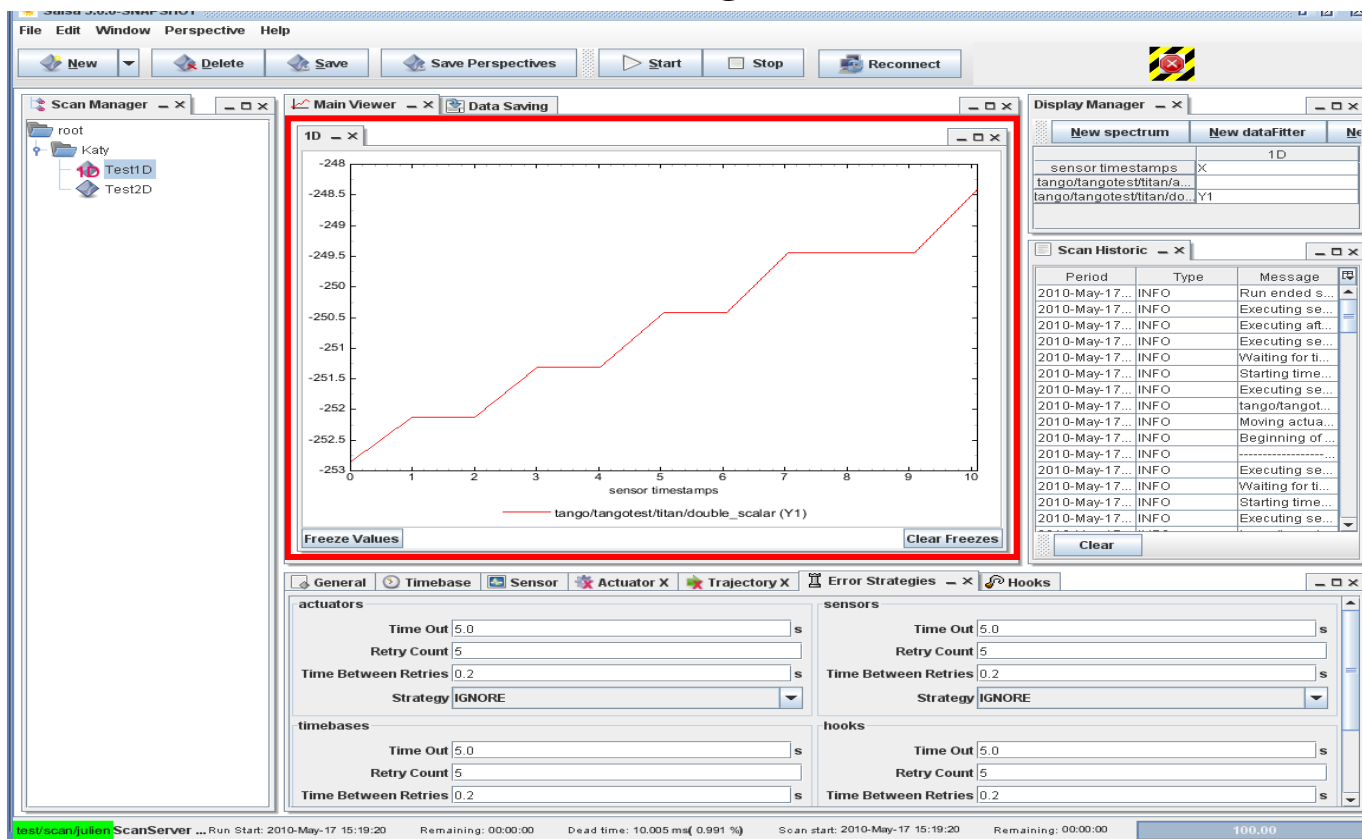
- ✓ Generic tool for archiving the TANGO devices.



Fork of JChart connected to the archiving database

Salsa

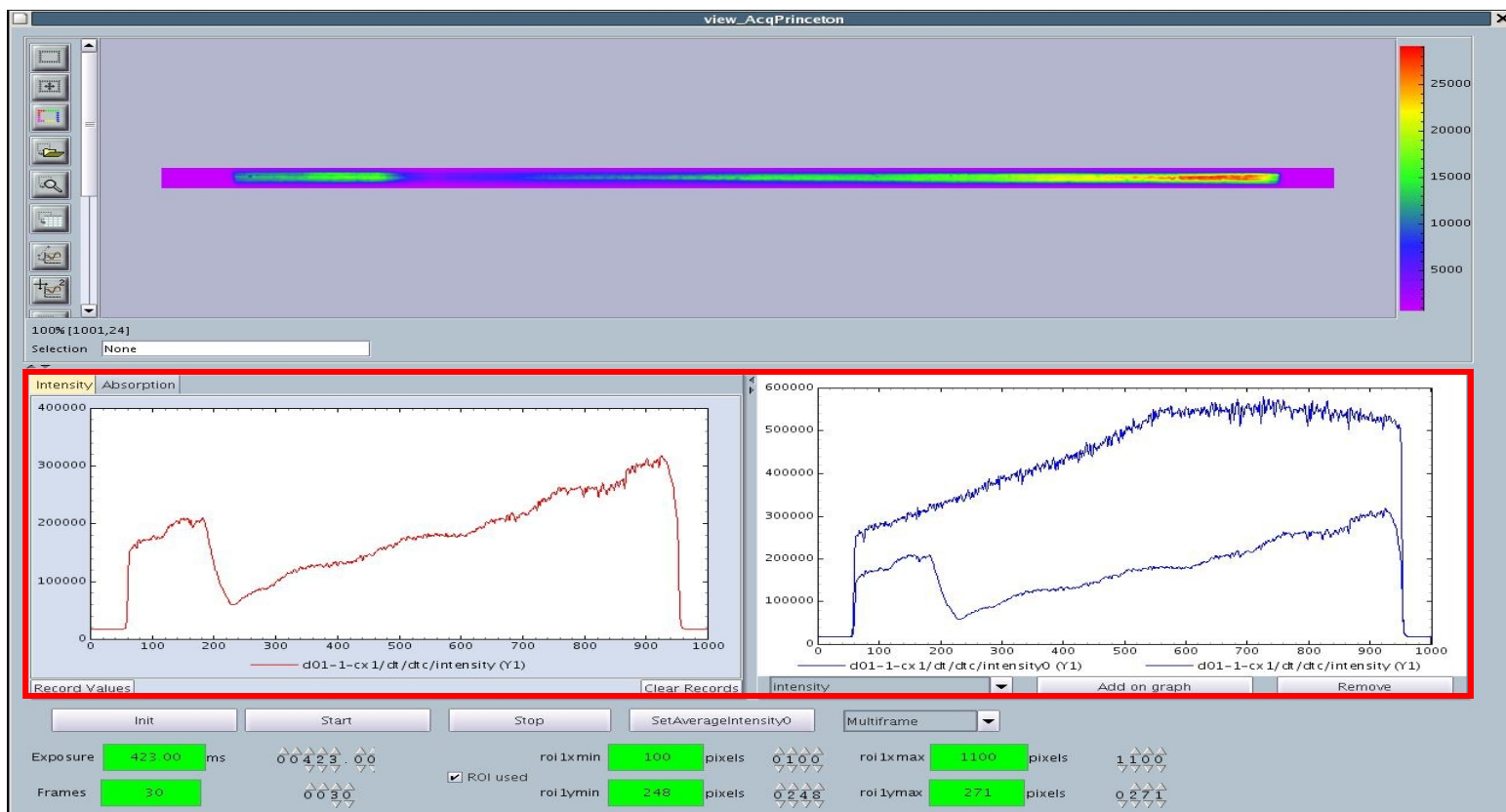
✓ Generic tool for scanning the TANGO devices.



Fork of JLChart : DualSpectrumViewer with freeze function

GlobalSCREEN

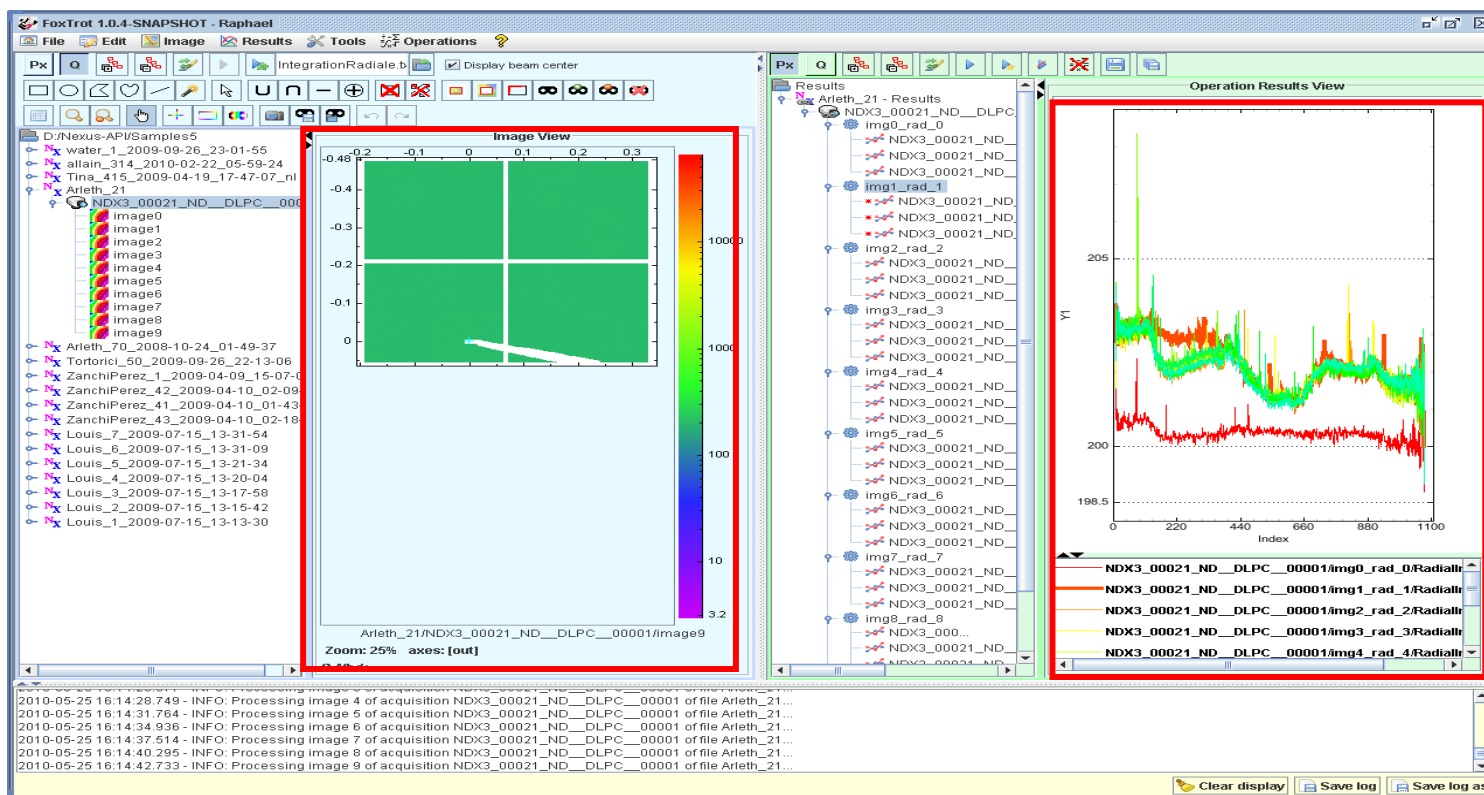
- ✓ SCADA for designing and integrating Java applications.



Fork of JLChart : NumberSpectrumViewer with freeze and management functions

Foxtrot

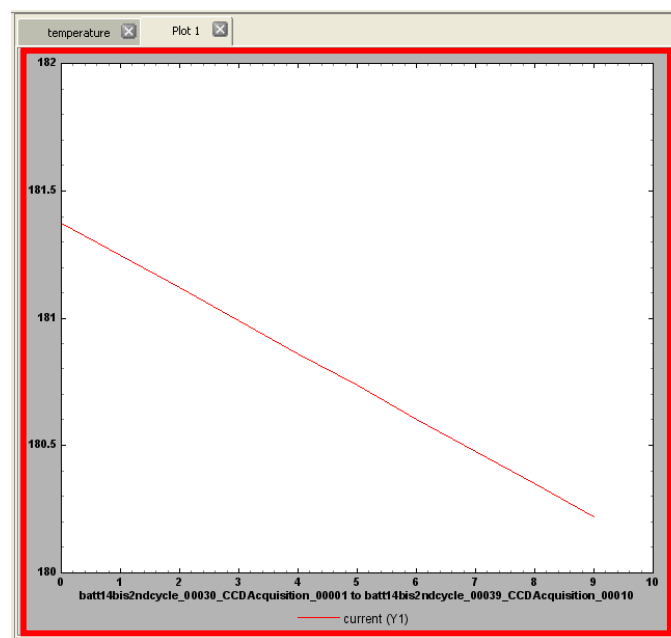
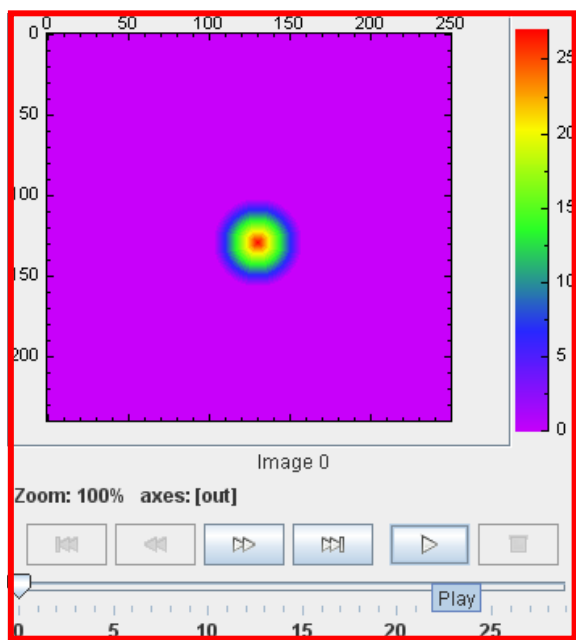
- ✓ Tool for data reduction on Nexus Files.



Fork of ImageJViewer and of JLChart : Reading data from Nexus files

Baladi

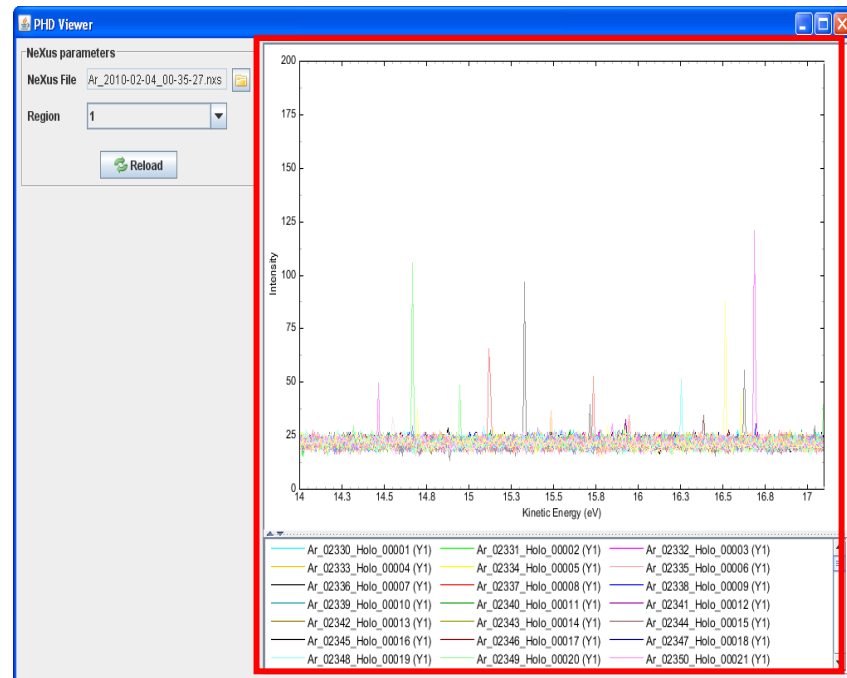
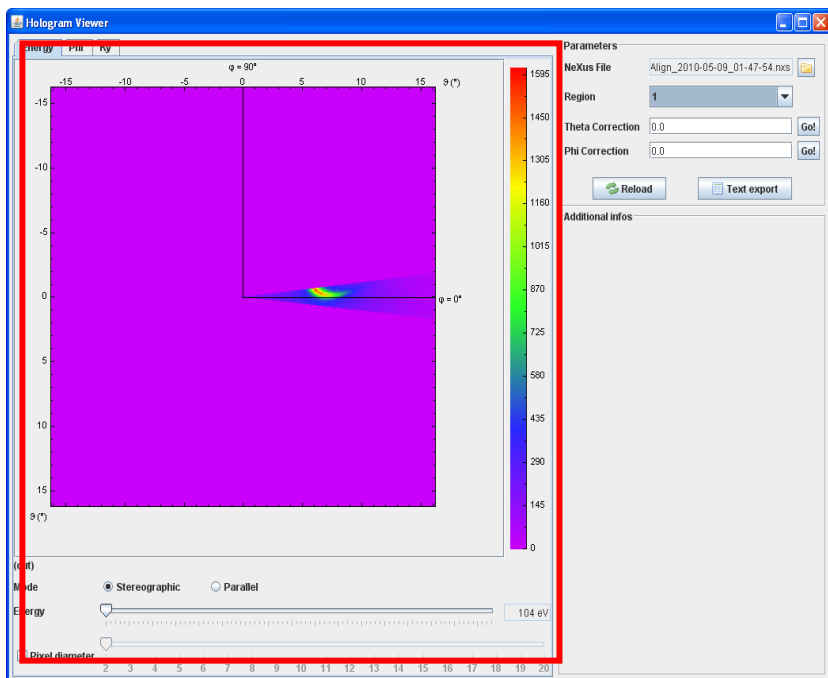
- ✓ Tool for exploring and reading Nexus Files.



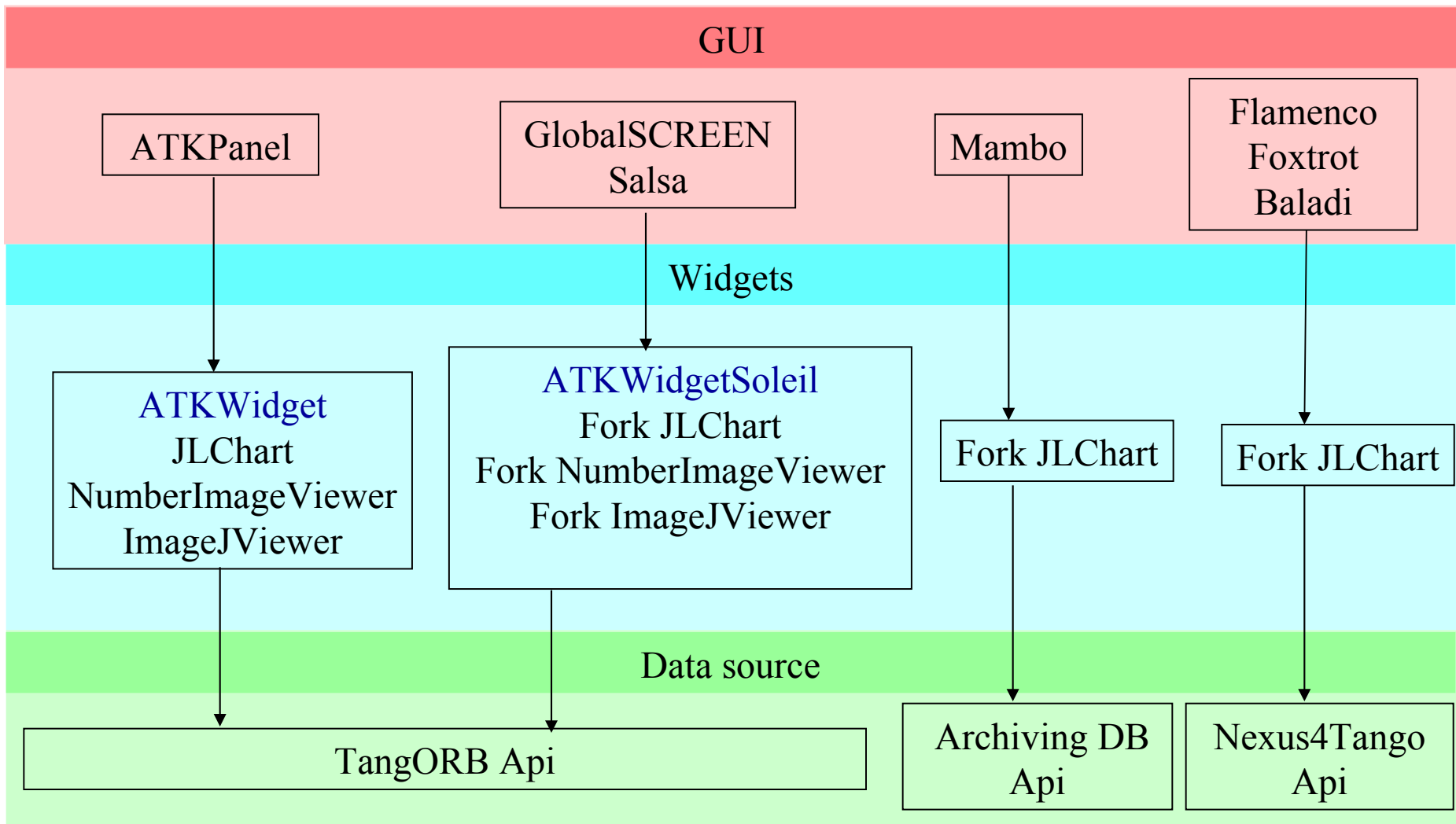
Fork of ImageJViewer and of JLChart : Reading data from Nexus files with Play function

Flamenco

- ✓ Specific tool for ANTARES beam line reading Nexus file.



Fork of ImageJViewer and of JIChart : Reading data from Nexus files



- ✓ Not to develop a new widget each time we need :
 - ❑ A new functionality.
 - ❑ A new data source

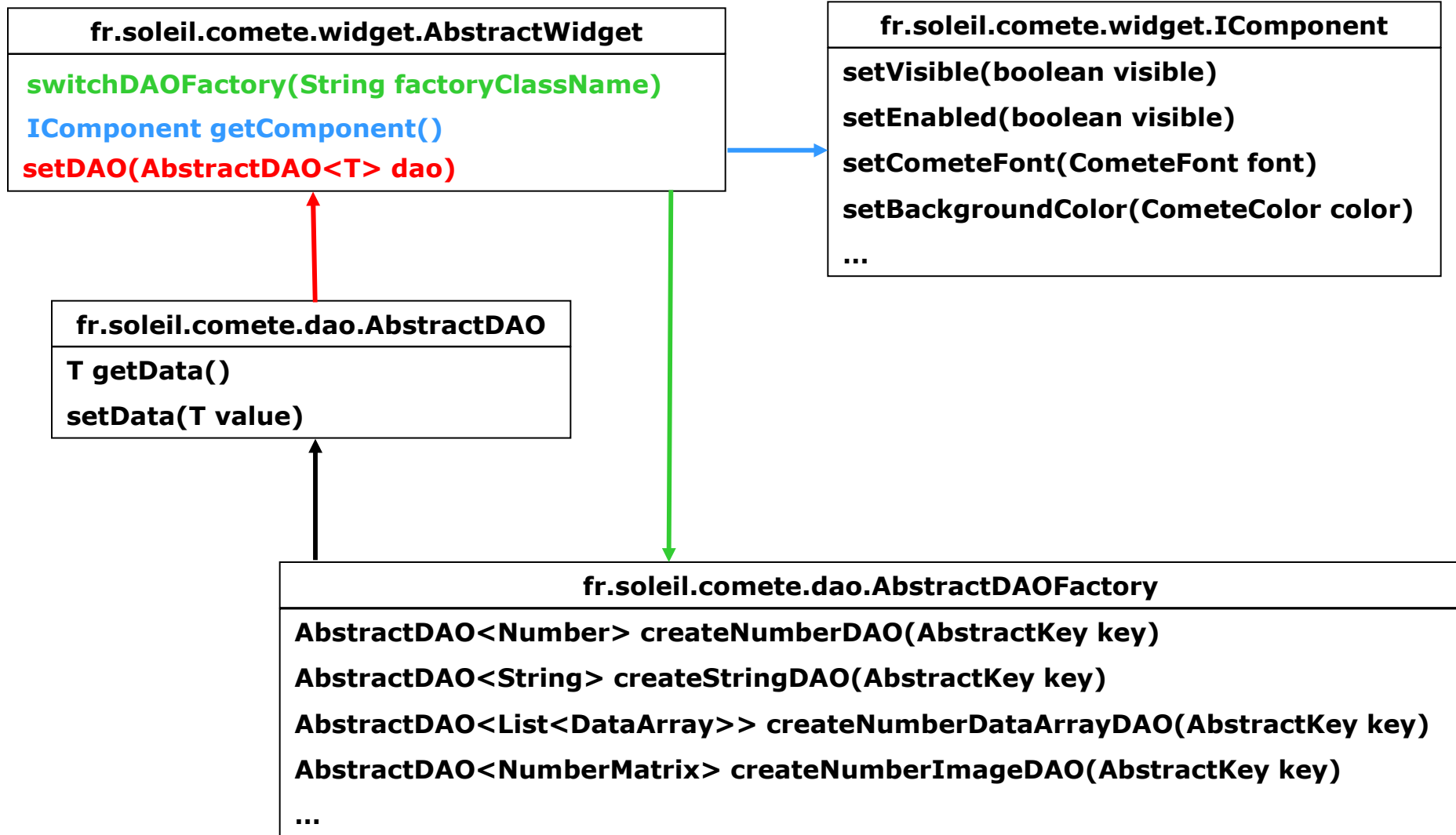
- ✓ The 2 mains goals :
 - ❑ One customizable widget
 - ❑ Several available data source

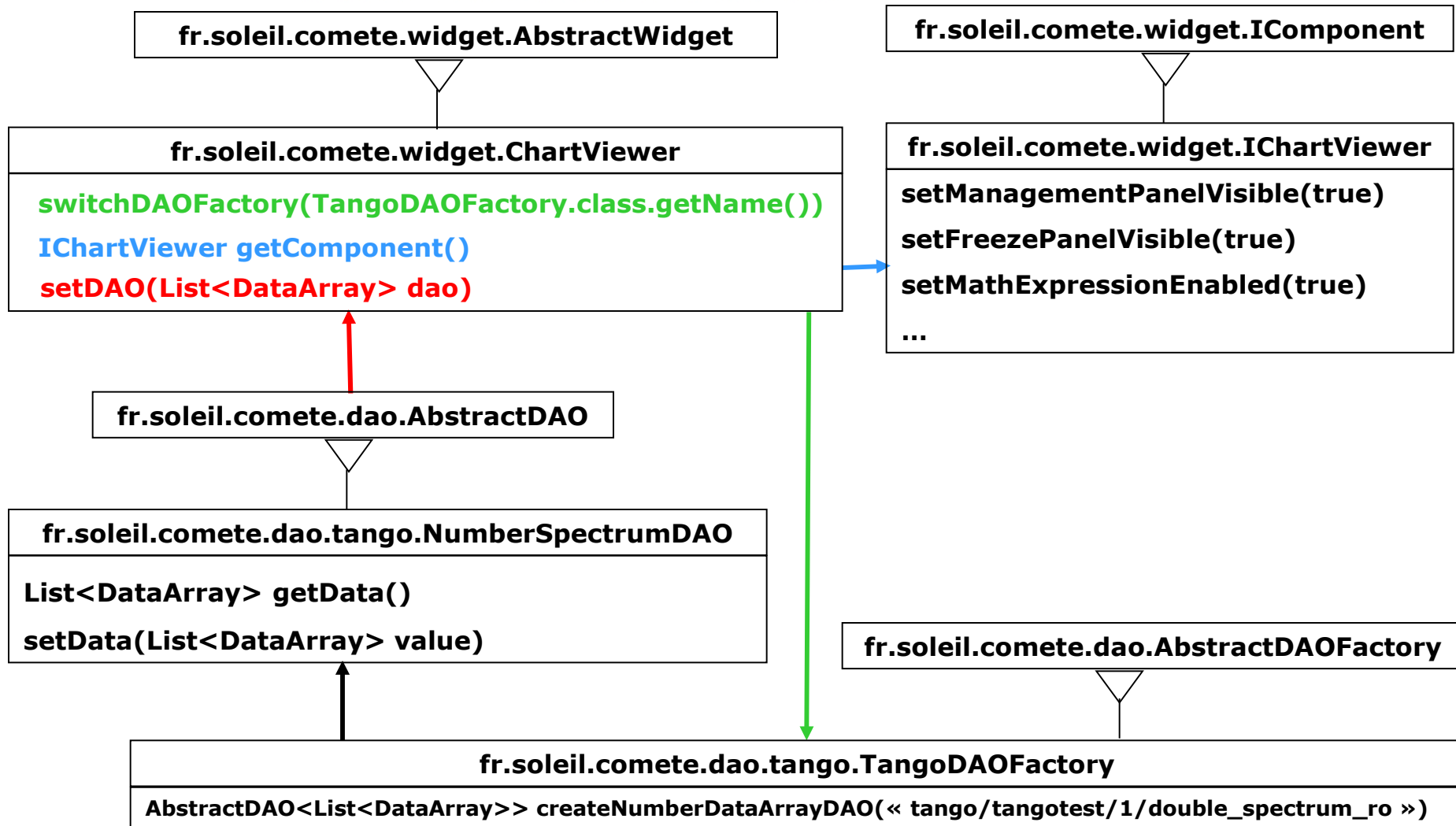
- ✓ **COM**munity of **E**xtendable **T**oolkit for **E**xperiment
- ✓ Open source project started on July 2009.
- ✓ Java framework that aims to make easier the development of scientific data visualization and data analysis applications. COMETE uses known design patterns.
 - DAO (Data Access Object)
 - Factory
 - MVC (Model View Controller)
- ✓ <http://comete.sourceforge.net/>

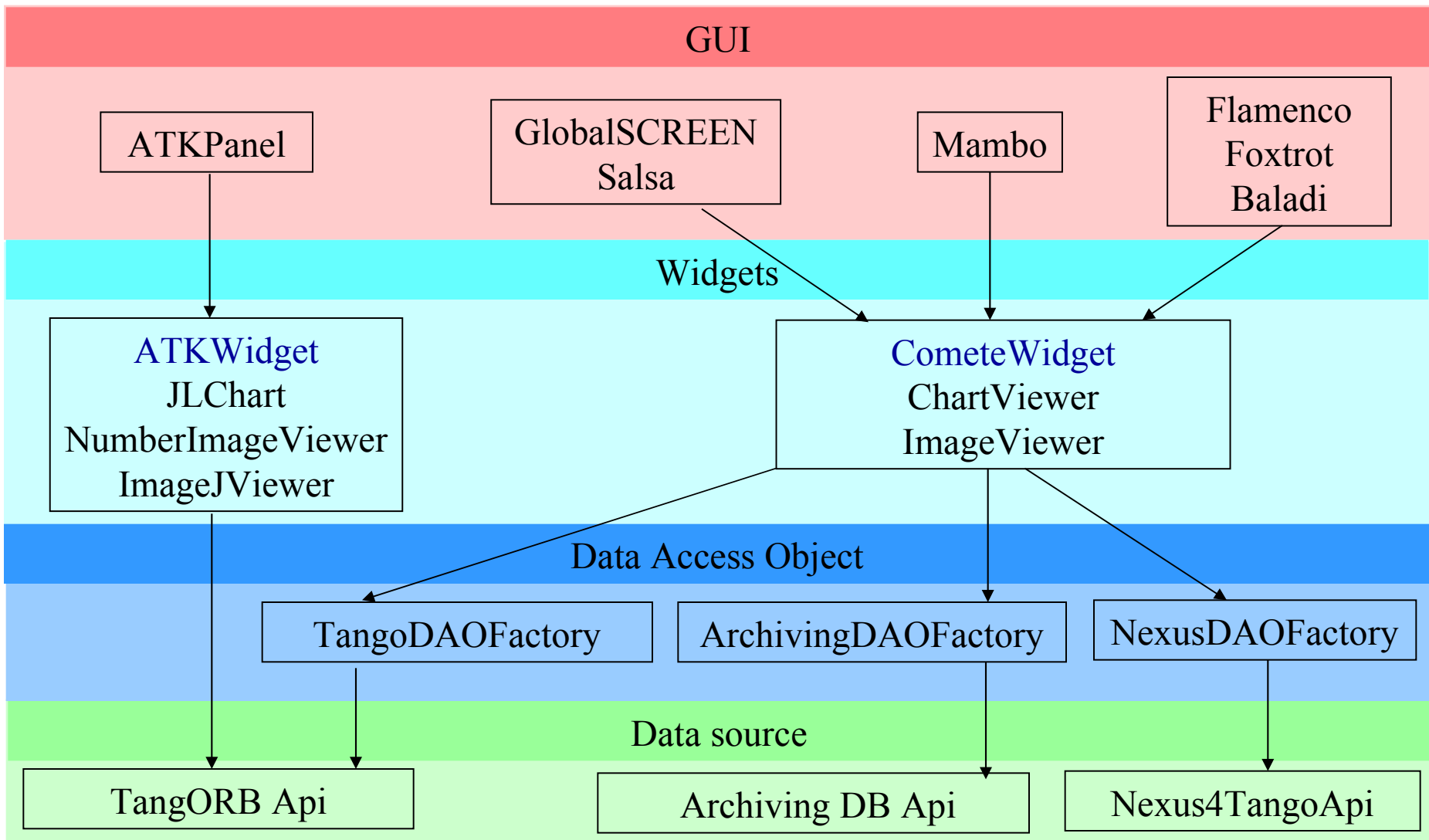
- Java graphical components library (bean).
 - ✓ CometeWidget
 - ✓ <http://comete.sourceforge.net/doc/WidgetsPresentation.html>

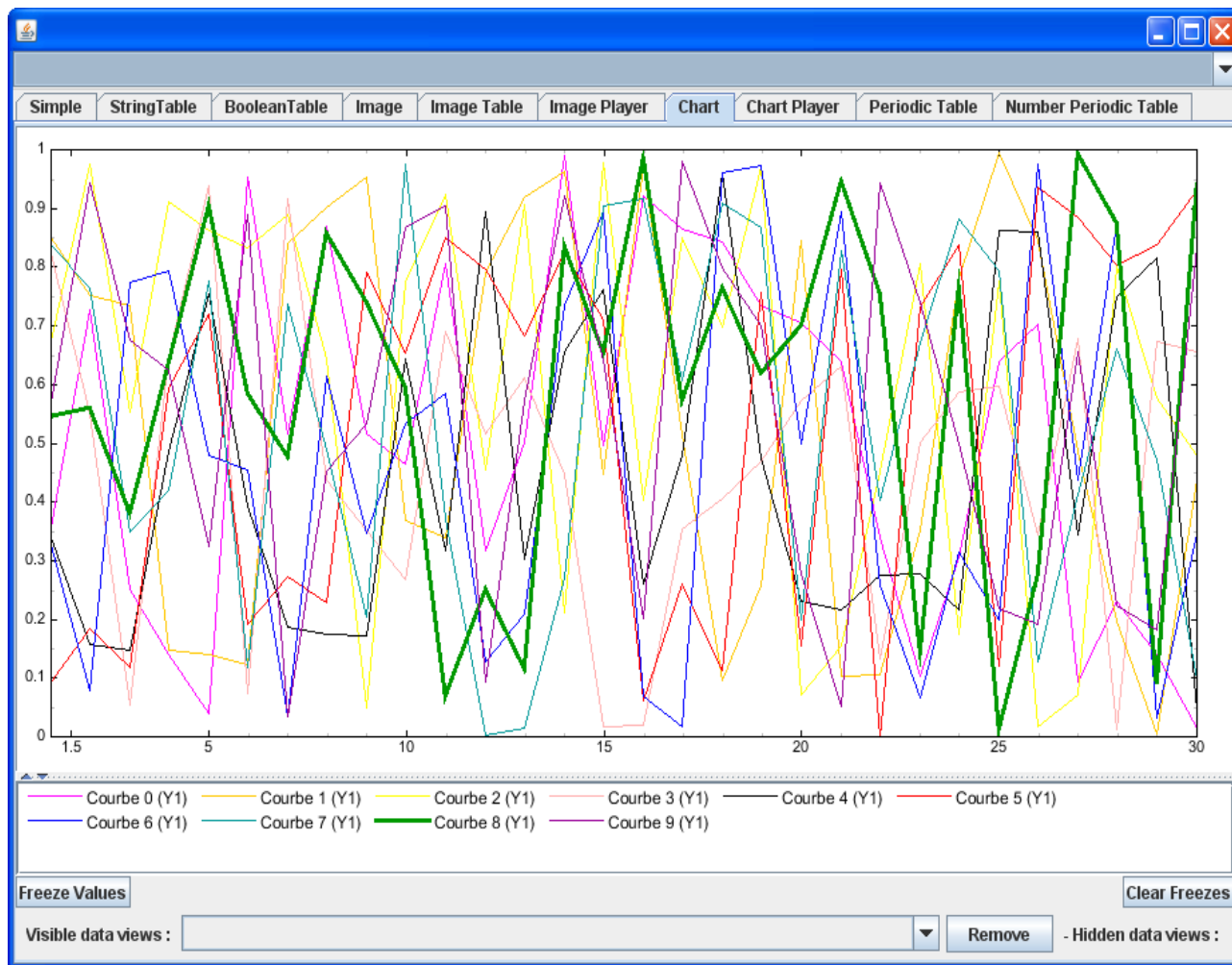
- Abstracted and separated data model.
 - ✓ AbstractDAO

- Default implementation
 - ✓ Simulated, Tango, Nexus, Salsa, Passerelle









Switch DAO

ChartViewer:

Freeze

Highlight

Expression evaluation

ImageViewer:

ROI definition

ROI table

Mask definition

StackViewer:

- Existing DAO
 - ✓ Tango DAO - TangORB API – ESRF
 - ✓ Nexus DAO - GumTree Data Model – ANSTO.
 - ✓ Passerelle DAO - Passerelle API – ISENSIA
 - ✓ Archiving DAO - Archiving API – SOLEIL
 - ✓ Salsa DAO – Salsa API (V3) – SOLEIL

- COMETE migration
 - ✓ Mambo (finished)
 - ✓ Foxtrot (in progress)
 - ✓ Baladi => NexusExplorer (in progress)
 - ✓ Salsa V3 (in progress)
 - ✓ GlobalSCREEN (in progress)

- DAO development
 - ✓ Common data model based on GumTree (S.Poirier)
 - ✓ Switch TangoDAO/ArchivingDAO for machine.
 - ✓ Switch TangoDAO/ NexusDAO for beam line.
 - ✓ Mixed TangoDAO/NexusDAO for beam line.

- Widgets development
 - ✓ SWT Viewer
 - ✓ Chart3DViewer
 - ✓ Image3DViewer
 - ✓ Save a movie from a StackViewer

- Find other collaboration in 2 ways :
 - ✓ New DAO.
 - ✓ New widget.

