

IKON13 Feedback

- NICOS interface made poor impression
 - Main window rather barren
 - Big empty area, some green icons on the side
 - We don't make full use of GUI capabilities
 - Panels
 - Monitors
 - Synoptic View (Interactive? CSS?)

IKON13 Feedback

- Some users very hesitant about scripting
 - Don't want to learn Python
 - Except mouse-driven GUI to configure experiment script
 - Some of this already available

Main Window

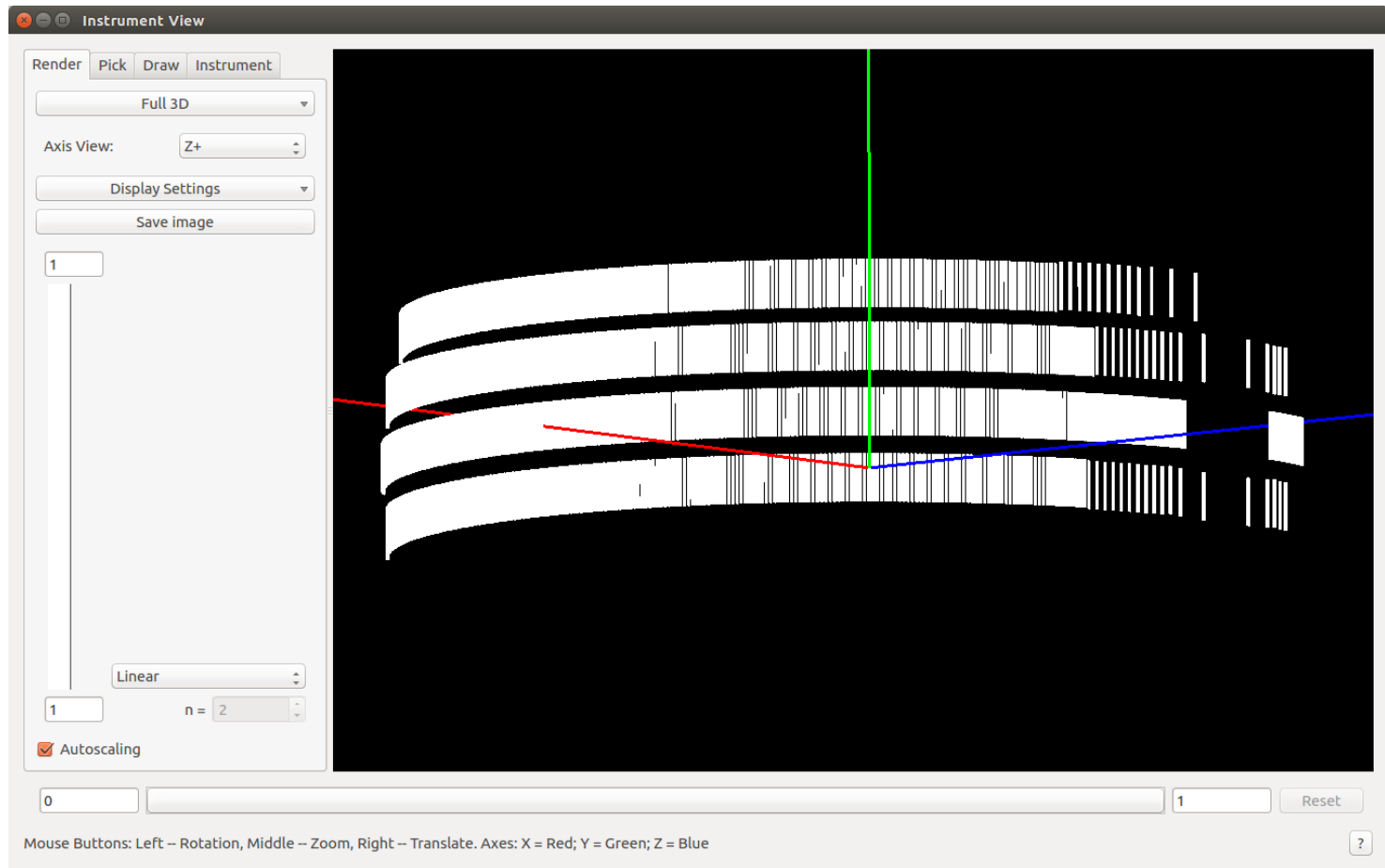
The screenshot shows the NICOS main window interface. The title bar reads "NICOS - guest at localhost:1301". The menu bar includes: Connect, Exit, View, Editor, Scans, History, Logbook, Log files, Errors, and Instrument View. The main area is divided into two sections. The top section, titled "NicosSetup()", contains a "Proposal" button and a list of fields: Title, Users, Local Contact, Setups, Samples, and Environments. The bottom section is a terminal window displaying the following log messages:

```
[15:07:26] Exp : New experiment p0 started  
[15:07:26] Exp : User "H. Maier-Leibnitz <heinz.maier-leibnitz@frm2.tum.de" added  
[15:07:26] setups loaded: startup
```

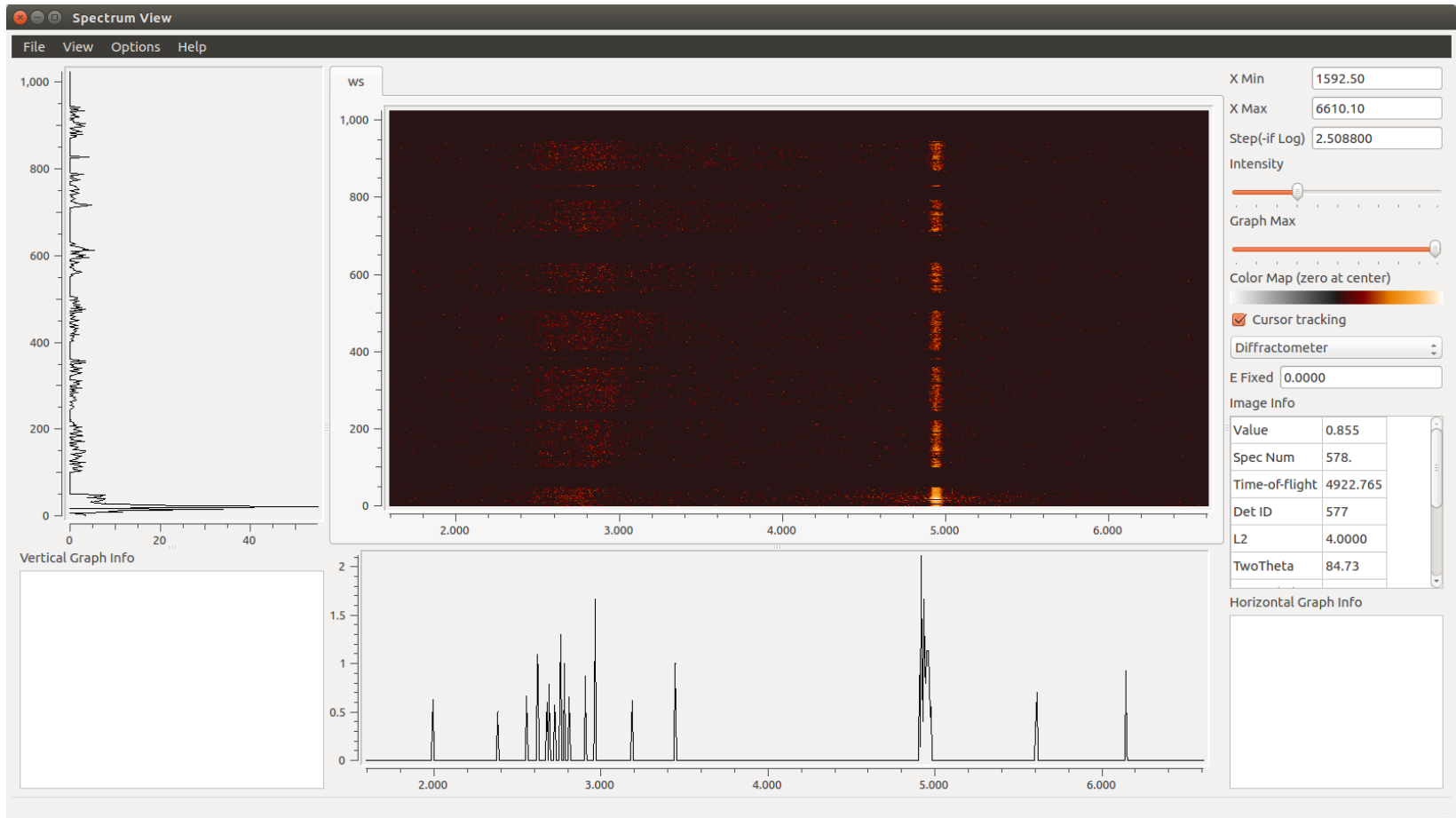
At the bottom left of the terminal area is a prompt ">> |". On the right side of the window is a sidebar titled "NICOS devices" with a "Filter:" input field. Below it is a table with columns "Name", "Value", and "Status".

Name	Value	Status
system		
Exp		
Sample	Gd3CdB7	
Space	458.882 GiB	458.88

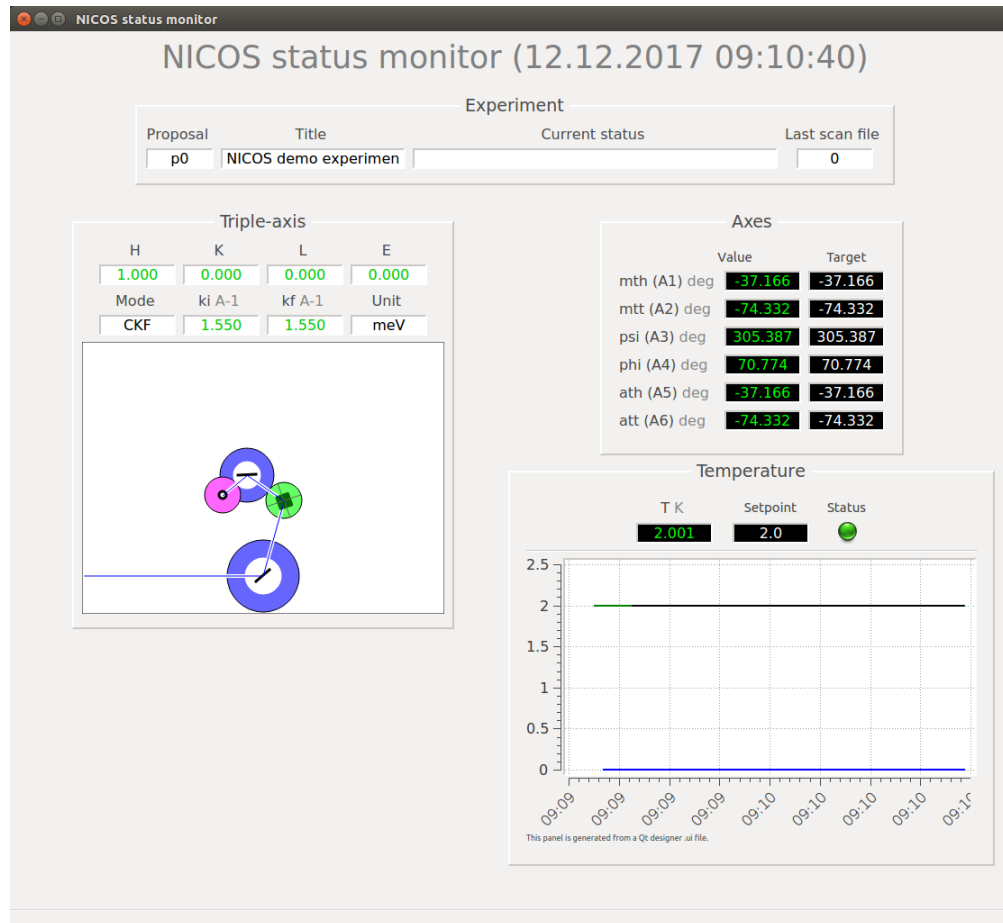
Instrument View



Spectrum View



Monitors



Guiconfig

The screenshot displays the Guiconfig software interface for the PGAA Sample Positioning System. The main window is titled "NICOS - guest at localhost:1301" and features a menu bar with options like Connect, Exit, View, Setup, Editor, Scans, History, Logbook, Log files, Errors, Live data, Instrument View, and Spectrum View. The interface is divided into several panels:

- Experiment...:** Contains buttons for Proposal, Title, Users, Local Contact, Setups, Samples, Environments, Detectors, Scans, and Remark.
- Command line:** Shows the current setup name "PGAA Sample Positioning System" and a list of positions (0 to 5) with their respective sample counts. Position 4 (284) is selected. A "Manual" position is also available with a value of 0.0. Buttons for "Add Position to Queue" and "GoTo Pos." are present.
- StatusMonitor:** Displays the status of various components: Status Motor Ready (No Status), Status DSpec Ready (No Status), and RefSearch Done (Not yet!). Buttons for "Manual Detector On", "Manual Detector Off", "Start Batch", "Clear", and "DoRef Search" are available.
- Log:** A scrollable log window showing the system's startup sequence, including device creation (e.g., LV power supply, mantidsink, ngc, ngc_motor, serialsink, slit, tofsink, toftof, vacuum sensors) and the loading of the "pgaa" and "cryo" setups. A warning message is visible: "WARNING: Exp : removing device u'adet' from detector list, it does not exist in any loaded setup".
- NICOS devices:** A table listing the status of various devices. The table has columns for Name, Value, and Status.

Name	Value	Status
cryo		
T	2.001 K	
Ts	2.001 K	
pgaa		
att1	in	
att2	in	
att3	in	
attenuator	99.219 %	
chamber_p...	-0.032 mbar	idle, below user limit (0
livetim	0.00 s	idle
push	up	
Sample	Gd3CdB7	
samplmotor	1	idle
shutter	open	
truetim	0.00 s	idle
system		
demo		
Exp		
lastpoint	22	
lastscan	0	
Space	458.788 GiB	
UBahn	0, 10, 20, 3...	

Setup file

```
}_tasblock = Block('Triple-axis', [  
    BlockRow(Field(dev='tas[0]', name='H', format='%.3f', unit=' '),  
             Field(dev='tas[1]', name='K', format='%.3f', unit=' '),  
             Field(dev='tas[2]', name='L', format='%.3f', unit=' '),  
             Field(dev='tas[3]', name='E', format='%.3f', unit=' ')),  
    BlockRow(Field(key='tas/scanmode', name='Mode'),  
             Field(dev='mono', name='ki', min=1.55, max=1.6),  
             Field(dev='ana', name='kf'),  
             Field(key='tas/energytransferunit', name='Unit')),  
    BlockRow(Field(widget='nicos.guisupport.tas.TasWidget',  
                  width=40, height=30,  
                  mthdev='mth',  
                  mttdev='mtt',  
                  sthdev='psi',  
                  sttdev='phi',  
                  athdev='ath',  
                  attdev='att')),  
    ],  
    setups='tas',  
)  
  
}_axisblock = Block('Axes', [  
    BlockRow(Field(gui='nicos/clients/gui/panels/tasaxes.ui')),  
    # BlockRow('mth', 'mtt'),  
    # BlockRow('psi', 'phi'),  
    # BlockRow('ath', 'att'),  
    ],  
    setups='tas', # this is the name of a setup that must be loaded in the  
                 # NICOS master instance for this block to be displayed  
)
```