Tango status at Elettra

summary

Booster

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Storage Ring

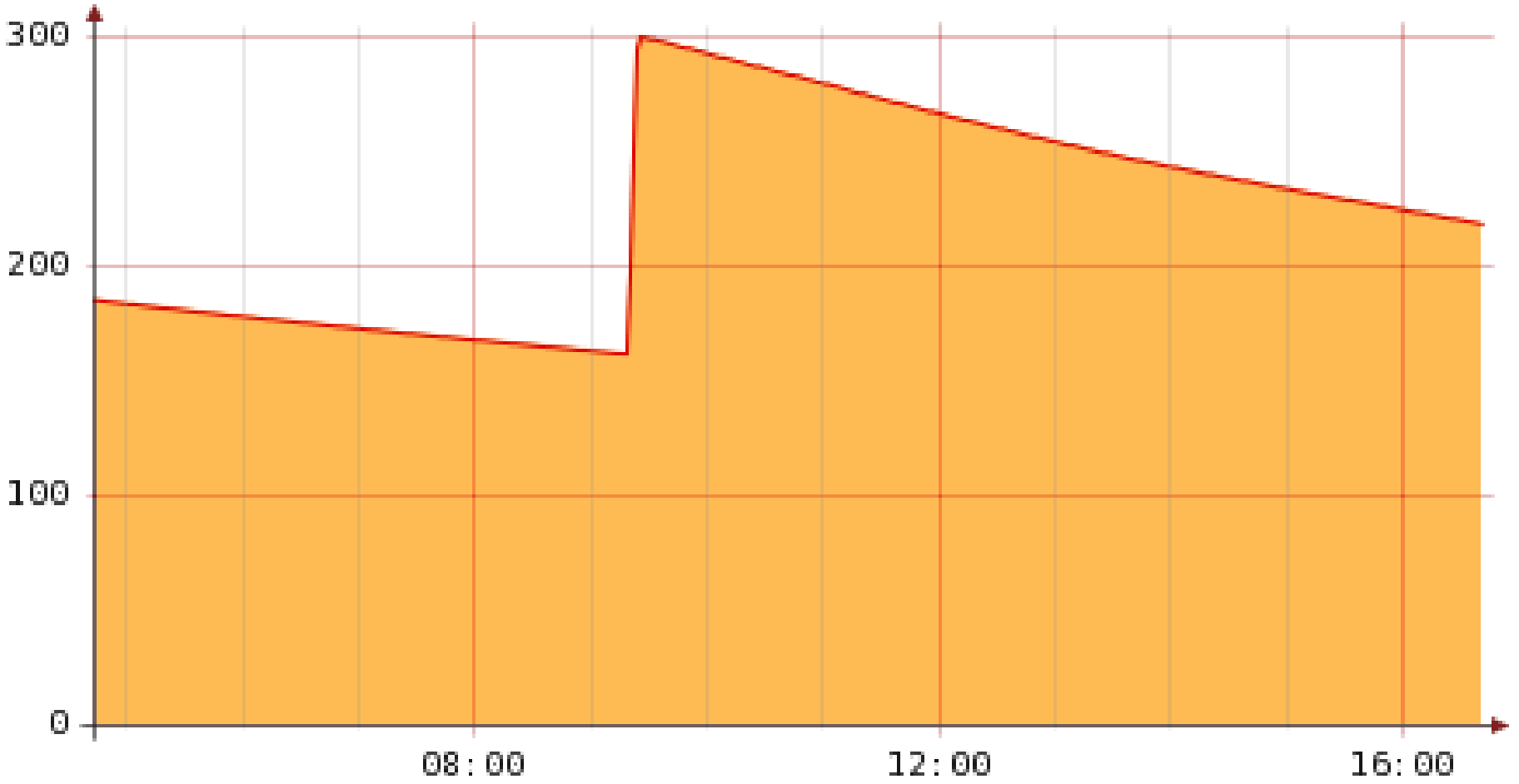
Status of Tango

Booster

- Reliable injection at 2 GeV, 3 Hz repetition rate

- Contractor is bringing power supplies to specs:
  - reliable 2.5 GeV operations
  - stability and repeatibility for top-up operations

Booster



Booster

Status of controls:

- *Phase 1: device oriented*
- *Phase 2: machine oriented*
- *Phase 3: operation oriented*

We are moving from *Phase 1* to *Phase 2*

- requirements and feedback from operators
- designing new panels and new Tango devices

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- ramping up of control system development effort

- testing of first section of Linac scheduled for next summer

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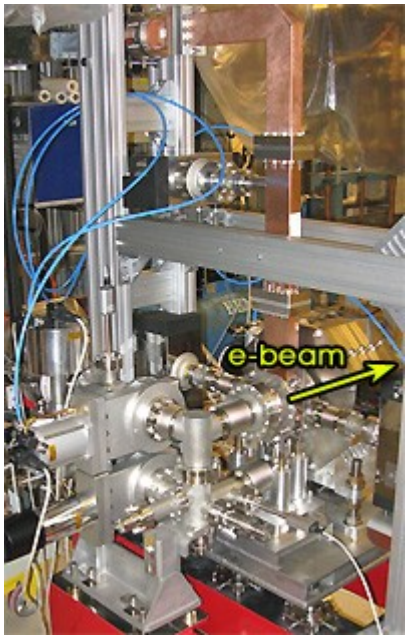
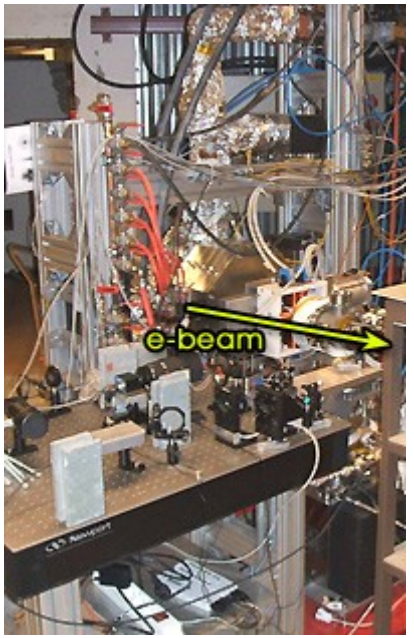
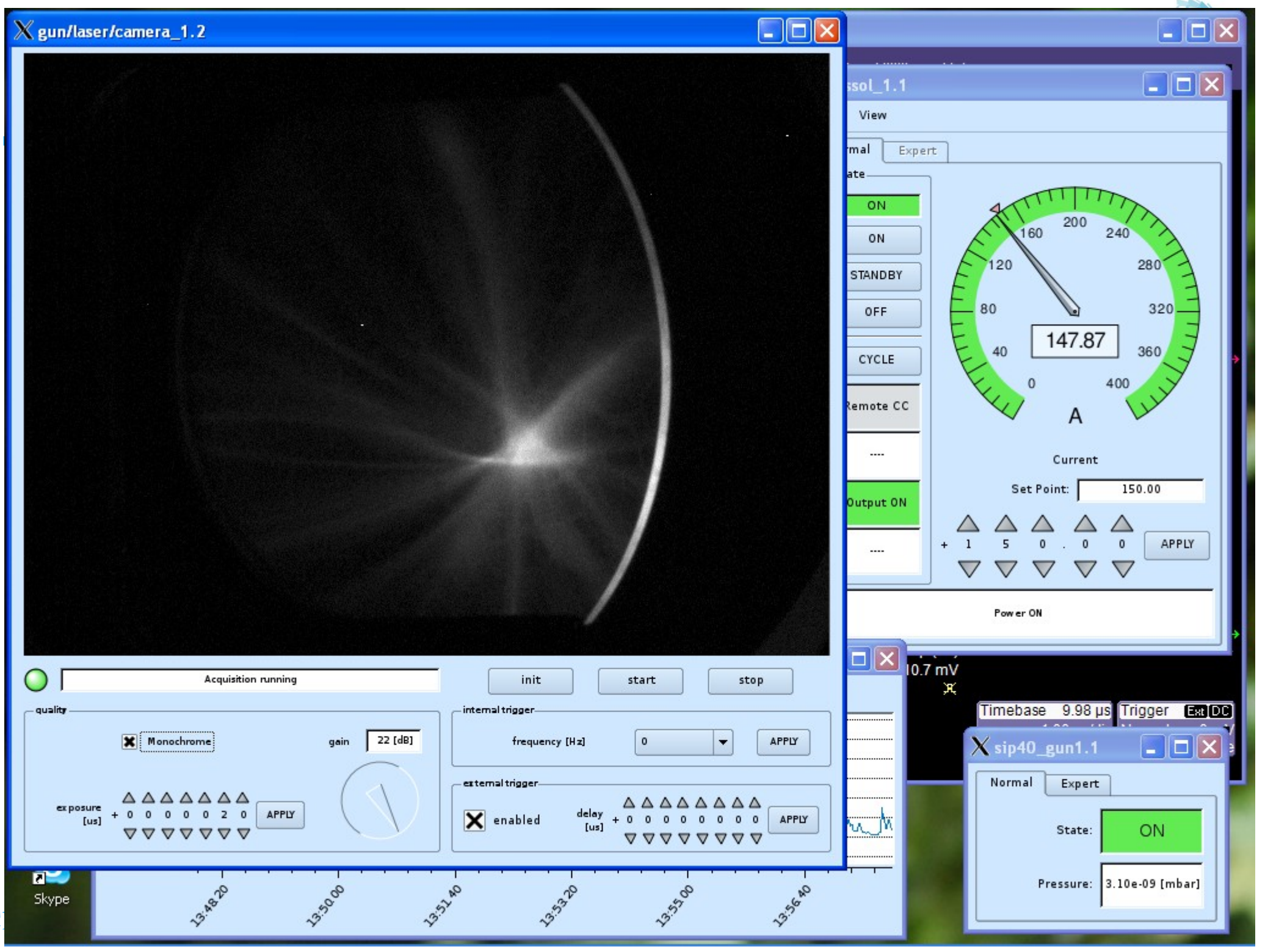
Photo injector (RF cavity, magnets, laser beam diagnostics and transport and electron beam diagnostics) tested at MAX-lab






gun/laser/camera_1.2
Acquisition running
init
start
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quality
Monochrome
gain
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exposure [us]
+ 0 0 0 0 0 2 0
APPLY
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APPLY
Power ON
10.7 mV
Timebase 9.98 µs
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sip40_gun1.1
Normal
Expert
State:
ON
Pressure:
3.10e-09 [mbar]
Skype
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13:50:00
13:51:40
13:53:20
13:55:00
13:56:40

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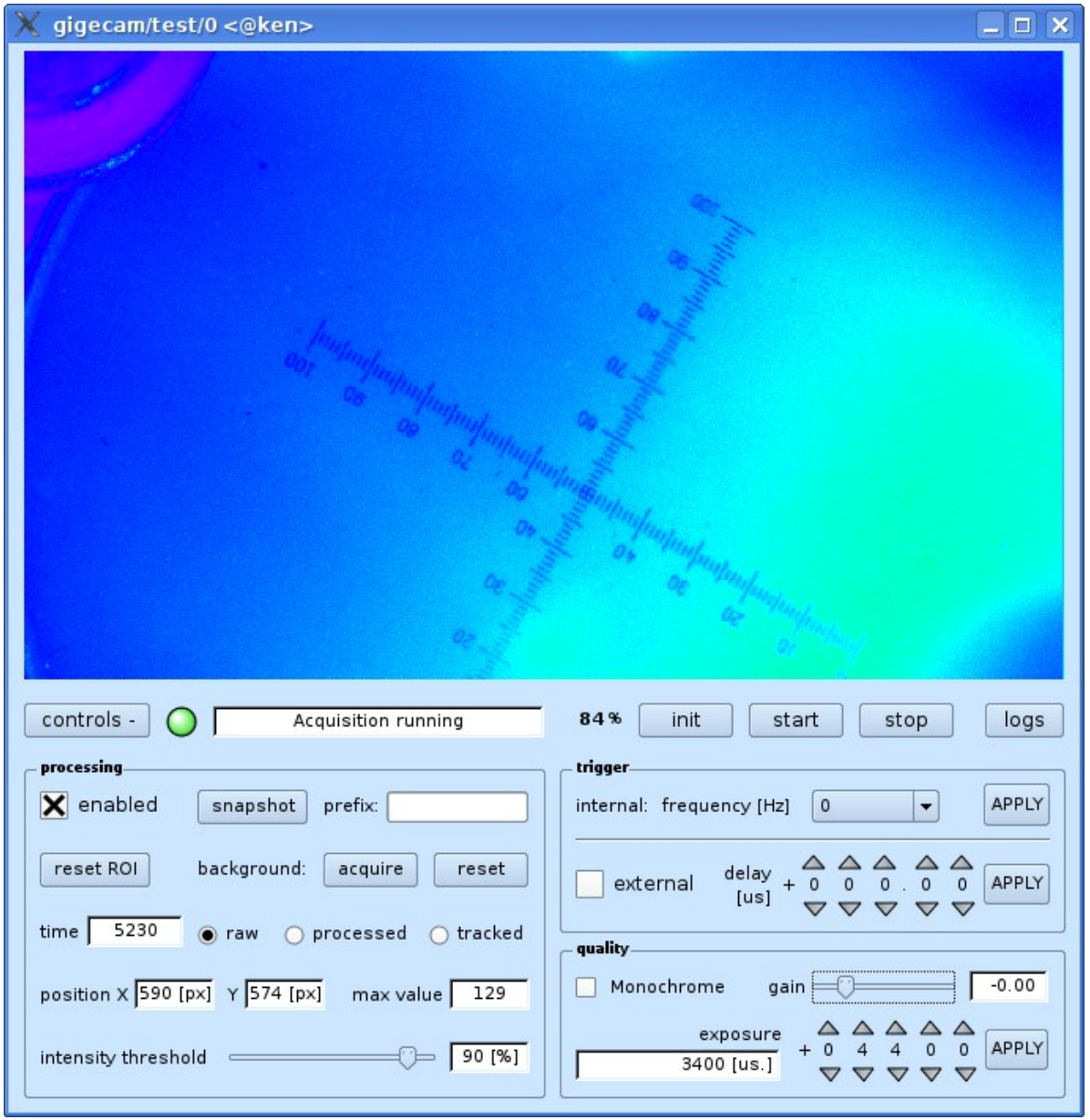

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Tango Devices for CCD cameras:

- Prosilica
- Basler

Gigabit Ethernet interface

Goal: 50 Hz image processing on Linux based server:

- PPC based VME board
- Intel server class machine

Availability of vendor support for drivers/libraries

My guess: Basler on Intel

Tango

Some glitches related to events/notifd

- suggestions and help form the community helped us to limit the problems
  - Thanks Manu, Jens, Tiago, Sergi,...
- but there is still ~~some~~ lots of work to be done

QTango library has been revised and re-factored

  - see G. Strangolino presentation

Pink Site


Tango Device Servers developed at Elettra — the TANGO website - Mozilla Firefox 3 Beta 4
File Edit View History Bookmarks Tools Help
http://www.tango-controls.org/device-servers/elettra
Home Smart Bookmar... Rai.it - Televideo BBC NEWS | News ... Latest BBC Hea... ELETTRA - Machin... ELETTRA's PhoneB...
Tango Device Servers dev...
Machine Status
Current 205.98 mA
Lifetime 25.3 h
Energy 2.000 GeV
Mode Multi bunch
Status Users dedicated
^ Fri 10 Oct 2008
06:09:47 PM CEST
300
200
100
0
08:00
12:00
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log in
you are here: home → device classes → device servers developed at elettra
navigation
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Documents
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Download
HowTos
Bindings
Bug
Device classes
Abstract classes
Tango Device Servers developed at Elettra
by Roberto Passuello — last modified 2008-09-23 13:56
AD16 by Giulio Gaio: [added March 25th, 2008] AD16 DeviceServer exports all features of the VME AD16 INCAA board.
AD16 is a 12 ADC channel (used for old termocouple interface) and 8 TTL output channels. For further information about the Linux driver, please contact Giulio Gaio
Adios by Giulio Gaio: [added May 19th, 2005] Adios DeviceServer exports all features of the INCAA ADIOS 5750 VME board. ADIOS provides 12 digital I/O, one ADC, one DAC.
Alarm by Lorenzo Pivetta and Graziano Scalamera: [added July 13th, 2005 - last update on May 13th, 2008] Tango Alarm Device Server.
Booster cavity by Giulio Gaio: [added March 25th, 2008] It controls some parameters (temperatures and direct/reflected power) of the Booster cavity
news
New ATK release 2008-08-06
New ATKPanel release (3.6) 2008-08-06
Archiving System 2008-08-06
PyTango 3.0.4 for windows 2008-07-11
Tango 6.1.1.b 2008-05-28
Done
FoxyProxy: Disabled