

MST

List - 5 Jun 2009

Equipment installed on MST

- 4 SXR removable probes:
 - IRD AXUV20ELM-G + IRD socket, cables, feedthroughs (all Lemo);
 - pinhole foils and Beryllium foils;
 - all detectors have a 5 mm ring installed in the probe tip
- 4 box containing: TLAs, ISO-AMPs and encoders (80 channels); cables Lemo - BNC and BNC-BNC; patch cables
- 5 digitizers TR1612

RFX cabinet (2B, 2nd floor):

1ST SHELF

- 1 box with Beryllium filters, see the **be_foils.doc** document
- 1 box containing electronics for bench testing:
 - 4 BNC-LEMO (bipolar) and 2 short BNC-LEMO cables
 - 1 LED with BNC on one end of the cable
 - a box with an IRD and LED inside for tests
 - 2 shorted LEMO
 - 2 spare TLAs (gain=1e5,6,7) and power supply
 - dividers (1e6 and 1e7)
 - BNC-BNC cables (various length)
 - 1 power cord
 - 1 box for powering the internal LED of the four probes
- 1 box containing:
 - O-rings, clamps, vacuum spare parts, gaskets, blanks, Teflon tape
 - rough pumping system for SXR1,3,4 VAT valves
- 1 red toolbox (with metric tools and not metric ones)
- 1 box containing:
 - 2 “orange” speed handles for the insertion/extraction of SXR3,4 (17 mm socket); 1 speed handle for the insertion/extraction of SXR1 (flexible 3/4” socket)
 - 1 adaptor for drill, another 17 mm socket
 - 2 big wrenches for opening/closing the ring nut on SXR1,3,4
- 1 box with step-up transformers (110 → 220V) and various electric parts and Ethernet cables (“Bonomo’s Stuff”)

2ND SHELF

- 1 box containing IRD detectors / 1:
 - 1 IRD AXUV-20ELM damaged
 - 1 IRD AXUV-20ELM used on SXR2 (May 2002 – November 2007); diodes 1,3,5 damaged
 - 1 IRD AXUV-20ELM used on SXR3 (April 2004 - October 2006); D9 and a few other diodes damaged. The end diodes of this array have been grounded to anode
 - 1 IRD AXUV-20ELM used on SXR4 (April 2004 - September 2005); D2 damaged
 - 1 sockets for AXUV-20ELM with LEMO 00 cables
 - empty boxes for diode arrays
- 1 box containing IRD detectors / 2:
 - 4 IRD AXUV-20ELM (used for SXR1-4 until 20 May 2008), one is damaged
 - 1 IRD AXUV-20ELM-G (new)
- 1 box containing BNC-BNC (various lengths)
- 1 box with parts of BNC cables and parts of Teflon coaxial cables. There is additional Teflon cables in the cabinet (almost 80 m)
- 1 box containing Amphenol BNC for RG174
- 1 box containing DC calibrator for SXR TOMO (divider is 5e6) and BNC-BNC cables
- 1 box containing LEMO00 - BNC cables, LEMO00-LEMO00 cables, patch cables for the CAMAC rack
- 1 box containing:
 - FISHER (00) connectors
 - 1 (green) box containing Fischer (00) feedthroughs (not usable, leaking)
 - 1 LEMO bipolar connector (with cable attached)
 - 12 LEMO bipolar connectors
- 1 box containing electronic parts:
 - 50 kHz filters
 - 50 Ω driver
- 1 box containing power chords and cheaters
- 1 box containing BNC, Tees, BNC-LEMO adapters, etc
- 1 box containing alligators and banana cables

3RD SHELF

- 1 box containing spare parts for SXR1,2,3,4:
 - 2 rings (10mm in height) and aluminum tools to machine the rings
 - 1 probe tip flange without Beryllium and pinhole
 - 1 front flange for the probe with an out-of-centre pinhole (but light passes through it)
 - 2 curved frames for Be installation in the probe tip
 - plastic clamp for SXR1
 - inserting rod bushings for probes SXR1,3,4
 - 1 spare threaded insertion rod
 - pinholes:
 - 1 round pinhole with a round hole (1mm)
 - 2 pinholes with offset (3 mm and 7 mm)
 - 3 pinholes at 90 degrees
 - 4 blind pinholes
 - 6 usual pinholes

NB: one 10mm ring, one pinhole and one complete probe tip have been given to the mechanical shop for building new filter holders
- 1 box with spare screws for the probes
- 1 box with extra parts (CF-KF adapter, Teflon centering rings etc.) for SXR2 detector
- 1 box containing the old (fixed version) parts of the SXR2 diagnostic
- 1 box containing:
 - 2 Hamamatsu arrays S411-16N
 - photodiode socket + cables (LEMO 00)
- 1 box containing:
 - 3 UDT (without quartz crystal window)
 - diode cables (LEMO 00) + cables for power supply
 - 1 spare UDT (with quartz crystal window)
- 1 box with the SXR1 prototype (November 2001 – July 2002)
- old parts and cables on the shelf:
 - 1 roll of green cables and old SXR2 amp to Camac cables
 - 1 panel with 20 BNCs and one with 10 isolated BNCs
 - 1 lid for SXR1
 - black lid for SXR2 + cables and 25 pins connector → BNC
- 1 box containing old LEMO00 - BNC cables for SXR1 and the plastic flange with 21 Fischer feedthroughs, used from November 2001 through October 2006
- 1 bag with copper shielding
- 1 box containing a CF tube, 40 mm in diameter and a blank flange 40 mm in diameter
- 1 box with a CF40 Leybold valve
- SXR tomography checklists

4TH SHELF

- 1 box containing “bubble” sheets
- 1 box containing:
 - notebooks with drawings of the probes SXR1,2,3,4
 - 1 black folder with documentation
 - slides for presentations
- 1 box with pens, pencils etc.
- 1 box “Franz’s Stuff”
- 1 box with a TLA power supply

5TH SHELF

- 2 empty boxes for “new” VAT valves
- 2 boxes containing various parts (MISC and MISC II)