

20091102

Beamlines:

<http://www.cells.es/Beamlines>

\* Core Level Absorption & Emission Spectroscopies (CLÆSS)

- Infrastructure (electrical & fluids) have been installed
- Personal Safety System (PSS) has been installed
- End station: Monochromatic slits (ADC), fast shutter (XIA), and attenuators (XIA) have been procured
- End station: crystals for the x-ray emission spectrometer (Crystal Scientific have been procured)

\* Materials Science and Powder Diffraction (MSPD)

- High resolution 3-circle diffractometer for Powder Diffraction has been awarded to the company HUBER
- Erection of the Experiments and Optics lead hutch
- Installation of the infrastructures (electrical & fluids) still being installed
- Call for Tender launched for Area detector at the High pressure End station
- Completion of the design for beam conditioning and KB-table at the High Pressure station

\* Macromolecular Crystallography (XALOC)

- Backbone of the optics have been installed
- Factory acceptance tests of the diffractometer have been carried out successfully at MAATEL
- Liquid nitrogen supply to the hutches has been installed

\* Non-Crystalline Diffraction (NCD)

- The acoustic delay line (in-house developed) for mirror protection has been successfully tested (80msec response time)

\* Photoemission Spectroscopy and Microscopy (CIRCE)

- Monochromator, mirror chambers, beam diagnostics, and vacuum pipes have been installed

\* Resonant Absorption and Scattering (BOREAS)

- Infrastructure of the safety hutches complete (electrical & fluids)
- Factory acceptance test of the optics carried out at TOYAMA
- XMCD end station by SCIENTIFIC MAGNETICS: finishing preliminary design review

\* X-Ray Microscopy (MISTRAL)

- The monochromator has been installed
- The infrastructure has been installed (electrical & fluids)

IDs:

[http://www.cells.es/Divisions/Accelerators/Insertion\\_Devices/lds/](http://www.cells.es/Divisions/Accelerators/Insertion_Devices/lds/)

\* UE62

- Presently at ALBA
- The site acceptance tests show that it complies with all the specifications

\* UE71

- Presently at ALBA
- The factory acceptance tests show that it complies with all the specifications

\* MPW80

- Presently at ALBA
- The factory acceptance tests show that it complies with all the specifications
- The minimum gap had to be lowered from 12.5 mm to 12.3 mm, which does not cause any issues (to be confirmed by cells measurements).

\* IVU21

- Still being finished at BRUKER (FORMERLY ACCEL) (1+ year delay)
- Mechanical and vacuum systems have been finished
- Control system is working

\* SC-W31

- Mechanical problems with the vacuum chamber of the cryostat have been solved
- Currently at Budker Institute in Novossibirsk.

Accelerators:

<http://www.cells.es/Divisions/Accelerators>

\* Since October 2009 the Linac is again in full operation after the conventional facilities (water and electrical power) have been available.

\* The installation of the Booster is completed and at the moment the power supplies are under test with the real load. The BO RF transmitter is being commissioned with the goal to start RF cavity conditioning on week 47. The final goal is to start the commissioning of the Booster in week 50.