

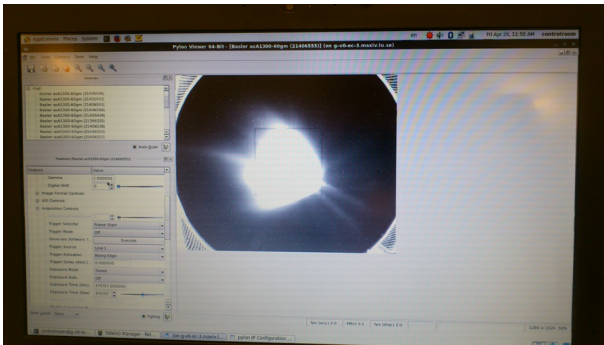
MAX IV Laboratory Update 06|2014



First electrons delivered

The linear accelerator group turned up the temperature of the thermionic electron gun last week of April. Everything worked perfect, and out came ten electron pulses per second.

"It was great to see everything working as it should, and it was of course a big step to produce the MAX IV facility's very first electron pulses", says a very happy and satisfied Sara Thorin, project manager for the linear accelerator.



Accelerator unit 01 is conditioned and running on full capacity and the RF team have now set up the Main Drive Line (MDL) and are conditioning all the accelerator units together. This work will continue through summer as will the installation of the photo cathode gun. If everything works fine the full commissioning of the linac will be up and running in August.

The work at the storage rings continues as well and series production of components proceeds at full speed: to this date 38 per cent of the magnet blocks and 26 per cent of the vacuum chambers for the 3 GeV ring have been delivered. Three of the six 100 MHz RF cavities have been successfully conditioned at high power and all power supplies for the 3 GeV ring magnets have been delivered. A full scale assembly test of a complete 3 GeV ring achromat is ongoing and should be completed by July.

Prize winner and ahead of schedule

In March the MAX IV building won the Best future project category at the 2014 MIPIM Awards in Cannes, France. The conventional facilities will be finished ahead of time and delivered to Lund University already 1 June 2015.

Work inside the facility is also well on schedule, and delivery of many of the main components is taking place at full speed now. The large storage ring is expected to be installed in July 2015 and the small storage ring in January 2016. Commissioning of the entire facility is scheduled to commence in the second half of 2015.

Inauguration will take place 21 June 2016, the brightest day of the year, for the brightest light source in the world.

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