

Accelerator complex status

End week 9 (Sunday 6th March 2016)

TI (Jesper Nielsen)

<https://wikis.cern.ch/display/TIOP/2016/03/07/TI+summary+week+9%2C+2016>

Linac2 (Rolf Wegner)

Linac2 is up, running and delivering protons to the PSB.

Last week we spent until Thursday morning to setup Linac2. Among many other activities, we checked the alignment of the LEBT between the source and the RFQ with beam. A slight intensity increase of 3 mA over 150 mA (2%) could be reached by moving the LEBT 0.5 mm down and 1.0 mm to the right.

The operation has been handed over to the Booster operators on Thursday 11:40. The intensity at the end of the Linac (BCT20) is about 152 mA and into the PSB (BCT60) about 135 mA for still quite short pulses.

Booster (Bettina Mikulec)

- The PSB received first beam from Linac2 a bit more than 1 day late from Linac2 (last Thursday around lunch-time).
- The first beams requested from the PS and SPS are under preparation (low-intensity TOF version, low-intensity MTE beam and LHCINDIV) and are already in a very good shape.
- Some issues with various beam instrumentation systems have been or are being followed up; phase of beam commissioning...
- Jose-Luis has modified the clock for the PSB injection timings (from TPROT to 40 MHz clock), which increases the precision by a factor of 6.7 and should result in improved injection stability (also refer to S. Hancock's MDs last year).

To summarise: we are ready to deliver first beam to the PS.

Thanks to everybody (operators and equipment experts) for their great work!

PS will take beam in week 10.