

TE-ABT ELENA Commissioning meeting - Minutes

24/02/2017

Attendees: R.Ostojic, V. Namora J. Borburgh, N. Voumard, J. Mertens

Round table discussion about ABT equipment readiness

The **ion source** had another break down in one of the power supplies. Repairs are on-going and according to B. Lefort the source should be available soon (Info from today lunch time).

The **SEM** grid right downstream the source has been connected to OASIS and should be ready to be used (several wires interconnected because of limited amount of channels available.)

The **controls** system is up and running, cycles are implemented and now also with less dead time between to cycles, which should increase commissioning efficiency.

There have been no changes on the **quads and steerers**, so they should come up normally.

The **ion switch** was extensively tested by A. Prost and JM. De Paco Soto using the FUG as well as the modified ISEG power supplies. Electrodes still run in parallel as last year. Voltage level was stable, device is ready to go and can be controlled as usual from control room.

For the **injection kicker** some vacuum interlock levels were wrong and had to be reset. It is in remote state now, tested and can be used at any time.

According to M. Hourican the **septum** is fine and ready for operation.

Plans for the upcoming weeks

- Transport H- beam to BTV like last year (septum in DC for now)
- Find reasonable transfer line settings (quads, steerers, switch, septum)
- Kick H- beam into ring, minimizing injection losses at ring BPMs
- Check stability of all systems
- Check effect of cycling septum on beam
- Polarity checks of elements in the line

- Later: Check fast deflector effect on circulating beam
 - regular HV-MOSFET reset leads to measurable charging of electrodes. The amplitude is within the given tolerances, but should be measured nevertheless by comparing the orbit for completely shut down deflector system to orbit for deflectors in standby. There is a solution in the lab to decrease the level by a factor 3 if necessary.

Also, N. Voumard asked if some tests could be done on the deflectors next week, which should be fine. J. Mertens will communicate that with the AD control room.