



**ELENA:  
Commissioning meeting Minutes**

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**1 INTRODUCTION**

The approval of the minutes of the previous meeting has been postponed. They are available at <https://indico.cern.ch/event/632521/>

**2 UPDATE ON THE COMMISSIONING**

S. Pasinelli remarks that on Mondays it is still difficult to find the beam but after leaving the source ON over night it seems that the beam can be recovered almost straight forward.

M. Hori was supposed to tune the SEM grid yesterday night. There is no feedback on his intervention and there are no visible effects on the OASIS screen so far.

S. Hancock has seen the beam on the first turn but it disappears in the noise after that. J. Quesada just found and solved an HW issue on the pickup electronics. This has now to be tested. The Tomoscope timings are now correct.

Bunch to bucket synchronization is not yet operational, it is needed for the injection of pbars. Next Week, M.E. Angoletta will be out of her office and it seems that the synchronous bucket capture cannot be set-up before mid of June. Radial and beam phases loop should be correctly commissioned before that.

BTrain team is still calibrating the top markers. There are still some calibrations to do but they are not required for the moment.

Orbit system: the beam is seen on the pickups and some realistic orbits can be displayed on the “good” injections. There is still some work to do but it is difficult to tune the Orbit system with no stable injected beam.

Tommy suggests to use these orbits to do some first order corrections using YASP. S. Pasinelli will take care of having YASP ready as soon as possible.

Source is now working with a reduced size filament. There is no problem so far. Removing the SEM from the beam could determine if it creates or not the fluctuations that are observed. It would also be a good idea to check the design of the first quadrupoles to see if they could have elements exposed to the beam that could charging up.

E-cooler. All the e-cooler coils have been measured and compared to the model. Large discrepancies to theoretical values were found. A measurement campaign will be done at TESLA. The magnets will then arrive at the end of June. Installation should take place in August. On the vacuum side, the second toroid chamber is ready for the electrode installation. There is still a large amount of work on the vacuum side. M. Buzio reminds that he hasn’t received any magnetic field measurement request. G. Tranquille says that it is normal.

Depending on the integration (integration in situ or outside), the ELENA ring could be stopped and unavailable from 2 weeks to 1 month.



### 3 AOB

T. Eriksson reminds that we are at 2 weeks from having Pbars in the machine.

G. Tranquil says that there are 2 SEM grids ready for installation and 23 almost ready (some parts are still missing).

Myriam is the new Safety File responsible and all the contributions have to be send to her.