

PITZ Run Coordination

2022 (Weeks 36/37)

BC commissioning / THz lasing run

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Task list for the week 36

1. Cameras check and alignment (centering) – last days before run week (NA, RN)
2. Solenoid BBA check / finalization (MK 2 shifts)
3. BPMs (MK, GV):
 1. Old – check
 2. New - calibration
4. Trajectory tools:
 1. BPM GUI (GV)
 2. Matlab (MK)
 3. Trajectory tuning script (XKL)
5. Additional GUI for magnets only dedicated for transport / matching (BP?)
6. Optimize (speedup) degaussing (PB, GV?)
7. Automation of the transport / matching procedure? (XKL)
8. Install remote control for pyros amplifier (PB, Joerg + K.Lange) – if ready
9. SASE optimizer (XKL)
10. Measurement program for 2nC (bunch length and emittance for Ifocus and Ifocus+6A, booster phase versus BSA=2...4mm?)
11. Optimize SASE for 2 nC and various BSA
12. Recover save and restore tool (?), + including degaussing (?)
13. Establish a standard setup for 2nC beam transport / matching for THz and FLASH RT experiments (XKL, MK, +?)
14. The same as p.10-11, but 3 and 4nC?
15. Long pulse train studies for FLASH RT
16. BPF investigations
17. THz camera installation after repair

Run week 36-37 planning

Starting 05.09.2022

to do:	Run						
Week 36	Mon Sep-05	Tue Sep-06	Wed Sep-07	Thu Sep-08	Fri Sep-09	Sat Sep-10	Sun Sep-11
Morn. 7:00 to 15:30	Gross GUEST Startup	Booster BBA study	PulseTrain studies	Gross GUEST	THz GUI/tools debug	Solenoid BBA/new BPMs	THz
Late 15:00 to 23:30	Lueangaramw GUEST	Lueangaramw GUEST	Lueangaramw GUEST	BC commissioning (Chicane.Scr1)	Lueangaramw GUEST	Lueangaramw GUEST	Lueangaramw GUEST
Night 23:00 to 7:30	Automatic Conditioning	Automatic Conditioning	Automatic Conditioning	Automatic Conditioning	Automatic Conditioning	Automatic Conditioning	Automatic Conditioning

to do:	Run						
Week 37	Mon Sep-12	Tue Sep-13	Wed Sep-14	Thu Sep-15	Fri Sep-16	Sat Sep-17	Sun Sep-18
Morn. 7:00 to 15:30	Niemczyk Aboulbanine	Niemczyk Aboulbanine	Krasilnikov GUEST	Krasilnikov GUEST	Krasilnikov GUEST	Vashchenko GUEST	Vashchenko GUEST
Late 15:00 to 23:30	Boonpornpras Hoffmann	Li Hoffmann	Li GUEST	Li GUEST	Boonpornpras GUEST	Boonpornpras GUEST	Boonpornpras GUEST
Night 23:00 to 7:30	Automatic Conditioning	Automatic Conditioning	Automatic Conditioning	Automatic Conditioning	Automatic Conditioning	Automatic Conditioning	Automatic Conditioning

- Detailed VM scan and QE-map
- Dark current check (7.5 MW, 200 us, reflection ~5%)
- LPS tomography – next steps (Namra)