Run coordinator report for Week 28/2021 @ SEM

Christoph Kittel

19.07.2021

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Run coordinator report - Week 28

19.07.2021 1/9

1 Schedule Week 28

2 Lasing plots

3 Rundown of the week

4 Issues



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Summary of week 28 - Schedule

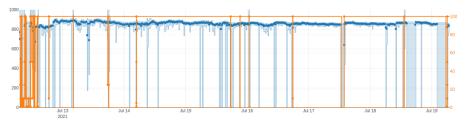
	MON	TUE	WED	THU	FRI	SAT	SUN
	12	13	14	15	16	17	18
	RC: Ch. Kittel, PC: Roman M.		Bernina 8 keV Furka 710 eV				
01:00	Bernina user 11 ke 23:00 - 07:00 23:00 - 07:00	Set-up 23:00 - 07:00	23:00 - 07:00 23:00 - 07:00	23:00 - 07:00 23:00 - 07:00	23:00 - 07:00 23:00 - 07:00	23:00 - 07:00 23:00 - 07:00	23:00 - 07:00 23:00 - 07:00
02:00							_
03:00							
04:00							
05:00							
06:00							
07:00							
0800 -	Set-up 07:00 - 15:00	Bernina 8 ke Furka 710 eV 07:00 - 15:0 07:00 - 15:00	Bernina 8 keV 07:00 - 15:00 07:00 - 15:00	Bernina 8 keV 07:00 - 15:00 07:00 - 15:00	Bernina 8 keV 07:00 - 15:00 07:00 - 15:00	Bernina 8 keV 07:00 - 15:00 07:00 - 15:00	Bernina 8 keV 07:00 - 15:00 07:00 - 15:00
09:00							
10:00							
11:00	BLM alarm test (D. Llorente, A. Alaro	STC, 10.00					
12:00							
13:00 -							
1400 -	SEM, 13:00						
1500 -							
16:00	Set-up (OP: Ch. Kittel) 15:00 - 23:00	Bernina 8 keV Furka 710 eV 15:00 - 23:00 15:00 - 23:00	Bernina 8 keV 15:00 – 23:00 15:00 – 23:00	Bernina 8 keV 15:00 - 23:00 15:00 - 23:00			
17:00							
18:00 -							
19:00 -							
20:00 -							
21:00 -							
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22:00 -							

Run coordinator report - Week 28

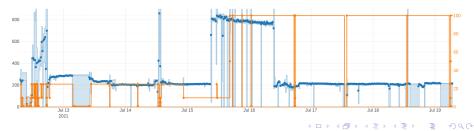
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Summary of week 28 - Lasing plots

Aramis lasing and frequency



Athos lasing and frequency



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Run coordinator report - Week 28

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Shift summaries set up days:

elog:20519

Machine:

- Machine and beam checks (phasing, dispersion correction, bunch lengths, Athos optics)
- Bunch 2 gun energy set-up redone, having 1 deg RF phase offset seems to help

Aramis:

Monday:

lasing set up @ 8.0 keV, 830 μ J, BW = 0.14%

• Tuesday:

photon pointing correction and initial look at spatial chirp elog:20546

• Wednesday:

reduction of spatial chirp with diagnostic help of Henrik elog:20549

• Rest of the week:

photon delivery for Bernina, PSICO not running

Athos:

Monday:

lasing set up for Maloja @ 540 eV and for Furka @ 710 eV

- Tuesday, Wednesday: photon delivery to Furka @ 710 eV, with around 200 μJ
- Wednesday:

short pointing test with orbit from last BBA, better lasing mode seems feasible elog:20553

Thursday:

photon delivery for Maloja @ 540 eV, with around 830 μJ slight loss adjustment to run @ 100 Hz

• Rest of the week:

photon delivery to Furka @ 710 eV, with around 200 μJ

Summary of week 28 - Issues

RF issues:

- Monday: SINSB04 went back to trigger
- Saturday: SINSB02 down, modulator & vacuum problems
- Sunday: SINXB01 down, communication interlock
- Sunday night: SINSB02 down, power supply problems

Vacuum issues:

- *Tuesday:* SATMA02 pump down, Athos photon delivery delay Photon diagnostics issues:
 - Wednesday: PSSS crystal broken? elog:20550

Controls issues:

- Monday & Tuesday: linac 3 delta tau down, dechirpers and collimators affected
- Saturday: databuffer problems
- Weekend: archiver backend down

Aramis:

• quite stable this week on the machine side

Athos:

• running without problems @ 100 Hz

General:

- various RF problems caused some downtime this week, but luckily all were resolved in a reasonable time frame
- great work from the control room operators this week!
- great support from Sven and Eugenio throughout the week