Minutes of RESULTS, PITZ Physics Seminar, 15.10.2015

Project: PITZ Participants:

G. Vashchenko, F. Stephan, Y. Renier, J. Good, M. Krasilnikov, M. Gross, I. Isaev, H.

Huck, G. Loisch

Agenda:

1) O. Hensler: Fast GUN startup

- 2) General issues
- 3) Runtime coordination

Results:

- 1.1. O. Hensler: Pulse length not ramped up slowly anymore, but gun ramped up at nominal pulse length. Temperature setpoint varied accordingly, no undershooting water regulation.
- 1.2. M. Grecki: Final state machine still under development, instability possible due to temperature fluctuation and resulting refl. power fluctuation
- 1.3. Output correction is not used at FLASH; will be clarified why and if PITZ shouldn't do that as well
- 1.4. Fast gun recovery is not thought as a conditioning tool, but could be used accordingly to coupler conditioning procedure at XFEL
- 1.5. O. Hensler is back from holiday on 29th of October and will try to do ca. 2 hours each on Thursday and Friday afternoon
- 1.6. Frequency tuning procedure could be integrated into SMAC to increase conditioning, but only for gun IL, not for gun trip for safety

2. General issues

- 2.1. Summary for collaboration meeting: coupler kick, 3D, TDS, Li-plasma
- 2.2. Yoga and backbone training supported by DESY for employees
- 2.3. Time management course in English; registration ongoing
- 2.4. 3rd November talk about gun #5
- 2.5. May 2016 PAC in Korea
- 2.6. DPG Spring Meeting Darmstadt March; abstract deadline 15th December
- 2.7. Reminder publication database: please send publications to H. Huck
- 2.8. Zeuthen applied as HQ for Cerenkov telescope; funding applications for LHC
- 2.9. Osterhoff group paper released on PWFA

3. Group Go-Kart outing

- 3.1. Scheduled to 6th of November
- 3.2. Exact kind of race and corresponding price will be defined soon

4. Run coordination

- 4.1. Technical shifts are asked to use the logbook
- 4.2. H. Huck: 5nC can still be reached at 4.5BSA
- 4.3. RF-crew adjusted FB
- 4.4. Phase stability about 0.7, amplitude stability improved to former optimum
- 4.5. High1.Scr2 is working, G. Vashchenko will fix optics
- 4.6. J. Good wants to have tunnel access for Ellipsoidal Laser beam transport
- 4.7. Runtime schedule presented by M. Krasilnikov
- 4.8. H. Huck suggests to have a section in the logbook for nominal settings for usual measurements
- 4.9. RF-timing is suggested to be changed for coupler kick studies needs to be clarified whether possible or not

Next steps:

What is to be done?	By whom ?	Until when?	Done on
Clarification on output correction	M. Grecki		
Investigations on fast recovery	O. Hensler	30.10.	
Looking at possibility of integration of	Y. Renier,		
frequency modulation into SMAC	D.		
	Melkumyan		
Participation confirmation for group outing	I. Isaev	21.10.	
Ask for specifications of amplifier crystals of	M. Gross		
MBI laser for risky emission studies			

Protocol prepared by

G. Loisch, 15.10.2015