

## Detailed agenda for WP meetings,

**Place:** IST, Lisbon, Portugal

**Time:** 22<sup>nd</sup> to 23<sup>rd</sup> of November 2017



### Wednesday WP pre-meeting:

This will take place right after the SAC report. As the room is located in the neighboring building, we will meet outside the lecture theatre after the SAC report and walk over with Ana who will show us where the shared WP meeting will take place.

**WPmeeting0 (Location: IST Main Building (the one behind our group photo): Room: nº 0.35 IST Management board meeting room)**

### **WP2 & WP5 & WP6 & WP7 & WP3**

**(Program: E. Chiadroni/P. Nghiem)**

- |       |  |                          |
|-------|--|--------------------------|
| 17:15 | Start-to-end simulations for laser driven external injection | (A. R. Rossi) 15+5       |
| 17:35 | Start-to-end simulations with comb technique for PWFA        | (A. Marocchino) 15+5     |
| 17:55 | Data analysis and relevant beam parameters calculation       | (A.R. Rossi) 15+5        |
| 18:15 | Overall discussions  | (Phi Nghiem) (20 min)    |
| 18:35 | <b>WP7 beams and positrons</b>                               | <b>(R. Walczak) 15+5</b> |

## **Thursday, 23<sup>rd</sup> of November 2017 “WP meetings”**

On Thursday we have the lecture theatre as well as 4 smaller rooms available. They are located in close proximity (<https://centrocongressos.tecnico.ulisboa.pt/en/salas/>):

- Lecture hall: 300 people
- Room 01.1: 30 (can also be divided in 3 sections, 10-15 people each (1.1a, 1.1b, 1.1c))
- Room 02.1: 40 (can also be divided in 2 sections, for 25 people each room (2.1a, 2.1b))
- Room 02.2: number of participants 50
- Room 02.3: number of participants 20

### **PROGRAM**

09:00 – 10:00 **General discussion, plenary (lecture theatre, whole collaboration)**

**Lecture theatre**      Review CDR layout and process      (R. Assmann / all WP's)  
**Room 1.1a**  
**Room 1.1b**  
**Room 1.1c**  
**Room 2.1a**  
**Room 2.1b**  
**Room 2.2**  
**Room 2.3**

10:00 – 10:30 **Coffee break**

### **Detailed program for 09:00 to 10:00**

#### **Lecture theatre**

09:00 am	Review Conceptual Design Report layout and process	(R. Assmann)
09:15 am	Discussion (all WP's)	(all)

## WP meeting session I

10:30 – 12:30 **WP meetings I**

**Lecture theatre**

**Room 1.1a**

**Room 1.1b**

**Room 1.1c**

**Room 2.1a**

**Room 2.1b**

**Room 2.2** WP 1/2/3/4/5/7/9 Laser requirements (Program: L. Gizzi)

**Room 2.3**

12:30 – 14:00 **Lunch break**

### Detailed program for 10:30 – 12:30

**WPmeetingl\_room2.2**

**WP1/2/3/4/5/7/9**

10:30 Laser requirements for resonant scheme

10:50 Stabilization requirements

11:10 Synchronization

11:30 Laser specifications: Discussion

12:00 Infrastructure: Discussion

12:20 WP2-WP3 interactions

**Leo Gizzi**

(P. Tomassini)

(Z. Mazzotta)

(P. Koester)

(all)

(all)

(P. Nghiem)

## WP meeting session II

14:00 – 15:30 **WP meetings II**

**Lecture theatre**

**Room 1.1a**

**Room 1.1b**

**Room 1.1c**

**Room 2.1a**

**Room 2.1b**

**Room 2.2**

**Room 2.3**

WP 2/3/4/5/7/9      Laser req. details (Program: Z. Mazzotta)

Room 2.2 (50):

15:30 – 16:00 **Coffee break**

### Detailed program for 14:00 – 15:30

<b>WPmeetingII_room2.2</b>	<b>WP2/3/4/5/7/9</b>	<b>Zeudi Mazzotta</b>
14:00	Review EuPRAXIA Laser Specifications	(Z. Mazzotta)
14:30	Discussion (all)	
15:00	Preliminary results on the modeling of an optical injector with an experimental laser profile	(G. Maynard)
15:15	WP2-WP4 interactions	(P. Nghiem)

## WP meeting session III

16:00 – 18:00 **WP meetings III**

### **Lecture theatre**

**Room 1.1a**

**Room 1.1b**

**Room 1.1c**

**Room 2.1a**

WP4

(Program: L. Gizzi)

**Room 2.1b**

**Room 2.2**

WP3

(Program: B. Cros)

**Room 2.3**

WP2 & WP5 + WP9

(Program: P. Nghiem)

18:00 **Adjourn**

### Detailed program for 16:00 - 18:00

#### **WPmeetingIII\_room2.1a WP4**

**Leo Gizzi**

- Guido TOCI, Preliminary laser design with Ti:Sa (20 min)
- Paul MASON, Progress on technology develop. for higher PRF pump operation (15 min)
- Franck FALCOZ, P60 with diode pumping (15 min)
- Andy BAYRAMIAN, Tm:YLF based architecture (20 min)
- Francois MATHIEU, Recent progress on XCAN (15 min)
- Petra KOESTER, Preliminary design of transverse functions (15 min)
- Zeudi MAZZOTTA, Transport and compression: key issues (Zeudi) (20 min)

#### **WPmeetingIII\_room2.2 WP3**

**Brigitte Cros**

- 0/ Discussion introduction: proposed implementation schemes for 2 plasma stages (Eupraxia report MS3.2) and stability requirements (T. Audet, LPGP)
- 1/ LPA Injector at 150 MeV : status & simulation updates (P. Lee/G Maynard, LPGP),
- 2/ Effect of injection process on divergence and emittance (Petra Koester, INO).
- 3/ LPA accelerator at 5 GeV: status, Laser parameters, Progress on plasma sources (??)
- 4/ Laser plasma coupling schemes (Jason Cole or Z Najmudin, ICL)
- 5/ Proposed schemes/techniques for synchronization of laser & electron beams (Desy?)
- 6/ Proposed schemes for electron transport between stages (A. Chancé, E Chiadroni)

#### **WPmeetingIII\_room2.3 WP2 & WP5 + WP9**

**Phi Nghiem**

- Alberto Marocchino (INFN-LNF-Univ. Roma): importing/exporting parameters between simulation codes (10 min)
- Paolo Tomassini (CNR-INO): Last results of Rempi scheme (20 min)
- Patrick Lee (CNRS-LPGP): Studies of beam loading effects in ionization injection scheme (25 min)
- Xiangkun Li (CEA-IRFU): Attempts to decrease slice energy spread in quasi-linear regime (15 min)
- Phu Anh Phi Nghiem (CEA-IRFU): WP2 tasks and plans, discussions (30 min)