

**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:**

**WPmeeting0 (Location change: outside lecture theatre, room 2.1.)**

**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 | WP7 beams and positrons                                      | (R. Walczak) 15+5     |

## **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)