

EuPRAXIA - Yearly Meeting 2017 and 2nd Collaboration Week



Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Monday, November 20, 2017 2:00 PM (5 minutes)

Presenter: SILVA, Luis (Instituto Superior Técnico, Lisbon)

Session Classification: Welcome and practical information

Contribution ID: 2

Type: **not specified**

Practical information

Monday, November 20, 2017 2:05 PM (10 minutes)

Presenter: MINNIBERGER, Tom (DESY)

Session Classification: Welcome and practical information

Contribution ID: 3

Type: **not specified**

Overall status and WP1 update

Monday, November 20, 2017 2:15 PM (30 minutes)

Presenter: ASSMANN, Ralph Wolfgang (DESY)

Session Classification: WP Updates

Contribution ID: 4

Type: **not specified**

Outreach and Liaison (WP8)

Monday, November 20, 2017 2:50 PM (20 minutes)

Presenter: TORRES, Ricardo (University of Liverpool)

Session Classification: WP Updates

Contribution ID: 5

Type: **not specified**

Physics and Simulation (WP2)

Monday, November 20, 2017 3:15 PM (25 minutes)

Presenter: NGHIEM, Phi

Session Classification: WP Updates

Contribution ID: 6

Type: **not specified**

High Gradient LPA Structure (WP3)

Monday, November 20, 2017 4:00 PM (25 minutes)

Presenter: CROS, Brigitte (LPGP CNRS)

Session Classification: WP Updates

Contribution ID: 7

Type: **not specified**

Beam Design and Optimization (WP5)

Monday, November 20, 2017 4:30 PM (25 minutes)

Presenter: CHIADRONI, Enrica (INFN - National Institute for Nuclear Physics)

Session Classification: WP Updates

Contribution ID: 8

Type: **not specified**

Baseline parameters, facility layout & site studies

Monday, November 20, 2017 5:00 PM (25 minutes)

Presenter: WALKER, Paul Andreas (DESY)

Session Classification: WP Updates

Contribution ID: 9

Type: **not specified**

Laser Design and Optimization (WP4)

Tuesday, November 21, 2017 9:00 AM (40 minutes)

Presenter: GIZZI, Leonida Antonio (Leo) (CNR and INFN)

Session Classification: WP Updates

Contribution ID: **10**

Type: **not specified**

FEL Pilot application (WP6)

Tuesday, November 21, 2017 9:45 AM (15 minutes)

Presenter: NGUYEN, Federico (INFN)

Session Classification: WP Updates

Contribution ID: 12

Type: **not specified**

HEP & other Pilot Applications (WP7)

Tuesday, November 21, 2017 10:05 AM (15 minutes)

Presenter: WALCZAK, Roman

Session Classification: WP Updates

Contribution ID: 13

Type: **not specified**

Alternative e-Beam Driven Plasma Structure (WP9)

Tuesday, November 21, 2017 10:25 AM (10 minutes)

Presenter: FERRARIO, massimo (INFN-LNF)

Session Classification: WP Updates

Contribution ID: 14

Type: **not specified**

Use of Other Novel Technologies (WP10)

Tuesday, November 21, 2017 11:00 AM (10 minutes)

Presenters: DORDA, Ulrich (DESY); Dr XIA, guoxing (University of Manchester)

Session Classification: WP Updates

Contribution ID: 15

Type: **not specified**

FEL Application Prototyping (WP11)

Tuesday, November 21, 2017 11:15 AM (10 minutes)

Presenter: MAIER, Andreas (Universität Hamburg)

Session Classification: WP Updates

Contribution ID: 16

Type: **not specified**

Acc. Prototyping & Exp. Test Facilities (WP12)

Tuesday, November 21, 2017 11:30 AM (10 minutes)

Presenter: MOSTACCI, Andrea (Sapienza University of Rome e INFN-Roma I (IT))

Session Classification: WP Updates

Contribution ID: 17

Type: **not specified**

Alternative Radiation Generation (WP13)

Tuesday, November 21, 2017 3:30 PM (10 minutes)

Presenters: JAROSZYNSKI, Dino (University of Strathclyde); VIEIRA, Jorge (Instituto Superior Técnico)

Session Classification: Plenary

Contribution ID: **18**

Type: **not specified**

Hybrid Laser-Electron-Beam Driven Acc. (WP14)

Tuesday, November 21, 2017 3:45 PM (10 minutes)

Presenter: HIDDING, Bernhard (Strathclyde)

Session Classification: Plenary

Contribution ID: 19

Type: **not specified**

Diagnostics for EuPRAXIA accelerator

Tuesday, November 21, 2017 4:00 PM (25 minutes)

Presenter: CIANCHI, Alessandro (INFN - Sezione Roma Tor Vergata)

Session Classification: Plenary

Contribution ID: 20

Type: **not specified**

EuPRAXIA@SPARC_LAB

Wednesday, November 22, 2017 2:00 PM (25 minutes)

Presenter: FERRARIO, massimo (INFN-LNF)

Session Classification: Plenary

Contribution ID: 21

Type: **not specified**

R&D on lasers and plasmas at GoLP

Wednesday, November 22, 2017 11:00 AM (45 minutes)

Presenter: SILVA, Luis (Instituto Superior Técnico, Lisbon)

Session Classification: Plenary

Contribution ID: 22

Type: **not specified**

Laser R&D required for EuPRAXIA

Wednesday, November 22, 2017 3:00 PM (25 minutes)

Presenters: MATHIEU , Francois (LULI); GIZZI, Leonida Antonio (Leo) (CNR and INFN)

Session Classification: Plenary

Contribution ID: 23

Type: **not specified**

Advancements at ELI Beamlines: Status of the user facility development

Wednesday, November 22, 2017 2:30 PM (25 minutes)

Presenter: PRIBYL, Lukas (CERN)

Session Classification: Plenary

Contribution ID: 24

Type: **not specified**

LWFA studies at the Lund Laser Centre

Presenter: LUNDH, Olle (Lund University)

Session Classification: Plenary

Contribution ID: 25

Type: **not specified**

SAC report

Wednesday, November 22, 2017 4:00 PM (45 minutes)

Presenter: BISCARI, Caterina

Session Classification: Plenary

Contribution ID: 26

Type: **not specified**

Review CDR layout and process

Thursday, November 23, 2017 9:00 AM (15 minutes)

Presenter: ASSMANN, Ralph Wolfgang (DESY)

Session Classification: Plenary

Contribution ID: 27

Type: **not specified**

ESFRI roadmap

Friday, November 24, 2017 9:00 AM (20 minutes)

Presenter: BROTTIER, Franck (Euroopportunities OÜ)

Session Classification: ESFRI roadmap application and WP summaries

Contribution ID: **28**

Type: **not specified**

Short view from WP leaders

Friday, November 24, 2017 9:30 AM (1 hour)

WP leaders, 1 slide each

Session Classification: ESFRI roadmap application and WP summaries

Contribution ID: 29

Type: **not specified**

Short view from WP leaders

Friday, November 24, 2017 11:00 AM (1 hour)

WP leaders, 1 slide each

Session Classification: WP summaries continued

Contribution ID: 32

Type: **not specified**

WP2 & WP5 & WP6 & WP7 & WP3

Wednesday, November 22, 2017 5:15 PM (1h 40m)

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

Presenters: CHIADRONI, Enrica (INFN - National Institute for Nuclear Physics); NGHIEM, Phi

Session Classification: Pre-WP meetings (WP2 & WP5 & WP6 & WP7 & WP3; Location: IST Congress Centre, Floor02, Room: 02.1 and/or 02.3)

Contribution ID: **33**

Type: **not specified**

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

Thursday, November 23, 2017 10:30 AM (2 hours)

10:30 Laser requirements for resonant scheme (P. Tomassini)

10:50 Stabilization requirements (Z. Mazzotta)

11:10 Synchronization (P. Koester)

11:30 Laser specifications: Discussion (all)

12:00 Infrastructure: Discussion (all)

12:20 WP2-WP3 interactions (P. Nghiem)

Presenter: GIZZI, Leonida Antonio (Leo) (CNR and INFN)

Session Classification: WP Meetings

Contribution ID: 34

Type: **not specified**

WP2/3/4/5/7/9

Thursday, November 23, 2017 2:00 PM (1h 30m)

14:00 Review EuPRAXIA Laser Specifications (Z. Mazzotta)

14:30 Discussion (all)

15:00 Preliminary results on the modeling of an optical injector (G. Maynard)
with an experimental laser profile

15:15 WP2-WP4 interactions (P. Nghiem)

Presenter: MAZZOTTA, Zeudi (Università degli Studi e INFN Milano (IT))

Session Classification: WP Meetings

Contribution ID: 35

Type: **not specified**

WP4

Thursday, November 23, 2017 4:00 PM (2 hours)

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 BAYRAMLIAN, 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 (20 min)

Presenter: GIZZI, Leonida Antonio (Leo) (CNR and INFN)

Session Classification: WP Meetings

Contribution ID: **36**

Type: **not specified**

WP3

Thursday, November 23, 2017 4:00 PM (2 hours)

Discussion introduction: proposed implementation schemes for 2 plasma stages (Eupraxia report MS3.2) and stability requirements (T. Audet, LPGP)

LPA Injector at 150 MeV : status & simulation updates (P. Lee/G Maynard, LPGP)

Effect of injection process on divergence and emittance (Petra Koester, INO).

LPA accelerator at 5 GeV: status, Laser parameters, Progress on plasma sources

Laser plasma coupling schemes (Jason Cole or Z Najmudin, ICL)

Proposed schemes/techniques for synchronization of laser & electron beams

Proposed schemes for electron transport between stages (A. Chancé, E Chiadroni)

Presenter: CROS, Brigitte (LPGP CNRS)

Session Classification: WP Meetings

Contribution ID: 37

Type: **not specified**

WP2 & WP5 + WP9

Thursday, November 23, 2017 4:00 PM (2 hours)

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)

Presenter: NGHIEM, Phi

Session Classification: WP Meetings