

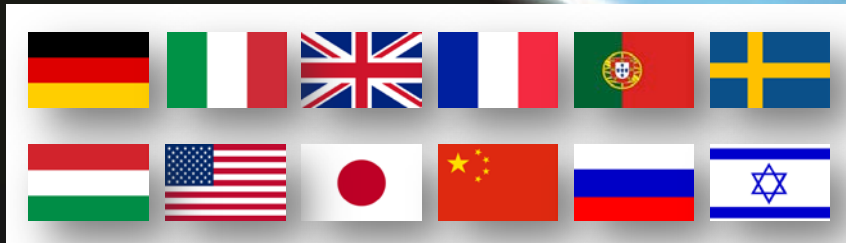
EUROPEAN
PLASMA RESEARCH
ACCELERATOR WITH
EXCELLENCE IN
APPLICATIONS



8th EuPRAXIA Steering Committee Meeting

Ralph Assmann (DESY)

December 14th, 2017, DESY & remote



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 653782.

09:00 Welcome and approval of agenda

09:05 Approval of minutes from 7th Steering Meeting

09:10 Action items from 7th Steering Meeting

09:20 Round table (WP1-WP14): short verbal report, no slides

09:40 A. Walker: 2nd study version parameter

10:00 Round table: Follow-up 2nd Yearly Meeting (few slides welcome from WP leaders)

- Discussion of baseline, included backup options, not included backup options

11:30 AOB

11:40 Adjourn

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- Send out reminder for Yearly/Collaboration Meeting (action **T. Minniberger**)
- Invitation to Collaboration Board Meeting in Lisbon (action **R. Mundt**).
- Send procedure for new associated partners to SC members via email (action **R. Mundt**).
- Ask Belfast & Leibnitz for 2-page support letter for associated membership (action **R. Mundt**).
- All Institutes have to send one representatives to the Yearly and Collaboration Board Meeting in Lisbon *in person*. Please sent names to eupraxia-admin@desy.de (action **all**).
- Send out updated EuPRAXIA relevant dates via email to SC members (action **Ruth**).
- For the update of the EuPRAXIA intranet, please send your Microsoft account/skype account and associated email address to intranet@eupraxia-project.eu (action **all**).

DONE

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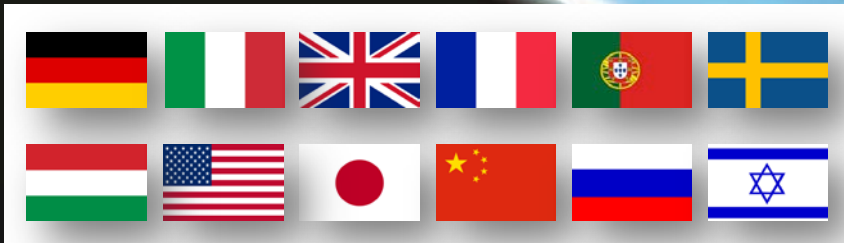


Study parameter table - version 2

Paul Andreas Walker (DESY)

8th EuPRAXIA Steering Committee Meeting

December 14th, 2017, DESY & remote



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 653782.

- We received many changes before our Yearly Meeting in Lisbon and 0 changes after the meeting, so the table online is same as in Lisbon
 (<https://indico.cern.ch/event/685636/sessions/258843/#20171214>)
- I won't go through the tables and parameters in detail (done in Lisbon in my and WP leader's talks) I will name changes briefly and then we can discuss questions/issues
- Talk should act as a starting point to discussions
 - Phi eluded to the fact that some are not really worked on and we should cross them out if that is the case
 - Still 10 cases on the books and we need to start thinking about the categories:
 (1) baseline, (2) in development, (3) backup solutions
 - What are the criteria for selection of baselines? (TRL 5y; TRL 10y; FEL performance; innovation & technical disruptiveness; can we get it funded?; ...)
 - Final selection in Liverpool?

- Current version also published on indico webpage of this SC meeting: <https://indico.cern.ch/event/685636/>
- Thank you very much for all the input I received over the last year
- Please continue to work with the parameter table
- Procedure (same as during the past year)
 - Download table and edit table yourself
 - Please indicate your changes by **green** color
 - Send it to me (andreas.walker@desy.de)
 - I will combine all requests in **red** color and publish new version

- Changes made to 1. iteration marked in red
- Laser parameters now up front not within cases
 - Easier to find; No duplication; Not so simple to know which laser will be used for which case
 - 5J/30fs, 15J/30fs, and 50J/60fs
- Repetition rate 20 Hz (now globally defined by laser parameters, PWFA rep. rate might differ)
- RF injector beam energy increased from 150 MeV to: 240 MeV (DESY) and 540 MeV (INFN)
- Refined 150 MeV LPA parameters (1 mm mrad, 6 mrad, ...)

- Added more details (especially slice parameters) for the 1 GeV FEL parameters (5 GeV parameters unchanged)
- HOPA beams added with 3 distinct beams
 - FEL high quality -> X-rays
 - low charge -> HEP detector tests
 - high charge & energy -> positrons
- Added PWFA parameters: 500 MeV, 200 pC (with X-band)
- Hybrid parameters: baseline compromise value to accommodate various scenarios

Contributing institutes

<p>LWFA</p>	<p>1A</p> <p>2A</p> <p>3A</p>	<p>1B</p> <p>2B</p> <p>3B</p>
<p>PWFA</p>	<p>4A</p>	<p>4B</p>
<p>HYBRID</p>	<p>5</p> <p>Strath.</p> <p>DESY</p>	

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16 Participants



24 Associated Partners

(as of December 2017)

