

Towards Milestone Report MS21 for EuroNNAc in May 2023

19 – 26 September 2022, Elba, Italy

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NPACT/EuroNNAc Meeting Saturday

- Saturday will discuss EAAC2023, proposal of a new Bob Siemann prize, how to make our facilities and projects a full success, ...
- Let us know your proposals for the future of the field.
- If you are around, please join us!





WP6 Deliverables

Later (after 2023)
Later (arc 2023) EAAC 2023)
EAAC

Deliverables related to WP6	V 2024
D6.1: EAAC workshops and strategies. Report on the EAAC workshops as strategic forums for international accelerator R&D and resulting strategies	M42
D6.2: LASPLA Strategy. Report on a strategy for laser drivers for plasma accelerators.	M46
D6.2: Electron acceleration experiments with new targets. Report on electron acceleration with micro-scale target at a kHz repetition rate, and with long targets at the multi-Joule level.	M24
D6.4: Improvement of the laser intensity stability on target. Report showing the stability on two laser facilities before and after improvement.	M36





WP6 Milestones



May 2023

- MS21: Report on the novel accelerator landscape in Europe, facilities, projects and capabilities at the beginning of the 2020's. Lead – DESY, M24, Publication, website (task 6.1)
- MS22: LASPLA Workshop/School. Lead CNR, M30, Report (task 6.2)
- MS23 Target manufacturing and characterization. Lead CNRS, M12 Report (task 6.3)
- MS24: Hypothesis on the causes of the instabilities of the focal spot profile.
 Lead CNRS, M24 Publication (task 6.4)

This Special Topics workshop will **prepare the milestone MS21**. Thanks to all **session organizers** and **participants** for your help!





Outcome of Workshop

- The special topics (nine, proposed by our community) gave an excellent overview of our field and the activities of network institutes and the network itself.
- Talks (almost) all on INDICO. Student and other posters as well.

https://agenda.infn.it/event/28376/timetable/#20220923

- Now:
 - The ST co-cordinators present their short summaries on slides
 - Slides documented on INDICO
- Slides will be used to report WS outcome to I-FAST steering meeting





Producing the MS21 Report

- ST co-coordinators prepare a **1.5 2 page** (can be more) written summary for topic:
 - NO template required, any format fine.
 - Text required, readable to EU level reviewers. References to talks and papers OK.
 - 1 Figure plus 1 Table per 2 pages max.
 - ST co-coordinators distribute to all participants for comments.
- Major questions to address for each special topic:
 - What are facilities available and presented?
 - What are the major projects presented and discussed?
 - What are our capabilities covering what we need or something mentioned as missing?
 - What are the next steps listed and what is the outlook into the future?
 - Any **important message** we want to pass to I-FAST and EU for the specific special topic?
- Proposed deadline for sending to RA & MF: 1 Nov 2022 (easier close to WS)
- We will assemble it and iterate the report with WS participants.









Thanks to all session organizers and participants for your help!



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18:00

Edda Gschwendtner et al. Summary - Beam-driven Plasma Accelerators with focus on proton-driven Sala Maria Luisa - Hotel Hermitage Jorge Vieira et al. **Summary - Simulation tools and roadmap** Sala Maria Luisa - Hotel Hermitage Leonida Antonio Gizzi et al. Summary - Laser Technology and LWFA Results (e-, p+, ion) Sala Maria Luisa - Hotel Hermitage Summary - Distributed Plasma Accelerator Landscape in Europe and Technical Progress towards Applications (EuPRA \emptyset Enrica Chiadroni et al. Summary - Talks and discussion on plasma-based FEL experiments Sala Maria Luisa - Hotel Hermitage Summary - Particle physics plasma test facility (multi-stage, 10's of GeV) Sala Maria Luisa - Hotel Hermitage Bernhard Holzer et al. Summary - EuroNNAc Student and Young Researher Program - Posters, prizes, ... Sala Maria Luisa - Hotel Hermitage

EUROPEAN NETWORK FOR NOVEL ACCELERATORS



19:00

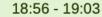
Summary - International Landscape: Facilities, projects, initiatives

Sala Maria Luisa - Hotel Hermitage

Summary - Structure-based accelerators (e.g. ACHIP) and advanced radiation generation schemes Rasmus Ischebeck

Sala Maria Luisa - Hotel Hermitage





18:00 - 18:07

18:07 - 18:14

18:14 - 18:21

Arie Irman

Carl Schroeder

18:28 - 18:35

18:35 - 18:42

18:42 - 18:49

18:49 - 18:56

Mark Hogan et al.

