

Yearly Meeting 2022

24 September 2022, Elba, Italy

Ralph Assmann, DESY & LNF/INFN Massimo Ferrario, LNF/INFN





Proposed Agenda

- Agenda
- Goals, milestones & deliverables of I-FAST WP6 Task 1 (NPACT/EuroNNAc)
- Review NPACT/EuroNNAc Special Topic Meeting 2022
- EAAC 2023
- New Initiatives proposed
- AOB (roundtable)

Approved?





- Agenda
- Goals, milestones & deliverables of I-FAST WP6 Task 1 (NPACT/EuroNNAc)
- Review NPACT/EuroNNAc Special Topic Meeting 2022
- EAAC 2023
- New Initiatives proposed
- AOB (roundtable)





- Agenda
- Goals, milestones & deliverables of I-FAST WP6 Task 1 (NPACT/EuroNNAc)
- Review NPACT/EuroNNAc Special Topic Meeting 2022
- EAAC 2023
- New Initiatives proposed
- AOB (roundtable)





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!





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.





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





- Agenda
- Goals, milestones & deliverables of I-FAST WP6 Task 1 (NPACT/EuroNNAc)
- Review NPACT/EuroNNAc Special Topic Meeting 2022
- EAAC 2023
- New Initiatives proposed
- AOB (roundtable)







EUROPEAN NETWORK FOR NOVEL ACCELERATORS

NPACT supported by EU via I-FAST

19:00

18:00



		_	
Summary - Beam-driven Plasma Accelerators with focus on proton-driven	Edda Gschwendtner et al. 0	?	
Sala Maria Luisa - Hotel Hermitage	18:00 - 18:07		
Summary - Simulation tools and roadmap	Jorge Vieira et al. 0	?	
Sala Maria Luisa - Hotel Hermitage	18:07 - 18:14		
Summary - Laser Technology and LWFA Results (e-, p+, ion)	Leonida Antonio Gizzi et al. 0	?	
Sala Maria Luisa - Hotel Hermitage	18:14 - 18:21		
Summary - Distributed Plasma Accelerator Landscape in Europe and Technical Progress towards Applications (EuPR. Enrica Chiadroni et al.			
Summary - Talks and discussion on plasma-based FEL experiments	Arie Irman 0	2	
Sala Maria Luisa - Hotel Hermitage	18:28 - 18:35		
Summary - Particle physics plasma test facility (multi-stage, 10`s of GeV)	Carl Schroeder	?	
Sala Maria Luisa - Hotel Hermitage	18:35 - 18:42		
Summary - EuroNNAc Student and Young Researher Program - Posters, prizes,	Bernhard Holzer et al. 0	?	
Sala Maria Luisa - Hotel Hermitage	18:42 - 18:49		
Summary - International Landscape: Facilities, projects, initiatives	Mark Hogan et al.	آ	
Sala Maria Luisa - Hotel Hermitage	18:49 - 18:56		

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



Sala Maria Luisa - Hotel Hermitage

18:56 - 19:03

Review NPACT/EuroNNAc Special Topic Meeting 2022

- Special topics covered: Any ST missed?
- Format: Plenary only versus pleanry + parallel
- Poster sessions
- Student involvement
- Student Grants (42 full cost grants)
- Organization: Hotels, Breakfast, Coffee breaks, Lunch, Dinner, Social Evening, ...
- Registration fee
- Number of participants: 148 (including students)





- Agenda
- Goals, milestones & deliverables of I-FAST WP6 Task 1 (NPACT/EuroNNAc)
- Review NPACT/EuroNNAc Special Topic Meeting 2022
- EAAC 2023
- New Initiatives proposed
- AOB (roundtable)





EAAC 2023

- Location:
- Dates:
- Topics & format:
- Max # participants:
- AOB EAAC 2023

Elba (proposed)

17-23 September 2023 (proposed)

return to 2019 format?

150 or **270** or ?





- Agenda
- Goals, milestones & deliverables of I-FAST WP6 Task 1 (NPACT/EuroNNAc)
- Review NPACT/EuroNNAc Special Topic Meeting 2022
- EAAC 2023
- New Initiatives proposed
- AOB (roundtable)





New Initiatives proposed

- Senior EuroNNAc Prize
 - Proposed to be named after Robert H. Siemann
 - for senior candidates (> 10 years after PhD?)
 - No age restriction
 - No restriction on nationality or employment (within bounds of EU regulations, e.g. respecting sanctions – require dedication to peaceful collaborations and goals)
 - Can be awarded to active or retired persons
 - •
- Other new intiatives?





- Agenda
- Goals, milestones & deliverables of I-FAST WP6 Task 1 (NPACT/EuroNNAc)
- Review NPACT/EuroNNAc Special Topic Meeting 2022
- EAAC 2023
- New Initiatives proposed
- AOB (roundtable)





