

EUROPEAN  
PLASMA RESEARCH  
ACCELERATOR WITH  
EXCELLENCE IN  
APPLICATIONS



# Membership Extension Strategy WP6

B. Cros (CNRS), A. Mostacci (Sapienza)

EuPRAXIA-PP Annual Meeting 2024, 22-28 September 2024



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## Mandate

- ➔ **Propose a strategy** to increase EuPRAXIA community  
For example, in the context of European Strategy for Particle Physics (ESPP), EuPRAXIA should be involved in the scientific discussion as an example of a plasma-based facility (see Pierluigi's presentation).  
EU explicit recommendation (see Antonio's presentation).
- ➔ Identify **potential members**, e.g. communities, interested in either contributing to the **development of EuPRAXIA** accelerator technology or the **use of particle beams** delivered by EuPRAXIA facilities.

## Next Milestone

- ➔ **Organise a workshop** to imagine the role of Eupraxia outside the current partnership.

## Involved institutes



Brigitte Cros (leader)



Andrea Mostacci (co-leader)

## EuPRAXIA Outreach

### WP6 - Membership Extension Strategy

27th September 2024, Isola d'Elba, Italy



#### PROGRAMME COMMITTEE

BRIGITTE CROS (CHAIR)  
ANDREA MOSTACCI (CHAIR)  
PIERLUIGI CAMPANA  
MASSIMO FERRARIO  
ANTONIO FALONE

#### LOCAL ORGANIZING COMMITTEE

ANTONIO FALONE (CHAIR)  
ANNA RITA CIAMARRA  
CATIA CONTI  
ALESSIO DEL DOTTO  
MARTINA DEL GIORNO  
GIORGIO DELZERI  
VALENTINA DOMPÈ  
MAURIZIO GARZELLA  
GABRIELE LO RE  
GIORGIA MASI  
CLAUDIA PELLICCIONE  
ANDREA QUATTRINI  
STEFANO ROMEO

## EuPRAXIA Outreach

### WP6 - Membership Extension Strategy

27th September 2024, Isola d'Elba, Italy

9.00 – 9.30	EuPRAXIA accelerator and facility: a technical perspective	<i>Massimo Ferrario</i>
9.30 – 9.45	EuPRAXIA Collaboration and its organisation	<i>Antonio Falone</i>
9.45 – 10.00	Reason and directions of Membership Extensions	<i>Pierluigi Campana</i>
10.00 – 10.30	Pioneering experience on the development of accelerators from scratch: SESAME facility	<i>Andrea Lausi</i>
11.00 – 11.30	Research initiatives in INDIA and potential opportunities for EuPRAXIA	<i>Rajeev Pattathil</i>
11.30 – 12.00	Research Initiatives in Developing Communities and Potential Opportunities for EuPRAXIA	<i>Christine Darve</i>
12.00 – 12.30	The Latin American Synchrotron in the Greater Caribbean	<i>Galileo Violini</i>
16.00 – 16.25	Plasma based positron sources for testing positron acceleration at EuPRAXIA	<i>Gianluca Sarri</i>
16.25 – 16.50	Synergies for laser development between EuPRAXIA and other fields including fusion and industry	<i>Leonida Antonio Gizzi</i>
16.50 – 17.15	Nuclear physics in plasma at EuPRAXIA	<i>Paolo Tomassini</i>
17.15 – 17.40	EuPRAXIA possible contributions to the Linear Collider development	<i>Jens Osterhoff</i>
18.00 – 18.20	The African School of Physics	<i>Ketevi Adikle Assamagan</i>
18.20 – 18.40	Tools for Students training in EU and funding opportunities	<i>Carsten Peter Welsch</i>
18.40 – 19.30	Discussion/Round table - Strategy for linking Eupraxia to other worldwide similar accelerator activities	<i>Convener: Brigitte Cross, Andrea Mostacci</i>

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STEFANO ROMEO

## Presentation of EuPRAXIA

9.00 – 9.30 EuPRAXIA accelerator and facility: a technical perspective

*Massimo Ferrario*

9.30 – 9.45 EuPRAXIA Collaboration and its organisation

*Antonio Falone*

9.45 – 10.00 Reason and directions of Membership Extensions

*Pierluigi Campana*

10.00 – 10.30 Pioneering experience on the development of accelerators from scratch: SESAME facility

*Andrea Lausi*

## Potential links in countries not yet represented in EuPRAXIA

11.00 – 11.30 Research initiatives in INDIA and potential opportunities for EuPRAXIA

*Rajeev Pattathil*

11.30 – 12.00 Research Initiatives in Developing Communities and Potential Opportunities for EuPRAXIA

*Christine Darve*

12.00 – 12.30 The Latin American Synchrotron in the Greater Caribbean

*Galileo Violini*

## EuPRAXIA framework for R&D

16.00 – 16.25 Plasma based positron sources for testing positron acceleration at EuPRAXIA

*Gianluca Sarri*

16.25 – 16.50 Synergies for laser development between EuPRAXIA and other fields including fusion and industry

*Leonida Antonio Gizzi*

16.50 – 17.15 Nuclear physics in plasma at EuPRAXIA

*Paolo Tomassini*

17.15 – 17.40 EuPRAXIA possible contributions to the Linear Collider development

*Jens Osterhoff*

## Training and young researcher education

18.00 – 18.20 The African School of Physics

*Ketevi Adikle Assamagan*

18.20 – 18.40 Tools for Students training in EU and funding opportunities

*Carsten Peter Welsch*

18.40 – 19.30 Discussion/Round table - Strategy for linking Eupraxia to other worldwide similar accelerator activities

*Convener: Brigitte Cross, Andrea Mostacci*

We asked candidates to host EuPRAXIA sites to present their vision on the linking of EuPRAXIA outside the current partnership, to suggest possible directions and interesting topics.

<b>Introduction</b> <i>Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy</i>	<i>Andrea Mostacci et al.</i> 18:00 - 18:05
<b>Attractivity for users in the inertial fusion field</b> <i>Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy</i>	<i>Dr Leonida Antonio Gizzi</i> 18:05 - 18:15
<b>Hosting and outreach at INFN Frascati</b> <i>Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy</i>	<i>Massimo Ferrario</i> 18:15 - 18:25
<b>Hosting the EuPRAXIA LPA-based Centre at ELI-Beamlines Facility (ELI-ERIC)</b> <i>Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy</i>	<i>Dr Alexander Molodozhentsev</i> 18:25 - 18:35
<b>Hosting and outreach at EPAC</b> <i>Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy</i>	<i>Rajeev Pattathil</i> 18:35 - 18:45
<b>Discussion</b> <i>Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy</i>	18:45 - 18:50