

PAUL SCHERRER INSTITUT



67th ICFA
Advanced
Beam Dynamics
Workshop
FLS 2023

Future Light Sources 2023

Final
Session



Delegates by picture



Distribution of contributions

	Abstracts	Invited	Contrib	Posters	Papers
A: Linac-based Light Sources	63	16	19	29	18 (29%)
B: Ring-based Light Sources	45	6	17	22	25 (56%)
C: Compact Light Sources	21	4	11	8	8 (38%)
D: Key Technologies	29	5	18	6	11 (32%)
Total	159	31	64	62	62 (39%)

62 Papers submitted

Tex:	41	66%
Word:	21	24%




FLS2023 - Proceedings
Luzern, Switzerland
 - Pre-Press Status 01-September 2023 -

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MO1L	Invited Plenary
MO2L	Invited Plenary
MO3B	Working Group B: Storage Ring Light Sources
MO3A	Working Group A: Linac-based Light Sources
MO4B	Working Group B: Storage Ring Light Sources
MO4C	Working Group C: Compact Light Sources
TU1C	Working Group C: Compact Light Sources
TU1B	Working Group B: Storage Ring Light Sources
TU2A	Working Group A: Linac-based Light Sources
TU3D	Working Group D: Key Technologies
TU3B	Working Group B: Storage Ring Light Sources
TU4P	Poster Session
WE1L	Invited Plenary
WE2A	Working Group A: Linac-based Light Sources

MO1L — Invited Plenary (28-Aug-23 08:30—10:30)
Chair: R. Ganter, PSI, Villigen PSI, Switzerland

Paper	Title	Page
MO1L1	EuPRAXIA: The First FEL User Facility Driven by a Plasma Accelerator	
	<ul style="list-style-type: none"> R.W. Aßmann DESY, Hamburg, Germany <p>Funding: Supported by the European Unions Horizon Europe research and innovation programme under grant agreement No. 101079773 and 101073480, the Swiss government and the UKRI guarantee funds.</p> <p>The European Plasma Accelerator with eXcellence In Applications (EuPRAXIA) infrastructure* was proposed in 2014 and started its design phase in 2015 with an EU funded Design Study. By the end of 2019 the World's first conceptual design report (CDR) for a plasma-based user facility was completed. The EuPRAXIA CDR** describes the design of a compact and innovative research infrastructure that delivers ultra-short pulses of up to 5 GeV electrons, positrons, X-rays, FEL light and laser pulses to users from various fields. The project received government support from various European countries and was placed on the ESFRI roadmap of high priority European research infrastructures at end of 2021. The EuPRAXIA headquarters and one of the two construction sites is located at Frascati, Rome, in Italy. The second site will be decided among candidates in Czech Republic, Italy, Spain and UK. Presently several projects, supported by national and EU funds, are ongoing towards the implementation of this new research infrastructure. The talk will present the concept, user cases, the technical status, including successful FEL lasing***, the potential and challenges for EuPRAXIA.</p> <p>* https://www.eupraxia-facility.org/ ** R.W. Assmann et al., <i>Eur. Phys. J. Special Topics</i> 229, 3675-4284 (2020). *** R. Pompili et al. <i>Nature</i> 605 (2022) 7911, 659-662.</p>	
	 Slides MO1L1 [21.761 MB]	
MO1L2	Free-electron Light Interactions in Nanophotonics	
	<ul style="list-style-type: none"> C. Roques-Carmes Stanford University, Stanford, California, USA 	

Good mornin' Hans
 We will place a link to a pre-press
 release of the proceedings on
 our Workshop home page at
 about noon
 'later, Jan

Many thanks to all who helped to make FLS'23 happen



Jan Chrin; Nicole Hiller ; **Romain Ganter** ; Frank
Reiser; Elisabeth Rohrer; Harald Schori;
Marco Prothmann ; Andreas Spittaler; Walter Morath;
Lorena Wernli; Andrea Messerli; Christoph Schütz ;
Monika Bletry ; Daniela Lerch ; Maria Guarino;
Susanne Sullivan ; David Baumann; Alessandro
Sagona; **Silvia Bacher**; Vivienne Rowland; Saif Khan

Future Light Sources

What's the future?

Grenoble	1996
Argonne	1999
Hyogo	2002
Hamburg	2006
Nenlo Park	2010
Newport News	2012
Shanghai	2018
Lucerne	2023
?	2027