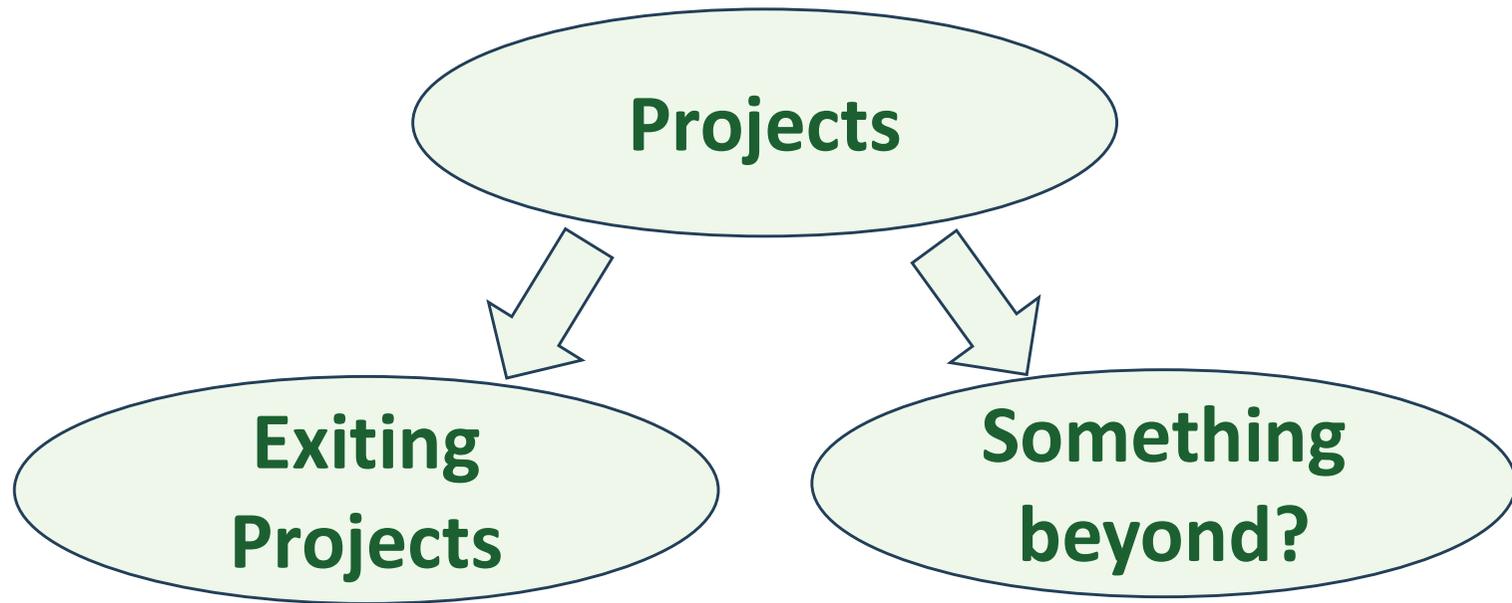


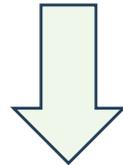
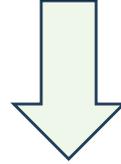
About Special Projects and Sponsorship

Kuijuan Jin

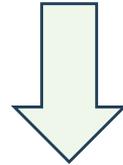
Oct. 28, 2025
EC&CC Meeting at ICTP



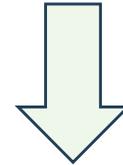
**Exiting
Projects**



**More AdLS
Partners?**



**More
Funding?**



**More Union
Partners?**

The International Union of
Pure and Applied Physics



The International Union
of Crystallography



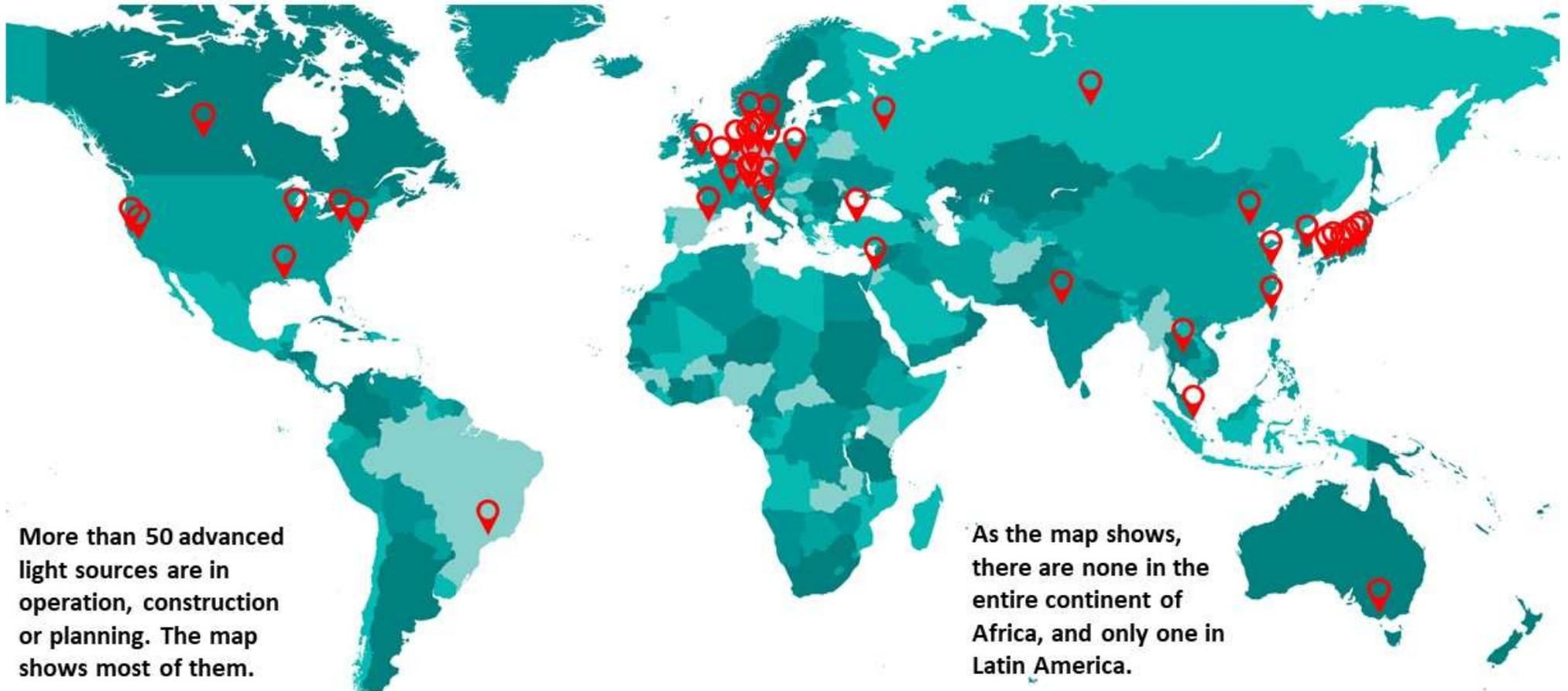
<https://laaamp.iucr.org/>



The Abdus Salam International
Centre
for Theoretical Physics

The project *LAAAMP* was started in 2016 through a grant awarded by the International Science Council (ISC) to the joint IUPAP-IUCr project entitled ***Utilisation of Light Source and Crystallographic Sciences to Facilitate the Enhancement of Knowledge and Improve the Economic and Social Conditions in Targeted Regions of the World***. Aim of the project is to enhance Advanced Light Sources (AdLS) and crystallographic sciences in Africa, Mexico, the Caribbean, South America, Central and Southeast Asia, Middle East and the Pacific Islands.

World Map of advanced Light Sources (AdLS)



LAAAMP Tasks

Regional Committees develop **Strategic Plans** for each Region

TASK 1

Establish an AdLS/Crystallography **Colloquium Programme** in each Region

TASK 2

Publish and Disseminate an AdLS/Crystallography **Information Brochure**

TASK 3

Promote and Facilitate Researcher and Student **Short- & Long-Term Visits/Study** at International AdLS and Crystallography Facilities and Schools (*including IUCr-UNESCO OpenLabs*)

TASK 4

Developed



Lightsources for Africa, the Americas, Asia and Middle East Project
An IUPAP-IUCr project within the Grants Programme of the ISC
Executive Committee: Michele Zema (Chair), Sekazi Mtingwa, Sandro Scandolo

Strategic Plan for Africa

The African Light Source 1 (AfLS1) and AfLS2 Conferences had three major outputs: (1) a set of overarching statements, called the *Grenoble Resolutions*, that provide the *WHY* for an AfLS, (2) a *Roadmap* to guide future activities, and (3) the election of a fully mandated Executive Steering Committee of the AfLS Foundation, a legal nonprofit under South African law.

For the first output, we have the following AfLS1 **Grenoble Resolutions**:

1. *Advanced light sources are the most transformative scientific instruments similar to the invention of conventional lasers and computers.*



Lightsources for Africa, the Americas, Asia and Middle East Project
An IUPAP-IUCr project within the Grants Programme of the ISC
Executive Committee: Michele Zema (Chair), Sekazi Mtingwa, Sandro Scandolo

Strategic Plan for South East Asia Including the Strategic Plan for the Siam Photon Source II



Lightsources for Africa, the Americas, Asia and Middle East Project
An IUPAP-IUCr project within the Grants Programme of the ISC
Executive Committee: Michele Zema (Chair), Sekazi Mtingwa, Sandro Scandolo

Strategic Plan for Mexico

Mexican region endorses the following **Universal Grenoble Resolutions**:



Lightsources for Africa, the Americas, Asia and Middle East Project
An IUPAP-IUCr project within the Grants Programme of the ISC
Executive Committee: Michele Zema (Chair), Sekazi Mtingwa, Sandro Scandolo

Strategic Plan for the Middle East

The Middle East region endorses the following **Universal Grenoble Resolutions**:

1. *Advanced light sources are the most transformative scientific instruments similar to the invention of conventional lasers and computers.*



Lightsources for Africa, the Americas, Asia and Middle East Project
An IUPAP-IUCr project within the Grants Programme of the ISC
Executive Committee: Michele Zema (Chair), Sekazi Mtingwa, Sandro Scandolo

Strategic Plan for the Caribbean

I. The Caribbean region endorses the following **Universal Grenoble Resolutions**:

1. *Advanced light sources are the most transformative scientific instruments similar to the invention of conventional lasers and computers.*

2. *Advanced light sources are revolutionizing a myriad of fundamental and applied sciences, including agriculture, biology, biomedicine, chemistry, climate and environmental systems science, cultural heritage studies, energy, engineering, geology, materials science, nanotechnology, palaeontology, pharmaceutical discoveries, and physics, with an accompanying impact on sustainable industry.*

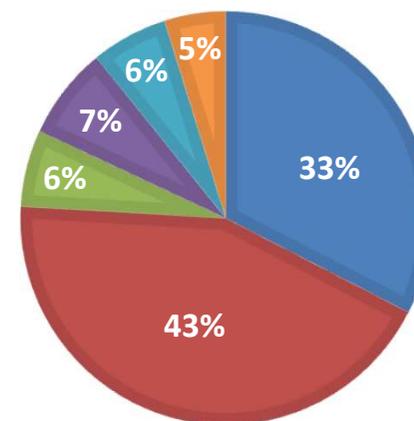
<https://laaamp.iucr.org/tasks/strategic-plans>

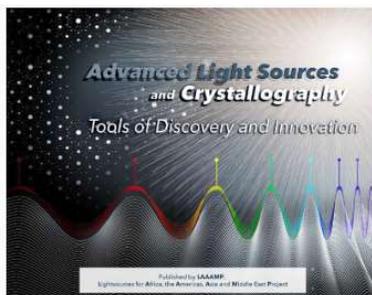
2. *Advanced light sources are revolutionizing a myriad of fundamental and applied sciences, including agriculture, biology, biomedicine, chemistry, climate and environmental systems science, cultural heritage studies, energy, engineering, geology, materials science, nanotechnology, palaeontology, pharmaceutical discoveries, and physics, with an accompanying impact on sustainable industry.*

3. *The community of researchers around the world are striving collaboratively to create ever more intense sources of electromagnetic radiation, specifically derived synchrotron light sources and X-ray free-electron lasers (XFELs), to address the most challenging questions in living and environmental sciences.*

X-TechLab at Sèmè City, Benin

3 training sessions in 2019-2020: 84 learners from 12 African countries: Benin, Burkina Faso, Burundi, Cameroon, Congo-Brazzaville, the Democratic Republic of Congo, Senegal, Togo, Ghana, Ethiopia, Nigeria and Côte d'Ivoire. 20 invited experts.





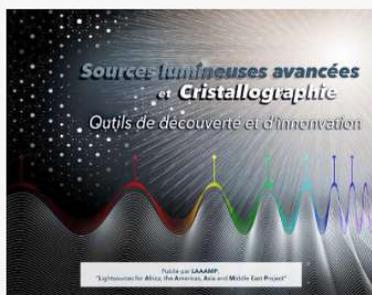
LAAAMP Brochure, Version 2
Language: English

(PDF file, 5.4 MB)



LAAAMP Brochure, Version 2
Language: Spanish

(PDF file, 4.7 MB)



LAAAMP Brochure, Version 2
Language: French

(PDF file, 4.7 MB)



LAAAMP Brochure, Version 2
Language: Arabic

(PDF file, 9.2 MB)



LAAAMP Brochure, Version 2
Language: Portuguese

(PDF file, 5.1 MB)

The LAAAMP brochure “*Advanced Light Sources and Crystallography: Tools of Discovery and Innovation*” is available in **English, Spanish, French, Arabic and Portuguese**.

Translations have been made available thanks to a collaboration with the International Atomic Energy Agency (IAEA).

Brochure editor: **Ernie Malamud**

DOWNLOAD FOR FREE at
<https://laaamp.iucr.org/tasks/brochure>



TASK 4: Faculty-Student (FAST) teams visits at AdLSs

Eligibility

Faculty members at universities in Africa, the Caribbean, Latin America, Central Asia, SE Asia, Middle East, and Pacific. Interested in using AdLSs to further one's research and training endeavors. Previous experience with using AdLSs is limited to a year or less. Ability to spend 2 months as a full-time visitor in residence at an AdLS that is a *LAAAMP* collaborative partner.

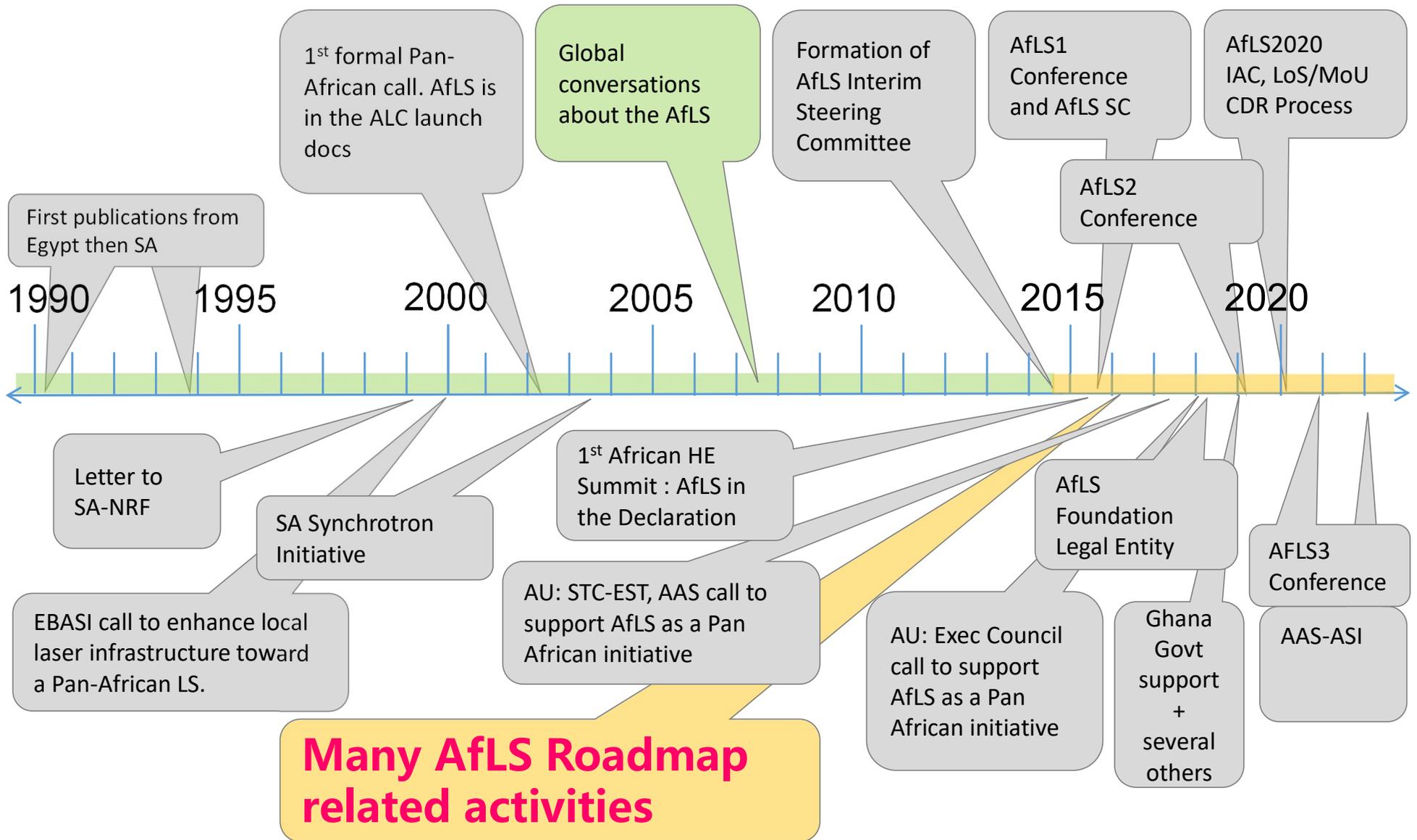
Student registered as full-time Ph.D. student and supervised by the Faculty member.

Categories

Continuing and **New** applications are considered.

Financial Support

LAAAMP provides **2,000 Euros per person** to cover transportation and (partially) accommodation costs. The remainder of accommodation and subsistence should be negotiated with the host AdLS and other sources of support.



LAAAMP Executive Committee

Director of Fundraising of 2025



Sekazi Mtingwa (Chair)
IUPAP delegate

Director of Synchrotron Training
TriSEED Consultants, LLC, Hillsborough, NC, USA



Graciela Diaz de Delgado
IUCr delegate

tbd
Universidad de Los Andes, Mérida, Venezuela



Sandro Scandolo
ICTP delegate

**Director of Finance and
Co-Manager of Social Media**
Abdus Salam International Centre for Theoretical
Physics (ICTP), Trieste, Italy



Marielle Agbahoungbata

Coordinator of X-TechLab
Coordinator, X-TechLab, Cotonou, Benin



Özgül Öztürk

**Director of High School Programs
and Co-Manager of Social Media**
University of Siegen, Germany
Chair of SESAME Users' Committee



Michele Zema

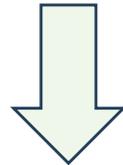
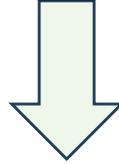
**Director of Crystallography Training
and Manager of Website**
University of Bari, Italy

Chair of 2025

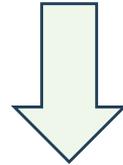


Vice Chair of 2025

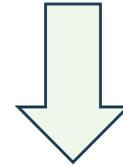
**Exiting
Projects**



**More AdLS
Partners?**



**More
Funding?**



**More Union
Partners?**

LAAAMP > Structure > Partnering Advanced Light Sources (AdLSs)

Advanced Light Source, Lawrence Berkeley National Lab (Berkeley, CA, USA)

Advanced Photon Source, Argonne National Lab (~Chicago, USA)

ALBA Light Source (Barcelona, Spain)

Australian Synchrotron, Australian Nuclear Science & Tech Org. (~Melbourne)

Canadian Light Source (Saskatoon, Canada)

DELTA Light Source (Dortmund, Germany)

Elettra Light Source (Trieste, Italy)

European Synchrotron Radiation Facility (ESRF) (Grenoble, France)

MAX IV Laboratory (Lund, Sweden)

National Synchrotron Light Source-II, Brookhaven Nat'l Lab (Long Is, NY, USA)

Photon Factory, Institute of Materials Structure Science, KEK (Tsukuba, Japan)

Pohang Accelerator Laboratory (Gyeongbuk, South Korea)

SESAME Light Source (Allan, Jordan)

Siam Photon Source, Synchrotron Light Res. Inst. (Nakhon Ratchasima, Thailand)

Sirius Light Source (Campinas, Brazil)

SLAC National Accelerator Laboratory (Stanford University, USA)

Taiwan Photon Source, Nat'l Synchrotron Radiation Res. Ctr. (Hsinchu, CPS Taipei, China)

Shanghai Synchrotron Radiation Facility (SSRF) (Shanghai, China)?

14 Mar
2025

Welcome to new LAAAMP Partner

SSRF

Shanghai Synchrotron Radiation Facility

NEW PARTNER

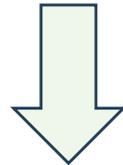
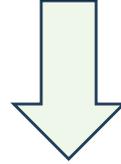
We are pleased to announce that the **Shanghai Synchrotron Radiation Facility** (SSRF) has officially joined *LAAAMP* as a new [AdLS partnering institution](#), providing another valuable opportunity for FAST Teams.



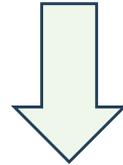
Prof. Er Jia Guo, Secretary of C13

[\(LAAAMP\) Home](#)

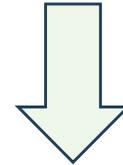
**Exiting
Projects**



**More AdLS
Partners?**

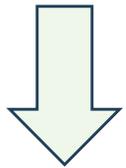


**More
Funding?**

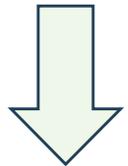


**More Union
Partners?**

The International Union of
Pure and Applied Physics



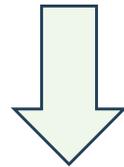
**5 K
Eruos**



**7.5 K
Eruos**



The International Union
of Crystallography



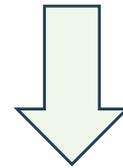
**5 K
Eruos**



<https://laaamp.iucr.org/>



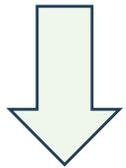
The Abdus Salam International
Centre
for Theoretical Physics



**5 K
Eruos**



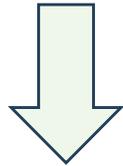
The International Union of
Pure and Applied Physics



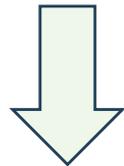
**7.5 K
Eruos**



The International Union
of Crystallography



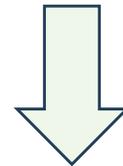
**5 K
Eruos**



<https://laaamp.iucr.org/>



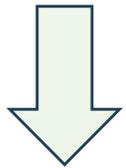
The Abdus Salam International
Centre
for Theoretical Physics



**5 K
Eruos**

Graciela: The IUCr could not increase the level of support for this year due to financial constraints. IUCr income depends heavily on income from the publications and this income has suffered in recent years.

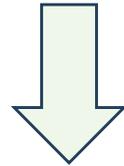
The International Union of
Pure and Applied Physics



**7.5 K
Eruos**



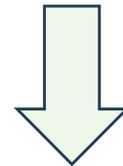
The International Union
of Crystallography



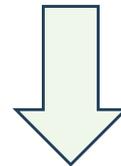
**5 K
Eruos**



The Abdus Salam International
Centre
for Theoretical Physics



**5 K
Eruos**



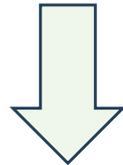
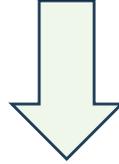
**ICTP plans to increase to 10K as soon as they can
(overcoming some financial issues)**



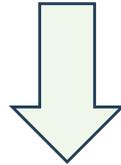
<https://laaamp.iucr.org/>



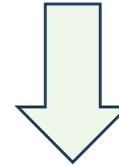
**Exiting
Projects**



**More
partners?**



**More
Funding?**



**More
Unions?**

IUPAB JOINS *LAAAMP*

We are happy to welcome [IUPAB](#) (International Union for Pure and Applied Biophysics) as a new partner in the *LAAAMP* community.



Biophysics plays a critical role in advancing health, materials, and life sciences — and the synergy with light sources and accelerator-based techniques opens exciting avenues for impactful research and training.

It is also a pleasure to announce that **Dr Christina Sizun** has been nominated as the IUPAB representative on the *LAAAMP* Executive Committee. Her expertise and leadership will be a great asset in furthering our shared mission to broaden access to advanced photon and neutron facilities worldwide.

We look forward to working together with IUPAB to strengthen our global network and support emerging communities in science and technology.

Posted 21 May 2025



With the great effort made by Silvina Ponce Dawson

21 May
2025



IUPAB JOINS *LAAAMP*

We are happy to welcome [IUPAB](#)
(International Union for Pure and Applied
Biophysics) as a new partner in the
LAAAMP community.

[\(LAAAMP\) Home](#)



Work with Silvina, Sandro, Joe, and Sekazi

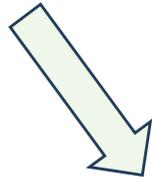


International Science Council



IUPAC

International Union of Pure and Applied Chemistry



IUPAB

International Union for Pure and Applied Biophysics

Processing

Prof. Michele Zema has sent the invitation letter to Ehud, but, Ehud hasn't replied yet. I also sent an email to Ehud asking for being informed?

Done 5K



Silvina Ponce Dawson



Work with Silvina, Sandro, Joe, and Sekazi



International Science Council



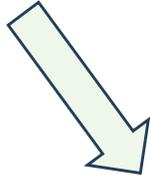
IUBS

International Union of Biological Sciences



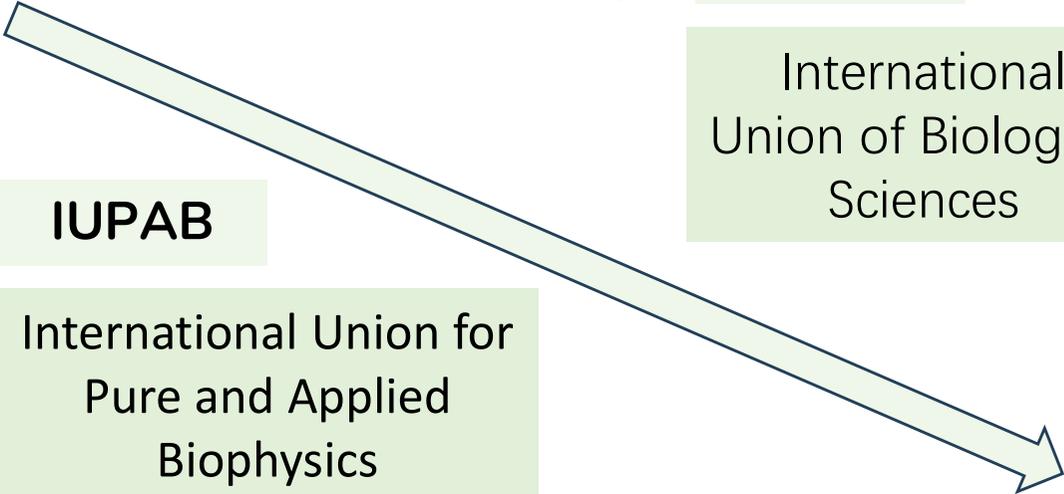
IUPAC

International Union of Pure and Applied Chemistry



IUPAB

International Union for Pure and Applied Biophysics

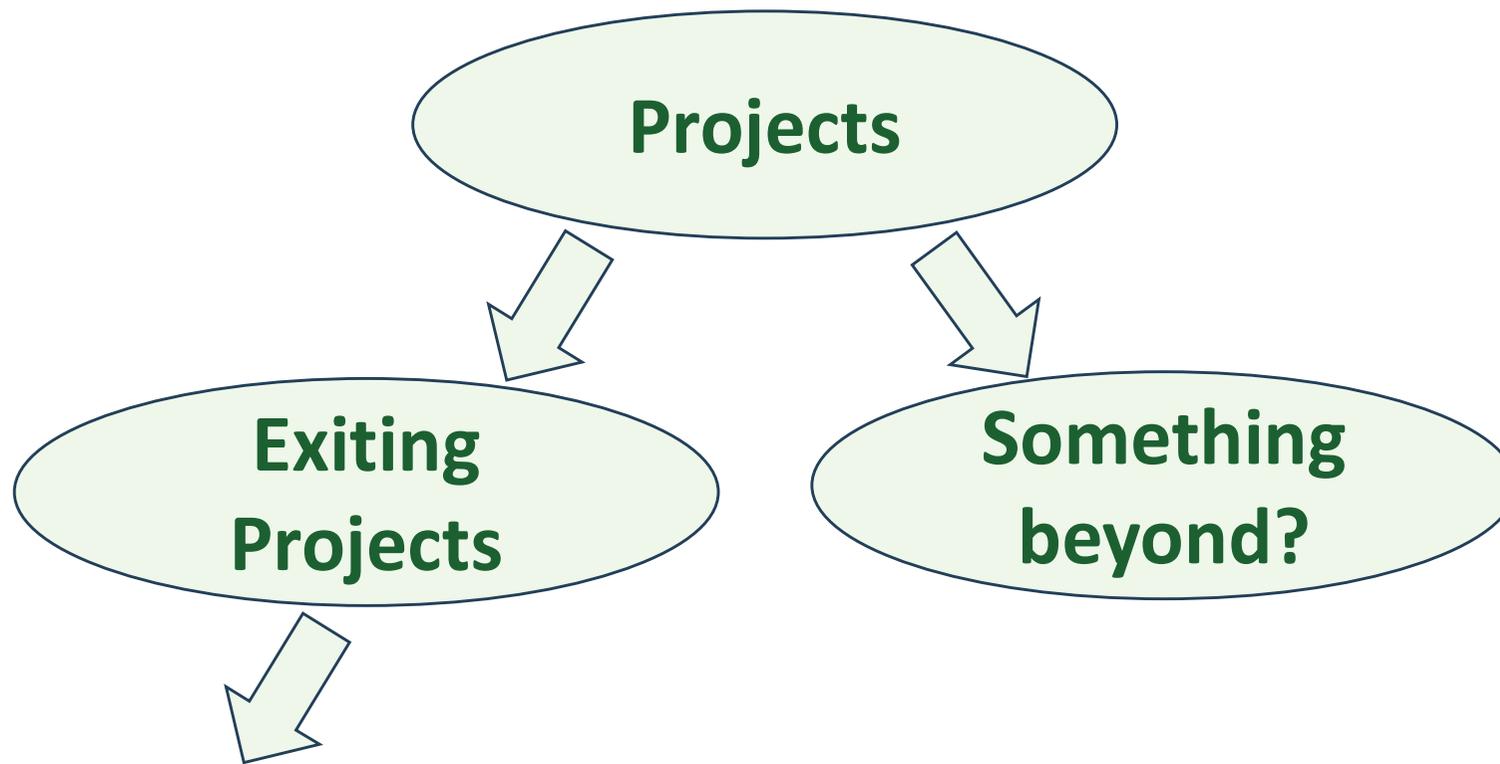


IUBMB

International Union of Biochemistry and Molecular Biology

Processing
Prof. Michele Zema has sent the invitation letter to Ehud, but, Ehud hasn't replied yet. I also sent an email to Ehud asking for being informed?

Done 5K



Projects

**Exiting
Projects**

**Something
beyond?**



**a photo
competition
for IQY?**

IDSSD?

Youth@STEM4SF?

**International Decade of Sciences
for Sustainable Development**

IYQ2025: Photo Contest and IUPAP/UNESCO Colloquia on Physics for Society and news about rejuvenation task force and related matters.

- **Photo contest: Michel will contact C17 for photo contest appointment representative.**
- **September 14th UNESCO colloquium: Sandro coordinating with Christine Darve and industry contacts to organize it. Focus is on securing participation from companies in the industry.**



**Strongly rely on the cooperation with
associate/commissions/working groups!**

**Thank you for your attention!
Any suggestions/comments are appreciated!**