



CIMPA

Centre International
de Mathématiques Pures et Appliquées



2024

**PROVISIONAL
ANNUAL REPORT**

www.cimpa.info

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FOREWORD

“It is a pleasure to write the introduction to the 2024 CIMPA annual report. The report highlights many interesting activities of the year, the CIMPA research schools, schools in partnership, special courses, CIMPA fellowships, our participation in special events and our partners. It showcases our focus on promoting growth in mathematics and opportunities for young mathematicians, particularly in the developing world.



CIMPA receives substantial support from European countries enabling it to run the programme and it is a pleasure to acknowledge and thank them here: France, Spain, Norway, Switzerland and Germany. We gratefully acknowledge the substantial contribution made by Université Côte d’Azur, where CIMPA is based. For particular activities we receive generous support from other organisations too, and they are acknowledged in the report. A key to our success is the support by universities and countries where our schools are held, and most especially by many who contribute to the value and strength of the programme, including the scientific council, the steering committee and the organisers, teachers and instructors for the schools and courses.

At the 2024 General Assembly a new team of individual members for the Governing Board was elected. For those of us completing our term, Annie Raoult, Viet Dung Nguyen, Fatima Aboud, Servet Martinez and myself, it has been a special privilege to contribute to CIMPA. We wish the new team a successful journey as Governing Board members, working with Christophe Ritzenthaler, the Executive Director and the staff, Agnès Gomez and Héla Lamiri at the CIMPA office in Nice. Personally, serving on the CIMPA Governing Board has been a highlight, most of all the many people I have met and worked with from all over the world, who contribute to CIMPA’s mathematics development programme.”

BARRY GREEN - PRESIDENT

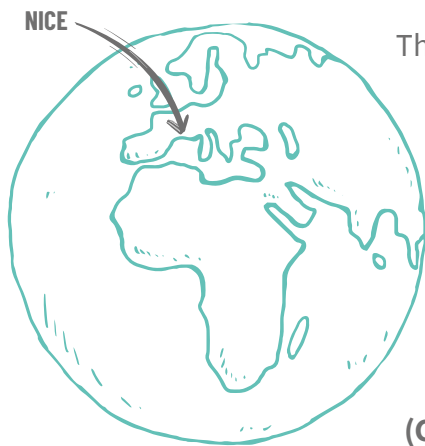


“One of my great joys in working for CIMPA is to be in contact with so many colleagues who are open to the world and generous with their time and effort: their energy is contagious, and while they are well aware of the world’s problems, they never give up. In this group, I, of course, include the members of the Executive Committee, who have accompanied my first steps as director with kindness and listened to my ideas with great foresight. I salute outgoing members Barry, Annie and Dung with friendship and immense respect for their work, and will fortunately collaborate further with Joachim during my second term. I also look forward to starting with the new team, which will be finalized in January, and which will bring to CIMPA the benefit of its experience and new ideas.”

CHRISTOPHE RITZENTHALER - EXECUTIVE DIRECTOR

WHO WE ARE

ABOUT US



The Centre international de mathématiques pures et appliquées (CIMPA), founded in France in 1978, is a non-profit organisation that promotes international research in mathematics and its interactions in cooperation with developing countries and contributes to the training of mathematicians in developing countries.

It is situated in Nice, is a **UNESCO Category 2** Centre and is part of the Centre d'accueil et de rencontres mathématiques internationales (**CARMIN laboratory of excellence**). It benefits from the financial support of **France, Germany, Norway, Spain and Switzerland**.

CIMPA co-organises and sponsors numerous activities in **developing countries on all continents**. Each activity is funded through a process of calls for proposals in one of the following categories:



CIMPA SCHOOLS



CIMPA COURSES



CIMPA FELLOWSHIPS



RESEARCH
IN PAIRS PROGRAMME

CIMPA also strongly supports activities developed in close collaboration **with continental mathematical unions**, such as Schools in Partnership, the purpose of which is to introduce undergraduate and master's students to research in mathematics.

CIMPA, SINCE ITS CREATION

FOUNDED IN
1978

LOCATED IN
NICE
FRANCE



ADMINISTRATION

13
MEMBERS
OF THE EXECUTIVE
TEAM

14
A GOVERNING BOARD OF
7 INDIVIDUAL MEMBERS
AND 7 INSTITUTIONAL
MEMBERS

12
MEMBERS OF THE
SCIENTIFIC COUNCIL

37
A STEERING COUNCIL OF
18 INDIVIDUAL MEMBERS
AND 19 INSTITUTIONAL
MEMBERS

2
ADMINISTRATIVE AND
COMMUNICATION SUPPORT

155
CIMPA MEMBERS

A WORLDWIDE PARTNER
NETWORK OF ORGANISATIONS
AND ACADEMIC INSTITUTIONS



ACTIVITIES

EACH YEAR, MORE THAN
1000 PARTICIPANTS ATTEND
CIMPA SCHOOLS

ACTIVITIES IN MORE THAN
100 COUNTRIES
IN THE WORLD



COMMUNICATION

PRESENT ON 4 SOCIAL
NETWORKS



A YOUTUBE CHANNEL
CIMPA MATH



A WEBSITE
WWW.CIMPA.INFO



BUDGET ABOUT
€800k
PER YEAR

AN INTERVIEW WITH CHRISTOPHE RITZENTHALER, DIRECTOR OF CIMPA



BALANCE SHEET

WHAT LESSONS HAVE YOU LEARNED FROM YOUR FIRST TERM AT CIMPA?

There have been two periods in my mandate: the COVID period and then a return to normality. During the first two years, we were able to observe the resilience of CIMPA driven by the attachment of our colleagues to our activities. It was also an opportunity to set up new activities, in particular the CIMPA-ICTP Research in Pairs Grant, and for all of us to get to grips with the work, teachings and online meetings.

My initial enthusiasm for digital tools has faded a little. On the one hand, their use is now perfectly integrated into our daily life at CIMPA: we don't really realize it anymore, but in the past, the lack of a visa, a family or professional impediment would mean part of a school's programme would fall through. This is no longer necessarily the case and this is a good thing, especially in a world that is becoming more complicated. We also regularly use these technologies during the CIMPA mini-courses, which are recorded and broadcast during Research in Pairs stays and which sometimes meet with a large audience. So there is a demand for this format of activities!

On the other hand, we must not hide from the fact that despite technical progress and better connections, this remains a degraded form of interaction, if only because we do not free up time in this context and that it is often superimposed on other obligations. We should only use it as a last resort, especially with communities that are already suffering from relative isolation.

In the second phase of my first term, I was able to go to the field more often, each time with great happiness and admiration for the work of my colleagues during our events. I was also able to measure how much the investments of CIMPA for more than 40 years have marked the community: it is rare to meet a colleague who did not participate in a school in his or her youth and who does not remember it with emotion!

**I MEASURE HOW MUCH
THE INVESTMENTS OF CIMPA
FOR MORE THAN 40 YEARS HAVE
MARKED THE COMMUNITY**

Finally, I have been able to observe in many countries the same concerns that we encounter in France: the growing disinterest of young people in mathematics, the financial disengagement of states from research, the race for publications and its excesses or the forced march towards a few thematic niches driven by a short-term vision. CIMPA is also there to remind us that what makes mathematics strong is its unity and that we support mathematics as a whole.



VISION AND FLAGSHIP PROJECTS

WHAT ARE THE PRIORITY PROJECTS OR INITIATIVES THAT YOU WANT TO DEVELOP OR CONSOLIDATE OVER THE NEXT FOUR YEARS?

First of all, I must specify that what will happen during my second term must first be discussed and approved by the next Governing Board: according to our statutes, the policy of the CIMPA emanates from the current president. In practice, I have had a lot of pleasure working together with the outgoing board and I am sure that we will be able to work in the same spirit with the new team.

It seems essential to further strengthen the continuity of our offers. While CIMPA Schools and Schools in Partnerships are an entry point into international research for our participants, a point of contact with researchers from all over the world, the door should not be closed at the end of the event. We need to be able to identify the participants based in developing countries and the most research-motivated and be ready to support them during their careers.

The CIMPA-ICTP Research in Pairs Grant is the right tool for our most advanced colleagues. We now need to propose mechanisms for the intermediate stages (master's, PhD theses, post-docs). The extension of CIMPA fellowships into new centres contributes to this, by offering a longer immersion in research.

On an experimental basis, we have also been offering small scholarships at the end of some of our schools for a few years now, and I hope to be able to perpetuate this scheme that benefits laureates and facilitates their integration into the community. Having a visible community of "CIMPA alumni" would be a great way to promote the impact of our activities.



Three laureates of the IHP trimester "Post-Quantum Algebraic Cryptography" (September 9 - December 13, 2024), who also attended a CIMPA school prior to their selection.



Abdulhakeem Yusuf, laureate of the CIMPA-ICTP Research in Pairs Grant, during his collaborative stay in France.



INTERNATIONAL COLLABORATION

HOW DO YOU PLAN TO STRENGTHEN CIMPA'S INTERNATIONAL COLLABORATION AND OUTREACH?

CIMPA is not the only actor in mathematical research with developing countries. Although we are sometimes competing for project grants, we are part of the same effort and it is important to coordinate to maximize the impact and facilitate the work of our colleagues. It was with this in mind that I brought together representatives of CIRM, EMS-CDC, ICTP, IMU-CDC, LMS and ISP to discuss our actions. This is also why I believe it is important to attend the annual meetings of our partners, whether within the EMS-CDC, the Labex Carmin or ERCOM, of which CIMPA has been the president since 2024.

We also work through our communication to make CIMPA known to new colleagues and to facilitate their integration into our events. CIMPA's influence in the community also relies on its unique nature: we are not a funding agency. Our Scientific Council and our Steering Council provide valuable advice to the organisers of our events. Our presence on the field through the Scientific Officers is unparalleled in other agencies and gives a human face to our involvement. I hope that the new executive team will be able to prove once again the strength of CIMPA's commitment to our colleagues in the Global South. This professionalism, also supported by the administrative team, whose responsiveness is admired and envied, will allow us to maintain the confidence of our Member States and to win new sponsors.



↑ Members of the Committee for Developing Countries of the European Mathematical Society (EMS), April 2024.



ENVIRONMENT AND SUSTAINABILITY

IN A GLOBAL CONTEXT WHERE SUSTAINABILITY IS A MAJOR ISSUE, HOW DO YOU THINK CIMPA COULD INTEGRATE MORE RESPONSIBLE PRACTICES INTO ITS ACTIVITIES AND PROJECTS?

CIMPA now alternates between online and in-person/hybrid administrative meetings to limit the ecological costs of transport for these events.

But the flights of participants and colleagues to get to CIMPA's scientific activities will remain an incompressible "carbon" expense. It would seem unfair that an ecological policy, which is undeniably necessary for our planet, should restrict scientific exchanges in the first place... especially towards the developing countries which are notoriously the least energy-intensive and which are just beginning to integrate into the international community.



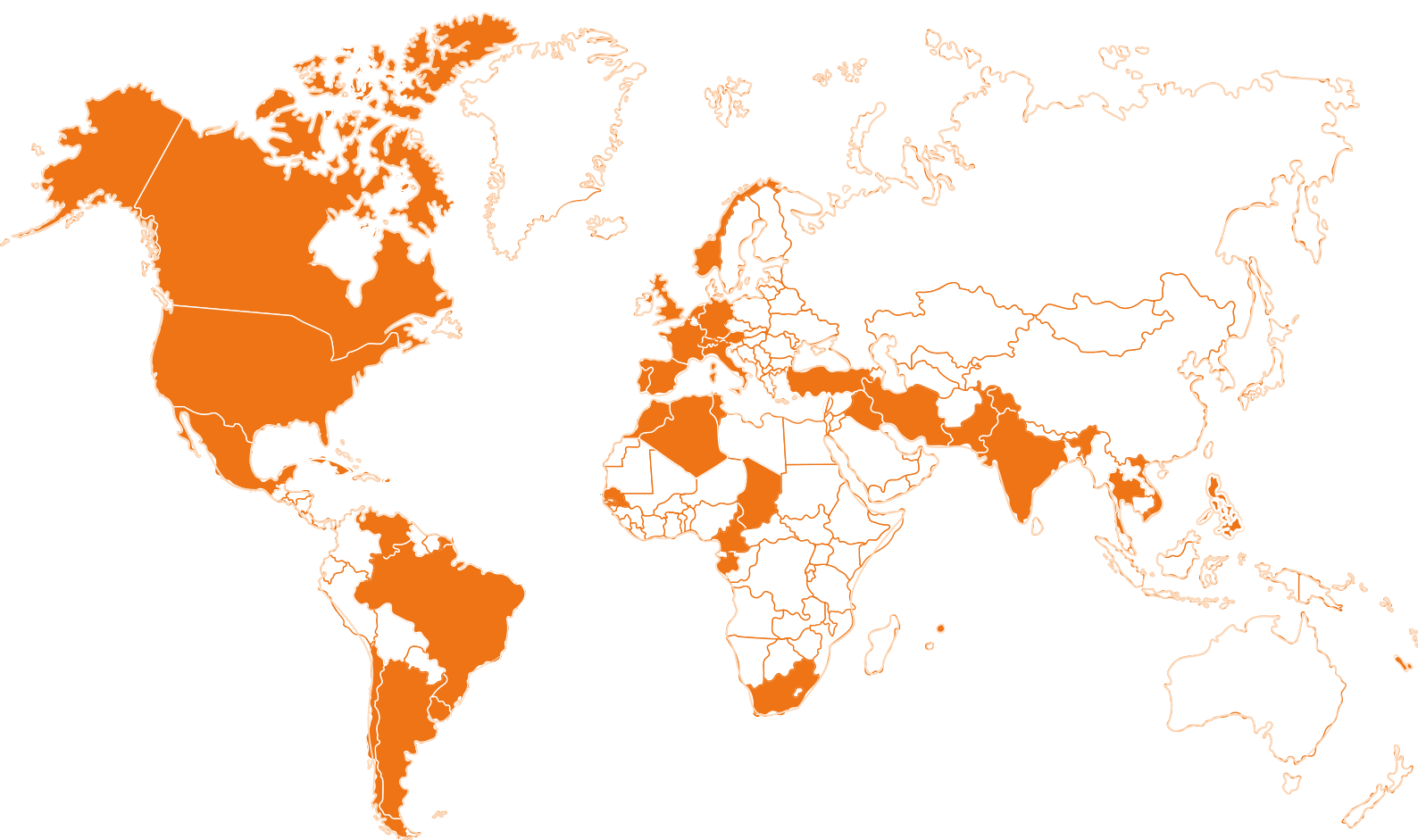
↑ Inaugural Ceremony, Bangladesh, May 2022

CIMPA therefore prefers to work to maximize the impact of each of these trips: whether by extending the duration of the laureates' stays as much as possible (a minimum of one month for CIMPA Fellowships, 6 weeks for Research in Pairs) or the participation of speakers in our schools. Thus, no one travels to give a one-hour presentation, we impose a minimum of 6 hours of activities. Remember that our colleagues are volunteers and that they often find their own funding for their plane ticket/stay. It is therefore a big effort that is being asked of them, very "progressive" compared to the standards of other scientific events. In this context, the participation of each speaker is a strong signal of their commitment, and this is reflected in the incredible welcome they receive on site. It is thanks to the generosity of our scientific community that our association with its limited financial resources can achieve so much.

GOVERNANCE & ADMINISTRATION

One of CIMPA's specificities lies in the **diversity of its members in all its bodies. They come from all over the world, and a significant proportion are from developing countries.** This diverse membership is a crucial asset for CIMPA in fulfilling its core mission of promoting mathematical research with developing countries.

The active involvement of these colleagues, with a broad spectrum of experience and knowledge, **strengthens the impact of CIMPA's actions by bringing multiple perspectives that are adapted to and directly rooted in the specific circumstances of these regions.**



GOVERNING BOARD



Barry Green
PRESIDENT
University of
Stellenbosch,
SOUTH AFRICA



Annie Raoul
VICE-PRESIDENT
Université
Paris-Cité,
FRANCE



Joachim Yameogo
TREASURER
Université
Côte d'Azur,
FRANCE



Viet Dung Nguyen
SECRETARY
Vietnam Academy
of Science and
Technology, VIETNAM



Fatima Aboud
University of Diyala,
IRAQ



Servet Martinez
Universidad
de Chile, CHILE



Rahim Zaare-Nahandi
University of Tehran,
IRAN



INSTITUTIONAL MEMBERS

Bundesministerium für Bildung und Forschung (BMBF), GERMANY
Délégation aux affaires européennes et internationales (DAEI), FRANCE
Direction générale de la recherche et de l'innovation (DGRI), FRANCE
Ministerio de Ciencia, Innovación y Universidades, SPAIN
Norwegian Ministry of Education and Research, NORWAY
UNESCO
Université Côte d'Azur, FRANCE

SCIENTIFIC COUNCIL

The Scientific Council is comprised of 12 members.
It makes recommendations on CIMPA's scientific activities.



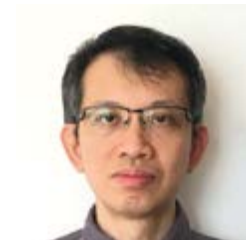
Giulia Di Nunno
PRESIDENT
University of Oslo,
NORWAY



Volker Bach
Technische
Universität
Braunschweig,
GERMANY



Mohamed Boucetta
Université
Cadi-Ayad,
MOROCCO



Tien-Cuong Dinh
National University
of Singapore,
SINGAPORE



Laura Geatti
Università di Roma
Tor Vergata,
ITALY



Henar Herrero Sanz
Universidad de
Castilla-La Mancha,
SPAIN



**Mahouton Norbert
Hounkonnou**
Université
d'Abomey-Calavi,
BENIN



**Yoshiharu
Kohayakawa**
Universidade
de São Paulo,
BRAZIL



Teresa Krick
Universidad de
Buenos Aires,
ARGENTINA



Gabriel Peyré
École normale
supérieure de Paris,
FRANCE



Mythily Ramaswamy
ICTS-TIFR,
INDIA



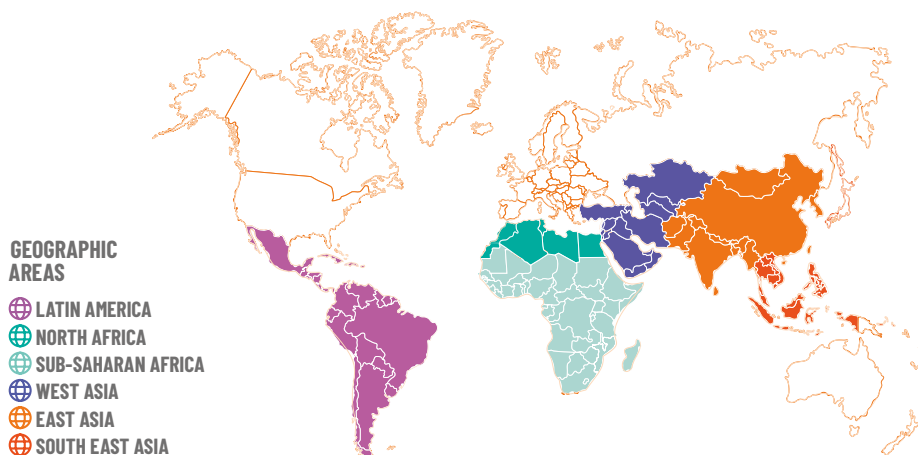
Sara Van de Geer
ETH Zurich,
SWITZERLAND

NEW EXECUTIVE TEAM

CIMPA's Executive Team consists of an Executive Director, a group of Scientific Officers and Administrative and Communication Staff.

The Executive Director, who is responsible for the day-to-day running of CIMPA, benefits from the expertise of the Scientific Officers, who act as **consultants for geographical areas and other important issues.**

This year, new Scientific Officers have embraced this role with enthusiasm and commitment, ready to contribute to the development of our mission and strengthen our impact. During their term, they will play a key role in the scientific direction of CIMPA.



EXECUTIVE DIRECTOR & SCIENTIFIC OFFICERS



Christophe Ritzenthaler
EXECUTIVE DIRECTOR
Université Côte d'Azur,
FRANCE



Sidi-Mahmoud Kaber
Sorbonne University,
FRANCE
 AFRICA



Diletta Martinelli
University of
Amsterdam,
NETHERLANDS
 EAST AFRICA
 SOUTH EAST ASIA



Mohameden Ahmedou
University of Giessen,
GERMANY
 NORTH AFRICA
 WEST ASIA



Ulrich Krähmer
Technische
Universität Dresden,
GERMANY
 SUB-SAHARAN AFRICA
 WEST ASIA



Olivier Ramaré
CNRS / University of
Aix-Marseille, FRANCE
 ASIA



Clementa Alonso Gonzalez
University of Alicante,
SPAIN
 LATIN AMERICA
 WEST ASIA



Elisa Lorenzo García
University of
Neuchâtel,
SWITZERLAND
 LATIN AMERICA
 WEST ASIA



Suzanne Touzeau
Institut Sophia
Agrobiotech, FRANCE
 AFRICA



Nicolas Bédaride
Aix-Marseille
University, FRANCE
 AFRICA



Solym Manou-Abi
Université de Poitiers,
FRANCE
 AFRICA

STAFF

Agnès Gomez
EXECUTIVE SECRETARY

Héla Lamiri
COMMUNICATION OFFICER

STEERING COUNCIL

The Steering Council draws up CIMPA's medium- and long-term scientific strategy. **It offers policy guidance, suggests priorities and makes recommendations.** Every year, it designs the programme for the CIMPA Schools and other activities, based on the recommendations of the Scientific Council.



INDIVIDUAL MEMBERS



Barry Green
PRESIDENT
University of Stellenbosch,
SOUTH AFRICA

Annie Raoul
VICE-PRESIDENT
Université Paris-Cité,
FRANCE

Joachim Yameogo
TREASURER
Université
Côte d'Azur,
FRANCE

Viet Dung Nguyen
SECRETARY
Vietnam Academy
of Science and
Technology, VIETNAM

Fatima Aboud
University of Diyala,
IRAQ

Servet Martinez
Universidad
de Chile, CHILE

**Rahim
Zaare-Nahandi**
University of Tehran,
IRAN



All the members of the Executive team



INSTITUTIONAL MEMBERS

Académie des sciences, FRANCE

**Comisión Nacional Española
de Cooperación con la UNESCO**, SPAIN

Comité Español de Matemáticas
(CEMAT), SPAIN

**Commission nationale française
pour l'UNESCO**, FRANCE

Deutsche Mathematiker-Vereinigung (DMV),
GERMANY

Deutsches Elektronen-Synchrotron (DESY),
GERMANY

**Gesellschaft für Angewandte Mathematik
und Mechanik (GAMM)**, GERMANY

**Institut national de recherches
en sciences & technologies du numérique**
(INRIA), FRANCE

**Institut national des sciences
mathématiques et de leurs interactions**
(INSMI-CNRS), FRANCE

Norwegian Mathematical Society, (two seats)
NORWAY

Real Sociedad Matemática Española (RSME),
SPAIN

**Sociedad de Estadística e Investigación
Operativa (SEIO)**, SPAIN

Sociedad Española de Matemática Aplicada
(SEMA), SPAIN

Societat Catalana de Matemàtiques (SCM),
SPAIN

**Société de mathématiques appliquées
et industrielles (SMAI)**, FRANCE

Société Française de Statistique (SFdS),
FRANCE

Société mathématique de France (SMF),
FRANCE

Swiss Mathematical Society (SMS),
SWITZERLAND

Université de Neuchâtel, SWITZERLAND

LIST OF PARTNERS

The primary partners of CIMPA are the institutional members of the Steering Council, which develops the strategy and the scientific policy of CIMPA:

Académie des sciences, FRANCE
Comisión Española de Cooperación con la UNESCO, SPAIN
Comité Español de Matemáticas (CEMAT), SPAIN
Commission nationale française pour l'UNESCO, FRANCE
Deutsche Mathematiker-Vereinigung (DMV), GERMANY
Deutsches Elektronen-Synchrotron (DESY), GERMANY
Gesellschaft für Angewandte Mathematik und Mechanik (GAMM), GERMANY
Institut national de recherches en sciences et technologies du numérique (Inria), FRANCE
Institut national des sciences mathématiques et de leurs interactions (INSMI-CNRS), FRANCE
Norwegian Mathematical Society, NORWAY
Real Sociedad Matemática Española (RSME), SPAIN
Sociedad de Estadística e Investigación Operativa (SEIO), SPAIN
Sociedad Española de Matemática Aplicada (SEMA), SPAIN
Societat Catalana de Matemàtiques (SCM), SPAIN
Société de mathématiques appliquées et industrielles (SMAI), FRANCE
Société française de statistique (SFdS), FRANCE
Société mathématique de France (SMF), FRANCE
Swiss Mathematical Society (SMS), SWITZERLAND
Université de Neuchâtel, SWITZERLAND

Being part of the French laboratory of excellence CARMIN (Centre d'accueil et de rencontres mathématiques internationales), CIMPA works in close collaboration with the three other CARMIN members:

Centre international de rencontres mathématiques (CIRM), FRANCE
Institut des hautes études scientifiques (IHES), FRANCE
Institut Henri Poincaré (IHP), FRANCE

CIMPA has signed agreements of cooperation with several institutions:

Académie Hassan II des Sciences et Techniques, MOROCCO
Centre Bernoulli, SWITZERLAND
Centre de Recerca Matemàtica, SPAIN
Forschungsinstitut für Mathematik, SWITZERLAND
Institut national de recherches en sciences et technologies du numérique (Inria), FRANCE
École Nationale Supérieure de Mathématiques, ALGERIA
Laboratoire de Modélisation, Mathématiques, Informatique, Applications et Simulation (L2MIAS), CHAD
Lie-Størmer Center, NORWAY
Mathematisches Forschungsinstitut Oberwolfach, GERMANY
Nesin Mathematics Village, TURKEY
Pacific Institute for the Mathematical Sciences (PIMS), CANADA
SwissMAP, SWITZERLAND
Université Côte d'Azur, FRANCE

Most of CIMPA's activities benefit from close ties established by CIMPA with the following international organisations:

Agence Universitaire de la Francophonie (AUF)

Commission for Developing Countries of the International Mathematical Union (IMU-CDC)

Committee for Developing Countries of the European Mathematical Society (EMS-CDC)

International Centre for Theoretical Physics (ICTP), ITALY

Close partners of CIMPA also include several continental mathematical unions and committees, for example through the funding of Schools in Partnership:

Asian and European Schools in Mathematics (AESIM)

African Mathematical Union (AMU)

South East Asian Mathematical Society (SEAMS)

Unión Matemática de América Latina y el Caribe (UMALCA)

Other CIMPA partners:

African Institute for Mathematical Sciences (AIMS)

Association pour la Promotion Scientifique de l'Afrique (APSA)

Centro de Modelamiento Matemático (CMM), CHILE

**Colloque Africain sur la Recherche en Informatique
et Mathématiques Appliquées (CARI)**

Comité National Français des Mathématiciens (CNFM), FRANCE

European Mathematical Society (EMS)

Institut de recherche pour le développement (IRD), FRANCE

International Mathematical Union (IMU)

International Council for Industrial and Applied Mathematics (ICIAM)

Koninklijk Wiskundig Genootschap (KWG), THE NEDERLANDS

Mathrice

Simons Foundation, USA

**Soutien aux Activités de Recherche en Informatique et Mathématique
en Afrique (SARIMA)**

UNESCO



European
Congress of
Mathematics,
July 2024



2024 HIGHLIGHTS

GIVING A HELPING HAND: ANCILLARY INITIATIVES IN MATHEMATICS

Over the past three years, due to the decrease of core activities during and after Covid, CIMPA has supported 30 initiatives in addition to its annual calls. The year 2024, which marks the end of these extra supports, was particularly dynamic, as shown by the following actions.

In 2024, CIMPA strengthened its commitment to gender equality through the funding of various international initiatives. Among these was the *Inaugural African Women in Algebra Workshop* held at Kabale University, Uganda. This event brought together female algebraists from 13 African countries, featuring research talks, collaborative sessions, and networking, with over 218 participants attending the opening ceremony. Other events included the *Women in Sage Burundi Workshop* and *Women in Commutative Algebra III* in Mexico. CIMPA also supported diversity and scientific collaboration through projects like *Diversity in Finite Fields* and *Coding Theory* in Brazil.

It also invested in training in developing countries, notably through the *Baol Training School of Mathematics* in Senegal and the *M2PSAV Master's Programme* in Abidjan.

CIMPA is proud to have been a partner of the first chair *Pays du Sud*, initiated by Pascal Hubert, Director of CIRM. This chair, centered on the theme of *Surface Geometry and Dynamics*, enabled Maseye Gaye, professor at Cheikh Anta Diop University in Dakar (Senegal),



↑ Group photo from the *Women in Sage* workshop held at the University of Burundi, September 2024.

and Jean-François Quint, director of research at the CNRS (University of Montpellier, France), to collaborate for a thematic month at CIRM which included a Research school and visits by several young researchers from developing countries for the full period.

← Maseye Gaye and Jean-François Quint, laureates of the “Pays du Sud” Chair at CIRM, June 2024.



HIGHLIGHTS WITH OUR PARTNERS

A year marked by key events and the creation of new partnerships.

★ KEY EVENTS ★

ERCOM ANNUAL MEETING

📅 DATES AND LOCATION: March 22-23, 2024 — 📍 Edinburgh, United Kingdom

🏠 ORGANISED BY: International Centre for Mathematical Sciences (ICMS)

The ERCOM Annual Meeting brought together the leading mathematical research centres in Europe to discuss initiatives supporting developing countries.

🔍 FOCUS: This year, a session dedicated to developing countries was organised by Pascal Hubert and Christophe Ritzenthaler. Various speakers gave the audience of directors and administrative heads of European research centres a better understanding of the initiatives in place and the challenges they face.

EMS-CDC MEETING

📅 DATES AND LOCATION: April 11-13, 2024 — 📍 Helsinki, Finland

🏠 ORGANISED BY: European Mathematical Society (EMS)

🔍 FOCUS: This meeting provided a platform to connect with other actors working with developing countries, discuss issues, exchange the latest news and suggest joint actions.



← Laureates of the ECM scholarship, awarded to researchers from developing countries to support their participation in the congress.

9TH EUROPEAN CONGRESS OF MATHEMATICS (ECM)

📅 DATES AND LOCATION: July 15-19, 2024 — 📍 Seville, Spain

🏠 ORGANISED BY: European Mathematical Society (EMS)

The Congress brought together 1,400 participants from 70 countries, providing an outstanding platform for research, education, and international collaborations.

🔍 FOCUS:

- Active participation in the ECM scholarship selection committee, enabling researchers from developing countries to attend the congress.
- Co-organisation of the mini-symposium "*Shared Horizons: collaborations between Europe and the Global South*", in collaboration with CIRM, EMS-CDC, ICTP, ISP, and LMS. The symposium provided an opportunity for researchers from developing countries to present their scientific work and share their views on the mathematical research in their region.



NEW COLLABORATIONS



BERNOULLI CENTRE, LAUSANNE, SWITZERLAND

In 2024, CIMPA signed an agreement with the Bernoulli Centre aiming to offer to young researchers, especially PhD students and early-career researchers, the opportunity to participate in intensive research programmes lasting 4 to 9 weeks. The laureates will be able to strengthen their skills and broaden their academic prospects in a prestigious environment. Despite the short timeline, we have already launched three fellowships programmes for 2025.



LIE-STØRMER CENTER, TROMSØ, NORWAY

Through this collaboration, CIMPA supports researchers from developing regions with advanced training courses and collaborative projects, blending online learning with in-person research opportunities.

These new collaborations offer our laureates the opportunity to spend time with the international community, to collaborate and to learn over an extended period of time, much longer than that offered by a CIMPA school.



With heartfelt gratitude, I want to extend my deepest appreciation to CIMPA for your unwavering support throughout my academic journey and for granting me the prestigious honor of being selected as a Laureate of the Lie Størmer – CIMPA Fellowship. Your generous sponsorship has enabled me to partake in transformative international experiences, each weaving a unique thread in the tapestry of my academic odyssey. CIMPA's steadfast dedication to nurturing academic growth and fostering global collaborations has profoundly shaped my trajectory, expanding my horizons in ways beyond measure.

I am particularly indebted to CIMPA for the pivotal role played in my academic path. The CIMPA Research School on Combinatorial and Computational Algebraic Geometry, hosted at my alma mater, the University of Ibadan, Oyo State, Nigeria, from 11–24 June 2017, was the catalyst for defining my PhD topic. This foundational experience laid the groundwork for my future research endeavors and academic pursuits.

The invaluable opportunities and enduring impact that CIMPA has bestowed upon me resonate deeply, and I am truly grateful for the doors opened, the knowledge shared, and the collaborations fostered through your unwavering support. Thank you for being a beacon of light in my academic journey.

Best regards!!!

IGNATIUS NGWONGWO

In 2025, CIMPA will continue this momentum by consolidating existing projects and launching new initiatives to support mathematical communities who need it the most.



HIGHLIGHTS FROM THE ADMINISTRATION SIDE



WELCOME TO NEW CIMPA MEMBERS!



Mohameden Ahmedou,
University of Giessen,
GERMANY
⚡ NEW SCIENTIFIC OFFICER



**Clementa Alonso
Gonzalez,** University of
Alicante, SPAIN
⚡ NEW SCIENTIFIC OFFICER



Nicolas Bédaride,
Aix-Marseille
University, FRANCE
⚡ NEW SCIENTIFIC OFFICER



Gemayqzel Bouza,
University of Havana,
CUBA



Nuria Corral,
Universidad de
Cantabria, SPAIN



Thomas Debris-Alazard,
Inria Saclay, FRANCE



Sudhir Ghorpade,
IIT Bombay, INDIA



Sidi-Mahmoud Kaber,
Sorbonne University,
FRANCE
⚡ NEW SCIENTIFIC OFFICER



Ulrich Krähmer,
Technische
Universität Dresden,
GERMANY
⚡ NEW SCIENTIFIC OFFICER



Diletta Martinelli,
University of
Amsterdam,
NETHERLANDS
⚡ NEW SCIENTIFIC OFFICER



Datta Mrinmoy,
IIT Hyderabad, INDIA



Olivier Ramaré,
CNRS / University of
Aix-Marseille, FRANCE
⚡ NEW SCIENTIFIC OFFICER



Stefan Sauter,
Universität Zürich,
SWITZERLAND



El Mmaoun Souidi,
Université
Mohammed V
de Rabat, MOROCCO



Balazs Szendroi,
University of Vienna,
AUSTRIA



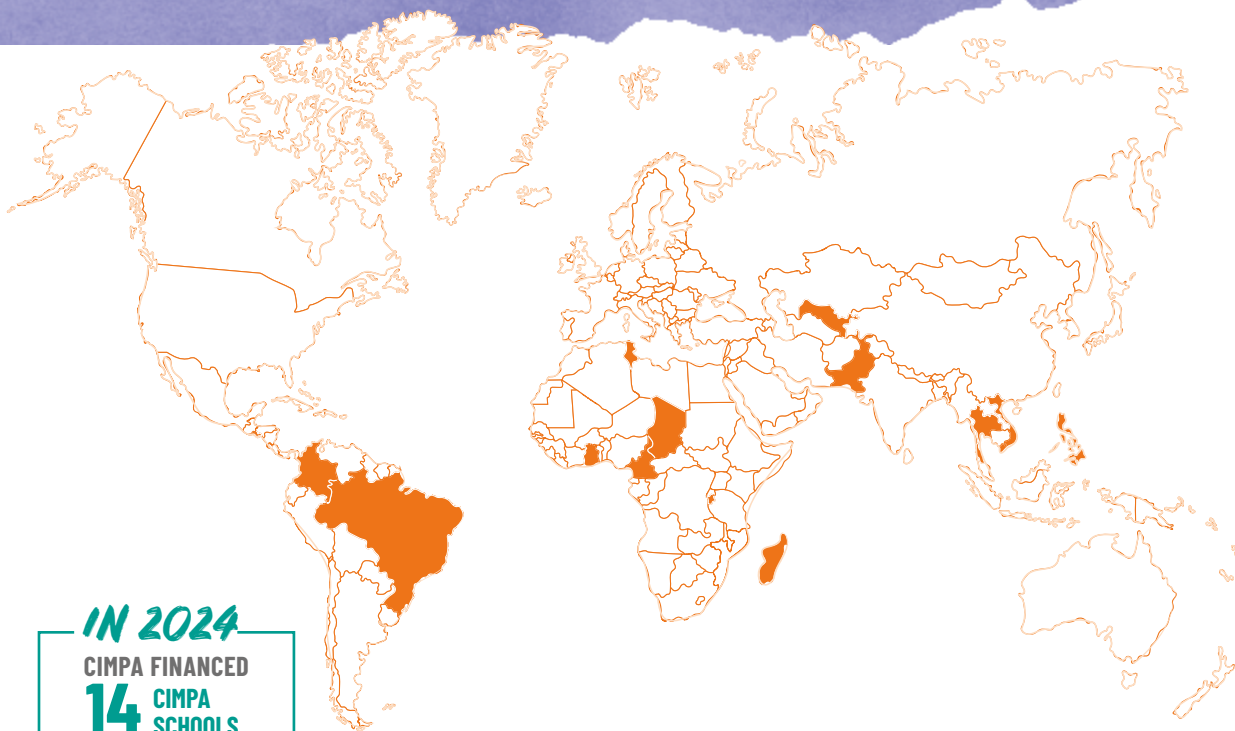
Jocelyn Vilela,
MSU-Iligan Institute
of Technology,
PHILIPPINES

2024 MAIN ACTIVITIES

CIMPA SCHOOLS

Historically, CIMPA's activity focuses on the organisation of CIMPA Schools in developing countries. Each CIMPA School offers a series of research-level courses taught by specialists in a field of mathematics, with a duration of 2 weeks.

CIMPA Schools are aimed at doctoral students and teacher-researchers from developing countries. CIMPA finances part of the cost of organising the School, as well as the travel and living expenses of participants from neighbouring developing countries.



IN 2024

CIMPA FINANCED

14 CIMPA
SCHOOLS

FOR A TOTAL COST OF

€177,000

PHILIPPINES, Dumaguete

“Current Trends in Algebra”,
January 29 - February 9

PAKISTAN, Lahore

“Algebra and Algebraic Geometry for
Applications”
February 26 - March 8

THAILAND, Nakhon Pathom

“Mathematics for Medicine and Health
Sciences”
May 20-31

GHANA, Cape Coast

“Analysis and Numerics of Partial Differential
Equations”
June 3-14

VIETNAM, Ho Chi Minh City

“Applied Number Theory”

June 3-14

COLOMBIA, Popayán

“Bridges between Algebra and Combinatorics”

June 17-28



CAMEROON, Douala

“Algèbre, Géométrie Algébrique et Applications à la Théorie de l’Information”

July 15-26



CIMPA School,
N'Djamena,
Chad,
October 2024

BURUNDI, Bujumbura

“Équations aux Dérivées Partielles - Modélisation - Simulations”

August 5-16

MADAGASCAR, Antsiranana

“Blockchain: the Mathematical Theory and its Applications”

August 5-17

BRAZIL, Cabo Frio

“V Latin American School of Algebraic Geometry (V ELGA)”

August 12-23

CHAD, N'Djamena

“Modélisation d’écoulements des fluides et environnement”

October 21 - November 1

CIMPA School,
San Salvador,
El Salvador,
July 2024



CIMPA School,
Dumaguete,
Philippines,
January 2024

TUNISIA, Sousse

“Ordered structures and their applications in Finance and Machine Learning”

June 18-28

UZBEKISTAN, Urgench

“Lattices, Heights and Diophantine Approximation”

June 24 - July 5

EL SALVADOR, San Salvador

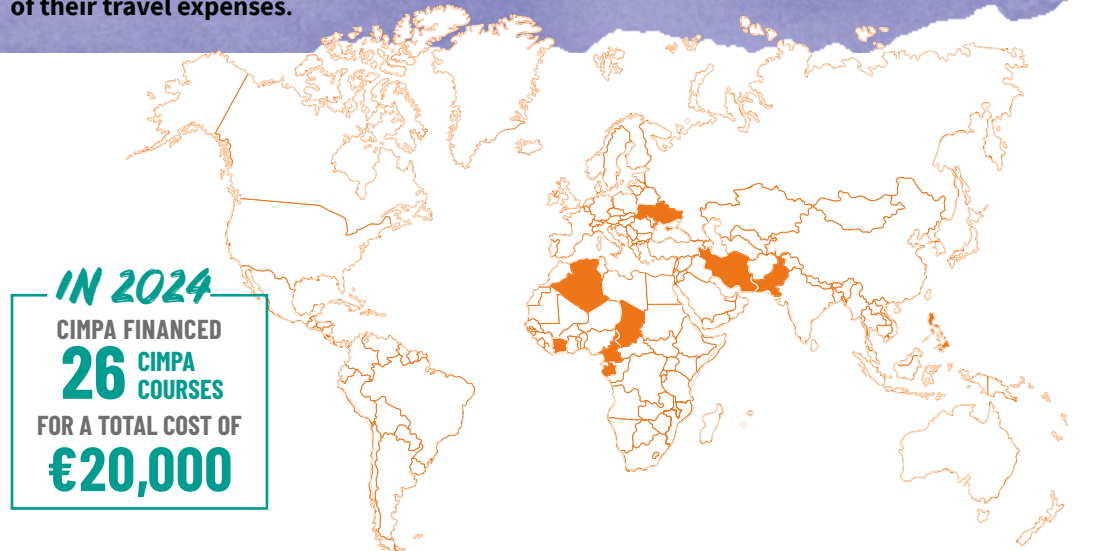
“Teoría de Subvariedades y Análisis Geométrico”

July 8-19



CIMPA COURSES

A CIMPA Course is a master's-level or research-level mathematics course given by visiting professors, with a duration of 1 to 4 weeks. The courses take place in higher education and research institutions in developing countries. They are aimed at master's and doctoral students, postdoctoral researchers and young researchers. CIMPA finances the involvement of the professors by supporting a large part of their travel expenses.



IRAN, Isfahan

“Four Theories to Prove One Theorem”
 BY Seyed Hamid Hassanzadeh
 FEDERAL UNIVERSITY OF RIO DE JANEIRO, BRAZIL
 January 6-10

CHAD, N'Djamena

“Classical theory of Partial Differential Equations” & “The Scalar Conservation Law”
 BY Mohamed Mbehou
 UNIVERSITY OF YAOUNDE 1, CAMEROON
 March 3-17



IRAN, Teheran

“Algebraic and Geometric Methods in Coding Theory”
 BY Sudhir Ghorpade
 INDIAN INSTITUTE OF TECHNOLOGY BOMBAY, INDIA
 January 26 - February 7

PAKISTAN, Lahore

“Convexity and Duality in Optimization Problems Arising in Microeconomic Theory”
 BY Juan Enrique Martínez Legaz
 UNIVERSITAT AUTÒNOMA DE BARCELONA, SPAIN
 March 8-23

IRAN, Teheran

“Algebraic and Geometric Methods in Coding Theory”
 BY Mesut Şahin
 HACETTEPE UNIVERSITY, TURKEY
 January 27 - February 1

GABON, Libreville

“Arithmetic functions”
 BY Florian Luca
 WITS UNIVERSITY, SOUTH AFRICA
 March 10-15

↑ PAKISTAN, Lahore

Sudhir Ghorpade in Iran, January 2024
 “Introduction to Algebraic Geometry”
 BY Francesco Polizzi
 UNIVERSITÀ DI NAPOLI “FEDERICO II”, ITALY
 February 12-24

PHILIPPINES, Maramag

“Cyclotomic Number and Function Fields”
 BY Joan-Carles Lario
 UNIVERSITAT POLITÈCNICA DE CATALUNYA
 March 10-15

GABON, Libreville

“On the Theorem of Scholtz-Reichardt”
 BY Christian Maire
 UNIVERSITY OF FRANCHE-COMTÉ, FRANCE
 March 12-19

CHAD, N'Djamena

"Introduction to Dynamical Systems"

 BY Patrick Tchepmo Djomegni

NORTH-WEST UNIVERSITY, SOUTH AFRICA

March 18-29

CAMEROON, Bamili

"Introductory course in Algebraic Geometry"

 BY Tony Ezome

ÉCOLE NORMALE SUPÉRIEURE (ENS), GABON

April 22-26

CAMEROON, Bamili ONLINE COURSES

"Commutative Algebra MATE 6215"

 BY Andre Saint Eudes Mialebama Bouesso

INSTITUTE OF MATHEMATICS OF THE POLISH ACADEMY OF SCIENCES, POLAND

May 7-17

ALGERIA, Algiers


"Functionnal Analysis"

 BY Charlene Kalle

LEIDEN UNIVERSITY, NETHERLANDS

October 5-18

"Advanced Algebra"

 BY Peter Stevenhagen

LEIDEN UNIVERSITY, NETHERLANDS

October 7-14

"Complex Analysis"

 BY Gabriele Benedetti

AMSTERDAM UNIVERSITY, NETHERLANDS

October 19-31

GABON, Libreville

"Statistics in High Dimension"


 BY Frédéric Van Wijland

UNIVERSITÉ PARIS CITÉ, FRANCE

October 25 - November 5

ALGERIA, Béjaïa

"Introduction to Machine Learning: Theory and Applications"

 BY Bassem Ben Hamed

NATIONAL SCHOOL OF ELECTRONICS AND TELECOMMUNICATIONS, TUNISIA

November 10-14

ALGERIA, Algiers

"Complex Analysis"

 BY Anna Benini

UNIVERSITY OF PARMA, ITALY

November 10-21

PAKISTAN, Lahore

"Probability and Statistics"

 BY Chiara Franceschini

UNIVERSITÀ DEGLI STUDI DI MODENA E REGGIO EMILIA, ITALY

November 25 - December 6

IVORY COAST, Abidjan

"Branching Processes and their Applications"

 BY Ibrahima Drame

UNIVERSITÉ CHEIKH ANTA DIOP, SENEGAL

December 7-14

Dear CIMPA team members,

On behalf of our mathematics department, I would like to express our sincere thanks for your support in organising our course. Your funding of the airline ticket of visiting lecturer Bassem Ben Hamed was a great help and contributed enormously to the success of the event.

We are deeply grateful for your involvement and generosity, which make such important initiatives possible for the scientific community. Please accept, dear members of CIMPA, this expression of our profound gratitude.

With warmest regards,

AREZKI KHELOUFI,
Head of the mathematics department, University of Béjaïa.

**UKRAINE, Kyiv**


"Limit Distribution of the Eigenvalues of a Symmetric Random Matrix"

 BY Mark Rudelson

UNIVERSITY OF MICHIGAN, USA

July 14-21

"Sub-Riemannian Geometry"

 BY Samuël Borza

INTERNATIONAL SCHOOL FOR ADVANCED STUDIES (SISSA), ITALY

July 28 - August 7

↑ "An Introduction to Optimal Transport"

 BY Wilhelm Klingenberg

DURHAM UNIVERSITY, UK

August 1-8

Mark Rudelson
in Ukraine, July
2024

PAKISTAN, Lahore

"Advanced Algebra"

 BY Frank Neumann

UNIVERSITÀ DI PAVIA, ITALY

September 6-19

IVORY COAST, Abidjan

"Complements on Probability theory"

 BY Etienne Pardoux, EMERITUS PROFESSOR

AIX MARSEILLE UNIVERSITÉ, FRANCE

September 30 - October 5

PAKISTAN, Lahore

"Numerical Linear Algebra and Analysis"

 BY Krerley Oliveira

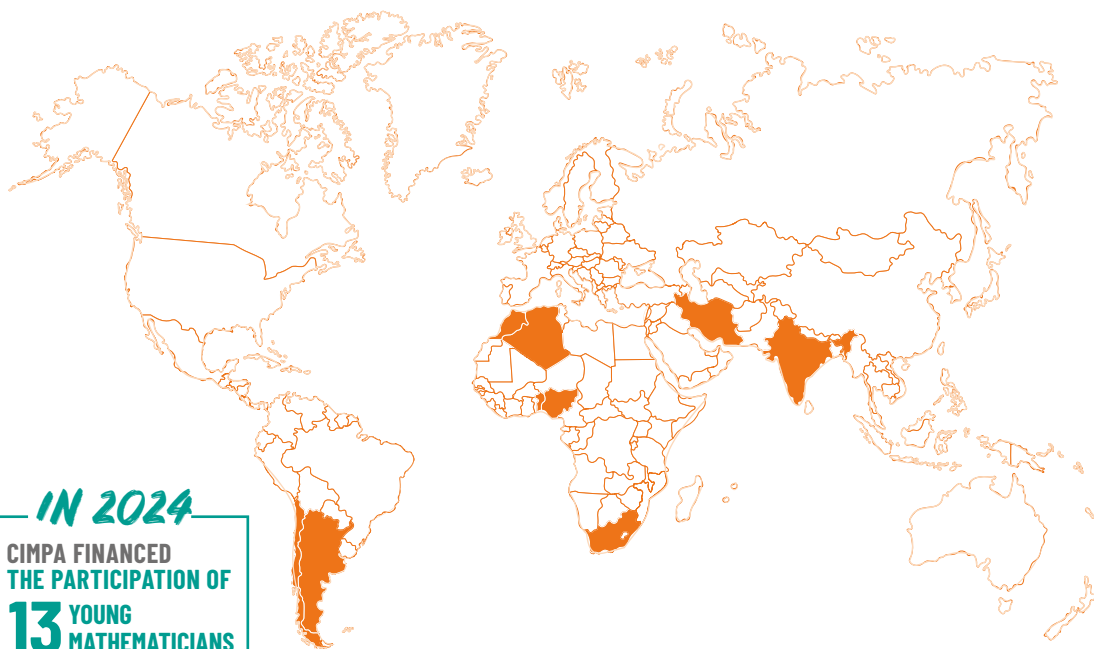
FEDERAL UNIVERSITY OF ALAGOAS, BRAZIL

September 30 - October 13



CIMPA FELLOWSHIPS

The CIMPA Fellowships offer funding to enable young researchers from developing countries to take part in short thematic programmes in partner research institutes in Europe, for 1 to 3 months. CIMPA, in association with its partners, covers all the participants' costs.



IN 2024
 CIMPA FINANCED
 THE PARTICIPATION OF
13 YOUNG
 MATHEMATICIANS
 FOR A TOTAL COST OF
€36,000

INSTITUT HENRI POINCARÉ, IHP - PARIS, FRANCE

"QUANTUM MANY-BODY SYSTEMS OUT-OF-EQUILIBRIUM"

January 8 - March 22



**Elahe Davari
 Dolatabadi,**
 Sharif University of
 Technology, IRAN



**Federico Tomás
 Benito Pérez,**
 Instituto de Física de
 La Plata, ARGENTINA

"GROUP ACTIONS AND RIGIDITY: AROUND THE ZIMMER PROGRAM"

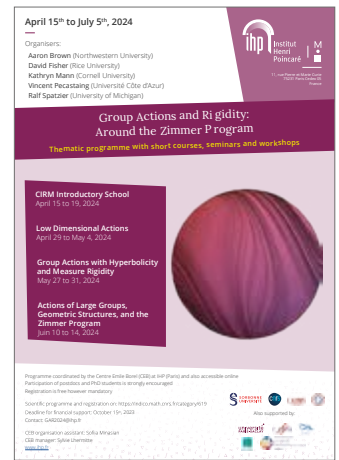
April 15 - July 5



Leonardo Dinamarca Opazo,
Universidad de Santiago de Chile,
CHILE



Verdiane Carole Madengko,
Institut de Mathématiques et de Sciences Physiques,
BENIN



"POST-QUANTUM ALGEBRAIC CRYPTOGRAPHY"

September 9 - December 13



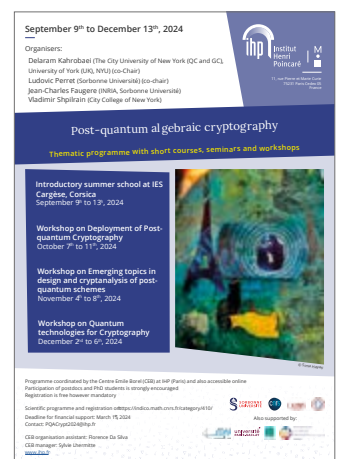
Asmaa Cherkaoui,
Faculté des sciences
Ain Chock, MOROCCO



Nour-eddine Rahmani,
Université Mohammed Premier,
MOROCCO



Rohitkumar R. Upadhyay,
Motilal Nehru National Institute of
Technology, INDIA



CENTRE INTERNATIONAL DE RENCONTRES MATHÉMATIQUES, CIRM - MARSEILLE, FRANCE

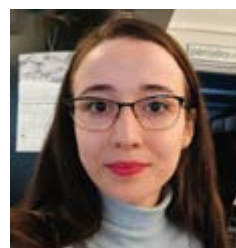


"ARITHMETIC AND INFORMATION THEORY"

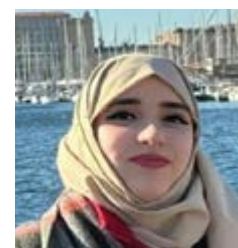
January 30 - March 3



Chimere Anabanti,
University of Pretoria,
SOUTH AFRICA



Nassima Ait Sadi,
Université Abderrahmane Mira,
Béjaia, ALGERIA



Sara Dridi,
Ferhat Abbas University Setif 1,
ALGERIA

SWISSMAP - LES DIABLERETS, SWITZERLAND

This programme, held from January 7 to February 4, 2024, began with a winter school at the SwissMAP Research Station in Les Diablerets. It was followed by a collaborative research period at a university, focusing on advanced topics such as Lie theory, Poisson geometry, symplectic geometry, and multiple zeta values.

NEW CALL

CIMPA FELLOWSHIP PROGRAM AT SWISSMAP

PROGRAM	ELIGIBILITY CRITERIA	FINANCIAL SUPPORT
<p>COURSES</p> <p>Participate in the Winter School in Mathematical Physics (January 7-13)</p> <p>COLLABORATION</p> <p>Work under the supervision of Prof. Anton Aleksev at the University of Geneva for 2 weeks in Geneva</p>	<p>LEVEL</p> <p>PhD or postgraduate mathematicians</p> <p>TARGETED COUNTRIES</p> <p>Candidates affiliated with a developing country</p>	<ul style="list-style-type: none"> ✓ Roundtrip travel between your home country and Geneva. ✓ Accommodation in Geneva and full board accommodation at Les Diablerets. ✓ Per diem allowance of 900 euros for the 3 weeks in Geneva. <p style="text-align: center; font-weight: bold; font-size: 0.8em;">WWW.CIMPA.INFO</p>
<p>DEADLINE</p> <p style="background-color: #ffcc00; padding: 5px; font-weight: bold; font-size: 1.1em;">OCTOBER 7, 2023</p>		




Pedro Henrique Carvalho Silva,
 Instituto de Matematica Pura e Aplicada, BRAZIL

LIE-STØRMER CENTER - TROMSØ, NORWAY



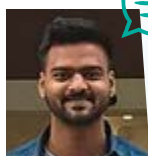
ONLINE: September 2024
IN-PERSON: October 14 - November 15, 2024
 This programme provided advanced training and collaboration opportunities in mathematics and its applications.



Ignatius Ngwongwo,
 Federal University of Technology Owerri,
 NIGERIA



Yadav Rohit,
 Indian Institute of Technology Jammu,
 INDIA

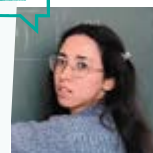


"Throughout my time in Paris, I collaborated on several exciting research projects with esteemed experts [...] These collaborations have been instrumental in expanding my research skills and exploring new frontiers in cryptography."

Rohitkumar R. Upadhyay

"I am deeply grateful to Professor Delaram Kahrobaei for her continuous support and invaluable guidance throughout this trimester. [...] I also thank the IHP team, CIMPA, and the organizers of the various workshops for creating such a collaborative and enriching research environment. This experience has not only advanced my knowledge but also paved the way for future collaborations in the field of post-quantum cryptography."


Asmaa Cherkaoui

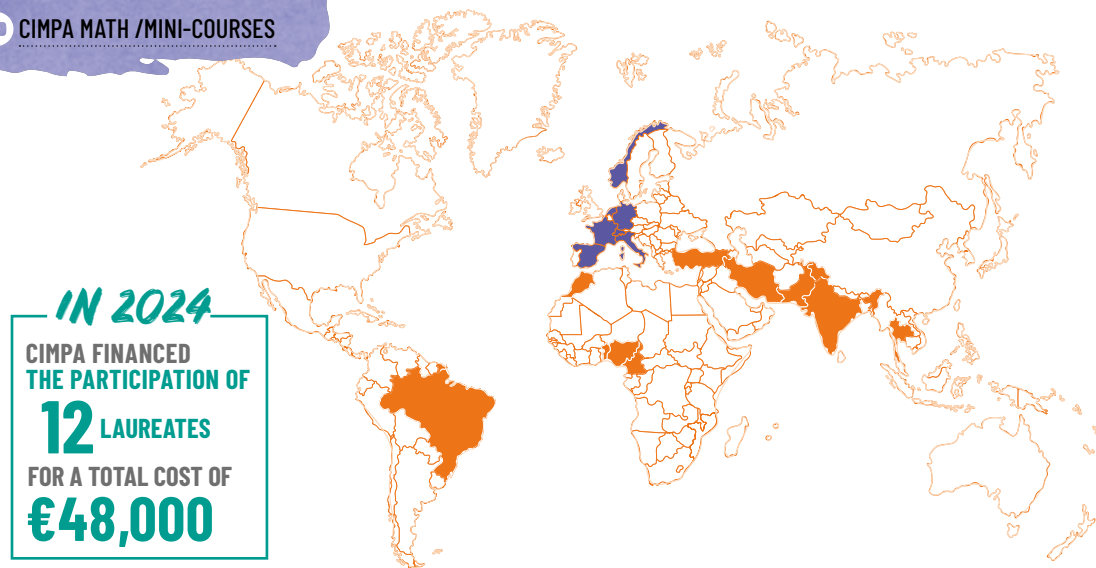


RESEARCH IN PAIRS PROGRAMME

The CIMPA-ICTP programme "Research in Pairs" gives **mathematics researchers based in developing countries the opportunity to come to a European country to collaborate with a colleague on a well-substantiated research project and to give a short course. These courses are recorded and broadcast at ICTP, CIMPA, CRM, TROMSØ or CIRM.**

Watch the mini-courses:

 CIMPA MATH /MINI-COURSES



IN 2024

CIMPA FINANCED
THE PARTICIPATION OF

12 LAUREATES

FOR A TOTAL COST OF

€48,000



**Fatemeh
Shirmohammadzadeh
Maleki,**

Iranian Research Institute of
Philosophy, IRAN

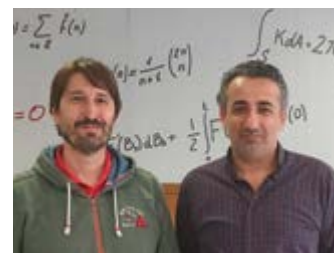
[📍](#) University of Amsterdam,
NETHERLANDS
January 21 - April 5



Neslihan Gügümcü,

Izmir Institute of Technology,
TURKEY

[📍](#) University of Amsterdam,
NETHERLANDS
January 22 - March 8



Amir Mafi,

University of Kurdistan, IRAN

[📍](#) Universitat Politècnica de
Catalunya, SPAIN
February 10 - April 10



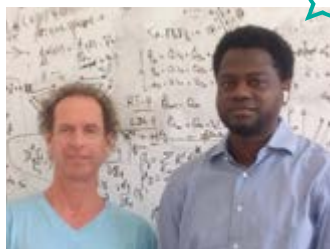
"During my stay in Amsterdam, Prof. Dick de Jongh and I continued working on a project, titled "The implicational fragments of some subintuitionistic logics" and we hope to publish the results soon in a reputable journal."

Fatemeh Shirmohammadzadeh Maleki

2024 MAIN ACTIVITIES



Prim Plansangkate,
Prince of Songkla University,
THAILAND
[UiT The Arctic University of Norway](#), NORWAY
 March 30- June 8



Abdulhakeem Yusuf,
Federal University of
Technology Minna, NIGERIA
[Institut de Mathématiques de Marseille](#), FRANCE
 March 31 - July 27



"During my stay, I met some other researchers notably, Julius Bagmann and Philipp Krah who are ready for further collaborations with me.[...] As a follow up, an account has been created for me on the workstation cluster to enable me to have access to the GPU from my home country so as to continue working with the group."

Abdulhakeem Yusuf



Bouchra Bensiali,
École Centrale Casablanca,
MOROCCO
[University of Zurich](#), SWITZERLAND
 April 22 - June 14



Célestin Lélé,
University of Dschang,
CAMEROON
[Mannheim University of Applied Sciences](#), GERMANY
 May 1 - August 1



Maliheh Hosseini,
K. N. Toosi University of
Technology, IRAN
[Universitat Jaume I](#), SPAIN
 May 27 - June 23



Leonard Todjihounde,
Institute of Mathematics and
Physical Science, BENIN
[Université de Bretagne Occidentale](#), FRANCE
 June 1 - July 15 / **CANCELLED**



Gastón Andrés García,
Universidade Federal da
Paraíba, BRAZIL
[Universidad Nacional de La Università degli Studi di Roma "Tor Vergata"](#), ITALY
 September 1 - October 18



Allan Freitas,
Universidade Federal da
Paraíba, BRAZIL
[Università degli Studi di Torino](#), ITALY
 September 1 - November 30



Umamaheswaran Arunachalam,
SASTRA Deemed University,
INDIA
[Université Paris Cité](#), FRANCE
 October 1 - November 30



Sarfraz Ahmad,
COMSATS University
Islamabad, PAKISTAN
[Philipps-Universität Marburg](#), GERMANY
 January 4 - February 16
**2023 LAUREATE
 POSTPONED TO 2024**

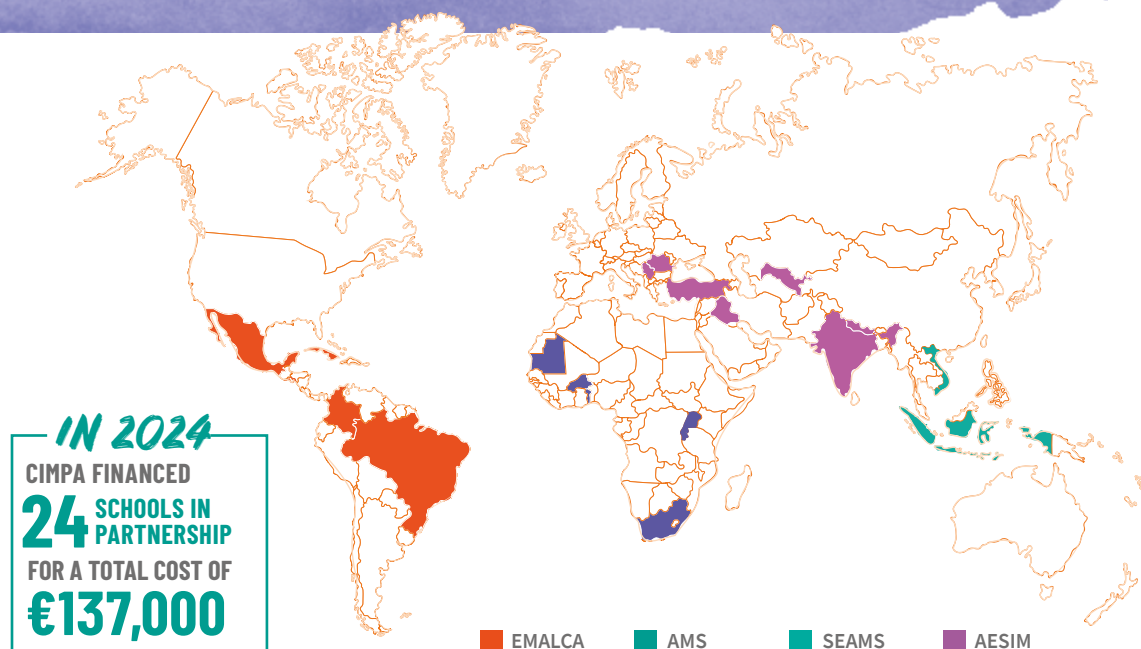
SCHOOLS IN PARTNERSHIP

CIMPA supports schools of mathematics at master's level or for students at the end of their undergraduate studies, in partnership with continental mathematical societies and committees:

- Escuela de Matemática de América Latina y del Caribe (EMALCA)
- Asian and European Schools in Mathematics (AESIM)
- African Mathematical Schools (AMS)
- SEAMS Schools of Mathematics (SEAMS)

The Schools in Partnership take place in higher education and research institutions in all developing countries and have a duration of 1 to 3 weeks.

CIMPA's financial support covers the travel and living expenses for participants affiliated with the host country or neighbouring developing countries.



ESCUELA DE MATEMÁTICA DE AMÉRICA LATINA Y DEL CARIBE (EMALCA)

COSTA RICA, Liberia

University of Costa Rica,
February 12-23

BRAZIL, Uberaba

Instituto de Matemática Pura e Aplicada,
(IMPA)
April 1-12

MÉXICO, Cuernavaca

Unidad Cuernavaca del Instituto de
Matemáticas,
June 17-21

COLOMBIA, Bogotá

Fundación Universitaria Konrad Lorenz,
July 1-12

CUBA, La Habana

Universidad de la Habana,
November 4-8

La Habana,
Cuba,
November 2024



AFRICAN MATHEMATICAL SCHOOLS (AMS)



Potchefstroom, South Africa, February 2024

SOUTH AFRICA, Potchefstroom

“Quantitative Biology: Applications in Epidemiology, Ecology and Cancer”
February 19-27

BURKINA FASO, Ouagadougou

“Théorie des Représentations et Applications en Sciences Physiques”
May 20-31

BURUNDI, Bujumbura

“Mathématiques et informatique pour l'économie”
June 17-28

UGANDA, Kampala

“Mathematics of Artificial Intelligence”
July 8-24

TOGO, Lomé

“Approche mathématique des problèmes énergétiques et industriels”
July 15-27

RWANDA, Kigali

“Algebraic Geometry and Arithmetic”
August 19-30

BURKINA FASO, Saaba

“Modélisation et contrôle du monde du vivant”
August 19-31

MAURITANIA, Nouakchott

“Géométrie Différentielle et Applications”
December 9-20

ASIAN AND EUROPEAN SCHOOLS IN MATHEMATICS (AESIM)

KURDISTAN REGION-IRAQ, Erbil

“Algebra, Number Theory and their Applications to Cryptography”
February 25 - March 7

NEPAL, Kirtipur

“Computational Mathematics”
June 12-23

ARMENIA, Yerevan

“A gentle introduction to data assimilation and HPC- Applications on an HPC platform”
June 15-23

INDIA, Bhopal

“Linear Preserver Problems”
July 8-15

TURKEY, Izmir

“Probability with / on Random Graphs: Trees, Networks, Dimers, Assignments”
July 29 - August 4

TURKEY, Istanbul

“Directed Reading Program Türkiye 2024”
September 2-6

ROMANIA, Constanta

“Topology and Algebra of Singularities and their Applications”
September 9-13

SERBIA, Belgrade

“Introduction to Number Theory and Algebraic Curves”
September 9-20

UZBEKISTAN, Tashkent

“Evolution Equations on Low-Dimensional Domains: Dynamical Systems, Solitons and Quantum Transport”
October 23-30

Izmir, Turkey, August 2024



THE SCHOOLS OF THE SOUTHEAST ASIAN MATHEMATICAL SOCIETY (SEAMS)

INDONESIA, Semarang

“Derivations on Rings And Modules with Applications”
July 1-10

VIETNAM, Hanoi

“Selected topics in Arithmetic Algebraic Geometry”
October 28 - November 8



CIMPA

Centre International de Mathématiques Pures et Appliquées
PROMOTING RESEARCH IN MATH WITH DEVELOPING COUNTRIES

CIMPA SCHOOLS 2025 ÉCOLES CIMPA

CHILE, Valparaíso

06 JAN. > 17 JAN.
Serre's Big Image Theorem for Galois Representation Associated to Elliptic Curves

SOUTH AFRICA, Stellenbosch

06 JAN. > 17 JAN.
Enumerative Combinatorics with Applications to Computer Science

UGANDA, Kampala

13 JAN. > 24 JAN.
Effective Algebra and the LMFB

SOUTH AFRICA, Potchefstroom

03 FEB. > 14 FEB.
Mathematical and Statistical Modeling in Oncology

ALGERIA, Saïda

03 FEB. > 15 FEB.
Outils mathématiques de l'intelligence artificielle

TUNISIA, Hammamet

18 FEB. > 28 FEB.
Control, Optimization and Model Reduction in Machine Learning

UZBEKISTAN, Tashkent

28 APR. > 09 MAY
Modern Trends in Non-Associative Algebras

MOROCCO, Essaouira

22 MAY > 31 MAY
Transport optimal, EDP et optimisation : applications en sciences des données

IVORY COAST, Abidjan

26 MAY > 06 JUNE
Analyse harmonique, applications à la théorie quantique

LEBANON, Beirut

02 JUNE > 13 JUNE
L-functions and Modular Forms in Number Theory

CUBA, La Habana

09 JUNE > 20 JUNE
Mathematical Models in Biology and Related Applications of Partial Differential Equations

INDIA, Rupnagar

30 JUNE > 11 JULY
Automorphic L-functions

BURKINA FASO, Ouagadougou

30 JUNE > 12 JULY
Théorie des représentations et ses applications en physique

TURKEY, Istanbul

30 JUNE > 12 JULY
Probability and Applied Analysis

KENYA, Nairobi

07 JULY > 19 JULY
Data Driven Epidemiological Models: Current Trends and New Threats

INDONESIA, Yogyakarta

14 JULY > 25 JULY
Arithmetic in Action: Number Theory and its Applications to Cryptography and Coding Theory

ARMENIA, Yerevan

14 JULY > 26 JULY
Elliptic Curves and their Applications

ARGENTINA, La Plata & Buenos Aires

28 JULY > 08 AUG.
K-theory and Operator Algebras

BRAZIL, Florianópolis

28 JULY > 08 AUG.
Bridgeland Stability and Applications

TUNISIA, Mahdia

25 AUG. > 05 SEPT.
Les modélisations mathématiques, réponses aux défis sanitaires et environnementaux

CAMEROON, Douala

08 SEPT. > 19 SEPT.
On Modern Mathematical Tools in Mechanics

CHINA, Hefei

09 SEPT. > 20 SEPT.
Perspectives in Non-Commutative Algebras: Leavitt Path Algebras, Hochschild (co)homology, K-theory and Related Topics

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2021 FINANCIAL HIGHLIGHTS

CIMPA SUBSIDIES

CIMPA receives subsidies from various European and international institutions



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INTERACTIONS
(FRANCE)



LABORATOIRE
D'EXCELLENCE CARMIN
(FRANCE)



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L'ENSEIGNEMENT
SUPÉRIEUR,
DE LA RECHERCHE
ET DE L'INNOVATION
(FRANCE)



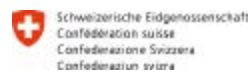
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ET DES AFFAIRES
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À LA RECHERCHE
ET À L'INNOVATION
(SWITZERLAND)



UNIVERSITÉ
DE NEUCHÂTEL
(SWITZERLAND)



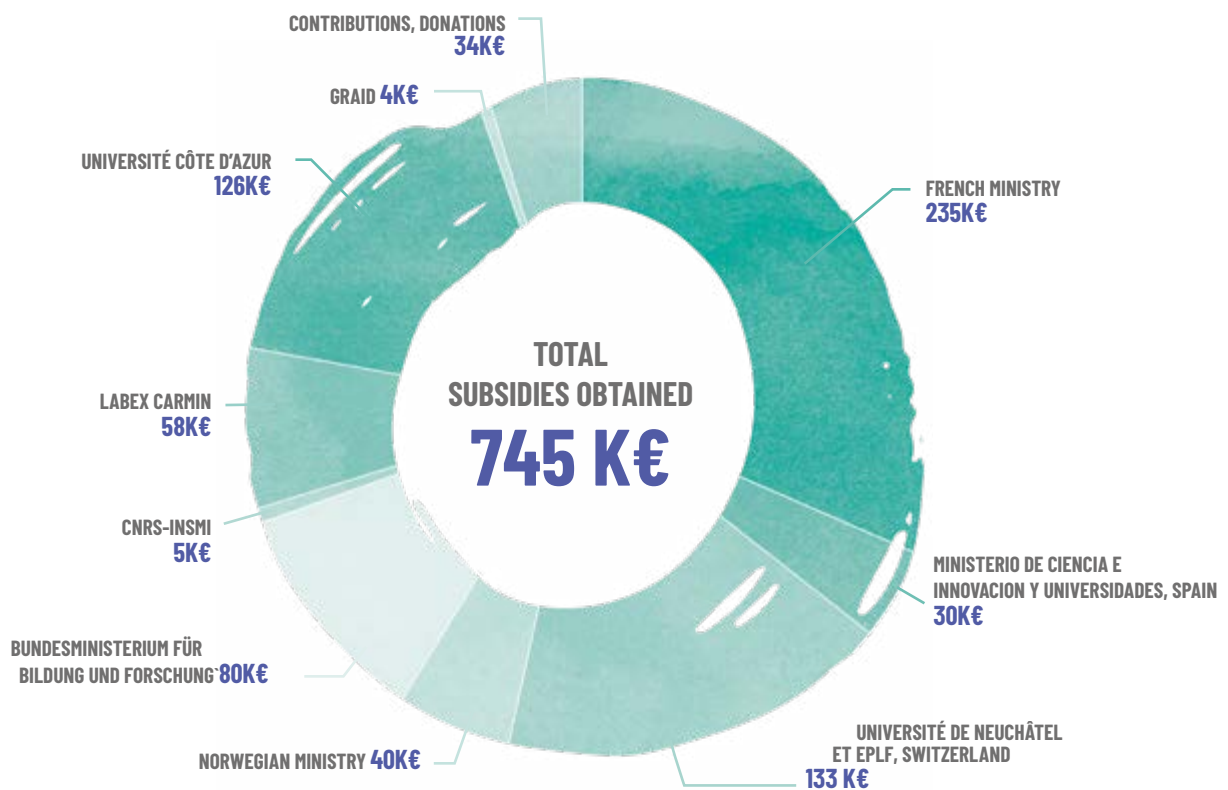
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Y UNIVERSIDADES (SPAIN)



BUNDEMINISTERIUM
FÜR BILDUNG UND
FORSCHUNG (GERMANY)

2024 SUBSIDIES (€)

Ministère de l'Enseignement supérieur et de la Recherche/Direction générale de la recherche et de l'innovation	235 000.00
Ministerio de Ciencia e Innovacion y Universidades (Spain)	30 000.00
Université de Neuchâtel et EPFL (Switzerland)	133 314.00
Ministry of Education and Research (Norway)	40 000.00
German Federal Ministry of Education and Research	80 000.00
CNRS-INSMI	5 000.00
Labex CARMIN	57488.00
Université Côte d'Azur (including the director's salary)	125 879.44
Donations to GRAID (Graduate Research Assistantships in Developing Countries)	4 040.00
Contributions, donations	9 411.00
Interest	25 000.00
TOTAL INCOME	745 132.44



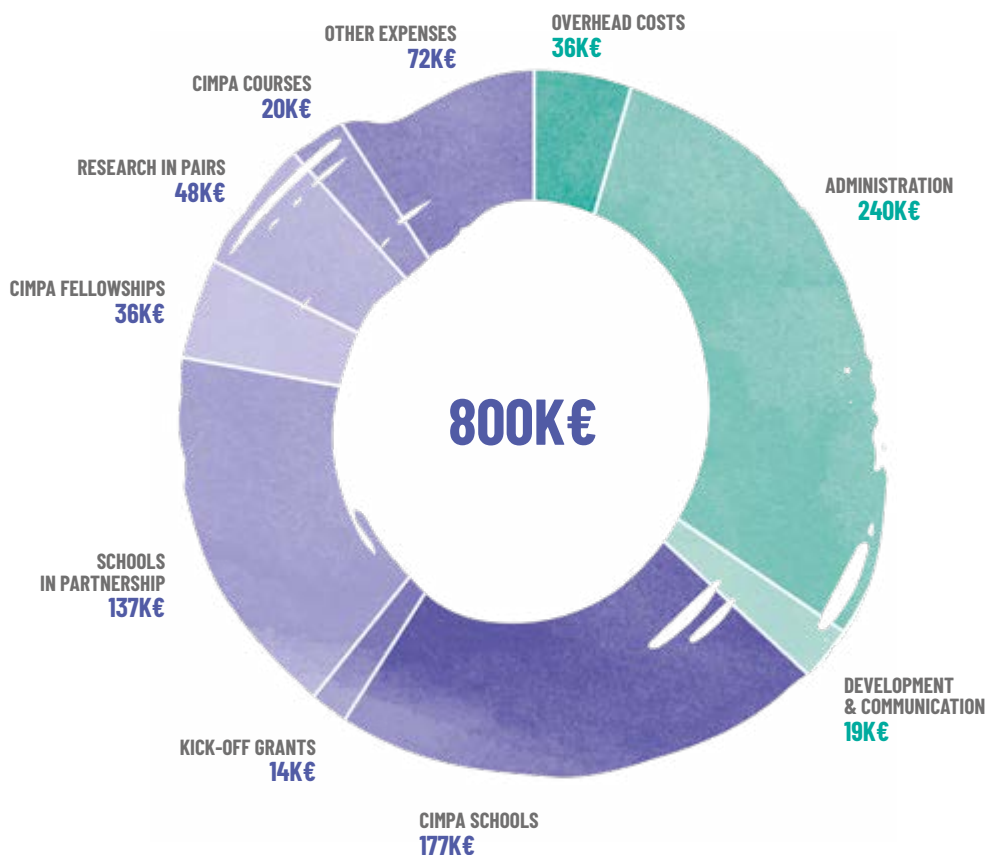
2024 FINANCIAL STATEMENT

2024 EXPENSES (€)

OVERHEAD COSTS	
Bank charges + online payment fees	2 493.32
Office supplies	223.03
UCA occupancy costs	2 460.00
Insurance	473.00
Membership fees	980.00
Corporate tax	5 600.00
Expenses for General Assembly/ Governing Board/Scientific Council/ Steering Committee meetings/missions	24 079.67
SUBTOTAL OVERHEAD COSTS	36 309.02

ADMINISTRATIVE COSTS	
Fees: accountant, auditor	13 204.80
Salaries (including the director's salary), social security contributions, occupational health care, share of prof. training	227 000.00
SUBTOTAL ADMINISTRATIVE COSTS	240 204.80

DEVELOPMENT & COMMUNICATION	
Computer hardware, software and video room equipment	515.72
Communication	4 848.28
Website redesign	13 610.00
SUBTOTAL DEVELOPMENT & COMMUNICATION	18 974.00



ACTIVITIES	
CIMPA SCHOOLS	
Philippines	14669.90
Pakistan	15 485.86
Thailand	9 110.76
Ghana	12 000.00
Lebanon - postponed to 2025	0.00
Vietnam	14 739.00
Tunisia	14 756.00
Colombia	7 975.38
Uzbekistan	13 109.87
El Salvador	13 072.59
Cameroon	15 187.28
Madagascar	7 435.00
Burundi	13 379.81
Brazil	9 871.00
Chad	16 400.00
S/TOTAL CIMPA SCHOOLS	177 192.45
KICK-OFF GRANTS	13 935.13
SCHOOLS IN PARTNERSHIP	
EMA	61 130.20
EMALCA	20 704.00
SEAMS	11 000.00
AESIM	44 066.79
SUBTOTAL SCHOOLS IN PARTNERSHIP	136 900.99

CIMPA FELLOWSHIPS	
IHP Trimester T1 "Quantum many-body systems out-of-equilibrium" (2 laureates)	6 888.04
IHP Trimester T2 "Group Actions and Rigidity: Around the Zimmer Program" (2 laureates)	6 796.99
IHP Trimester T3 "Post-quantum algebraic cryptography" (3 laureates)	8 398.60
LSC (2 laureates)	5 970.58
SwissMAP fellowships (1 laureate)	4 943.62
CIRM Thematic Month "Discrete Mathematics & Computer Science: Groups, Dynamics, Complexity, Words" (3 laureates)	2 887
SUBTOTAL CIMPA FELLOWSHIPS	35 884.83
RESEARCH IN PAIRS (12 LAUREATES)	48 177.39
CIMPA COURSES	
In person	20 402.73
SUBTOTAL CIMPA COURSES	20 402.73
OTHER EXPENSES	
Ad hoc support for research training activities	13 637.94
Master Abidjan	21 598.20
ECM	2 679.92
Chaire CIRM	14 730.90
Support to GRAID (Graduate Research Assistantships in Developing Countries)	4 040.00
Support for 1st time French lecturers to CIMPA events	2 155.98
Supervisors of Schools	12 827.45
SUBTOTAL OTHER EXPENSES	71 670.39
SUBTOTAL ACTIVITES	504 163.91
TOTAL EXPENSES	799 651.73
SURPLUS/ EQUITY CONTRIBUTION	-54 519.29
TOTAL GENERAL	745 132.44



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