

Centre International de Mathématiques Pures et Appliquées



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"It is a pleasure to recall two very significant events that took place at CIMPA this year. The first was the approval for the entry of Germany into CIMPA as a member state, joining in January 2022. Over the years there have been several discussions related to Germany joining CIMPA and for all of us it is a special pleasure that this is happening now. We thank everyone involved in Germany and France for their enthusiastic approach and



dedicated work to make this happen. We look forward to the strong involvement of Germany together with France, Norway and Spain as state members, and Switzerland through a Swiss institutional membership. Together we can significantly strengthen our work contributing to the growth of mathematics in the developing world.

The second notable event was the renewal of the certification of CIMPA as a UNESCO category 2 centre, after a very positive evaluation. The interaction with UNESCO representatives and their appreciation of the CIMPA programme is an important recommendation of our work and image internationally. This association is also of great value to us at CIMPA.

Staying connected and achieving the goals of CIMPA has been a new and serious challenge for CIMPA, with the covid pandemic becoming a part of everyday life and all events. Therefore we acknowledge the special effort made by all involved in organising our research schools. Presenting research topics online and interacting with young mathematicians, when not together in the same place, requires a very special commitment and effort, which we gratefully acknowledge. CIMPA has found ways to do this, in particular through the innovative and positive approaches by Christophe Ritzenthaler, which are presented in this report. The monthly newsletters have also helped us all to stay in touch. The interesting items covered, news of events and overall presentation has been informative and kept us up to date.

We look forward to the interactive activities CIMPA is well known for in the near future, while acknowledging all those who are presenting and ensuring an interesting program in the present situation, including the CIMPA team in Nice for the special effort they have made."

**BARRY GREEN** - PRESIDENT



"Many colleagues, members of CIMPA and their families have suffered due to the health crisis and our thoughts are with them as this year draws to a close. While we see a return to normal for wealthy countries on the horizon in 2022, developments globally remain uncertain and the economic and political consequences are ominous.

For CIMPA, it was of course a complicated year, with considerable disappointment for projects that could not be completed and the task of management difficult, with new human and technical challenges.

But crises also sublimate our efforts: the generosity of our colleagues when lecturing in online formats, the help of the executive team with the added workload, the confidence shown by the Governing Board when we initiated new actions and the financial support of our partners. To all of you, thank you for being there.

And what do we have to show for it? Thanks to our responsiveness, CIMPA has been able to limit the impact of the crisis. Judge for yourself: 18 CIMPA schools organized, 7 laureates of the new Research in Pairs fellowships, the deployment of a teaching platform and the carmin.tv platform with more than a hundred hours of CIMPA courses, the renewal of our UNESCO designation and finally the entry of Germany as a member state.

In 2022, obviously, I wish us a more peaceful year. In any case, what we have learned and put in place during this year will be very useful in meeting the challenges ahead."

**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

cooperation in research into mathematics 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 in all continents.** Each activity is funded through a process of calls for proposals in one of the following categories:



**NICE** 

**CIMPA SCHOOLS** 



**CIMPA COURSES** 



**CIMPA FELLOWSHIPS** 

2 NEW ACTIVITIES WERE LAUNCHED THIS YEAR:



UNLINE CIMPA COURSES



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.

For most of its activities, CIMPA works in partnership with other organisations with similar objectives, such as the **International Mathematical Union (IMU)**, the **European Mathematical Society (EMS)** and the **International Centre for Theoretical Physics (ICTP)**.

## CIMPA, **SINCE ITS CREATION**

FOUNDED IN 1978 LOCATED IN NICE FRANCE



#### **ADMINISTRATION**

OF THE EXECUTIVE TEAM

A GOVERNING BOARD OF 7 INDIVIDUAL MEMBERS AND 8 INSTITUTIONAL **MEMBERS** 

SCIENTIFIC COUNCIL

A STEERING COUNCIL OF **7 INDIVIDUAL MEMBERS AND 18 INSTITUTIONAL MEMBERS** 

**EMPLOYEES** 

**CIMPA MEMBERS** 

A WORLDWIDE PARTNER **NETWORK OF ORGANISATIONS** AND ACADEMIC INSTITUTIONS



**EACH YEAR, MORE THAN** PARTICIPANTS ATTEND **ACTIVITIES IN MORE THAN** 



**PRESENT ON 3 SOCIAL NETWORKS** 







A YOUTUBE CHANNEL CIMPA MATH



A WEBSITE WWW.CIMPA.INFO



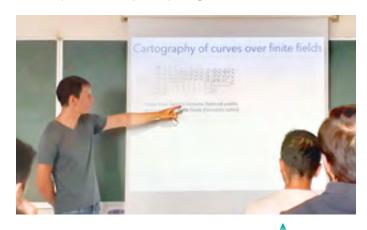
**BUDGET ABOUT** PFR YFAR

## ANINTERVIEW WITH THE EXECUTIVE DIRECTOR

#### THE YEAR 2021 HAS NOT BEEN EASY, WHAT IS YOUR ASSESSMENT OF THE PAST FEW MONTHS?

While preparing for this interview, I reread the one from 2020. At that time, the executive team was mentally prepared for a "half-marathon" of schools being affected by the crisis. As this year has progressed, it has become a "marathon" and, now, as we come to the end of 2021 and the waves of the pandemic continue, despite vaccination, we think that we should perhaps have trained for an ultra-trail! More than the workload involved to devise alternatives at a moment's notice and allow activities to go ahead online, it is the uncertainty about when things will return to normal and the constant need to have a plan B which is difficult for everyone to manage and which could lead some colleagues to become discouraged, or even stop them from participating.

If we focus on the present, the "house of CIMPA" has held up well, showing the solidity of its foundations, its flexibility and the real commitment of many of our colleagues and partners to CIMPA's cooperative missions. While cancelling a school was always heart-rending, the efforts and enthusiasm of organisers and teachers to make the most of an online or hybrid school were inspiring. At the start of 2021, I predicted that two-thirds of the schools would be cancelled and in the end we kept more than one-half.



Since our normal routines are disrupted, it gives us an opportunity to put them in perspective. Christophe What have we learned? The surveys we have conducted show that the lectures given in CIMPA schools are very useful to participants, whether in our classic face-to-face schools before 2019 ... or in hybrid/online formats this year! Should we then invest solely in the distance model? Or, as we hear a lot, if the value of schools is in the networks and interactions that are

in Turkey August, 2021

**OUR FACE-TO-FACE MEETINGS** ARE THE DRIVING FORCE AND THE DNA OF CIMPA!

created, why do we (only) teach there? Is this the most effective and scientifically relevant way to plan a face-to-face meeting? I am asking these questions in a somewhat provocative manner because we should be doing some serious thinking about the format of our activities. Sometimes we are conservative at a time when other issues, such as climate change, are urging us to rethink how we act.

It would be wrong to believe that these observations mean that I am a champion of remote events. On the contrary, I believe that online tools should only be adjuvants that allow us then to make human relations the focus of our activities. I look forward to our in-person schools resuming to see if the motivation to be more interactive during the events will bear fruit. Our face-to-face meetings are the driving force and the DNA of CIMPA!

Lastly, on a more personal note, my few dealings with the private sector (during the creation or maintenance of our online sites or the development of the video recording room) reinforced my conviction that the public service has nothing to envy the private sector in terms of efficiency and professionalism!

## YOU HAVE INTRODUCED A NUMBER OF NEW OFFERS, CAN YOU TELL US A LITTLE ABOUT THEM?

The **Online CIMPA Courses** were an immediate response to the cancellation of many in-person CIMPA courses, which are one of CIMPA's most important tools. More than just recorded or live lessons, the idea was also to be able to carry out long-term teaching thanks to the **LMS (Learning Management System) platform** that CIMPA created, which enables interactions with students outside of the class time.

DESPITE THE CRISIS,
CIMPA ACTIVITIES
WERE IN FULL SWING.

The **Research in Pairs fellowships** programme meets a distinct need. We felt it was important to support professors from developing countries who are doing high-quality teaching and research in conditions that are sometimes difficult. They are at the forefront of the development of research in their countries and we encourage them by funding a long stay for collaborative scientific activities.

What are the results after one year? The online CIMPA courses have not been very popular: neither with colleagues (due to travel limitations even in France? A poorly structured program?); nor on the part of the enrolled students, whose engagement was generally not commensurate with the efforts of the teachers. The recordings were, however, viewed a large number of times on our networks: more than a thousand times for Piotr Kowalski's first class, though to put this in perspective only 6% went on to complete the course.

Surprisingly, the live courses given by Research in Pairs laureates were more immediately successful, with more than 150 participants connecting during some classes. Is it the appeal of live events? The topics covered? Or is it simply that the option of taking online courses at CIMPA is now better known?

Christophe during the defence of the first class of the Master of Applied Mathematics MISSA at the University of N'Djaména (Chad) December, 2021



The Research in Paris programme as a whole is also a success: the laureates are delighted, their courses are well received, and CIMPA gains natural ambassadors for its activities. We are therefore renewing these scholarships in 2022, this time in partnership with the ICTP.

The desire to involve partners in our activities is common to both actions: online courses may be given at the Nesin Maths village, and Research in Pairs laureates have privileged access to certain research centres (CIRM, CRM, ICTP and MFO) for a research stay with their colleague.

#### IN ADDITION TO ALL THESE NEW ACTIVITIES, WHAT WERE THE OTHER MAJOR EVENTS OF THE YEAR?

Despite the crisis, CIMPA activities were in full swing. Germany's entry, which my predecessors had been preparing for a long time, is finally effective. We must salute the collective effort which made this possible and wish Germany a long life within CIMPA because we have a lot to gain from

closer ties with the German community.

Another long-term project which was finally released, is the video broadcasting platform carmin.tv. It was built within the framework of LabEx Carmin with our partners CIRM, IHES and IHP. It gives visibility and extended functionality to our CIMPA course videos, and associates CIMPA with the major French research institutes in mathematics. This is also reflected in the joint development with INSMI of the Math in France website, on which CIMPA has a prominent place.



Nesin at Nesin Mathematics Village (Turkey) August 2021

This year also saw the renewal of our UNESCO category 2 label. Alessandra Sarti, who was Christophe with our inspector, did an exemplary job in understanding our operations and activities, as her very comprehensive report shows.

At the budgetary level, we renegotiated the financial agreement with the State Secretariat for Education, Research and Innovation (SEFRI), which is a major funder of CIMPA. The agreement, renewed for 4 years, now supports more activities and strengthens our partnership with Switzerland.

Finally, at the local level, we have regular exchanges with Marie-Pierre Ballarin, Vice-President in charge of relations with the south, who actively led the actions of Université Côte d'Azur towards developing countries.

More materially, our premises on the Valrose campus have been expanded, with **the installation** of a video recording-broadcasting room for CIMPA's online courses. This room is shared with Marc Monticelli's Mathemarium. Marc is responsible for science outreach to high school students in the region and one can imagine chance encounters between researchers from developing countries and French students in these premises. What a beautiful symbol!





#### WHAT ARE THE IMMEDIATE CHALLENGES?

The pandemic is not over and it will certainly be necessary to contend with travel limitations again this year. Beyond that, we are witnessing a weakening of the economy in some countries as well as diplomatic tensions, which complicates the organisation of events (as was already the case this year in Chad, Pakistan, Palestine and Algeria).

We will therefore work simultaneously on two levels: **smoothing out the difficulties for organisers** to maintain our activities as much as possible; and **relaunching our actions**, which are at half capacity in certain regions that are more affected by the health crisis and have difficulty in planning, such as Asia.

#### **DO YOU HAVE ANY OTHER PROJECTS PLANNED FOR 2022?**

Unless the crisis forces us to do so, I do not plan to enrich the range of our activities next year: let's see how the new activities offered in 2021 develop!

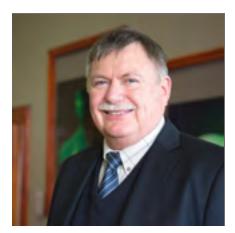
In 2022, the main project will be the **redesign of the CIMPA website**. In addition to a revised layout, there are several new developments planned. Some will facilitate and automate the monitoring and processing of applications and free up time for Agnès Gomez and Héla Lamiri so that they can take care of new tasks (particularly around the Research in Pairs fellowships and video processing); another will offer an expanded menu, presenting not only all of our actions (not just the schools), but also those of our partners in developing countries. This refresh and these functionalities are far from being trivial: for many around the world, **our website is their first encounter with CIMPA** and it is important to inform them as well as possible.



↑ Signature of the bilateral agreement to support the continuation of the Master's programme between CIMPA and the Mathematics & Computer Sciences Applications and Simulation Modeling Laboratory (L2MIAS) (Chad) - December 2021

## GOVERNANCE &ADMINISTRATION

## **NEW GOVERNING BOARD**



Barry Green
PRESIDENT
University of
Stellenbosch,
SOUTH AFRICA



Annie Raoult VICE-PRESIDENT Université de Paris, 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



**Mary Teuw Niane**Université Gaston
Berger de Saint-Louis,
SENEGAL



#### **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
Institut national des sciences mathématiques et de leurs interactions (INSMI-CNRS), FRANCE
Norwegian Ministry of Education and Research, NORWAY
Ministerio de Ciencia, Innovación y Universidades, SPAIN
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,



**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



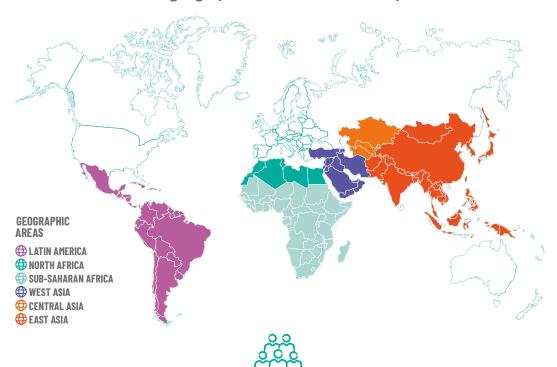
Mythily Ramaswamy ICTS-TIFR, INDIA



**Sara Van de Geer** ETH Zurich, SWITZERLAND

## **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.





#### **EXECUTIVE DIRECTOR & SCIENTIFIC OFFICERS**

Christophe Ritzenthaler EXECUTIVE DIRECTOR Université Côte d'Azur, FRANCE



Alp Bassa
Boğaziçi üniversitesi,
TURKEY
WEST AND CENTRAL



Yacine Chitour
Université ParisSaclay, FRANCE
NORTH AFRICA
AND WEST ASIA

ASIA



Sophie Dabo Université de Lille, FRANCE ⊕AFRICA



Lidia Fernandez
Universidad de
Granada, SPAIN

ASIA



Fabrice Gamboa
Université Paul
Sabatier, FRANCE
WEST ASIA AND LATIN
AMERICA



Joan-C. Lario
Universitat
Politècnica de
Catalunya, SPAIN
BLATIN AMERICA
AND ASIA



Jorge Mozo
Fernandez
Universidad de
Valladolid, SPAIN
WEST ASIA
AND LATIN AMERICA



Stéphanie Nivoche
Université Côte
d'Azur, FRANCE

CENTRAL AND EAST ASIA



Vlady Ravelomanana Université de Paris, FRANCE ⊕ AFRICA



Rosane Ushirobira
Inria, FRANCE

HATIN AMERICA

#### 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 program for the CIMPA Schools and other activities, based on the recommendations of the Scientific Council.



**Barry Green**PRESIDENT
University of
Stellenbosch,
SOUTH AFRICA

#### $\approx$

#### INDIVIDUAL MEMBERS

Annie Raoult VICE-PRESIDENT Université de Paris, FRANCE

**Fatima Aboud**University of Diyala,
IRAQ

Joachim Yameogo TREASURER Université Côte d'Azur,

**Servet Martinez**Universidad
de Chile, CHILE

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

**Mary Teuw Niane**Université Gaston
Berger de Saint-Louis,
SENEGAL



#### **INSTITUTIONAL MEMBERS**

Académie des sciences

Comisión Nacional Española de Cooperación con la UNESCO

Comité Español de Matemáticas (CEMAT)
SPAIN

Commission nationale française pour l'UNESCO FRANCE

**Deutsche Mathematiker-Vereinigung** (DMV)

**Deutsches Elektronen-Synchrotron** (DESY)

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 NORWAY Real Sociedad Matemática Española (RSME)

Spain

Sociedad de

Investigación Operativa (SEIO)

Estadística e

SPAIN

SPAIN

Sociedad Española de Matemática Aplicada (SEMA) SPAIN

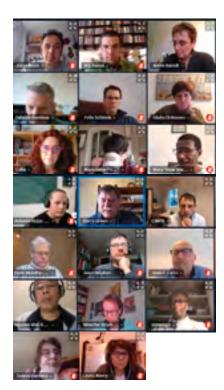
Societat Catalana de Matemàtiques (SCM)

Société de mathématiques appliquées et industrielles (SMAI) FRANCE

**Société Française de Statistique** (SFdS) FRANCE

**Société mathématique de France** (SMF) FRANCE

**Swiss Mathematical Society** (SMS)



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Online Steering Council meeting January 2021

### **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 Coopéración 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

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 Poincare (IHP), France

CIMPA has signed agreements of cooperation with several institutions:

**Arba Minch University**, ETHIOPIA

Centre de Recerca Matemàtica, SPAIN

Institut national de recherches en sciences et technologies du numérique (Inria), FRANCE Laboratoire de Modélisation, Mathématiques, Informatique, Applications

et Simulation (L2MIAS), CHAD

**Nesin Mathematics Village**, TURKEY

Université Côte d'Azur, FRANCE

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

**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)

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

African Mathematical Union (AMU)
South East Asian Mathematical Society (SEAMS)
Unión Matemática de América Latina y el Caribe (UMALCA)
West Asian Mathematical Schools committee (WAMS)

#### Other CIMPA partners:

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

Centro de Modelamiento Matematico (CMM)

Colloque Africain sur la Recherche en Informatique et Mathématiques

**Appliquées** (CARI)

**Comité National Français des Mathématiciens (CNFM)** 

**European Mathematical Society (EMS)** 

Institut de recherche pour le développement (IRD)

**International Mathematical Union (IMU)** 

**International Council for Industrial and Applied Mathematics (ICIAM)** 

**Mathrice** 

**Simons Foundation** 

Soutien aux Activités de Recherche en Informatique et Mathématique

en Afrique (SARIMA)

**UNESCO** 



CIMPA School Kigali, RWANDA June, 2021

## HIGHLIGHTS

### **NEW ACTIVITIES**



#### PRESENTATION OF THE LMS PLATFORM

CIMPA created an LMS (Learning Management System) platform that allows for long-term teaching and exchange with students. Students participating in an online CIMPA School or an online CIMPA Course will be able to log on to the platform. They will have access to several course

videos and related documents. If they have any questions, they can ask them on the Zulip chat platform. They will also be able to meet on BigBlueButton or Zoom and exchange on certain topics or do tutorials.













#### THE RESEARCH IN PAIRS PROGRAMME

The CIMPA Research in Pairs programme aims to enable a mathematics researcher based in a developing country to come to Europe to collaborate with a colleague on a specific project for a short period of time.

During her/his stay, the laureate plans a visit to CIMPA on the campus of Université Côte d'Azur to give an online course which will be recorded and broadcast on our YouTube channel CIMPA Math and on carmin.tv.



#### THE BENEFITS OF THIS FELLOWSHIP:



RECEIVE FUNDING OF UP TO €10,000!



DO RESEARCH IN AN EXCELLENT WORKING ENVIRONMENT



RECORD A FREELY AVAILABLE COURSE WHICH CAN BE USED BY MANY STUDENTS IN THE FUTURE

This programme will be continued in association with ICTP in 2022.





#### ONLINE CIMPA COURSES

An (open) online CIMPA course is an online course in mathematics at master's or research level for students from developing countries. Such courses include interactions with the participants which can be handled through our LMS platform. Speakers can record their lectures at CIMPA premises or at Nesin Mathematics Village.

Christophe Ritzenthaler had the pleasure of meeting Ali Nesin during an online course

he gave and recorded at Nesin Mathematics Village. This was an opportunity to celebrate the establishment of this collaboration and to pave the way for further partnerships between the two institutes.



Stefano Marseglia at CIMPA February, 2021

## HIGHLIGHTS **WITH OUR PARTNERS**

#### LAUNCH OF CARMIN.TV

carmin.tv

On 10 December 2021 carmin.tv was launched. Created by the Centre international de mathématiques pures et appliquées (CIMPA), the Centre international de rencontres mathématiques (CIRM), the Institut Henri Poincaré (IHP), and the Institut des hautes études The directors scientifiques (IHES), carmin.tv is a **new audiovisual broadcasting platform for mathematics** and its interactions with other sciences, especially physics, computer science, and biology. at the launch The platform already contains over 4,500 videos from mathematical events, and will continue to expand over the years. Scientists, students, and the general public can now discover mathematics in a new way.

of CIMPA, CIRM, IHES and IHP of the carmin.tv platform December 2021

By bringing together mathematical research diffused during conferences, workshops and research schools, carmin.tv preserves and shares their scientific and educational value, all while offering the tools needed to conduct high-level documentary research on a video database that is regularly catalogued and expanded. The functionalities and attractivity of the platform make it an asset for the videos recorded during our (online) courses and schools.





## MATH IN FRANCE, A MATHEMATICAL COMMUNITY OPEN TO THE WORLD

france.math.cnrs.fr



The French National Institute for Mathematical Sciences and their Interactions (INSMI-CNRS) in collaboration with CIMPA, CIRM, IHES, and IHP has launched **Math in France**, an institutional website dedicated to the international mathematical community.

Math in France allows visitors to explore opportunities to foster collaborations in mathematics, to get an overview of the structure of mathematical research in France and get in touch with the French mathematical community.

The willingness of INSMI to collaborate with CIMPA in the creation of this website shows that the French community is open to the world and aware of its role in cooperating with developing countries.

## HIGHLIGHTS FROM THE ADMINISTRATION SIDE

## RENEWAL OF ACCREDITATION AS A CATEGORY 2 CENTRE UNDER THE AUSPICES OF UNESCO



CIMPA has just renewed its accreditation as a Category 2 Centre under the auspices of UNESCO. This means that CIMPA shares key objectives with UNESCO, and is committed to achieving them through its activities.

Read the 2021 evaluation report

Enhance scientific research (SDG 9.5)



Achieve **gender equality** and empower all women and girls (SDG 5)



Ensure **equal opportunity** (SDG 10.3)



Enhance North-South, South-South and triangular regional and international **cooperation on and access to science**, technology and innovation (SDG 17.6)

#### CIMPA

CIMPA promotes research in mathematics in developing countries.

CIMPA **enforces gender balance** in its activities.

Almost all CIMPA financial support goes to participants from developing countries.

CIMPA works to **bring together** the different **mathematical communities in the world**.



## ENTRY OF GERMANY AS A MEMBER STATE OF CIMPA

We are very pleased to announce the entry of Germany as a member state of CIMPA. Germany will **financially support CIMPA activities** and will **participate in its governance** with a seat on the Governing Board and three seats on the Steering Committee.



**Giulia Di Nunno** (University of Oslo, Norway), who until now was **one of the scientific officers of the Africa area**, was appointed Chair of the Scientific Council for the 2021-2025 term, succeeding **Hans Munthe-Kaas** (University of Bergen, Norway).







#### **WELCOME TO NEW CIMPA MEMBERS!**



**Marion Darbas** Université Sorbonne Paris Nord, FRANCE



Florence Hubert
Aix-Marseille Université,
FRANCE



**Ezequiel Maderna** Universidad de la República, uruguay



**Hichem Ramoul** Université de Khenchela, ALGERIA



**Peter Stevenhagen**Universiteit Leiden,
THE NETHERLANDS

## 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 8 to 15 days.

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 for participants from neighbouring developing countries or their online participation.



**FORMAT** 

IN PERSON

HYBRID **®** Д

ONLINE



#### Arba Minch, Ethiopia 🧐 🖳

Optimal Control and Applications in Engineering March 29 - April 8

#### Hanoi, Vietnam 🧑 🖳

Functional Equations: Theory, Practice and Interaction April 12-23

#### Casablanca, Morocco 💿 🔲

Structures symplectiques en mathématique, physique et applications au contrôle June 01-06

#### Nador, Morocco 🔲

Équations aux dérivées partielles nonlinéaires, théorie spectrale et applications May 31 - June 07

#### Dakar, Senegal 💿 🖂

Calcul formel, algèbres non-associatives et applications June 14-23

#### Rabat, Morocco 🖂

Optimal Control and its Applications in Economics, Engineering and the Environment June 28 - July 03

#### Kigali, Rwanda 🥎 🔲

Mathematics of Climate Science July 5-13

#### Khansar, Iran \_\_\_

Khansar School on Graph Algebras, Current Trends and Perspectives July 3 - July 14

#### Ulaanbaatar, Mongolia 🧿 🖂

Data Assimilation, Optimization, and Applications July 5-10

#### Lomé, Togo 🛚 🖳

Approches d'apprentissage automatique -Applications aux données de santé July 12-23

#### Bujumbura, Burundi 🛚 🖳

Groups and Lie Algebras, Representation Theory, and their Applications July 19-30





- 1 : Antananarivo (Madagascar) August-September, 2021
- 2: Urgench (Uzbekistan) October-November, 2021
- 3: Ben Guerir (Morocco) November, 2021
- 4: Lahore (Pakistan) November, 2021



#### Guanajuato, Mexico 💻

Hodge Theory and p-adic Hodge Theory August 02-10

#### Antananarivo, Madagascar 💿 💻

Non-associative Algebras and their Applications August 30 - September 11

#### Bobo Dioulasso, Burkina Faso 💿 🖂

Mathématiques discrètes : Combinatoire des mots, combinatoire algébrique et exploration informatique avec SAGE October 18-29

#### Ben Guerir, Morocco 💿 🔲

ABS CIMPA School 2021 for Finance & Operation Research November 01-05



#### Urgench, Uzbekistan 🤊 💻

Complex Analysis, Geometry and Dynamics October 25 - November 6

#### Bejaia, Algeria 🛚 🖳

Divers aspects de la dynamique DAD 21 November 7-18

#### Lahore, Pakistan 🤊 💻

CIMPA school on Recent Advances in Dynamical Systems November 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.



**FORMAT** 

IN PERSON



ONLINE

Lebanese University, LEBANON —

Gröbner Bases
by Philippe Malbos
UNIVERSITÉ CLAUDE BERNARD LYON 1, FRANCE
January 10-16

Université de N'djamena, CHAD Modélisation en épidemiologie by Patrick Tchepmo Djomegni NORTH WEST UNIVERSITY, SOUTH AFRICA May 6-17

Université de N'djamena, CHAD Méthodes des éléments finies by Mohamed Mbehou UNIVERSITÉ DE YAOUNDÉ I, CAMEROON May 22 - June 02

Université de N'djamena, CHAD Modélisation des écoulements des fluides by Patrick Tchepmo Djomegni NORTH WEST UNIVERSITY, SOUTH AFRICA June 28 – July 12 Universidade Pedagógica de Maputo,

MOZAMBIQUE Cálculo diferencial e integral by Lidia Fernández UNIVERSIDAD DE GRANADA, SPAIN June 7 - July 24



1

Adán Rodríguez Martínez in Mozambique October, 2021

#### Universidade Pedagógica de Maputo,

MOZAMBIQUE

Estadística descriptiva e calculo de probabilidades

by Adán Rodríguez Martínez UNIVERSIDAD COMPLUTENSE DE MADRID, SPAIN October 3-25



↑

Tony Ezome Mintsa in Burkina Faso, December, 2021

#### University Nazi Boni, BURKINA FASO

Topologie algébrique by Delphine Moussard (AMU, France) October 16-31

#### University Nazi Boni, BURKINA FASO

Symbolic Dynamics by Nicolas Bédaride UNIVERSITÉ AIX-MARSEILLE, FRANCE October 16-31

#### University Nazi Boni, BURKINA FASO

Introduction à la géométrie algébrique by Tony Ezome Mintsa UNIVERSITÉ DES SCIENCES ET TECHNIQUES DE MASUKU (USTM), GABON November 28 – December 6

#### Institut de Mathématiques et de Sciences

Physiques (IMSP), BENIN

Introduction à la théorie du corps de classes local et global avec un point de vue explicite by Sarielle Peka Minka UNIVERSITÉ DE MAROUA, CAMEROON December 5-18

#### Institut de Mathématiques et de Sciences

**Physiques** (IMSP), BENIN Points rationnels sur les courbes algébriques

définies sur un corps de nombres
by Tony Ezome Mintsa
UNIVERSITÉ DES SCIENCES ET TECHNIQUES
DE MASUKU (USTM), GABON
December 5-18

#### Institut de Mathématiques et de Sciences

Physiques (IMSP), BENIN

Introduction à la théorie du corps de classes local et global avec un point de vue explicite by Christian Maire
UNIVERSITÉ DE FRANCHE-COMTÉ, FRANCE
December 5-18

#### Université de N'Djaména, CHAD

Introduction à la modélisation des maladies infectieuses et à la théorie de bifurcation by Patrick Tchepmo Djomegni NORTH WEST UNIVERSITY, SOUTH AFRICA December 11-17

#### Université de N'Djaména, CHAD

Introduction à la géométrie algébrique by Christophe Ritzenthaler UNIVERSITÉ CÔTE D'AZUR, FRANCE December 15-17



Benin December, 2021

## **ONLINE CIMPA COURSES**

An (open) online CIMPA course is an online course in mathematics at master's or research level for students from developing countries. The courses are generally recorded or broadcast at CIMPA premises or at the Nesin Mathematical Village.



ONLINE COURSES OPEN TO ALL CIMPA, FRANCE 6

Geometry and Arithmetic of Curves of Low Genus

by Christophe Ritzenthaler UNIVERSITÉ CÔTE D'AZUR, FRANCE February - March

CIMPA, FRANCE <u></u>

Complex Abelian Varieties by Anna Somoza Henares UNIVERSITÉ DE RENNES 1, FRANCE February 21-26

CIMPA, FRANCE 🔓

Ideal Class Monoid and Computing Abelian Varieties over Finite Fields by Stefano by Marseglia
UTRECHT UNIVERSITY, THE NETHERLANDS
February 21-26

Nesin Mathematics Village, TURKEY ☐ Complex Analysis

by Jorge Mozo
UNIVERSIDAD DE VALLADOLID, SPAIN
February 28 - March 12

**Nesin Mathematics Village**, TURKEY

Introduction to Model Theory
by Piotr Kowalski
UNIWERSYTET WROCŁAWSKI, POLAND
April 5 - May 15

Nesin Mathematics Village, TURKEY Model Theory and Infinite Galois Theory by Piotr Kowalski UNIWERSYTET WROCŁAWSKI, POLAND May 28 - June 18

From home  $\underline{\underline{\mathbf{G}}}$ 

Introduction to Pharmacokinetics and Pharmacodynamics of Anticancer Drugs by Florence Hubert UNIVERSITÉ AIX-MARSEILLE, FRANCE December 2-3

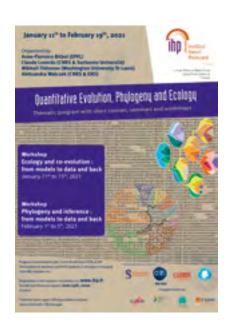


## **CIMPA FELLOWSHIPS**

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.



#### IHP



## QUANTITATIVE EVOLUTION, PHYLOGENY AND ECOLOGY: FROM MODELS TO DATA AND BACK

January 11 - February 19



**Pavel Arnold Ndjawa Yomi**, Université de Yaoundé I , CAMEROON



**Martina Le-Bert Heyl,**Pontificia
Universidad Católica
de Chile, CHILE



**Oussama Lazaar**, Université Moulay Ismail, MOROCCO



Sandy Frank Kwamou Ngaha African Institute for Mathematical Sciences (AIMS), CAMEROON



**Raja Ben Hajria**, Université de Monastir, TUNISIA



**Bose Biswajit**, SRM Institute of Science and Technology, INDIA



## GRAVITATIONAL WAVES: A NEW MESSENGER TO EXPLORE THE UNIVERSE

March 1 - April 9



**Biswas Bhaskar**, Savitribai Phule Pune University, INDIA



**Elham Nazari**, Ferdowsi University Mashhad, IRAN



**Aditya Vijaykumar,** International Centre for Theoretical Sciences, INDIA



## SYMPLECTIC TOPOLOGY, CONTACT TOPOLOGY AND INTERACTIONS

April 19 - July 16



Jonathan Augusto Trejos Olmos Instituto de Matemática Pura e Aplicada (IMPA), BRAZIL

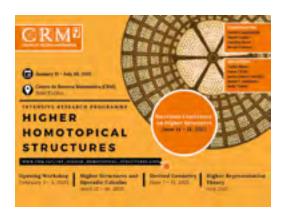


Pierre Célestin Bikorimana, Université d'Abomey Calavi, BÉNIN



**Somnath Basu,**Indian Institute of
Science Education
and Research
Kolkata, INDIA

#### **CRM**



## IRP HIGHER HOMOTOPICAL STRUCTURES \_\_

May 17 - July 10



**Ripan Saha**, Raiganj University, INDIA

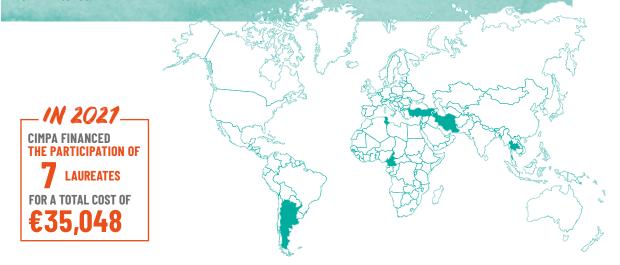


**Juan Carlos Nuñez Maldonado,**Universidade Federal
de São Carlos, BRAZIL

## RESEARCH IN PAIRS PROGRAMME

The fellowships program "Research in Pairs" makes it possible for researchers in mathematics based in a developing country to come to Europe to collaborate with a colleague for a period of at least 6 weeks. During this period, it is expected that these two people will work together on a well-substantiated research project, mainly in the institute of the European colleague.

During the stay, the laureate must include a visit to CIMPA on the campus of Université Côte d'Azur in order to record and broadcast a mini-course on mathematics at master's/beginning of PhD level.





Özgür Martin,

Mimar Mimar Sinan Fine Arts University, TURKEY

♥ University of Amsterdam,
 THE NETHERLANDS

September 1 - October 15



**Somayeh Moradi**, Ilam University,

♂ Universität Duisburg-Essen, GERMANY September 1 - December 31



**Radhouane Fekih-Salem**, Université de Tunis

El Manar, TUNISIA

Institut national de recherche pour l'agriculture, l'alimentation et l'environnement, FRANCE October 26 - December 6



María Chara, Universidad Nacional del Litoral, ARGENTINA

Universidad de Valladolid, SPAIN November 1, 2021 - October 31, 2022



Calvin Tcheka,

Université de Dschang, CAMEROON

Université Côte d'Azur, FRANCE October 12 - December 21



**Essomanda Konzou**, Université de Lomé,

Université de Lorraine, FRANCE October 4 - November 20



**Parin Chaipunya**, King Mongkut's University of Technology Thonburi, THAILAND

Université de Perpignan via Domitia, FRANCE October 2 - December 30



### Watch their interviews on our YouTube channel.

CIMPA MATH /INTERVIEWS

Watch the mini-courses:

CIMPA MATH /MINI-COURSES

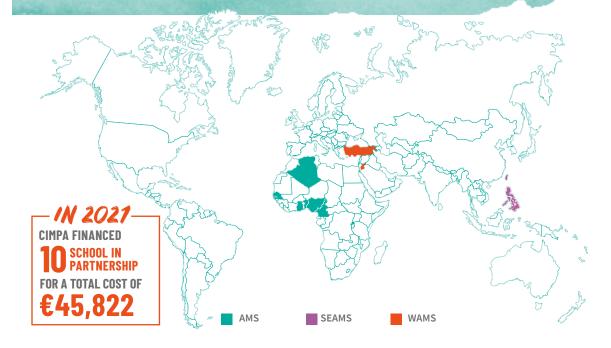
### **SCHOOLS IN PARTNERSHIP**

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:

- African Mathematical Union (AMU)
- Unión Matemática de América Latina y el Caribe (UMALCA)
- Southeast Asian Mathematical Society (SEAMS)
- West Asian Mathematical Schools committee (WAMS)

The Schools in Partnership take place in higher education and research institutions in Africa, South or Central America and West Asia, and have a duration of 1 to 3 weeks.

CIMPA's financial support covers the travel and living expenses for CIMPA participants from neighboring developing countries or their online participation.



#### **AFRICAN MATHEMATICAL SCHOOLS**

ONLINE

Université d'Abomey-Calavi, BENIN © \_\_\_\_ Géométrie de l'information et analyse stochastique (EMA-GIAS) January 18-30



University of Lagos, NIGERIA 
Modelling
June 21 - July 2

Université de Dschang, CAMEROON Q Algebra, Arithmetic and Combinatorial Geometry, Algebra Number Theory and Applications to Cryptology July 19-30

EMA at the University of Lagos (Nigeria) June - July, 2021





EMA at the University of Rwanda August, 2021

#### University of Rwanda 🧇 💻

EAUMP-ICTP School: Topics in Concrete Mathematics August 11-20

## Université des Sciences et de la Technologie Houari Boumédiène (USTHB),

ALGERIA 💻

Dynamique collective, systèmes couplés, et applications en biologie/écologie July 10-15

AIMS, GHANA 💿 💻

Mathematical Methods in Analysis and Probability August 16-27 



EMA at AIMS Senegal September, 2021

#### **SEAMS SCHOOLS**

Caraga State University, PHILIPPINES © \_\_\_\_ Modern Tools for Mathematical Modeling of Ecosystems August 23 - September 3

> SEAMS at Caraga State University (Philippines) August-September, 2021



### **WEST ASIA MATHEMATICAL SCHOOLS**

Yarmouk University-Irbid-Jordan, JORDAN

Mathematical Methods in Biological and Related Sciences October 31 - November 5 Nesin Mathematics Village, Izmir, TURKEY

Numerical Methods for ill-posed Problems November 28 - December 5

# FINANCIAL HIGHLIGHTS

## **CIMPA SUBSIDIES**

CIMPA receives subsidies from various European and international institutions



INSTITUT NATIONAL **DES SCIENCES** MATHÉMATIQUES **ET DE LEURS** INTERACTIONS (FRANCE)



LABORATOIRE D'EXCELLENCE CARMIN (FRANCE)



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



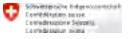
MINISTÈRE DE L'EUROPE **ET DES AFFAIRES** ÉTRANGÈRES (FRANCE)



UNIVERSITÉ CÔTE D'AZUR (FRANCE)



MINISTRY OF EDUCATION AND RESEARCH (NORWAY)





LA SAMONS

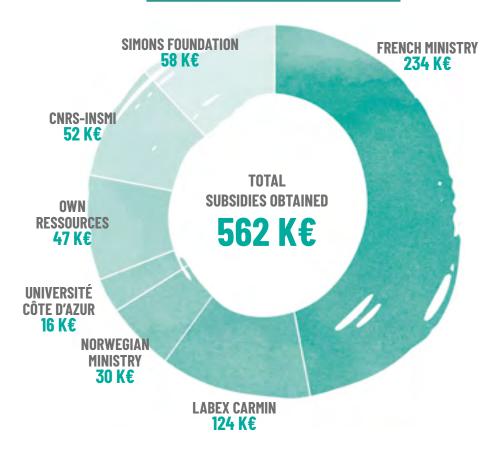
SECRÉTARIAT D'ÉTAT À LA FORMATION, À LA RECHERCHE ET À L'INNOVATION (SWITZERLAND)

UNIVERSITÉ DE NEUCHÂTEL (SWITZERLAND)

SIMONS FOUNDATION

#### **2021 SUBSIDIES**

TOTAL INCOME	561,538.75
Contributions, donations	43,044.22
Donations to the Graduate Research Assistantships in Developing Countries (GRAID) programme from IMU	4,090.00
Université Côte d'Azur	15,901.44
Labex CARMIN *of which 57,330.00€ will be spent in 2022	123,868.00*
CNRS-INSMI	52,000.00
SIMONS Foundation (69 200 USD)	58,335.09
Ministry of Education and Research (Norway)	30,000.00
Université de Neuchâtel et SEFRI (Switzerland) *part of the 2020 Swiss contribution was used in 2021.	0.00*
MENESR/DGRI	234,300.00



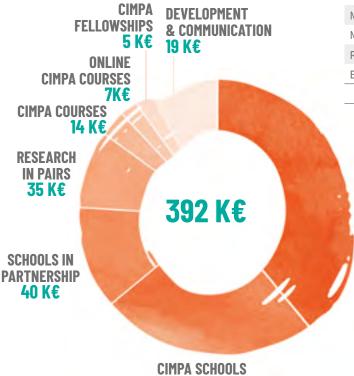
## **2021 FINANCIAL STATEMENT**

#### **2021 EXPENSES**

FIXED COSTS	
Bank charges + online payment fees	2,211.02
Office supplies	167.91
UCA occupancy costs	2,040.00
Insurance	426.82
Fees: accountant, auditor	14,022.00
Professional dues, donations	790.00
Corporate tax	150.00
Salaries, social security contributions, occupational health care, share of prof. training	111,231.03

#### SUBTOTAL FIXED COSTS 131,038.78

DEVELOPMENT & COMMUNICATION	
Computer hardware, software and video room equipment	7,406.40
Communication	6,518.55
LMS platform + website redesign	14,503.20
Depreciation of office equipment, furniture, license	-9,799.79
SUBTOTAL DEVELOPMENT & COMMUNICATION	18,628.36



91 K€

ACTIVITIES	
2020 CIMPA SCHOOLS POSTPONED To 2021	
Pakistan	8,550.50
Algeria - CANCELLED	0.00
Cuba - CANCELLED	0.00
Tunisia (Tunis) - CANCELLED	0.00
Morocco (Nador)	468.00
Congo POSTPONED TO 2022	
Mexico (Mexico City) POSTPONED TO 2022	
Iran (Khansar)	0.00
Colombia (Bogota) POSTPONED TO 2022	
Rwanda	1,821.00
Senegal - CANCELLED	0.00
Iran (Zanjan) - CANCELLED	0.00
South Africa (Stellenbosch) - CANCELLED	0.00
Morocco (Rabat)	600.00
Armenia - CANCELLED	0.00
El Salvador POSTPONED TO 2022	
Brazil (Sao Carlos) POSTPONED TO 2022	
Mexico (Guanajuato)	278.00
Madagascar	4,923.84
Russia - CANCELLED	0.00
Brazil (Natal) - CANCELLED	0.00
S/TOTAL 1	16,641.34

ADMINISTRATION + MISCELLANEOUS 182 K€

TOTAL SCHOOLS IN PARTNERSHIP	39,822.05
WAMS	8,000.00
SEAMS	2,000.00
Thematic Month at AUST (Nigeria) CANCELLED	0.00
EMA	29,822.05
SCHOOLS IN PARTNERSHIP	
S/TOTAL SCHOOLS (1+2)	91,355.86
S/TOTAL 2	74,714.52
Egypt POSTPONED TO 2022	
Burkina Faso	5,396.41
Benin POSTPONED TO 2022	
Palestine - CANCELLED	0.00
Mexico (Morelia) - CANCELLED	0.00
Colombia (Villa de Leyva) - CANCELLED	0.00
South Africa (Cape Town) POSTPONED TO 2022	
Colombia (Popayan) - CANCELLED	0.00
Togo	10,953.00
Mongolia	2,277.00
Senegal (Dakar)	11,384.00
Morocco (Casablanca)	10,000.00
Morocco (Essaouira) - CANCELLED	0.00
Madagascar POSTPONED TO 2022	
Uzbekistan	400.00
Vietnam	5,616.00
Ethiopia	7,506.00
Morocco (Ben Guerir)	684.25
Algeria	9,068.36
Senegal (M'bour) POSTPONED TO	
Pakistan POSTPONED TO 2022	
Lebanon POSTPONED TO 2022	
Burundi	11,429.50
India POSTPONED TO 2022	

CIMPA FELLOWSHIPS	
IHP Trimester T1a "Quantitative Evolution, Phylogeny and Ecology: from Models to Data and Back"	
remote (6 laureates)	2,796.00
IHP Trimester T1b "Gravitational Waves, a New Messenger to Explore the Universe" remote (3 laureates)	500.00
IHP Trimester T2 "Symplectic topology, contact topology and interactions" remote (4 laureates)	892.00
IHP Trimester T3 "Post-Quantum Algebraic Cryptography" CANCELLED	0.00
Intensive Research Programmes CRM Barcelona « Structures homotopiques supérieures » remote (2 laureates)	992.00
CIRM-SMAI Programme - CEMRACS SUMMER SCHOOL	0.00
CIRM Thematic Month « Mathématiques pour les signaux, les images et les données structurées » CANCELLED	0.00
TOTAL CIMPA FELLOWSHIPS	5,180.00
DECEADOU IN DAIDO (7 LAUDEATEO)	
KESEAKCH IN PAIKS (/ LAUKEAI ES)	35,048.04
RESEARCH IN PAIRS (7 LAUREATES) CIMPA COURSES	35,048.04 13,529.14
CIMPA COURSES	13,529.14
CIMPA COURSES ONLINE CIMPA COURSES	13,529.14
CIMPA COURSES  ONLINE CIMPA COURSES  OTHER EXPENSES  Support for IRAQ activities via the	13,529.14 6,767.59
CIMPA COURSES  ONLINE CIMPA COURSES  OTHER EXPENSES  Support for IRAQ activities via the French Embassy (2020 report)  Ad hoc support for research	13,529.14 6,767.59 5,322.00 5,505.78
CIMPA COURSES  ONLINE CIMPA COURSES  OTHER EXPENSES  Support for IRAQ activities via the French Embassy (2020 report)  Ad hoc support for research training activities  Support for the Graduate Research Assistantships in Developing Countries (GRAID) programme	<b>13,529.14 6,767.59</b> 5,322.00
CIMPA COURSES  ONLINE CIMPA COURSES  OTHER EXPENSES  Support for IRAQ activities via the French Embassy (2020 report)  Ad hoc support for research training activities  Support for the Graduate Research Assistantships in Developing Countries (GRAID) programme of IMU  Executive team and board	13,529.14 6,767.59 5,322.00 5,505.78
CIMPA COURSES  ONLINE CIMPA COURSES  OTHER EXPENSES  Support for IRAQ activities via the French Embassy (2020 report)  Ad hoc support for research training activities  Support for the Graduate Research Assistantships in Developing Countries (GRAID) programme of IMU  Executive team and board member expenses  Expenses for General Assembly/ Governing Board/Scientific Council/ Steering Committee	13,529.14 6,767.59 5,322.00 5,505.78 34,040.00 5,878.06
CIMPA COURSES  ONLINE CIMPA COURSES  OTHER EXPENSES  Support for IRAQ activities via the French Embassy (2020 report)  Ad hoc support for research training activities  Support for the Graduate Research Assistantships in Developing Countries (GRAID) programme of IMU  Executive team and board member expenses  Expenses for General Assembly/ Governing Board/Scientific Council/ Steering Committee meetings	13,529.14 6,767.59 5,322.00 5,505.78 34,040.00 5,878.06
CIMPA COURSES  ONLINE CIMPA COURSES  OTHER EXPENSES  Support for IRAQ activities via the French Embassy (2020 report)  Ad hoc support for research training activities  Support for the Graduate Research Assistantships in Developing Countries (GRAID) programme of IMU  Executive team and board member expenses  Expenses for General Assembly/ Governing Board/Scientific Council/ Steering Committee meetings  TOTAL OTHER EXPENSES	13,529.14 6,767.59 5,322.00 5,505.78 34,040.00 5,878.06
CIMPA COURSES  ONLINE CIMPA COURSES  OTHER EXPENSES  Support for IRAQ activities via the French Embassy (2020 report)  Ad hoc support for research training activities  Support for the Graduate Research Assistantships in Developing Countries (GRAID) programme of IMU  Executive team and board member expenses  Expenses for General Assembly/ Governing Board/Scientific Council/ Steering Committee meetings  TOTAL OTHER EXPENSES  TOTAL ACTIVITIES	13,529.14 6,767.59 5,322.00 5,505.78 34,040.00 5,878.06 74.60 50,820.44 242,523.12

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