International cooperation in mathematics:

some examples, including CIMPA, EMS - CDC, IMU - CDC, ICTP, TWAS, OWSD, Simons Foundation, ISP, RNTA, SEAMS, EMALCA, APSA, SARIMA, AFRIMAth

Michel Waldschmidt Professeur Émérite, Sorbonne Université, Institut de Mathématiques de Jussieu, Paris

http://www.imj-prg.fr/~michel.waldschmidt/

CIMPA

CIMPA Centre International de Mathématiques Pures et Appliquées



https://www.cimpa.info/index.php



About us CIMPA Schools CIMPA Courses CIMPA Fellowships Schools in Partnership

Funding Opportunities

We give below a list of international institutions, organisations or foundations which work for the promotion of education and research and are likely to open calls and provide funding for the development of mathematics with a special emphasis on developing and emerging countries.

- Agence Universitaire de la Francophonie (AUF)
- CNRS
- European Mathematical Society Committee for Developing Countries (EMS-CDC)
- International Centre for Theoretical Physics (ICTP)
- International Mathematical Union Commission for Developing Countries (IMU-CDC)
- International Science Program (ISP)
- Organization for Women in Science for the Developing World (OWSD)
- Schlumberger Foundation
- Simons Foundation
- The World Academy of Sciences (TWAS)
- Volkswagen Foundation

Please let us know your suggestions to extend the above list by sending an email to director@cimpa.info.



CIMPA schools in 2023



CIMPA: International Center of Pure and Applied Mathematics

Mission: promote research cooperation in mathematics with developing countries





Unesco 2 center



Non profit French Association



www.cimpa.info





Campus of Université Côte d'Azur

Employees:

- · Executive director Executive secretary
- Communication officer
- Budget: ~700k€

~150 individual members and 28 institutional members

State members: France, Germany, Norway, Spain and Switzerland



(7 individual + 8 institutional)



(7 individuals + 18 institutional)



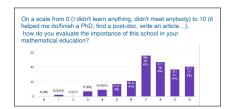
(~12 members)

General principles

- No isolated action: make a difference by coordinating activities and building long term programs.
- No brain drain: encourage local activities and colleagues who chose to work in their country
- Take into account ethical, gender and environmental issues

For which results?

Useful events for our participants



Useful events for our partners

- · Increase their international visibility;
- · Confort their position in their institution;
- Explore and deepen collaborations with colleagues from developed countries and from the region;
- · Create long-term institutional projects





- ~10 professors/school
- Local and State member coordinators



- ~30 courses every year
- 1 professor for ~30 participants



Support ~20 schools/year
 Collaboration with 4
 continental organizations



 ~10 young mathematicians participate to long terms thematic programs each year

3 centers: IHP, CIRM, CRM



- · Long term (> 6 weeks) collaborations
- · Record/broadcast a mini-course
- Visit a research center (CIRM, CRM, ICTP, MFO)



- · Record a Master level course in a professional environment
- · Nice or Math Village near Izmir

GROWING LIBRARY OF LECTURES ON carmin.tv









An external coordinator (France, Germany, Norway, Spain, Switzerland)

A DUO





A local coordinator (in a developing country)

CONTACT A SCIENTIFIC OFFICER TO DISCUSS THE PROJECT



the relevance of the school for the country and the region



local impact of the project and construction of a long term project



budget well prepared and seeking for external funding

TEAM UP WITH COLLEAGUES AND BUILD A SCIENTIFIC PROGRAM

scientific and pedagogical qualities of

gender balance: at least 30% of men and 30% of women

local engagement of professors







SUBMIT YOUR PROPOSAL ONLINE



REVIEW BY THE SCIENTIFIC COUNCIL



VALIDATION AT THE STEERING COUNCIL

Budget: between 8,000 and 15,000€



YEAR X

Between March and October

November

YEAR X+1

February



2023 CIMPA African Mathematical Schools (AMS)



AESIM 2023

Asian and European Schools In Mathematics (AESIM)

In 2023, the CIMPA supports the organization of 3 AESIM Schools in Partnerships (previously WAMS).

Directed Reading Program Türkiye 2023 (online program)

Dates: August 28 - September 1

Coordinators: Bengier Ülgen Kılıç (bengieru@buffalo.edu) and Eda Kırımlı (eda.kirimli@bristol.ac.uk)

Website: https://sites.google.com/view/drp-turkey/homepage?authuser=0

Mathematical Foundations of Explainable Artificial Intelligence

Venue: Nesin Mathematics Village (Turkey)

Dates: September 11-16

Coordinator: Mustafa Topkara (mustafa.topkara@msgsu.edu.tr)

Mathematics for Health Sciences

Venue: Birla Institute of Technology & Science Pilani (India)

Dates: December 28 - January 6, 2024

Coordinators: Rajesh Kumar (rajesh.kumar@pilani.bits-pilani.ac.in), Nabil Bedjaoui (nabil.bedjaoui@u-picardie.fr), Joaquim M C Correia (imcorreia@uevora.pt)

https://www.cimpa.info/en/node/6676

UMALCA — EMALCA



https://www.umalca.org/eventos/emalca/

Escuelas de Matemática de América Latina y del Caribe (EMALCA)

List of EMALCA in 2023

EMALCA México

Venue: Centro de Ciencias Matemáticas

Dates: June 26-30

Coordinator: Ferrán Valdez (ferran@matmor.unam.mx)

FMALCA El Salvador

Venue: Universidad de El Salvador

Dates: July 10-21

Coordinator: Oscar Armando Hernández Morales (oscararmandohm@gmail.com)

Emalca Brasil

Venue: Universidade Federal de Mato Grosso do Sul and Centro de Convenções de Bonito

Dates: September 11-22

Coordinator: Leandro Bezerra de Lima (leandro.lima@ufms.br)

EMALCA Paraguay

Venue: Universidad Nacional de Itapua

Dates: October 2-13

Coordinator: Christian E. Schaerer (chris.schaerer@gmail.com)

Emalca Colombia

Venue: Universidad Industrial de Santander

Dates: December 11-22

Coordinator: Federico Castillo (efecastillo.math@gmail.com)

https://www.cimpa.info/en/node/6671

EMS Committee for Developing Countries

EMS
European Mathematical
Society

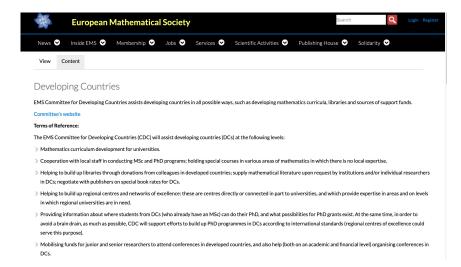


EMS Committee for Developing Countries assists developing countries in all possible ways, such as developing mathematics curricula, libraries and sources of support funds.

https://euromathsoc.org/

https://euromathsoc.org/committee-developing-countries

EMS CDC (Committee for Developing Countries)



https://nickpgill.github.io/emscdc/about

EMS CDC

The Committee for Developing Countries is a committee of the European Mathematical Society

Aims and Objectives

We aim to assist developing countries in all possible ways. Some examples:

- the development of mathematics curricula;
- · cooperation with local staff in conducting M.Sc. and Ph.D. programs;
- · helping to build up libraries;
- · helping to build up regional centres and networks;
- providing information about further studies for students from developing regions;
- sourcing funds for junior and senior researchers to attend conferences.

https://nickpgill.github.io/emscdc/about

ERCE (Emerging Regional Centres of Excellence)

2019-23 : VIASM (Vietnam);

2022-25 : AUST (Nigeria), ZLAM (Iran), IMSP (Benin), UCA

(Morocco), ITB (Indonesia), INSPEM (Malaysia).

About Advantages	Criteria	How to apply	
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ERCE is a label of quality awarding those institutes that show an outstanding level in their own area of influence in research and education, being an attractor of students from other regions and countries. The label is granted for a period of 4 years with possibility of being renewed. The focus of this project is the education of students in the developed world to the Masters level and possibly PhD.

https://nickpgill.github.io/emscdc/erce

Previous holders of the ERCE label: ASSMS (Pakistan), UB (Botswana), CIMAT (Mexico).



African University of Science and Technology, Mathematics Institute, Abuja, Nigeria



The African University of Science and Technology (AUST) is a Pan-African institution, established in 2007. AUST in Abuja was the first of these Centers of Excellence to be established. It currently only offers Graduate level programs by a combination of course work and cutting edge research.

More information on the department of mathematics can be found at their webpage.

https://nickpgill.github.io/emscdc/erce_aust

Probability and Statistics, Université Cadi Ayyad



Based in Marrakech, Morocco, this department received the ERCE label in 2016.

More information on the department of mathematics can be found at their webpage.

https://nickpgill.github.io/emscdc/erce_uca

ERCE

Institut de Mathématiques et de Sciences Physiques, Dangbo, Benin (IMSP)



Based in Dangbo, Benin, IMSP received the ERCE label in 2016.

More information on IMSP can be found at their webpage.

https://nickpgill.github.io/emscdc/erce_imsp

Call for Applications ERCE 2022-2026 Emerging Regional Centre of Excellence

ERCE (Emerging Regional Centre of Excellence) is a label awarded by the EMS-CDC (European Mathematical Society-Committee of Developing Countries) to centres which have achieved an outstanding level in their area of influence in research and education, thus attracting students from other regions and countries. Indeed, the education of master and PhD students is an asset for raising the quality and diffusion of mathematics worldwide. ERCE centres are among those which play an important role in training students in their region, particularly more students from less developed areas. With the global proliferation of emerging economies worldwide, there are varying degrees of development among developing countries, just as there are within the developed world.

Call for Applications ERCE 2022-2026

Very good centres exist in emerging economies where students from the least developed regions can be trained to the master level and beyond. Indeed, the most talented students may wish to pursue further education after the master's degree and be eligible for a PhD. A higher number of masters and PhDs is an enrichment for any country in terms of human resources with specialised high competence. A full education obtained in one of the outstanding centres in the region is a better guarantee for returning to the original country and as such is an effective way of fighting brain drain, whilst also being cost effective. In this spirit, the first ERCE centre label was awarded in 2011. Since then, several other centres obtained this prestigious recognition.

With the success of this scheme the EMS-CDC is now opening a new call for applications.

https://ems.press/journals/mag/articles/16601



EMS Simons For Africa



News Magazine Membership Services Activities Scientific Activities Regional Conferences ECM P

EMS-Simons for Africa

A program for scientific visits of young and established researchers from the African Continent administered by the EMS Committee for Developing Countries.



https://euromathsoc.org/ems-simons-africa

EMS Simons For Africa

The African Continent is very diversified and the development of a career in mathematics faces different and sometimes difficult progression. The Committee for Developing Countries of the EMS, with the support of the Simons Foundation, opens a program of research visits to foster research opportunities for young and established researchers.

The aim is to promote individual career possibilities with consequence of an improved global capacity in African academic institutions. The program is open to all areas of pure and applied mathematics and statistics and it is directed to fellows based in Africa.

https://euromathsoc.org/ems-simons-africa

IMU



Commission for Developing Countries (CDC)

The CDC has the mandate to manage all initiatives of the IMU in support of mathematics in developing and economically disadvantaged countries.

Besides administering the Grants Programs for Mathematicians as well as the Volunteer Lecture Program, the CDC takes part in the following types of activities in accord with various aspects of its mission:

https://www.mathunion.org/activities/commission-developing-countries-cdc

- Research
- Support of local initiatives
- Support of Educational and Local Capacity Building Programs
- Implementation of IMU member contribution programs destined for support of mathematics and mathematics teaching in developing countries.
- Exploration of funding and grant opportunities of new and existing sponsors.
- Development of proposals and joint activities with partner organizations.
- Identification of inexpensive and free online mathematics research resources and advertise these to mathematicians in the developing world.
- Service as a "clearing-house" for the activities of individual countries and mathematics societies in support of mathematicians in the developing world.
- Encouragement of proposals and support projects from mathematical organizations or individual mathematicians in the developing world

In order to pursue its mission CDC receives an annual grant from IMU.

IMU CDC

IMU Commission for Developing Countries (CDC)



https://www.mathunion.org/activities/commission-developing-countries-cdc

The CDC is charged with the following missions:

- to manage, strengthen and promote the programs of the IMU in developing and economically disadvantaged countries.
- to search for funding to support the corresponding activities.
- to establish institutional partnerships with scientific organizations with common goals.



https://www.mathunion.org/cdc/

IMU CDC (Commission for Developing Countries)



https://www.mathunion.org/cdc

IMU CDC



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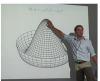
https://www.mathunion.org/cdc

IMU CDC



Graduate Scholarships

- IMU Breakout Graduate Fellowship Program
- GRAID Progam



Grants for Mathematicians

- Conference Support Program
- Research Travel Grants
- Project Grants



CDC Activities during ICMs

- ICM Travel Grants
- CDC Panel and Poster Session during the ICM 2018
- MENAO 2014



Lecturing and Mentoring

- Volunteer Lecturer Program
- ADMP
- MARM

https://www.mathunion.org/cdc

IMU Volunteer Lecturer Program

https://www.mathunion.org/cdc/lecturing/volunteer-lecturer-program

Two main objectives of the Volunteer Lecturer Program are :

- 1. to build capacity in mathematics and mathematics education in developing countries, and
- 2. to increase mathematical interaction between the mathematical community in the developed world and the vast, mostly untapped reservoir of mathematical talent in the developing world.

The Volunteer Lecturer Program offers universities in the developing world lecturers for intensive 3-4 week courses in mathematics at the advanced undergraduate or master's level. The funds for all living expenses, including travel (up to USD 5000 paid in EUR) are provided by IMU/ CDC or its supporting organizations (AMS, USNCM and Abel Board).

The course given by the volunteer should be part of a regular mathematics undergraduate or master degree program at the hosting university.



IMU CDC VLP

Volunteer Lecturer Program

Volunteer Lecturer Program of the IMU Commission for Developing Countries

The goal of this program is to foster research and international cooperation between mathematicians in developing countries and the international mathematical community, offering to the universities in the developing countries the economical support to host volunteer lecturers for intensive 3-4 week courses in mathematics. The course given by the volunteer should be part of a regular mathematics undergraduate or master degree program at the hosting university, in subjects where the applicant university could have a lack of expertise. The program is partially funded by the American Mathematical Society and the Niels Henrik Abel Board (Norway).

https://www.mathunion.org/cdc/lecturing/volunteer-lecturer-program



Volunteer Lecturer Program

www.mathunien.org/cdc > Volunteer Lecturer > Information for Lecturers

Home | Contact | Sitemap

Information for Lecturers

VLP Algeria VLP Cambodia VLP Benin

VLP El Salvador VLF Lacs VLP Niperia

VLP Tenzania History VLP Donations to VLP

Balatari Links

Program Outline and Requirements for Lecturers

We seek mathematicians interested to lecture for intensive Information for Universities 3-4 week courses at universities in the developing world, at the advanced undergraduate or master level in topics such as statistics, differential equations, numerical analysis, etc., the capacity for which is lacking at many universities in developing nations

> The lecturer would be assisted by a local mathematics professor who prepares the students beforehand, assists when necessary during the course, and takes care of any necessary follow-up. These courses should have a student audience of 15-20 or more, be controlled, with examinations, and be part of a regular degree program at the university at which they are offered.

Past experience in the developing world is desirable but not necessary. However what is required is tolerance for working in circumstances of modest resources, unexplained inefficiencies, and limited physical comforts.



Martha Byrne (USA) in 2010 at Obafemi Awolowo University in Be-life, Nigeria.



Padmanabhan Seshaiver (USA) in 2011 at NM AIST-Arusha in Tanzania.

IMU Volunteer Lecturer Program (VLP): Mathematics Education as a Tool for International Development





Goals of the IMU VLP

- To build capacity in mathematics and mathematics education in developing countries
- To increase interaction between the mathematical community in the developed world and the mostly untapped mathematical talent in the developing world

Structure

- 3-4 week intensive courses at the upper undergraduate or master's level
- Substantial course enrollment (~ 20 students)
- Support in recruitment of students, scheduling and living arrangements for the volunteer from local host
- All financial costs of the volunteer are covered by the IMU

Breakout Graduate Fellowships

Support for postgraduate studies in a developing country, leading to a PhD degree in the mathematical sciences with duration of up to four years, for excellent students from developing countries.

Donation by the winners of the Breakthrough Prizes in Mathematics (Ian Agol, Jean Bourgain, Simon Donaldson, Christopher Hacon, Maxim Kontsevich, Vincent Lafforgue, Jacob Lurie, James McKernan, Terence Tao and Richard Taylor), IMU - with the assistance of FIMU (www.friends-imu.org) and TWAS (https://twas.org) - has now raised \$ 900,000.

https://www.mathunion.org/cdc/scholarshipsgraduate-scholarships/ imu-breakout-graduate-fellowship-program



Graduate Assistantships in Developing Countries (GRAID)





From L-R Angel Pineda, Wandera Ogana, David Ssevviiri, Ingrid Daubechies, Edgar Ichoundia

The deadline for the current round of applications is April 15, 2023.

https://www.mathunion.org/cdc/scholarships/graduate-scholarships/graduate-assistantships-developing-countries



Structure of GRAID

- The Principal Investigator (PI) and International Partner (IP) should be in regular contact and have an active collaboration.
- The PI is responsible for ensuring smooth sustained communication in the Team between, the graduate research assistants and the IP.

Requirements

- PI should live and work in a developing country listed in Priority 1 or 2 of the IMU CDC Definition of Developing Countries.
- IP should not live and work in a developing country listed in Priority 1 or 2 of the IMU CDC Definition of Developing Countries.

GRAID Support

Amount of Support:

- Up to USD 3,500 per student per year.
- Up to 3 graduate research assistantships per team.

Duration of the Support

- · Up to 4 years for PhD students
- Up to 2 years for master's students

https://www.mathunion.org/cdc/scholarshipsgraduate-scholarships/graduate-assistantships-developing-countries

Supported Teams

Cohort 1 (2017):

- Cameroon + USA (<u>Pl:Edgar</u> <u>Tchoundja</u>, IP: Brett Wick)
- Morocco + Spain (PI: <u>Driss</u> Bennis, IP: Luis <u>Ovonarte</u>)

Cohort 2 (2018):

 Uganda + UK (PI: David Ssevviiri, IP: Michael Wemyss)

Cohort 3 (2019):

- Burkina Faso + France (PI: Idrissa Kabore, IP: Nicolas Bedaride)
- Pakistan + Germany (PI: Sarfraz Ahmad, IP: Volkmar Welke)



From L-R Keumo Adriel (student), Edgar Tchoundia (PI), Defo Hugues (student)

Graid cohorts 4 and 5

Cohort 4 (2020)

- ullet Ivory Coast + France (PI : Modeste
- Nzi, IP : Etienne Pardoux)
- Benin + USA (PI : Romain Giele Kakai, IP : Calistus Ngonghala)
- Nepal + USA (P.I. Kedar Nath Uprety, IP : Naveen K. Vaidya)
- Cameroon + USA (PI : Ngwa Gideon Akumah, IP : Ijang Teboh-Ewungken)

Cohort 5 (2021)

- Congo + France (PI : Basile Bossoto, IP : Christian Maire)
- Phlippines + Canada (IP : Aurelio de Los Reyes, IP : Stacey Smith?)
- ullet Ghana + UK (PI Jefferey Ezearn, IP : Ihechukwu Chinyere)



From L-R : Anjana Pokharel, Naveen K. Vaidya, Uprety Kedar Nath, Khagendra Adhikari, Ramesh Gautam.

Fundraising (Friends of the IMU)

- International Congress of Women Mathematicians (ICWM) 2014
- Donations from members of the American Mathematical Society (AMS) during membership renewals.
- One-time or recurring donations from individual mathematicians.
- Grassroots fundraising activities (i.e. RunForGRAID)

http://friends-imu.org/graid-donation/



IMU-CWM

Committee for Women in Mathematics
The remit of CWM is to promote international contacts between national and regional organisations for women and mathematics and to undertake other related activities
The central goal from now until ICM Rio 2018 is to help to establish networks of women mathematicians especially in Asia, Latin America and Africa.

https://www.mathunion.org/activities/committee-women-mathematics-cwm

ICTP

ICTP International Centre for Theoretical Physics



https://www.ictp.it/research/math.aspx

ICTP

Since 1986 the Mathematics section at ICTP has played an important role in fostering mathematics research and education in developing countries. Research is carried out in various fields of Mathematics by the permanent staff, postdocs, and graduate students, as well as by scientific visitors from all over the world.

Typically, the section organizes from 5 to 10 focused activities a year involving an average of 100 participants. These activities are the core of the section's activities and are crucial for disseminating current mathematics knowledge of the highest level as widely as possible.

https://www.ictp.it/research/math.aspx

ICTP

In addition the Mathematics section, like all the other sections at ICTP, participates in the Diploma program. Since 2011 Diploma students can apply to stay on to work on a PhD in Mathematics in a joint program with SISSA.

The Mathematics section also offers opportunities for postdocs and research fellows; click here for latest announcements.

Once a month, the section organises The Basic Notions Seminar Series to broaden the understanding of some mathematical concepts.

https://www.ictp.it/research/math.aspx



https://twas.org/

Organization for Women in Science for the Developing World (OWSD)

OWSD PhD Fellowships

This information is also available in: French Spanish

The Fellowship is offered to women scientists from **science- and technology-lagging countries** (STLCs) to undertake PhD research in the natural, engineering and information technology sciences at a host institute in another developing country in the Global South.

The call for applications is closed.

The next call for applications will open in early 2023.

https://owsd.net/

Program Areas

Grants to Individuals

- Simons Investigators
- Simons Fellows
- Collaboration Grants for Mathematicians
- Targeted Grants in MPS
- AMS-Simons Travel Grants

https://www.simonsfoundation.org/mathematics-physical-sciences/

Simons Foundation

Grants to Institutions

- Simons Institute for the Theory of Computing ☐
- Targeted Grants to Institutes
- Africa Mathematics Project
- Simons Observatory
- Simons Array

Mathematics and Physical Sciences

MPS-NSF Joint Programs

- NSF-Simons Collaboration on a National Institute for Theory and Mathematics in Biology (NITMB)
- NSF-Simons MathBioSys Research Centers
- NSF-Simons Research Collaborations on the Mathematical and Scientific Foundations of Deep Learning

https://www.simonsfoundation.org/mathematics-physical-sciences/

ISP

International Science Programme (ISP) - Uppsala University, Sweden.

The ISP collaboration in different countries can be described as follows :

In the ISP core programs (Chemistry, Mathematics and Physics) through direct collaboration with individual research groups and networks of research groups,

Collaboration through coordination of Sida bilateral research programs with different countries,

Collaboration through separate agreements, with full cost cover from the collaborating partner.

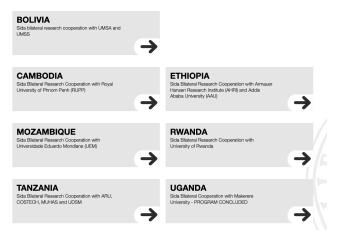
https://www.isp.uu.se/

Sida Bilateral Research Cooperation

ISP is assigned by Sida as the coordinating entity for the Swedish activities in all Sida bilateral research programs, namely in Bolivia, Cambodia, Ethiopia, Mozambique, Rwanda, Tanzania and Uganda.

More about Sida's research cooperation.





https://www.isp.uu.se/what-we-do/bilateral-coordination/

Eastern Africa Universities Mathematics Programme (EAUMP)

The network EAUMP was constituted in 2002 by the Department of Mathematics at Makerere University (Uganda), University of Dar es Salaam (UDSM, Tanzania) and University of Nairobi (UoN, Kenya). A few years later the Departments of Mathematics at University of Rwanda (UR) and University of Zambia (UNZA) also joined the network.

https://www.isp.uu.se/what-we-do/mathematics/networks/eaump/

PDE, Modeling and Control

The network was created in 1999 by researchers from the Departments of Mathematics at University Joseph Ki-Zerbo (Burkina Faso), University of Gaston Berger (Senegal) and University of Nouakchott (Mauritania). In 2012 researchers from the Department of Mathematics at University of Science, Techniques and Technology of Bamako (USTTB; Mali) joined the network. Researchers from the University of Cocody-Abidjan (Ivory Coast) are also members of the network. The network is coordinated by Professor Hamidou Toure, University Joseph Ki-Zerbo.

https://www.isp.uu.se/what-we-do/mathematics/networks/pde/

ISP

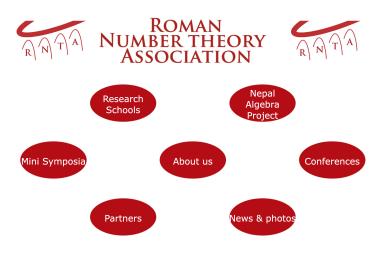
Ethiopia

The Department of Mathematics at Addis Ababa University receives support from the mathematics program to the project Capacity Building in Mathematics

Niger

A research group at Université Abdou Moumouni is a member of the ISP supported network PDE, Modeling and Control.

RNTA



http://www.rnta.eu/



Research Schools

· A CIMPA research school on

Isogenies of elliptic curves and their applications to cryptography

July 24th - August 4th, 2023

· A CIMPA research school on

Introduction to Galois representations and modular forms and their computational aspects
University of the Philippines Diliman

January 2023

· WAMS School

Topics in commutative algebra

University of Sulaimani, Sulaimani, Kurdistan Region, Iraq September 3rd - 7th 2022

WAMS School

Topics in algebraic number theory

Salahaddin University, Erbil, Kurdistan Region, Iraq August 22nd - 28th 2022

· A CIMPA research school on

Algebra, arithmetic and applications

Institut de Mathématiques et de Sciences Physiques, Dangbo, Bénin June. 12-24 2022

WAMS School

Lattices, Diophantine Approximation and Heights
Urgench State University, Urgench, Uzbekistan

June 6-10, 2022

NAP — Nepal Algebra Project



Fields and Galois Theory " multiple hands " course in Nepal 2016 - 2021

2020 Edition

2019 Edition

2017 Edition

2018 Edition

2016 Edition

SEAMS



APPLICATIONS FOR SEAMS SCHOOLS 2023 IS NOW OPEN

https://seams-math.org/





APSA Awards

The Association for the Scientific Promotion of Africa (APSA) is issuing a call for proposals to finance four research stays for African doctoral students or already confirmed researchers working in Africa in the fields of mathematical, physical or computer sciences.

The winners will spend one to three months in a foreign laboratory of their choice. The programme will be open to researchers from all over Africa but priority will be given to sub-Saharan Africa compared to North or South Africa. It will attach particular importance to gender-balanced recruitment.

APSA will cover, up to a maximum of Euros 5,000 per winner, in complement with the laboratories and host institution, all travel expenses (economy class), visa and subsistence expenses (health insurance, accommodation, per diem) for the winners

GIS SARIMA



Groupement d'Intérêt Scientifique – Soutien aux Activités de Recherche en Informatique et Mathématique en Afrique

SARIMA signifie Soutien aux Activités de Recherche en Informatique et Mathématique en Afrique.

SARIMA est un groupement d'intérêt scientifique qui regroupe 20 partenaires.

Son principal objectif est de coordonner les activités de ses membres visant à soutenir la formation et la recherche en informatique et en mathématique en Afrique sub-saharienne.

http://sarima.edu-math.org/



AFRIMath Network



Afrique France Réseau International en Mathématiques

AFRIMath est un Réseau International de Recherche du CNRS regroupant des mathématiciennes et mathématiciens localisées principalement en Afrique subsaharienne et en France. Ce réseau s'organise autour de quatre thèmes principaux:

- Théorie des nombres et théorie de l'information
- Géométrie et Topologie
- Analyse des EDP, Analyse Numérique
- Probabilités et Statistiques

AFRIMath s'inscrit dans la continuité d'actions entreprises depuis plusieurs décennies, en particulier via le Groupement d'Intérêt Scientifique SARIMA.

http://www.afrimath.math.cnrs.fr/



https://international.cnrs.fr/en/

The CNRS opens three calls for projects to reinforce its scientific cooperation with Africa

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Le CNRS lance une série d'appels à projets pour promouvoir la coopération scientifique avec et sur le continent africain.//The CNRS is launching a series of calls for projects to promote scientific cooperation with and on the African continent.

These three calls for projects are open until February 20th 2023

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Some advices for applicants

You need to browse the internet where you will find a lot of other opportunities.

Write carefully your application; check that there is no misprint; correct the spelling.

Write a strong and convincing letter of motivation.

International cooperation in mathematics:

some examples, including CIMPA, EMS - CDC, IMU - CDC, ICTP, TWAS, OWSD, Simons Foundation, ISP, RNTA, SEAMS, EMALCA, APSA, SARIMA, AFRIMAth

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