



African Mathematical Schools (EMA)

Call for proposals 2021

The African Mathematic Union (AMU) and the Centre International en Mathématiques Pures et Appliquées (CIMPA) are supporting and encouraging the organization of African Mathematical Schools (EMA). These schools are part of the [CIMPA Schools in Partnership](#) and their aim is to teach relevant and new topics in order to help motivated and able young people to continue their studies. The applications are evaluated and approved by a joint committee AMU-CIMPA. This committee will be especially vigilant on the following points:

- An EMA is **not a research school** and of course not a workshop. It should be made for master students in priority.
- Sections **EMA characteristics** and **Preparation of the application** detailed beyond must be very **carefully respected**.
- The overall budget of an EMA must be **reasonable**.
- **Women involvement** should be significant at every level (participation, organization, scientific committee).

Proposals should be sent in **one single pdf file** by email to the coordinator kangnikinvi@yahoo.fr before October 1st, 2020.

Main objectives of the African Mathematical School

- Provide Master students or early PhD students with the mathematical foundations and essential tools of selected active areas of mathematics.
- Contribute to the development of mathematics in all regions of the African continent by promoting the exchange of knowledge between young african mathematicians and the

international mathematical community.

- Break the isolation of african mathematicians by providing a platform for meeting fellow mathematicians from around the world, for exchanging knowledge and for sharing experience.
- Identify talented students who are able to pursue Masters and PhD program.

EMA characteristics

- An EMA is organized for a number of participants between 40 and 80 and lasts 2 to 4 weeks around one, or even better, several topics.
- **These schools are of Master Degree or end of Bachelor level and are intended for students from countries (and neighboring countries) where they stand.** The involvement of the students must be stimulate by mini projects or exercises sessions, eventually computer assisted.
- Some kind of evaluation at the end is expected. The evaluation methods are chosen by the organizers but should be part of the proposal.
- A significant part of the teaching should be provided by lecturers coming from the organizing country or neighboring ones.
- Scientific talks of survey type can be scheduled at the end of the school but not research talks (or eventually master degree thesis or PhD student's talks).
- Organizers will have to submit (to the EMA committee and CIMPA) a synthetic report (scientific, administrative and financial) and a list of participants within one month after the school.

CIMPA Financial support

- It is deeply expected that the expenses are shared between the host country, the AMU, the CIMPA and other partners (universities or country of origin of the speakers or participants, IMU, AIMS, IRD).
- A significant support of the host country will facilitate the CIMPA support and will favor its extent.
- For the schools organized in the Mediterranean Rim, at least half of the CIMPA support should be used for Sub-Saharan participants.
- As an indication, the CIMPA financial support planned for the schools selected in 2020 was € 5,000 per school.

Preparation of the application

The applications should be detailed and **must** contain the following information:

- The coordinator.
- The scientific and organizing committee.
- The host institution for the EMA.
- The expected dates.
- The projected lectures: duration, abstract, lecturers (specify their home university) pedagogical frame (tutorials, exercises, use of computers or other facilities, mini-projects, etc), mechanism of evaluation. An expected schedule would be welcome.
- The number of expected students with the proportion coming from the host country and from other countries. The expected proportion of female students is also required.
- The housing and food facilities that will be made available to students from outside the host country.
- The lodging facilities and living conditions offered to the lecturers.
- The scientific material that will be produced by the EMA.
- The estimated budget.

For the preparation of the application, the organizers are encouraged to take contact with the EMA committee thanks to the email kangnikinvi@yahoo.fr