

EAUMP-ICTP School and Workshop on Homological Methods in Algebra and Geometry II



9 - 28 July 2018
Dares-Salaam - United Republic of Tanzania

Further information:
<http://indico.ictp.it/event/8373/>
smr3219@ictp.it

This is a three-week school and workshop on homological methods in algebra and geometry. The first two weeks will be a school for students from East Africa and beyond. International and African researchers will join for a workshop in the third week.

Description:

The school begins with two introductory courses on some basic techniques that are widely used in the area. These are then built upon in the second week with slightly more advanced topics. The goal here is to give the participants a glimpse into some ideas used in algebraic geometry and homological algebra with the hope of inspiring them to pursue further research in a related topic.

The school is intended for advanced graduate students (M.Sc. and Ph.D.) and young academic staff members from East Africa and beyond. Senior academic members are also welcome to participate.

In the last week, the activity turns into a research-focus session involving international and African experts. The focus session will study tensor categories and how they arise naturally in algebraic geometry, with the aim of exploiting them using homological algebra.

School Topics:

- Advanced linear algebra
- Galois theory
- Elementary algebraic geometry
- Introduction to homological algebra.

Workshop topic:

- Tensor categories of coherent sheaves.

How to apply:

Online application:
<http://indico.ictp.it/event/8373/>

Female students and scientists are encouraged to apply.

Grants:

Application is open to all mathematicians and graduate students from developing countries. Applicants from EAUMP member states will be given priority. We encourage participants to secure their own funding for travel and subsistence from their home institution. Limited funds are available for participants from Sub-Saharan African countries. There is no registration fee.

Organizers:

Tarig Abdelgadir (UNSW Sydney)
Ulrich Krähmer (TU Dresden)
Sylvester Rugeihyamu (Dar Es Salaam)
David Ssevviiri (Makerere)
Balázs Szendrői (Oxford)
Fernando Rodriguez Villegas (ICTP)

School Speakers:

Ravi Ramakrishna (Cornell)
David Ssevviiri (Makerere)
Chelsea Walton (Temple)
Michael Wemyss (Glasgow)

Workshop Speakers:

Raf Bocklandt (Amsterdam)
John Boiquaye (Accra)
Andre Saint-Eudes Mialebama Bouesso (AIMS-South Africa)
Alexandru Chirvasitu (Boulder)
Sira Gratz (Glasgow)
Sue Sierra (Edinburgh)
Hermann Sore (Burkina Faso)
Greg Stevenson (Glasgow)
Ralph Twum (Accra)

ICTP Scientific Contact:

L. Gottsche (ICTP)

Deadline:

1 April 2018



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