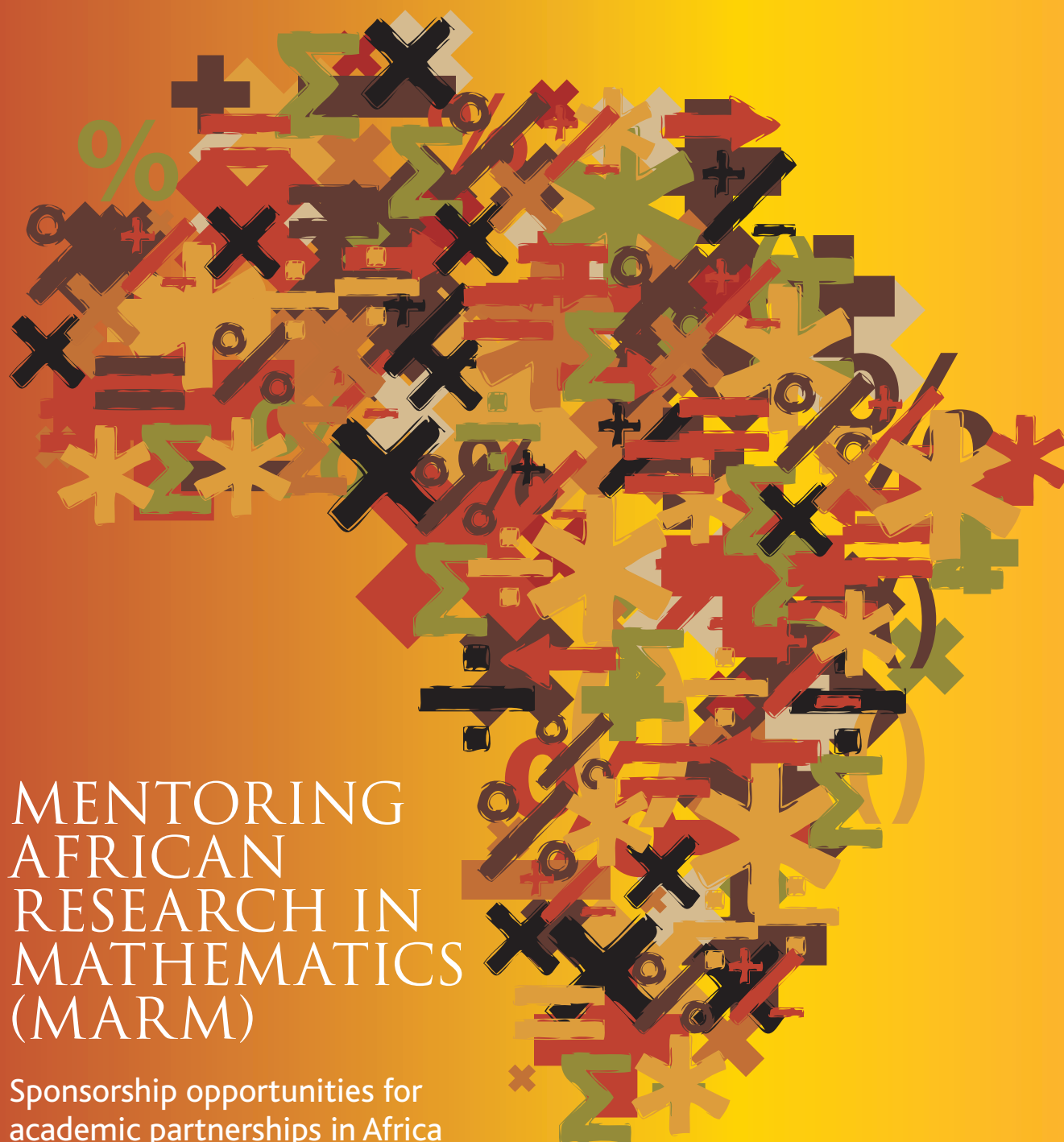




LONDON
MATHEMATICAL
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MENTORING AFRICAN RESEARCH IN MATHEMATICS (MARM)

Sponsorship opportunities for
academic partnerships in Africa



THE MARM PROGRAMME

The aim of the programme is to enable all mathematicians in Africa to pursue academic careers of the highest standard.

Supporting the development of a vibrant mathematical community within and across Africa should provide a subsequent impact throughout the world of mathematics.

MARM links African academics with their UK and European counterparts via professional mentoring partnerships. In doing so, MARM provides the means and opportunities for African mathematicians to develop international working relationships while also improving the quality of academic provision within their home institutions.

It is believed that enhancing and developing academic research and research institutions in Africa will help ensure that pursuing world-class mathematical careers within Africa will be both achievable and a more attractive option than moving permanently. Over time, the strengthening of the mathematical community across Africa will benefit not only the African community itself, but worldwide mathematics as a whole.

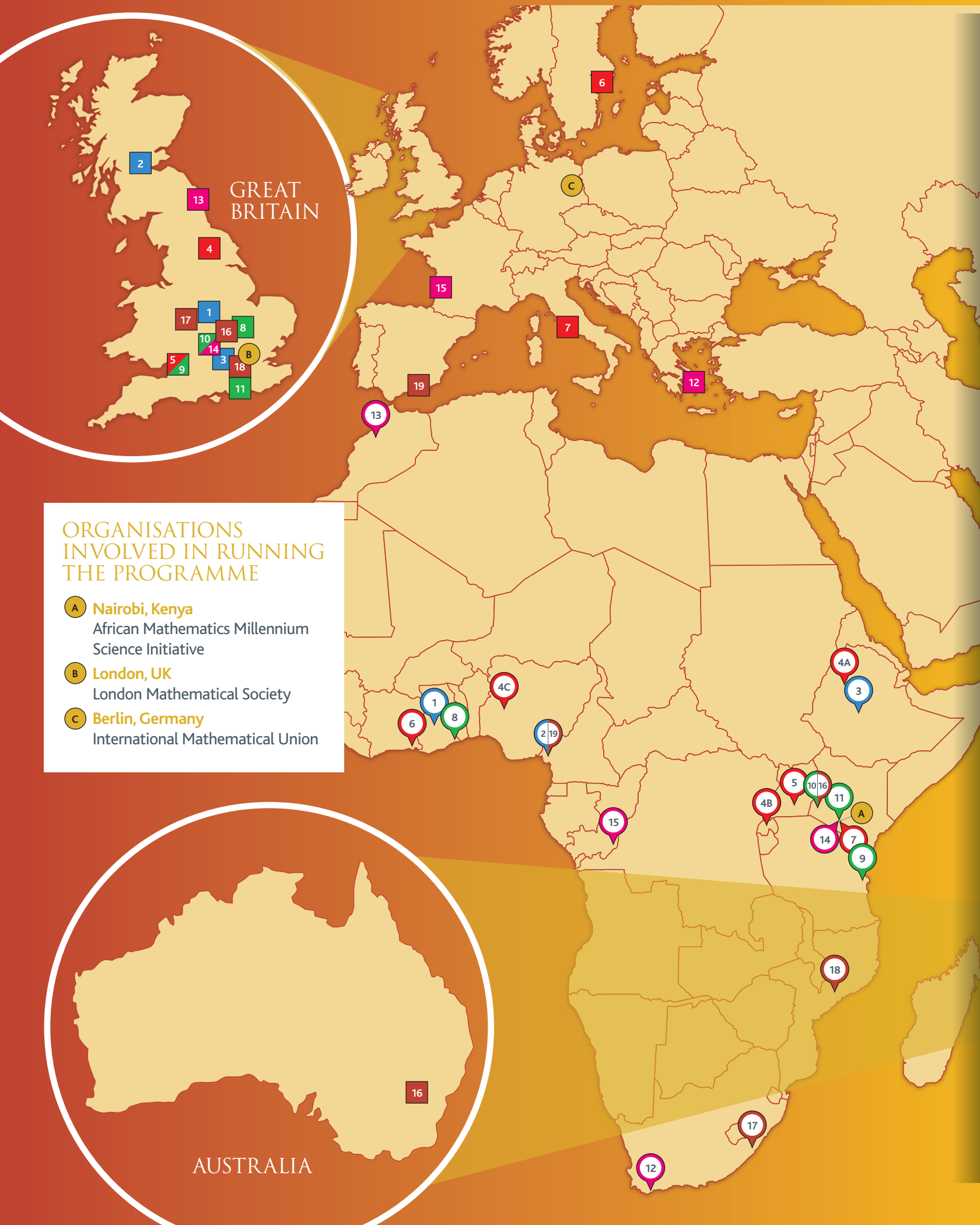
THE MARM PARTNERSHIPS

19 partnerships have been awarded to date in: Cameroon, Ethiopia, Ghana, Ivory Coast, Kenya, Malawi, Morocco, Nigeria, Republic of the Congo, Rwanda, South Africa, Tanzania and Uganda.

Each partnership has collaboratively defined its own objectives and priorities specific to the needs of the African institution and its own targeted methods of accomplishing these.

Activities undertaken have included:

- ✦ Exchange visits
- ✦ Lectures, seminars and workshop series at African institutions
- ✦ Joint PhD supervision
- ✦ Improvements in library and IT resources at African institutions
- ✦ Support for conference attendance (in Africa and internationally)
- ✦ Consultancy and advice on developing postgraduate programmes
- ✦ Mentoring and support for African postgraduate students with respect to wider academic and life skills
- ✦ Mentoring African early career staff in research and other skills
- ✦ Working with African university administrators to improve recruitment
- ✦ Improving African departmental structuring
- ✦ Working with African institutions to ensure the maintenance of resources for mathematics departments
- ✦ Developing of research contacts and networking



ORGANISATIONS INVOLVED IN RUNNING THE PROGRAMME

- A Nairobi, Kenya**
African Mathematics Millennium Science Initiative
- B London, UK**
London Mathematical Society
- C Berlin, Germany**
International Mathematical Union

MARM IN AFRICA

ROUND 1 PARTNERSHIPS

- 1 Kumasi, Ghana**
Kwame Nkrumah University of Science and Technology, Ghana (partnered with University of Leicester, UK)
- 1 Leicester, UK**
University of Leicester, UK (partnered with Kwame Nkrumah University of Science and Technology, Ghana)
- 2 Buea, Cameroon**
University of Buea, Cameroon (partnered with Heriot-Watt University, UK)
- 2 Edinburgh, UK**
Heriot-Watt University, UK (partnered with University of Buea, Cameroon)
- 3 Addis Ababa, Ethiopia**
Addis Ababa University, Ethiopia (partnered with Brunel University, UK)
- 3 Uxbridge, UK**
Brunel University, UK (partnered with Addis Ababa University, Ethiopia)

ROUND 2 PARTNERSHIPS

- 4A Bahir Dar, Ethiopia**
Bahir Dar University, Ethiopia (partnered with University of York, UK)
- 4B Kigali, Rwanda**
National University of Rwanda, Rwanda (partnered with University of York, UK)
- 4C Ilorin, Nigeria**
University of Ilorin, Nigeria (partnered with University of York, UK)
- 4 York, UK**
University of York, UK (partnered with Bahir Dar University, Ethiopia; National University of Rwanda, Rwanda; and University of Ilorin, Nigeria)
- 5 Kampala, Uganda**
Makerere University, Uganda (partnered with University of Bath, UK)
- 5 Bath, UK**
University of Bath, UK (partnered with Makerere University, Uganda)
- 6 Abidjan, Ivory Coast**
Université de Cocody-Abidjan, Ivory Coast (partnered with Stockholm University, Sweden)

- 6 Stockholm, Sweden**
Stockholm University, Sweden (partnered with Université de Cocody-Abidjan, Ivory Coast)
- 7 Nairobi, Kenya**
Kenyatta University, Kenya (partnered with Sapienza – Università di Roma, Italy)
- 7 Rome, Italy**
Sapienza – Università di Roma, Italy (partnered with Kenyatta University, Kenya)

ROUND 3 PARTNERSHIPS

- 8 Accra, Ghana**
University of Ghana, Ghana (partnered with University of Cambridge, UK)
- 8 Cambridge, UK**
University of Cambridge, UK (partnered with University of Ghana)
- 9 Dar Es Salaam, Tanzania**
University of Dar Es Salaam, Tanzania (partnered with University of Bath, UK)
- 9 Bath, UK**
University of Bath, UK (partnered with University of Dar Es Salaam, Tanzania)
- 10 Kisumu, Kenya**
Maseno University, Kenya (partnered with University of Oxford, UK)
- 10 Oxford, UK**
University of Oxford, UK (partnered with Maseno University, Kenya)
- 11 Nairobi, Kenya**
University of Nairobi, Kenya (partnered with University of Sussex, UK)
- 11 Brighton, UK**
University of Sussex, UK (partnered with University of Nairobi, Kenya)

ROUND 4 PARTNERSHIPS

- 12 Cape Town, South Africa**
University of Cape Town, South Africa (partnered with Athens University of Economics and Business, Greece)
- 12 Athens, Greece**
Athens University of Economics and Business, Greece (partnered with University of Cape Town, South Africa)
- 13 Rabat, Morocco**
Université Mohamed V-Agdal, Morocco (partnered with Newcastle University, UK)

- 13 Newcastle, UK**
Newcastle University, UK (partnered with Université Mohamed V-Agdal, Morocco)
- 14 Nairobi, Kenya**
University of Nairobi, Kenya (partnered with University of Oxford, UK)
- 14 Oxford, UK**
University of Oxford, UK (partnered with University of Nairobi, Kenya)
- 15 Brazzaville, Congo**
Marien Nguabi University, Congo (partnered with Université de Bordeaux, France)
- 15 Bordeaux, France**
Université de Bordeaux, France (partnered with Marien Nguabi University, Congo)

ROUND 5 PARTNERSHIPS

- 16 Eldoret, Kenya**
Moi University, Kenya (partnered with University of South Wales, Australia, and the Open University, UK)
- 16 South Wales, Australia, and the UK**
University of South Wales, Australia, and the Open University, UK (partnered with Moi University, Kenya)
- 17 KwaZulu-Natal, South Africa**
University of KwaZulu-Natal, South Africa (partnered with the University of Birmingham)
- 17 Birmingham, UK**
University of Birmingham, UK (partnered with the University of KwaZulu-Natal, South Africa)
- 18 Zomba, Malawi**
University of Malawi, Malawi (partnered with Imperial College, London)
- 18 London, UK**
Imperial College, London (partnered with the University of Malawi, Malawi)
- 19 Douala, Cameroon**
University of Douala, Cameroon (partnered with the University of Malaga, Spain)
- 19 Malaga, Spain**
University of Malaga, Spain (partnered with the University of Douala, Cameroon)



WHAT MARM HAS ACHIEVED

From a relatively low-level investment, the outcomes of MARM have been substantial:

- ✦ Directly led to the leveraging of external funds into the National Institute of Mathematical Science at Kwame Nkrumah University of Science and Technology, Ghana
- ✦ Supported the Kenyatta University International Mathematics Conference series and the International Conference on Mathematics and its Applications, encouraging networking and attracting international speakers to the continent
- ✦ Development of the next generation of African mathematicians via supervision and support for postgraduate students
- ✦ Lasting improvements to a number of higher education facilities
- ✦ Fundamental institutional improvements including improved and enhanced academic curricula and departmental organisation and resourcing
- ✦ Joint publications by European and African Researchers

HOW CAN YOU BE INVOLVED?

The LMS wants to build upon the extensive work and successes already achieved by the MARM programme.

We are looking for new sponsorship to both continue and expand the mentoring partnerships. With more funds we can increase the grants available to partnerships and extend the length, thus enabling the partnerships to develop further and more deeply.

With available funding there are other opportunities that we would welcome the opportunity to explore such as:

- ✦ Web-based learning and its implications at both undergraduate and postgraduate level
- ✦ Masters level education – including courses, teaching and student mentoring – and its contributions to the academic pipeline in Africa
- ✦ Postgraduate scholarships in Africa to support academic needs from postgraduate education to conference attendance
- ✦ International conference series in Africa – developing the foundations already laid and taking these to world class level

We would welcome further discussion on how best the programme can be developed and funding maximised.

www.lms.ac.uk/mentoring-african-research-mathematics-marm



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MARM PARTNERS

ROUND 1

Dr Frank Neumann, University of Leicester and
Professor Isaac K. Dontwi, Kwame Nkrumah University
of Science and Technology
Professor Sergey Mikhailov, Brunel University and
Dr Tsegaye Gedif Ayele, Addis Ababa University
Professor Sergey Foss, Heriot-Watt University and
Professor Gideon A. Ngwa, University of Buea

ROUND 2

Professor Sanju Velani, University of York and
Professor Verdiana Masanja, National University of Rwanda
Professor Gregory Sankaran, University of Bath and
Dr Juma Kasozi, Makerere University
Professor Nigel Cutland, University of York and
Dr Habtu Zegeye, Bahir Dar University
Dr Brent Everitt, University of York and
Professor Mathias Bamigbola, University of Ilorin
Professor Enrico Rogora, Sapienza – Università di Roma and
Dr David M. Malonza and
Professor Leo Odongo, Kenyatta University
Professor Mikael Passare, Stockholm University and
Professor Modeste N'Zi, Université de Cocody-Abidjan

ROUND 3

Dr Maciej Dunajski, University of Cambridge and
Dr Margaret McIntyre, University of Ghana
Dr Balazs Szendroi, University of Oxford and
Dr David Stern, Maseno University
Dr Anotida Madzvamuse, University of Sussex and
Professor Richard Simwa and
Dr James Nkubi Katende, University of Nairobi
Dr Ben Adams, University of Bath and
Professor E.S. Massawe, University of Dar es Salaam

ROUND 4

Dr Panagiotis Besbeas, Athens University of Economics and
Business and
Dr Res Altwegg, University of Cape Town
Professor Michael Dritschel, Newcastle University and
Professor Omar El Fallah and
Professor Nouzha El Yacoubi, Université Mohammed V-Agdal
Dr Balazs Szendroi, University of Oxford and
Dr Damian Maingi, University of Nairobi
Professor Alain Yger, Université de Bordeaux and
Professor Basile Bossoto, Marien Ngouabi University

ROUND 5

Dr Nick Gill, University of South Wales, and
Dr Ian Short, The Open University, and
Dr Fredrick Nyamwala Oluoch, Moi University
Professor Sergey Shpectorov and **Dr Kay Maagard**,
University of Birmingham, and
Professor Bernardo Rodrigues, University of KwaZulu-Natal
Dr Ambrus Pál, Imperial College, London, and
Dr Patrick Ali, University of Malawi
Benjamín Olea Andrades, University of Malaga, and
Ferdinand Ngakeu, University of Douala

The Mentoring African Research in Mathematics (MARM) programme has been running since 2006 with original funding from the Nuffield Foundation and the Leverhulme Trust.

The London Mathematical Society's current MARM programme is sponsored by the London Mathematical Society and the International Mathematical Union (IMU) in association with the African Mathematics Millennium Sciences Initiative (AMMSI).

The members of the MARM Board are: John Ball (Oxford), Herbert (Charles) Clemons (Ohio State), Stephen Huggett (Plymouth), Frank Neumann (Leicester) and Wandera Ogana (Nairobi). Please direct any questions on the MARM programme to MARM@lms.ac.uk.