



AIO Network Workshop

June 19-24, 2016

Bits & Brains

d'Ameland Kaap, Hollum, Ameland

Three Dutch Materials Research Schools: MESA⁺-Institute for Nanotechnology, Twente, Zernike Institute for Advanced Materials, Groningen, and Institute for Molecules and Materials, Nijmegen, are jointly organizing a summer school/workshop entitled "Bits & Brains" for PhD-students (AIO/OIO's) in materials research. The workshop will be held on the island of Ameland (The Netherlands) from 20 to 24 of June 2016 (arrival June 19th). The workshop is sponsored by the AIO-network (Universities of Groningen, Nijmegen, and Twente), but is also open to PhD-students from other universities.

Scope

The human brain, with its intricate architecture combining both processing and storing of information, only consumes about 10 Watt of energy while having a similar capacity to a supercomputer consuming around 10 Megawatt. Can we actually mimic the brain efficiency using novel electronic materials? The aim of the school is to give an introduction into these novel concepts as well as novel research approaches invented for these studies. The subjects will include strongly correlated materials and phenomena, magnetism, brain architectures, and theory.

The workshop will consist of lectures and additional discussions.

Active participation by the PhD students is expected, including the obligatory presentation of a poster about their own research (not necessarily coinciding with the topic of the workshop). The lecturers are explicitly asked to give tutorial presentations with emphasis on the basic understanding of their subject, which culminate in their view on the present day understanding and challenges of their specific topic.

Programme Committee

Alexander Brinkman (UT, MESA+ Institute for Nanotechnology)
Maria Antonietta Loi (RUG, Zernike Institute for Advanced Materials)
Andrei Kirilyuk, (RU, Institute for Molecules and Materials)

Organizing Committee

Andrei Kirilyuk (A.Kirilyuk@science.ru.nl)
Erna Gouwens (E.Gouwens@science.ru.nl)

For the registration, workshop program and upcoming information, see the workshop website:

<http://www.ru.nl/imm/news-events/summer-schools/>

Lecturers:

Hans Hilgenkamp (Twente)
Cristiane de Morais Smith (Utrecht)
Theo Rasing (Nijmegen)
Alex Khajetoorians (Nijmegen)
Mikhail Katsnelson (Nijmegen)
Nigel Hussey (Nijmegen)
Johan Mentink (Nijmegen)

