

7th African School on Electronic Structure Methods and Applications - ASESMA 2023



12 - 23 June 2023
Kigali, Rwanda

Further information:
<http://indico.ictp.it/event/10181/>
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The aim of the School is to introduce young African researchers to the theory of electronic structure and other atomistic simulation methods, with an emphasis on the computational methods for practical calculations.

Description:

The African School series on Electronic Structure Methods and Applications is planned on a biennial basis from 2010 to 2020. Previous schools were held in Cape Town, South Africa (2010), Eldoret, Kenya (2012), Johannesburg, South Africa (2015), Accra, Ghana (2016), and Addis Ababa, Ethiopia (2018). In 2021, ASESMA was held as an ICTP Virtual school.

The School will also cover basic and advanced topics and applications of these methods to the structural, mechanical and optical properties of materials.

The School will include hands-on tutorial sessions based on public license codes (including, but not limited to, the Quantum Espresso package).

Topics:

- Electronic structure theory
- Density functional theory and functionals
- Phonons
- Magnetism
- Molecular dynamics
- Ab-initio molecular dynamics
- Optical spectroscopies
- Machine learning and data science

How to apply:

Online application:
<http://indico.ictp.it/event/10181/>

Female scientists are encouraged to apply.

Grants:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

Directors:

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Deadline:

15 March 2023

