



The Abdus Salam
International Centre
for Theoretical Physics



8th African School on Electronic Structure Methods and Applications - ASESMA 2025

Description:

The aim of the School is to introduce African researchers to the quantum-mechanical theory of electronic structure and other atomistic simulation methods.

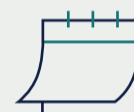
MORE INFORMATION:

The ASESMA is planned on a biennial basis. The School will 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). On the occasion of the 2025 International Year of Quantum Science and Technology, a special session will be dedicated to quantum computing for materials science and materials for quantum computing.

SPEAKERS:

S. Bonella
CECAM and EPFL, Switzerland
C. Carbogno
Fritz Haber Institute of the Max
Planck Society, Germany
M. Casida
University of Grenoble-Alpes, France
N. Chetty
Witwatersrand University, South
Africa
I. Dabo
Carnegie Mellon University – Africa,
Rwanda
N. Dzade
Penn State University, USA
O. R. Jolayemi
Covenant University, Nigeria
J. Junquera
University of Cantabria, Spain

G. Manyali
Kaimosi Friends University, Kenya
F. Mohamed
Ecole Polytechnique, France
M. A. A. Musa
Ecole Polytechnique, France
S. Narasimhan
JNCASR Bangalore, India
M. Pavanello
Rutgers University, USA
J. Sifuna
The Catholic University of Eastern
Africa, Kenya
I. Timrov
PSI, Switzerland
A. Urban
Columbia University, USA



9 - 20 June 2025



Accra, Ghana



**Deadline:
23 March 2025**

DIRECTORS:

O. Akin-Ojo, University of Ibadan, Nigeria
M. Egblewogbe, University of Ghana
K. Govender, University of Johannesburg, South Africa
S. Griffin, Lawrence Berkeley National Laboratory, USA
G. G. Hagoss, University of Ghana
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R. Martin, Stanford University, USA
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A. Schleife, UIUC, USA

ICTP SCIENTIFIC CONTACT

N. Seriani, ICTP, Italy

FURTHER INFORMATION:

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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.

