



# ADVANCED SCHOOL ON MATERIALS MODELING FROM FIRST-PRINCIPLES

organised by

## LPHE-Modelling & Simulation

in collaboration with

### CPM- Morocco & REJCPM

Faculty of Science,  
Mohammed V University in Rabat, Morocco  
29 November-06 December 2017,



## MAIN GOALS

The aim of this school is to enable participating scientists to combine the most advanced approaches to quantum materials simulation with an in-depth understanding of modern parallel architectures. The intensive program will link the theoretical presentations and technical lectures given in the Lecture room of “Centre Doctorale” with practical courses and dedicated hands-on sessions performed in the LPHE-MS computer laboratory.

Lecturers from the “Institute Quantum Theory of Materials of the Peter GrünbergInstitut (PGI) and the Institute of Advanced Simulation (IAS) of the ForschungszentrumJülich, Germany” and “Centro de Física de Materiales, San Sebastián, SPAIN” will cover advanced topics in different areas of computational science.

## PARTICIPATION

A Maximum number of 20 selected participants will attend the school. There is no registration fee. As the activity will be conducted in Laboratory- LPHE-MS, twelve Master students, PhD students and young post-docs from “Modelling and Simulation of Physical properties of emergent materials at nanoscale”- LPHE-MS of Faculty of Science are selected. Eight places are available for participants that have a proven experience in Quantum Espresso code and that are members in groups of research at Moroccan Universities and scientific institutes.

Sponsored by



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Please note that the Hands on-Tutorial is open only for participants of the school for the limited number of laptops

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**Coordinator of School:** Prof. Lalla Btissam Drissi, **Email for contact:** [ldrissi@fsr.ac.ma](mailto:ldrissi@fsr.ac.ma)

Local organising committee: R. Ahl Laamara (CRMEF-Fes Meknes), L. B. Drissi (FSR), E. H. Saidi (FSR).  
LPHE-MS, Faculty of Science, University Mohammed V in Rabat, Morocco.

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