

Opening workshop for the SimLab “Quantum Materials”

Date: April 4 2017

Duration: One day (from 09:00 to 16:30)

Venue: Rotunda Hall, Jülich Supercomputing Centre, FZJ.

Organizers: E. Di Napoli, P. Baumeister

Positioned at the intersection between two main pillars (HPC and Energy Materials) of the Strategic Priorities that are part of the re-alignment of the Forschungszentrum Jülich, the SimLab “Quantum Materials” (SLQM) naturally bridges the gap between material simulations based on quantum mechanical methods and high-performance computing.

Mission *The Simulation Laboratory “Quantum Materials” provides expertise in the field of quantum-based simulations in Materials Science with a special focus on high-performance computing. SLQM acts as a high-level support structure in dedicated projects and hosts research projects dealing with fundamental aspects of code development, algorithmic optimization, and performance improvement. The Lab acts as an enabler of large scale simulations on current HPC platforms as well as on future architectures by targeting application co-design processes.*

Workshop Structure

This event aims at bringing together scientists from Forschungszentrum Jülich, RWTH Aachen as well as research institutes in the EU region who may be interested in participating in the research and support activities of the SimLab. By sharing their work and scientific expertise the participants are given the chance to contribute to the definition of a platform allowing the mutual collaboration and prioritization of the Lab’s activities. Short talks (30+5 minutes) will be given by selected speakers from a number of institutes which can potentially benefit from the Lab’s mission. Each talk should include an overview of the scientific achievements, research interests and future challenges in the context of high-performance computing.

Preliminary

Program 09:00 – Opening address by the organizers;
09:05 – First session (3 talks);
10:50 – Coffee break;
11:15 – Second session (2 talks);
12:30 – Lunch Break;
14:00 – Third session (2 talks);
15:10 – Coffee break;
15:30 – Last session (1 talk) and closing remarks.

Registration: Participants can register by sending an email to [Edoardo Di Napoli](#) or [Paul Baumeister](#).