



Recent Theoretical Advances Quantum Spins at the Nanoscale

The workshop **Quantum Spins at the Nanoscale: Recent Theoretical Advances** will bring together international experts in the field of Quantum Nanoscience in Ewha Womans University (Korea) between May 27th and 30th 2019 to stimulate discussion and foster collaborations about emerging physics of Quantum Systems from a theoretical perspective.

People

Invited Speakers

Europe

Daniel Loss (University of Basel)
Jelena Klinovaja (University of Basel)
Nicolas Lorente (CFM/DIPC)
Guido Burkard (Universität Konstanz)
Hugo Ribeiro (Max Planck Institute)
Samir Lounis (FZ Jülich)
Fernando Delgado (Univ. de La Laguna)
Joaquín Fernández Rossier (INL)

Japan

Takahiro Sagawa (University of Tokyo)
Peter Stano (RIKEN)

China

Mircea Trif (Tsinghua University)
Ying-Dan WANG (UCAS)
Fu Chun Zhang (UCAS)

Korea

Dong-Hee Kim (GIST)
Mahn Soo Choi (Korea University)
Gun Sang Jeon (EWAH)

Committee and Organizers

Andreas Heinrich (IBS QNS)
Pascal Simon (CNRS, Université Paris Sud)
Christoph Wolf (IBS QNS)

Description

The workshop **Quantum Spins at the Nanoscale: Recent Theoretical Advances** will focus on recent developments in the study of open quantum spin systems at the nanoscale where coherence, interactions and topology play an important role.

With the recent development of *quantum materials* and *spin control*, it becomes possible to emulate and reveal new complex and intriguing quantum phenomena both at equilibrium but also in the non-equilibrium by driving the systems. Quantum spin control also allows to address fundamental issues related to quantum information theory and spin-based quantum computing.

For more information

Email : conference@qns.science

Website : <https://qns.science/workshop/>

