Single Nanostructures, Nanomaterials, Aerogels and their Interactions: Combining Quantum Physics and Chemistry

International Workshop
27 - 31 August 2018

The central topics of the workshop will be on: Assemblies of nanoscale objects, many-body interactions between building blocks in such assemblies, and resulting optical and electronic properties. This workshop on interacting nanosystems will bring together theoreticians and experimentalists in the fields of materials physics and chemistry and let them interact and exchange ideas.

Applications received before 31 May 2018 are considered preferentially.

Invited speakers
Mikhail Artemyev (BY)
Vollerth Martin Axt (DE)
Alexander Baranov (RU)
Rodion Belosludov (JP)
Nadja Bigall (DE)
Krill Bolotin (DE)
Garrett W. Bryant (US)
Guido Burkard (DE)
Alexey Chernikov (DE)
Hilmi Volkan Demir (SG)
Dmitry Efimkin (US)
Alexander Efros (US)
Steven Erwin (US)
Anatoly V. Fedorov (RU)
Vladimir Fomin (DE)
Stephen Gray (US)
Philippe Guyot-Sionnest (US)
Thomas Heine (DE)
Alexander Høgele (DE)
Atac Imamoglu (CH)
Victor Klimov (US)
Tobias Kraus (DE)
Tilmann Kuhn (DE)
Lehui Lu (CN)
Ermin Malic (SE)
Gil Markovich (IL)
Steffen Michaelis de Vasconcellos (DE)
Fabian Mooshammer (DE)
Markus Niederberger (CH)
David J. Norris (CH)
Doris Reiter (DE)
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Topics
- Random, amorphous, and ordered assemblies of nanocrystal, nanocomposites and nanomaterials that demonstrate both classical and quantum properties
- Novel two-dimensional atomically-thin systems: chemistry, physics, electronics and optics
- Modern inorganic aerogels and their unusual properties
- Plasmonics, photonics and optics of nanocrystal bio-assemblies
- Dynamics of collective and many-body excitations in nanoscale systems
- Hot plasmonic electrons and other novel quantum phenomena in metal and hybrid nanostructures
- Potential applications and device ideas

For further information please contact:
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