

Plan Overview

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Title: Fundamentals of Quantum Materials Winter School and Workshop

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Project abstract:

The Fundamentals of Quantum Materials Winter School and Workshop is an annual event unique to North America, dedicated specifically to the synthesis, characterization and electronic modeling of quantum materials. The FQM Winter School is aimed at providing fundamental training to our current and future generations of Quantum Materials scientists in synthesis and characterization techniques, bringing together senior and junior scientists to address topics at the forefront of current research into quantum materials, while also providing pedagogical background and practical training for junior scientists. With an interdisciplinary and diverse crowd including physicists, chemists, and materials scientists, participants gain a basic functional knowledge of how to plan and carry out synthesis relevant to the study of quantum materials, and experience a unique opportunity to interact with some of the top researchers in the field while networking with fellow peers. The structure of the school includes mornings of pedagogical lectures by ten of the nation's top practicing quantum materials scientists, with afternoons devoted to practical demonstrations in laboratories in the University of Maryland's Center for Nanophysics and Advanced Materials. The school also includes a poster session attended by senior scientists. The FQM Workshop, following the school event, covers current top research on quantum materials, focusing on synthesis, characterization and computational approaches to research of quantum materials such as superconductors, strongly correlated electron systems and topological materials.

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Fundamentals of Quantum Materials Winter School and Workshop

No scientific data products will be directly produced from this workshop. The only products that will be produced from this workshop will be presentations which will be made available to the public.

N/A

Presentation materials (slides, video presentations, etc.) will be collected, stored and viewable by the public on the Fundamentals of Quantum Material Winter School and Workshop website, (fqm.physics.umd.edu/) and on the Fundamentals of Quantum Materials UMD YouTube channel (youtube.com/channel/UCGHI7ioFuv_3GxwefwT1bhQ), both are actively managed and regularly backed up.

N/A

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