
Plan Overview

A Data Management Plan created using DMPTool

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

Types of data produced

The types of data, samples, physical collections, software, curriculum materials, and other materials to be produced in the course of the project.

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.

Data and metadata standards

The standards to be used for data and metadata format and content (where existing standards are absent or deemed inadequate, this should be documented along with any proposed solutions or remedies).

N/A

Policies for access and sharing

Policies for access and sharing including provisions for appropriate protection of privacy, confidentiality, security, intellectual property, or other rights or requirements.

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.

Policies for re-use, re-distribution, derivatives

Policies and provisions for re-use, re-distribution, and the production of derivatives.

N/A

Plans for archiving and preservation

Plans for archiving data, samples, and other research products, and for preservation of access to them.

N/A