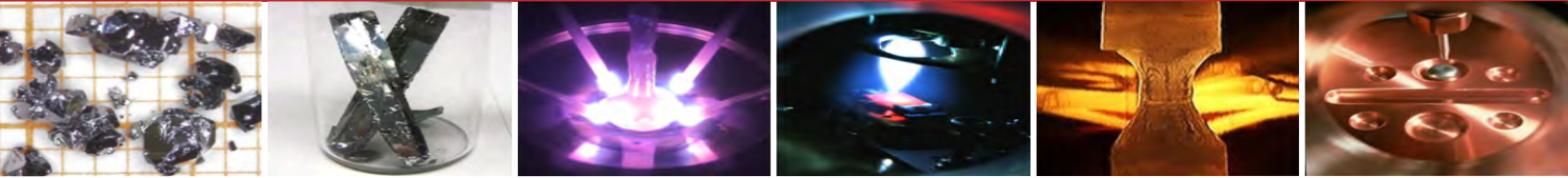


# FUNDAMENTALS OF QUANTUM MATERIALS WINTER SCHOOL 2017



The Fundamentals of Quantum Materials Winter School will be a unique school in North America dedicated specifically to the synthesis, characterization and electronic modeling of quantum materials. The school will cover several techniques for material synthesis by several leaders in the field. Mornings will be spent on tutorials while afternoons will be devoted to practical demonstrations of techniques at laboratories on the University of Maryland campus.

## Speakers

James Analytis, UC Berkeley  
Meigan Aronson, Texas A&M  
Ryan Baumbach, NHMFL  
Paul Canfield, Ames Laboratory  
Julia Chan, UT Dallas  
Sang-Wook Cheong, Rutgers  
David Mandrus, U of Tennessee  
John Mitchell, Argonne  
Efrain Rodriguez, U Maryland  
Brian Sales, Oak Ridge  
Ichiro Takeuchi, U Maryland

## Topics

Intermetallic flux growth techniques  
Induction furnace crystal growth  
Polycrystal sintering  
Floating Zone Image furnace  
Czochralski and arc melting  
Hydrothermal synthesis  
PLD thin-film growth  
Combinatorial techniques  
...and more!

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