



WINTER GRADUATE SCHOOL ON ATOMIC, MOLECULAR AND OPTICAL PHYSICS

Quantum Thermodynamics: many-body quantum meets thermodynamics

Biosphere 2 Campus, Arizona

FEBRUARY 18 - 24, 2024

2024 THEME

The field of quantum thermodynamics sits at the intersection of old-style thermodynamics and quantum information. Powerful realizable concepts on non-equilibrium many-body quantum thermodynamics are challenging the established thinking on ergodicity and thermalization. This school will give pedagogical as well as state-of-the-art introduction to such ideas.

REQUIREMENTS

Students must have a background in modern quantum mechanics and be interested in exploring graduate research in AMO and related physics.

REGISTRATION

Student registration opens in October. Fee includes room and board and transportation between Tucson Airport and Biosphere.

Website: <https://lweb.cfa.harvard.edu/itamp/quantum-thermodynamics>

CONFIRMED LECTURERS (PARTIAL)

Nicole Yunger Halpern (*NIST/UMD*)

Kanupriya Sinha (*Arizona State*)

Nelly Ng (*Nanyang Technological Univ-Singapore*)

Ronnie Kosloff (*Hebrew University*)

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Ferdinand Schmidt-Kaler (*University of Mainz*)

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