



WINTER GRADUATE SCHOOL ON ATOMIC, MOLECULAR AND OPTICAL PHYSICS: STRONG INTERACTIONS IN RYDBERG PHYSICS AND CHEMISTRY

Biosphere 2 Campus, Arizona

FEBRUARY 27- MARCH 5, 2022

2022 THEME

Strong Interactions in Rydberg Physics and Chemistry. Ultracold Rydberg atoms and molecules, many-body quantum simulation/computation, correlated interactions with Rydberg systems, quantum control and sensing with Rydberg atoms, cold Rydberg chemistry, and applications with Rydberg atoms and molecules.

REQUIREMENTS

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

REGISTRATION

Registration for students opens in September. Fee includes full accommodation, meals, and transportation to and from Tucson International Airport.

<https://lweb.cfa.harvard.edu/itamp-event/winter-graduate-school-2022>

INVITED LECTURERS:

Christopher Greene (*Purdue*)
Stephen Hogan (*UCL*)
Mikhail Lukin (*Harvard*)
Peter Schmelcher (*Hamburg*)

Tilman Pfau (*University of Stuttgart*)
James Shaffer (*Quantum Valley Ideas Laboratories*)
Valentin Walther (*ITAMP*)

Organized by:

The Institute for Theoretical Atomic, Molecular and Optical Physics*

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