

# SRitp and GiRYD Advance School Program

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Thursday, September 20

Time	Session/Lecture info
19:00-21:00	<b>Reception Dinner</b> Cafe Mada

## Friday, September 21

Time	Session/Lecture info
08:00-20:00	<b><u>Excursion to the Judean Desert and the Negev</u></b>

## Saturday, September 22

Time	Session/Lecture info
08:00-20:00	<b><u>Excursion to the Judean Desert and the Negev</u></b>

## Sunday, September 23

Time	Session/Lecture info
08:30-14:00	<b>School day 1 - Morning session</b>
08:30-09:00	Morning Coffee
09:00-10:00	<b>Thomas Gallagher</b> , University of Virginia <a href="#">Rydberg atom properties and interactions with atoms, molecules, and fields</a>
10:00-11:00	<b>Michel Brune</b> , LKB - ENS France <a href="#">From cavity QED to quantum simulations with Rydberg atoms</a>
11:00-11:30	Coffee Break
11:30-12:30	<b>Antoine Browaeys</b> , Institut d'Optique, Paris Tech <a href="#">Rydberg atoms in arrays of optical tweezers</a>
12:30-14:00	Lunch
14:00-19:30	<b>School day 1 - Afternoon Session</b>
14:00-15:30	<b>Wenhui Li</b> , Centre for Quantum Technologies, National University of Singapore <a href="#">Frequency conversion using Rydberg atoms</a>
15:30-16:00	Coffee Break
16:00-17:00	<b>Charles Adams</b> , Durham University <a href="#">A brief history of Rydberg EIT</a>
17:00-18:00	Poster Session + Beer & Pizza

## Monday, September 24

Time	Session/Lecture info
08:30-21:30	<b>Informal talks day</b>
08:30-09:00	Morning Coffee
09:00-10:00	<b>Thomas Gallagher</b> , University of Virginia <a href="#">Rydberg-Rydberg interactions and two electron atoms</a>
10:00-10:30	<b>Mathieu Barbier</b> , Goethe-Universitaet Frankfurt am Main <a href="#">Bosonic Rydberg-excited quantum gases in an optical lattice</a>
10:30-11:00	<b>Simon Hollerith</b> , Ludwig-Maximilians U. <a href="#">Microscopy of Rydberg macrodimers in an optical lattice</a>
11:00-11:30	Coffee Break
11:30-12:00	<b>Nina Stiesdal</b> , University of Southern Denmark <a href="#">Rydberg quantum optics in an ultracold Rubidium gas</a>
12:00-12:30	<b>Frederic Hummel</b> , U. of Hamburg <a href="#">Alignment of S-state Rydberg molecules in magnetic fields</a>
12:30-13:00	Light lunch
13:15-14:15	<b>Antoine Browaeys</b> , Institut d'Optique, Paris Tech <a href="#">Many-body physics with arrays of individual Rydberg atoms</a>
14:15-15:00	Coffee Break
15:00-16:00	AMO@Weizmann introduction
16:00-16:30	<b>Conny Glaser</b> , University of Tuebingen, IFIB - Interfaculty Institute of Biochemistry <a href="#">Towards a hybrid quantum system of Rydberg atoms and a coplanar waveguide cavity</a>
16:30-17:00	<b>Nicolas Zuber</b> , University of Stuttgart <a href="#">Studying ion-atom interaction with Rydberg atoms</a>
17:00-17:30	<b>Jan Kumlin</b> , University of Stuttgart <a href="#">Emergent Universal Dynamics for an Atomic Cloud Coupled to an Optical Waveguide</a>
18:30-20:30	<a href="#">Dinner at Cesar, Rehovot</a>

## Tuesday, September 25

Time	Session/Lecture info
08:30-13:15	<b>School day 2 - Morning Session</b>
08:30-09:00	Morning Coffee
09:00-10:00	<b>Thomas Pohl</b> , Aarhus University <a href="#">Nonlinear Optics with Rydberg excitations</a>
10:00-11:00	<b>Georg Raithel</b> , University of Michigan <a href="#">Trapping and spectroscopy of Rydberg atoms in modulated optical lattices</a>
11:00-11:30	Coffee Break
11:30-12:45	<b>Stephan Durr</b> , Max Planck Inst., Garching A Photon-Photon Gate Based on Rydberg Interactions
12:45-13:15	Lunch
13:15-20:30	<b>School day 2 - Afternoon Session</b>
13:15-14:15	<b>Charles Adams</b> , Durham University <a href="#">AMO Seminar "Engineering collective light-matter interactions"</a>
14:15-14:45	Coffee Break
14:45-16:15	<b>Hans Peter Buchler</b> , University of Stuttgart, Germany <a href="#">Symmetry protected topological phase for interacting bosons with Rydberg atoms</a>
16:15-16:30	Coffee Break
16:30-17:30	<b>Thomas Pohl</b> , Aarhus University <a href="#">Nonlinear Optics with Rydberg excitations</a>
17:30-19:30	Music by the Pond and Light dinner

## Wednesday, September 26

Time	Session/Lecture info
08:30-14:30	<b>School day 3 - Morning Session</b>
08:30-09:00	Morning Coffee
09:00-10:00	<b>Georg Raithel</b> , University of Michigan <a href="#">Rydberg-atom molecules and Rydberg-atom imaging</a>
10:00-11:00	<b>Michel Brune</b> , LKB - ENS France <a href="#">From cavity QED to quantum simulations with Rydberg atoms</a>
11:00-11:30	Coffee Break
11:30-13:00	<b>Stephen Hogan</b> , University College London <a href="#">Trapping and manipulating Rydberg atoms with large electric dipole moments - from quantum optics to antimatter physics</a>
13:00-13:45	Lunch
13:45-14:30	Lab Tour
14:30-23:00	<b>School day 3 - Afternoon Session</b>
14:30-16:00	<b>Marc Assman</b> , TU DORTMUND UNIVERSITY <a href="#">Rydberg Excitons in Cuprous Oxide</a>
16:00-16:30	Coffee Break
16:30-18:00	<b>Johannes Deiglmayr</b> , ETH Zurich <a href="#">Rydberg molecules</a>
19:00-23:00	Night out in Tel Aviv

## Thursday, September 27

Time	Session/Lecture info
08:30-14:30	<b>School day 4 - Morning Session</b>
08:30-09:00	Morning Coffee
09:00-10:30	<b>Robert Loew</b> , University of Stuttgart <a href="#">Hot Rydberg atoms</a>
10:30-11:00	Coffee Break
11:30-12:30	<b>Gerhard Rempe</b> , Max Planck Institute of Quantum Optics <a href="#">Physics Colloquium "Quantum Internet: Vision or Fiction?"</a>
12:30-13:00	Lunch
13:00-14:00	Departure



**Contact us:** [hadar.alper@weizmann.ac.il](mailto:hadar.alper@weizmann.ac.il)

**Last Updated:** 19 September 2018