PROGRAM SUMMER SCHOOL

Sunday 18th	
14:00 – 17:30	Registration
17:30 – 17:45	School opening
17:45 – 18:30	**M. Oberthaler** Quantum atom optics (Part I)
18:30 – 19:00	Coffee break
19:00 – 19:45	**F. Ferlaino** Towards a degenerate gas of ground state RbCs polar molecule
19:45 – 20:30	**B. Lev** Exploring soft quantum matter in an AMO setting
20:30 -	Reception
Monday 19th	
9:30 – 11:05	**Z. Hadzibabic** Condensation of interacting bosons (Part I)
11:05 – 11:35	Coffee break
11:35 – 12:20	**J. Garrahan** Thermodynamics of quantum jump trajectories
12:20 – 13:05	**I. Lesanovsky** Simulating spin physics with Rydberg atoms
13:05 – 15:00	Lunch
15:00 – 15:45	**M. Oberthaler** Quantum atom optics (Part II)
15:45 – 16:30	**V. Boyer** Quantum imaging: smoothing out the quantum roughness
16:30 – 17:00	Coffee break
17:00 – 17:20	**M. Müller** Digital simulation of open quantum systems with trapped ions
17:20 – 17:40	**S. Natu** Adiabaticity timescales in optical lattices
17:40 – 18:00	**A.West** Interacting ultracold atoms with nanomagnetic domain walls
18:00 – 18:20	**Jan Schaefer** (Toptica)
18:20 – 21:00	Poster session
Tuesday 20th	
9:30 – 11:05	**E. Altman** Basic concepts in quantum condensed matter physics
11:05 – 11:35	Coffee break
11:35 – 13:10	**Z. Hadzibabic** Condensation of interacting bosons (Part II)
13:10 – 15:00	Lunch
15:00 – 16:35	**V. Vedral** Correlations in many-body systems
16:35 – 20:00	Visit to the Alhambra
20:00 -	Conference Dinner
Wednesday 21st	
9:30 – 11:05	**V. Vedral** Entanglement of identical particles
11:05 – 11:35	Coffee break
11:35 – 13:10	**E. Altman** Many-body quantum interference; Interaction and disorder in the 1d Bose gas
13:10 – 15:00	Lunch
15:00 – 15:45	**T. Schumm** Towards a thorium “nuclear atomic clock” ?
15:45 – 16:30	**C. Koch** Optimizing the entangling power of two-qubit gates
16: 30 – 17:00	Coffee break
17:00 – 17:45	**B. Paredes** Topological order and topological quantum computation
17:45 – 18:00	Closing remarks