

Phase Transitions in Atomic and Photonic Matter

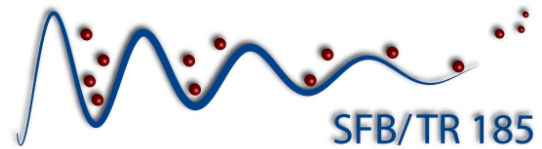
Monday, August 19

- 09:00-10:00 Maria Daghofer (Stuttgart, Germany):
General properties of thermal phase transitions
- 10:00-10:30 Coffee Break
- 10:30-11:30 Julian Léonard (Vienna, Austria):
Quantum phase transitions in optical lattices
- 11:30-13:00 Lunch
- 13:00-14:00 Sebastian Klembt (Würzburg, Germany):
Topological physics with light:
Topological edge and corner modes in polariton lattices
- 14:00-14:30 Coffee Break
- 14:30-16:00 Group Work
- 16:00-16:30 Coffee Break
- 16:30-18:00 Group Work

Tuesday, August 20

- 09:00-10:00 Maria Daghofer (Stuttgart, Germany):
Tricky aspects of thermal phase transitions
- 10:00-10:30 Coffee Break
- 10:30-11:30 Julian Léonard (Vienna, Austria):
Quantum phase transitions in optical lattices
- 11:30-13:00 Lunch
- 13:00-14:00 Sebastian Klembt (Würzburg, Germany):
Topological physics with light:
Topological edge and corner modes in polariton lattices

OSCAR I Week Kaiserslautern, Germany August 19-23, 2024



14:00-14:30	Coffee Break
14:30-16:00	Group Work
16:00-16:30	Coffee Break
16:30-18:00	Group Work

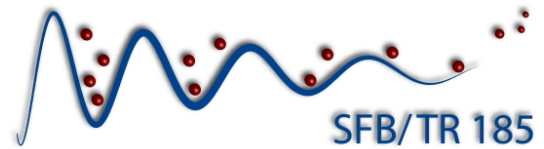
Wednesday, August 21

09:00-10:00	Carlos Sá de Melo (Atlanta, USA): <i>From BCS to Bose superfluidity in two-dimensional Fermi gases: Renormalization group and tighter upper bounds for the critical temperatureFermionic superfluids in 2D</i>
10:00-10:30	Coffee Break
10:30-11:30	Ednilson Santos (São Carlos, Brazil): <i>Mathematical methods for quantum phase transitions in optical lattices</i>
11:30-13:00	Lunch
13:00-14:00	Milan Radonjić (Hamburg, Germany): <i>Nonequilibrium quantum phase transitions in atom-optomechanical systems</i>
14:00-14:30	Coffee Break
14:30-16:00	Group Work
16:00-16:30	Coffee Break
16:30-18:00	Group Work

Thursday, August 22

09:00-10:00	Carlos Sá de Melo (Atlanta, USA): <i>From BCS to Bose superfluidity in two-dimensional Fermi gases: Renormalization group and tighter upper bounds for the critical temperatureFermionic superfluids in 2D</i>
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OSCAR IWeek Kaiserslautern, Germany August 19-23, 2024



10:00-10:30	Coffee Break
10:30-11:30	Ednilson Santos (São Carlos, Brazil): <i>Mathematical methods for quantum phase transitions in optical lattices</i>
11:30-13:00	Lunch
13:00-14:00	Milan Radonjić (Hamburg, Germany): <i>Nonequilibrium quantum phase transitions in atom-optomechanical systems</i>
14:00-14:30	Coffee Break
14:30-16:00	Group Work
16:00-16:30	Coffee Break
16:30-18:00	Group Work

Friday, August 23

09:00-09:30	Student Talk <i>TBA</i>
09:30-10:00	Student Talk <i>TBA</i>
10:00-10:30	Coffee Break
10:30-11:00	Student Talk <i>TBA</i>
11:00-11:30	Student Talk <i>TBA</i>
11:30-13:00	Lunch