

# Saas-Fee

## 2019 Winter School

Symmetry and Topology: New Twists in Condensed Matter

13-18 January 2019

### BASIC COURSES

#### PROGRAM COMMITTEE

Johan Chang (chair)  
Ana Akrap  
Markus Müller  
Henrik Rønnow  
Anna Tamai  
Dirk van der Marel

**JÖRG SCHMALIAN**, Karlsruhe Institute of Technology

Scaling in quantum critical transport: Information scrambling, thermalization and hydrodynamic transport

**ACHIM ROSCH**, University of Cologne

Topological excitations and emergent electromagnetic fields: skyrmions and magnetic monopoles

**DIRK VAN DER MAREL**, University of Geneva

**MANFRED SIGRIST**, ETH Zürich

Unconventional superconductivity in the 21st century

#### ORGANIZATION

Christophe Berthod  
Pascal Cugni  
Gregory Manfrini  
Natacha Triscone

### SPECIALIZED LECTURES

**THIERRY GIAMARCHI**, University of Geneva

Symmetry-protected topological phases in quantum spin chains

**STEVE SIMON**, University of Oxford

Topological phases

**ANDREW MACKENZIE**, University of St Andrews

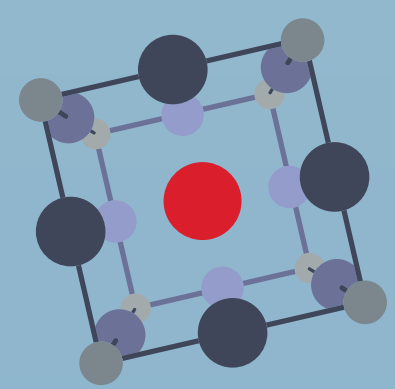
Electron hydrodynamics

**BRAD RAMSHAW**, Cornell University

Using strain to detect and induce symmetry breaking in correlated electron systems

**ANNA TAMAI**, University of Geneva

Electron spectroscopy



**MaNEP**  
SWITZERLAND  
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For registration and further information, please browse the MaNEP Network site <http://www.manep.ch/saasfee19>

Deadline for registration is October 31, 2018