



**QUANTUM  
SPINTRONICS 2019**  
INTERNATIONAL WORKSHOP  
SEPTEMBER 25<sup>TH</sup> - 26<sup>TH</sup>



# WELCOME TO QUANTUM SPINTRONICS 2019

## CONFERENCE CENTER

Hotel Scandic Nidelven  
Havnegata 4, Trondheim

## WORKSHOP DINNER

Rockheim Panorama  
Brattørkaia 14, Trondheim

## QUSPIN CENTER

Høgskoleringen 5, Trondheim



SCANDIC NIDELVEN



ROCKHEIM



QUSPIN CENTER



**ROCKHEIM**

**SCANDIC NIDELVEN**



**10 MIN WALK**

**CENTRAL STATION**

BRATTØRKAIA

HAVNEGATA

FOSENKAIA

FJORDGATA

RAVNKLOA

NORDRE GT

SØNDRE GT

KJØPMANNSGATA

OLAV TRYGGVASSONS GATE

BAKKE BRU

DRONNINGENS GATE

**CITY SQUARE**

PRINSENS GATE

KONGENS GATE

ERLING

SKAKKES GATE

GAMLE BYBRO

BISPEGATA

**NIDAROS CATHEDRAL**

ELGESETER BRU

**STUDENT SOCIETY BUILDING**

**ST. OLAVS HOSPITAL**

**NTNU CAMPUS GLØSHAUGEN**  
● **QUSPIN – CENTER FOR QUANTUM SPINTRONICS**

# WEDNESDAY

## SEPTEMBER 25<sup>TH</sup>

**08.30 - 09.00**

Registration and morning coffee

**09.00 - 09.05**

Arne Brataas

*Opening remarks*

### SPIN INSULATRONICS

Discussion Leader: Arne Brataas

**09.05 - 09.35**

Gerrit E. W. Bauer (Tohoku University, Japan)

*YIG - THE magnet*

**09.35 - 10.05**

Break

**10.05 - 10.35**

Hans Hubl (Walter Meissner Institute, Germany)

*Controlling Magnons - Transport Properties*

*& Magnon-Photon Hybridization*

**10.35 - 11.05**

Break

**11.05 - 11.35**

Burkard Hillebrands (TU Kaiserslautern, Germany)

*Magnonics with Macroscopic Quantum States*

**12.00 - 13.00**

Lunch

## **SUPER SPINTRONICS**

Discussion Leader: Jacob Linder

**13.00 - 13.30**

Matthias Eschrig (Royal Holloway, England)

*Foundations of Superconducting Spintronics*

**13.30 - 14.00**

Break

**14.00 - 14.30**

Norman O. Birge (Michigan State University, USA)

*Ferromagnetic Josephson Junctions for Cryogenic Memory*

**14.30 - 15.00**

Break

**15.00 - 15.30**

Jason W. A. Robinson (Cambridge University, England)

*Nodal superconducting exchange coupling*

**15.30 - 17.00**

## **POSTER SESSION**

**17.00 - 18.30**

Break for leisure

**19.00 - 21.00**

Workshop dinner at Rockheim Panorama, by the Fjord

# THURSDAY

## SEPTEMBER 26<sup>TH</sup>

**08.30 - 09.00**

Morning coffee

### TOPOLOGICAL MATTER

Discussion Leader: Asle Sudbø

**09.00 - 09.30**

Ralph Claessen (University of Würzburg, Germany)

*Elemental topological insulators: The case of bismuthene*

**09.30 - 10.00**

Break

**10.00 - 10.30**

Anton Akhmerov (TU Delft, the Netherlands)

*Majoranas in zigzag geometry: Why shape matters*

**10.30 - 11.00**

Break

**11.00 - 11.30**

Shahal Ilani (Weizmann Institute of Science, Israel)

*Imaging interacting electrons in graphene*

**12.00 - 13.00**

Lunch

## EXPERIMENTAL DEVELOPMENTS

Discussion Leader: Justin Wells

**13.00 - 13.30**

Kai Rossnagel (Christian-Albrechts-Universität zu Kiel, Germany)

*More than electrons: Energy-momentum microscopy of quantum materials*

**13.30 - 14.00**

Break

**14.00 - 14.30**

Thorsten Hesjedal (University of Oxford, England)

*Title: TBA*

**14.30 - 15.00**

Break

**15.00 - 15.30**

Oscar Tjernberg (KTH Royal Institute of Technology, Sweden)

*How to and how not to build a laser ARPES instrument*

**15.30 - 15.40**

Arne Brataas

*Closing Quantum Spintronics 2020*

*The program might be subject to change*

**ORGANISED BY THE CENTER FOR QUANTUM  
SPINTRONICS (QUSPIN)**

By Arne Brataas, Asle Sudbø, Jacob Linder, Justin  
Wells and Karen-Elisabeth Sødahl

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