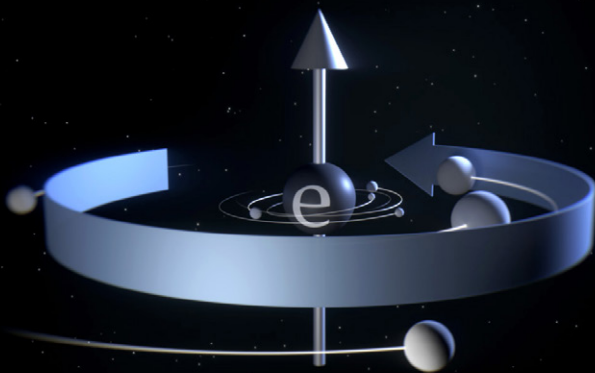


**QUANTUM
SPINTRONICS 2022**
INTERNATIONAL CONFERENCE
JUNE 13TH - 15TH



Qu·
Spin

WELCOME TO QUANTUM SPINTRONICS 2022

CONFERENCE CENTER

Trondheim Spektrum, Klostergata 90, Trondheim

HOTEL ACCOMMODATION

Hotel Scandic Nidelven, Havnegata 4, Trondheim

GUIDED BOAT TRIP AND CONFERENCE DINNER

Boat from Ravnkloa via Nidelva to dinner at
Munkholmen Island, Trondheim

QUSPIN CENTER

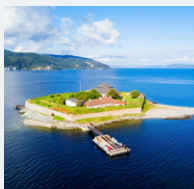
Realfagbygget, E5, Høgskoleringen 5, Trondheim



SCANDIC NIDELVEN



TRONDHEIM SPEKTRUM



MUNKHOLMEN



QUSPIN CENTER



MUNKHOLMEN

30 MIN
WALK

RAVNKLOA

CENTRAL
STATION

SCANDIC
NIDELVEN

TRONDHEIM
SPEKTRUM

CITY SQUARE

NIDAROS
CATHEDRAL

ST. OLAVS HOSPITAL

NTNU CAMPUS GLØSHAUGEN
● QUSPIN - CENTER FOR
QUANTUM SPINTRONICS

MONDAY

JUNE 13TH

08.30 - 09.00

Registration and morning coffee

09.00 - 09.05

Arne Brataas, Center Director, QuSpin

Opening remarks

**TALKS WITH 30-MINUTES PRESENTATIONS
AND 15-MINUTES Q&A FROM THE CONFERENCE
PANEL AND AUDIENCE**

Host morning session Arne Brataas, QuSpin

09.05 - 09.50

Andrew Kent (New York University, USA)

*Spin-Orbit Torques in Antiferromagnet Insulator/Heavy Metal
Heterostructures*

09.50 - 10.05

Break

10.05 - 10.50

Kaveh Lahabi (Leiden University, the Netherlands)

Emergence of triplet rim currents in spin-textured Josephson junctions

10.50 - 11.05

Break

11.05 - 11.50

Manuel Bibes (CNRS Thales, France)

Spin-charge interconversion and superconductivity in Rashba two-dimensional electron gases based on $KTaO_3$

11.50 - 12.00

Break with fresh air by the river

12.00 - 13.00 LUNCH

Host afternoon session Asle Sudbø, QuSpin

13.00 - 13.45

Claudia Felser (Max Planck Institute for Chemical Physics of Solids, Germany)

Magnetic materials and topology

13.45 - 14.00

Break

14.00 - 14.45

Jeroen van den Brink (IFW Leibnitz Institute, Germany)

How surfaces Berry-curve Bloch-electrons

14.45 - 15.00

Break

15.00 - 16.00 POSTER SESSION

TUESDAY

JUNE 14TH

08.30 - 09.00

Morning coffee

Host morning session Jacob Linder, QuSpin

09.00 - 09.45

Alex Khajetoorians (Radboud University, the Netherlands)

What can we learn from atoms?

09.45 - 10.00

Break

10.00 - 10.45

Tero Heikkilä (University of Jyväskylä, Finland)

*Dynamics of ferromagnets in proximity to superconductors:
roles of spin supercurrent and Higgs mode*

10.45 - 11.00

Break

11.00 - 11.45

Jean-Marc Triscone (Université de Genève, Switzerland)

Tunable superconductivity and spin-orbit coupling at oxide interfaces

11.45 - 12.00

Break with fresh air by the river

12.00 - 13.00 LUNCH

Host afternoon session Arne Brataas, QuSpin

13.00 - 14.00 POSTER SESSION

14.00 - 14.45

Sangetaa Sharma (Max Born institute, Germany)

Ultrafast spin, charge and nuclear dynamics: ab-initio description

14.45 - 15.00

Break

15.00 - 15.45

Asle Sudbø (QuSpin, NTNU, Norway)

Deconfined Quantum Criticality in low dimensional quantum antiferromagnets

15.45 - 16.00

Break

16.00 - 16.45 GROUP PHOTO SESSION

16.45- 17.45

Break

17.45 - 18.15

Walk to Ravnkloa and boat departure for sightseeing

18.30 - 19.30 BOAT TRIP SIGHTSEENG

Boat trip with sightseeing on Nidelva, and arrival at Munkholmen Island

19.30 - 21.30 CONFERENCE DINNER

At Munkholmen Island

21.45

Departure from Munkholmen Island with arrival at Ravnkloa

WEDNESDAY

JUNE 15TH

08.30 - 09.00

Morning coffee

Host morning session Asle Sudbø, QuSpin

09.00 - 09.45

Ewelina Hankiewicz (University of Wurzburg, Germany)

TBA

09.45 - 10.00

Break

10.00 - 10.45

Andrii Schumak (University of Vienna, Austria)

TBA

10.45 - 11.00

Break

11.00 - 11.45

Stuart Parkin (Max Planck Institute, Halle, Germany)

TBA

11.45 - 12.00

Break with fresh air by the river

12.00 - 13.00 LUNCH

Host afternoon session Jacob Linder, QuSpin

13.00 - 13.45

Sol H. Jacobsen (QuSpin, NTNU, Norway)

Twists and turns in superconducting spintronics: how curvature expands the horizon

13.45 - 14.00

Break

14.00 - 14.45

TBA

14.45 - 14.55 ANNOUNCEMENT OF BEST POSTER

14.55 - 15.00

Arne Brataas, QuSpin

Closing remarks.

Next year's Quantum Spintronics June 2023

The program may be subject to change

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

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

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