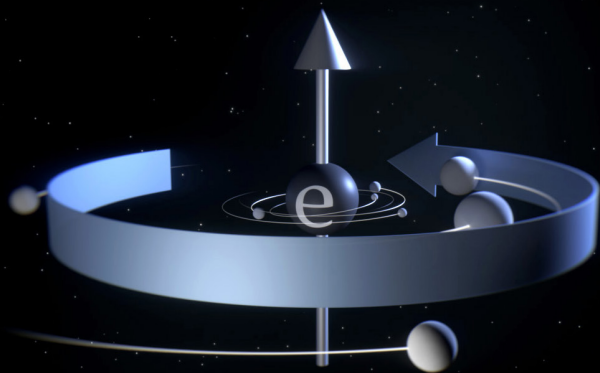


QUANTUM SPINTRONICS 2022

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

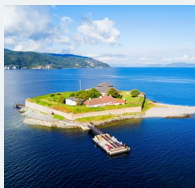
Realfagbygget, E5, Høgskoleringen 5, Trondheim



SCANDIC NIDELVEN



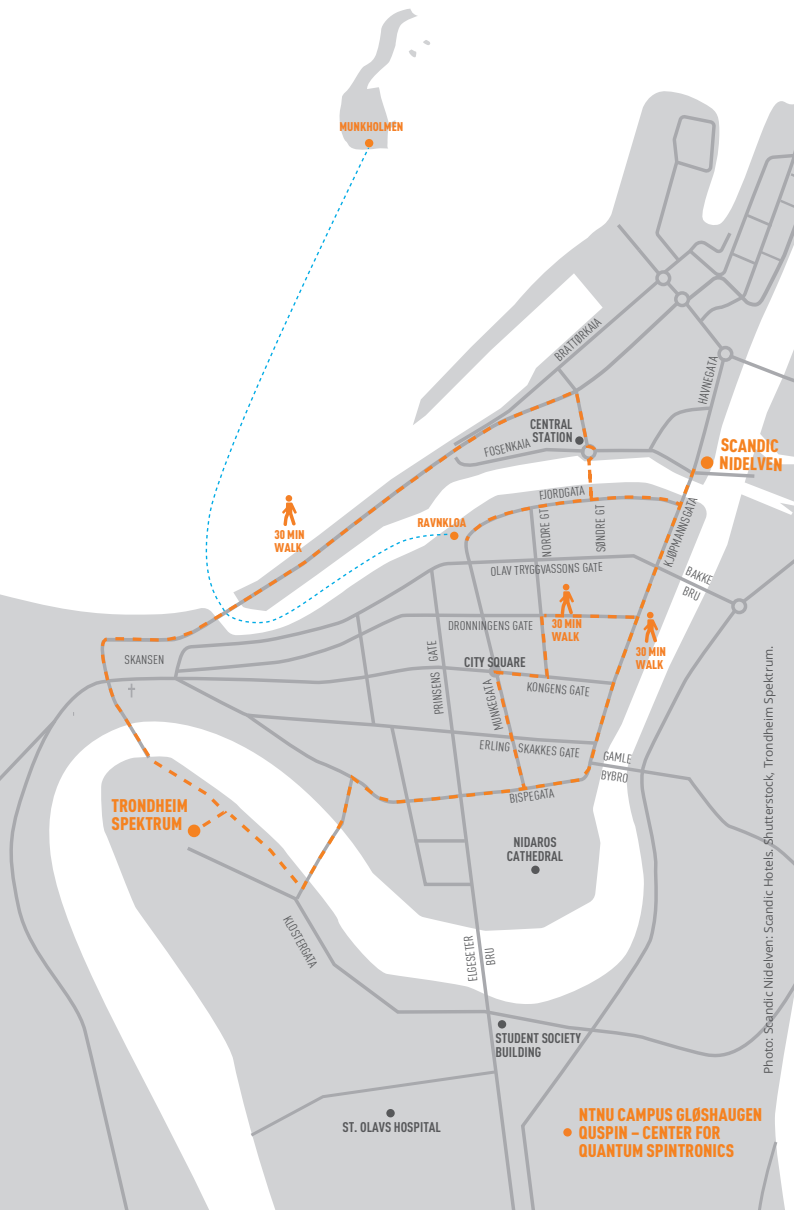
TRONDHEIM SPEKTRUM



MUNKHOLMEN



QUSPIN CENTER



MUNKHOLMEN



30 MIN
WALK

RAVNKLOA

CENTRAL STATION

SCANDIC
NIDELVEN

TRONDHEIM
SPEKTRUM

CITY SQUARE

NIDAROS
CATHEDRAL

STUDENT SOCIETY
BUILDING

ST. OLAVS HOSPITAL

NTNU CAMPUS GLØSHAUGEN
• QUSPIN - CENTER FOR
QUANTUM SPINTRONICS

Photo: Scandic Nidelven; Scandic Hotels; Shutterstock, Trondheim Spektrum.

PRACTICAL INFORMATION

AIRPORT BUS:

<https://www.vaernesekspresen.no>

Tickets can be bought on the bus.

"Solsiden" is the bus stop closest to the hotel.

There is a 5 minute walk to hotel Scandic Nidelven.

LOCAL TAXI:

<https://www.trondertaxi.no>

Phone: + 47 07373

CITY BUS:

<https://www.atb.no/en/>

PAYMENT METHOD:

Credit/debet card or Apps is mostly used in restaurants, shops and on transport.

CORONA RESTRICTIONS:

There are no restrictions or mask requirements.

MONDAY

JUNE 13TH

08.30 - 09.00

Registration and morning coffee

09.00 - 09.05

Asle Sudbø, QuSpin

Opening remarks

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

Host morning session Asle Sudbø, 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)

Ferroelectric two-dimensional electron gases for oxide spin-orbitronics

11.50 - 12.00

Break with fresh air by the river

12.00 - 13.00 LUNCH

Host afternoon session Jacob Linder, QuSpin

13.00 - 13.45

Asle Sudbø (QuSpin, NTNU, Norway)

Deconfined Quantum Criticality in low dimensional quantum antiferromagnets

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 Asle Sudbø, QuSpin

13.00 - 14.00 POSTER SESSION

14.00 - 14.45

Sangeeta Sharma (Max Born institute, Germany)

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

14.45 - 15.00

Break

15.00 - 15.45

Milena Grifoni (University of Regensburg, Germany).

Two gaps Ising superconductivity from Coulomb interactions in monolayer NbSe₂

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)

Thermal versus electric response of superconducting topological materials; are Majorana states more widespread than expected?

09.45 - 10.00

Break

10.00 - 10.45

Andrii Chumak (University of Vienna, Austria)

Advances in Millikelvin- and Nano-Magnonics

10.45 - 11.00

Break

11.00 - 11.45

Stuart Parkin (Max Planck Institute, Halle, Germany)

Chiral spin textures

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

Hendrik Bentmann (University of Würzburg, Germany)

Lifting and enforcing topological band degeneracies: an ARPES view

14.45 - 14.55 ANNOUNCEMENT OF BEST POSTER

14.55 - 15.00

Asle Sudbø, QuSpin

Closing remarks.

Next year's Quantum Spintronics 2023

The program may be subject to change

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

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Karen-Elisabeth Sødahl

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