

QUANTUM SPINTRONICS 2024

INTERNATIONAL CONFERENCE
JUNE 5TH - 7TH



Qu·
Spin

WELCOME TO QUANTUM SPINTRONICS 2024

CONFERENCE CENTER

Hotel Scandic Nidelven, Havnegata 4, Trondheim

HOTEL ACCOMMODATION

Hotel Scandic Nidelven, Havnegata 4, Trondheim

CONFERENCE DINNER

Dokkhuset, Dokkparken 4, 7042 Trondheim

QUSPIN CENTER

Realfagbygget, E5, Høgskoleringen 5, Trondheim



SCANDIC NIDELVEN



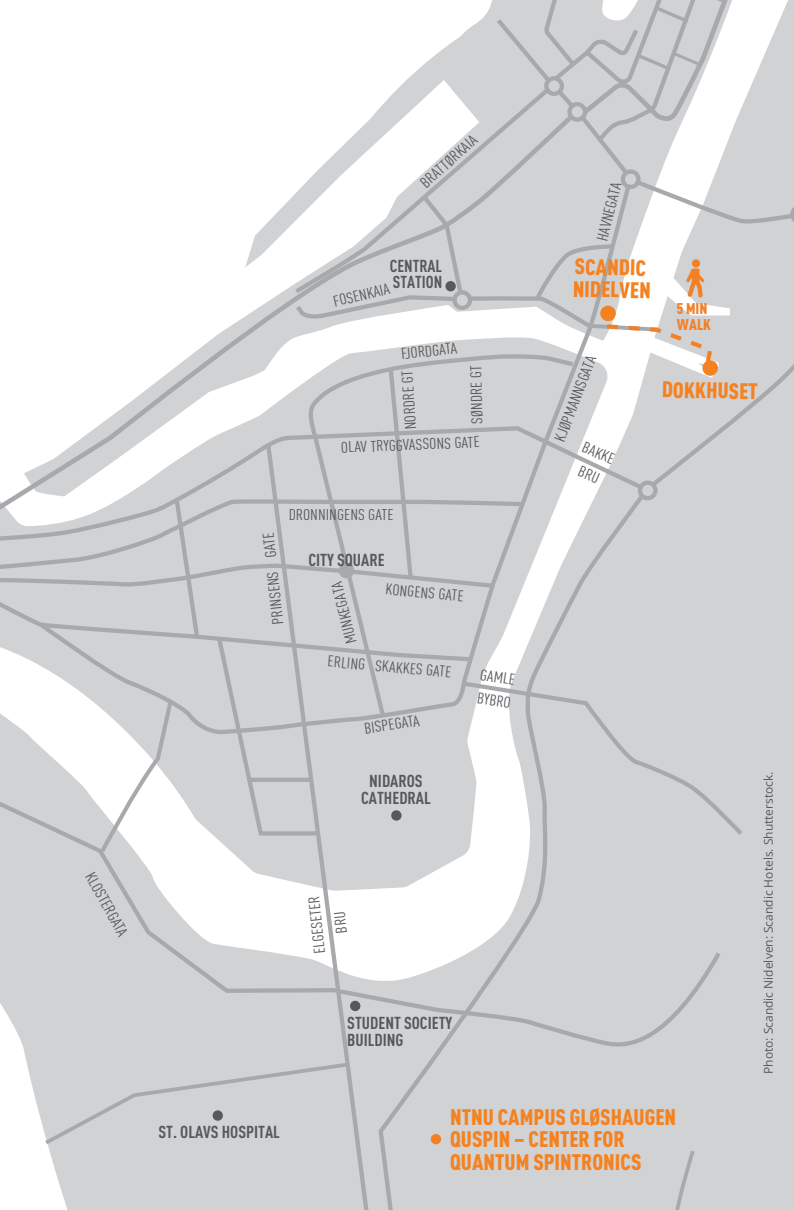
DOKKHUSET



CITY WALK



QUSPIN CENTER



CENTRAL STATION

SCANDIC NIDELVEN

5 MIN WALK

DOKKHUSET

CITY SQUARE

NIDAROS CATHEDRAL

STUDENT SOCIETY BUILDING

ST. OLAVS HOSPITAL

NTNU CAMPUS GLØSHAUGEN
• QUSPIN – CENTER FOR QUANTUM SPINTRONICS

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.

WEDNESDAY

JUNE 5TH

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

Hendrik Bentmann, Norwegian University of Science
and Technology

Orbital monopoles and vortices driven by crystal symmetry

09.50 - 10.05

Break

10.05 - 10.50

Nadya Mason, University of Chicago, USA

Non-linear magnetoresistance in metallic antiferromagnetic systems

10.50 - 11.05

Break

11.05 - 11.50

Domenico Di Sante, University of Bologna, Italy

The rich physics of bilayer kagome metals

11.50 - 12.00

Break with fresh air by the river

12.00 - 13.00 LUNCH

Host afternoon session Hendrik Bentmann, QuSpin

13.00 - 13.45

Chiara Ciccarelli, Cambridge University, United Kingdom

THz spectroscopy studies on magnetic interfaces

13.45 - 14.00

Break

14.00 - 14.45

Riccardo Comin, Massachusetts Institute of Technology, USA

Flat bands, quantum geometry, and ARPES

14.45 - 15.00

Break

15.00 - 16.00 POSTER SESSION

16.30- 18.00 SCIENCE MINGLING

THURSDAY

JUNE 6TH

08.30 - 09.00

Morning coffee

Host morning session Arne Brataas, QuSpin

09.00 - 09.45

Tomas Jungwirth, Institute of Physics at the Academy of Sciences, Czech Republic

Altermagnets: An unconventional magnetic class

09.45 - 10.00

Break

10.00 - 10.45

Anna Isaeva, University of Amsterdam, Holland

Materials design of intrinsic magnetic topological insulators towards higher Curie temperature

10.45 - 11.00

Break

11.00 - 11.45

Bart van Wees, University of Groningen, Holland

Electrostatically controlled spin polarization in Graphene-CrSBr magnetic proximity heterostructures

11.45 - 12.00

Break with fresh air by the river

12.00 - 13.00 LUNCH

Host afternoon session Sol Jacobsen, QuSpin

13.00 - 13.45

Maria T Mercaldo, University of Salerno, Italy

Orbitronics effects in superconductors

13.45 - 14.00

Break

14.00 - 14.45

Rembert Duine, University of Utrecht, Holland

Bath-induced spin inertia

14.45 - 15.00

Break

15.15 - 15.45 GROUP PHOTO SESSION

15.45 - 16.00

Break

16.00 - 17.00 LEISURE TIME

CITY WALK

18.30 - 21.00 CONFERENCE DINNER AT DOKKHUSET SCENE

FRIDAY JUNE 7TH

08.30 - 09.00

Morning coffee

Host morning session Jacob Linder, QuSpin

09.00 - 09.45

Sol H. Jacobsen, Norwegian University of Science and Technology

Into the light: How cavity photons can reveal new physics in old materials

09.45 - 10.00

Break

10.00 - 10.45

Sebastian Goennenwein, University of Konstanz, Germany

Phonon Pumping in Ferromagnet/Non-Magnetic Crystal Heterostructures

10.45 - 11.00

Break

11.00 - 11.45

Aline Ramires, Paul Scherrer Institute, Switzerland

Superconductivity-induced improper orders in nonsymmorphic systems

11.45 - 12.00

Break with fresh air by the river

12.00 - 13.00 LUNCH

Host afternoon session Asle Sudbø, QuSpin

13.00 - 13.45

Alireza Qaiumzadeh, Norwegian University of Science and Technology

Engineering of topological magnons and magnon-polarons in Cr13 ferromagnetic layers

13.45 - 14.00

Break

14.00 - 14.45

Francesco Giazotto, Scuola Normale di Superiore Pisa, Italy
Josephson Circuits-Based Quantum Heat Engines

14.45 - 14.55 ANNOUNCEMENT OF BEST POSTER

14.55 - 15.00

Asle Sudbø, QuSpin

Closing remarks.

Next year's Quantum Spintronics 2025, June 4-6.

The program may be subject to change

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

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Hendrik Bentmann and Karen-Elisabeth Sødahl

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