



**QUANTUM  
SPINTRONICS 2020**  
INTERNATIONAL WORKSHOP  
JUNE 10<sup>TH</sup> - 11<sup>TH</sup>



Registration deadline April 1<sup>st</sup>, 2020

# WELCOME TO QUANTUM SPINTRONICS 2020

## CONFERENCE CENTER

DIGS, Krabbugata 2, Trondheim

## BOAT TRIP

From Ravnkloa, Trondheim

## WORKSHOP DINNER

Munkholmen Island, Trondheim

## QUSPIN

Realfagsbygget, E5, Høgskoleringen 5, Trondheim

**REGISTER HERE**

*Registration fee for participants outside QuSpin is NOK 1500,-.*



DIGS



MUNKHOLMEN



QUSPIN CENTER

MUNKHOLMEN

ROCKHEIM

CENTRAL STATION

SCANDIC NIDELVEN

RAVNKLOA

FJORDGATA

FOSENKAIA

HAVNEGATA

OLAV TRYGGVASSONS GATE

KJØPMANNSGATA

10 MIN WALK

BAKKE BRU

DRONNINGENS GATE

DIGS

CITY SQUARE

PRINSENS GATE

KONGENS GATE

ERLING

SKAKKES GATE

GAMLE BYBRO

NIDAROS CATHEDRAL

BISPEGATA

ELGSETER BRU

STUDENT SOCIETY BUILDING

ST. OLAVS HOSPITAL

NTNU CAMPUS GLØSHAUGEN  
● QUSPIN – CENTER FOR QUANTUM SPINTRONICS

# WEDNESDAY

## JUNE 10<sup>TH</sup>

**08.30 - 09.00**

Registration and morning coffee

**09.00 - 09.05**

Arne Brataas

*Opening*

**09.05 - 09.35**

Chris Palmstroem, University of California at Santa Barbara, USA

*Title: TBA*

**09.35 - 09.55**

Break

**09.55 - 10.25**

Professor Jing Shi, University of California, Riverside, USA

*"Spin currents in uniaxial antiferromagnets"*

**10.25 - 10.45**

Break

**10.45 - 12.00 - POSTER SESSION**

**12.15 - 13.15**

Lunch

**13.15 - 13.45**

**Prof. Dr. Ronny Thomale, University of Würzburg, Germany**

*"Room temperature quantum spin Hall effect"*

**13.45 - 14.05**

**Break**

**14.05 - 14.35**

**Professor Masaki Oshikawa, University of Tokyo, Japan**

*"Transport through junctions of Tomonaga-Luttinger liquids"*

**14.35 - 14.55**

**Break**

**14.55 - 15.25**

**Professor Dr. Ewalina Hankiewicz University of Würzburg,  
Germany**

*"Quantum anomalies in topological materials"*

**15.25 - 15.45**

**Break**

**15.45 - 16.15**

**TBA**

**16.15 - 18.15**

**Refreshments and a snack on the Terrace**

**18.15 - 18.45**

**Walk to Ravnkloa for a boat trip**

**20.00 - 22.00**

**Workshop dinner at Munkholmen Island, on the Fjord  
(preliminary location)**

# THURSDAY

## JUNE 11<sup>TH</sup>

**08.30 - 09.00**

Morning coffee

**09.00 - 09.30**

**Niladri Banerje , Loughborough University, UK**

*"Spin-orbit Coupling effects in superconducting spintronics"*

**09.30 - 09.50**

Break

**09.50 - 10.20**

**Paola Gentile, CNR-Spin, University of Salerno, Italy**

*"Geometrically tunable spintronic effects and topological states in low-dimensional nanostructures"*

**10.20 - 10.40**

Break

**10.40 - 11.10**

**Professor Nadya Mason , University of Illinois, USA**

*"Surface State Magnetoresistance in Proximity-Magnetized Topological Insulators"*

**11.10 - 11.40**

TBA

## **11.40 - 12.00 - PHOTO SESSION**

On the Terrace

## **12.15 - 13.15**

Lunch

## **13.15 - 13.45**

**Professor Dr. Mark Golden, University of Amsterdam,  
the Netherlands**

*Title: TBA*

## **13.45 - 14.05**

Break

## **14.05 - 14.35**

**Charlotte Saunders, STCF Rutherford, Appleton  
Laboratory, Harwell Campus, Didcot UK**

*Title: TBA*

## **14.35 - 14.55**

Break

## **14.55 - 15.25**

TBA

## **15.25 - 15.35**

**Arne Brataas**

*Closing.*

*Next year's Quantum Spintronics 2021*

*The program might be subject to change*

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

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

**CONTACT INFO:**

karen-elisabeth.sodahl@ntnu.no

Cell: + 47 918 87 782

**[WWW.NTNU.EDU/QUSPIN](http://WWW.NTNU.EDU/QUSPIN)**

Realfagsbygget, E5, Høgskoleringen 5, Trondheim

