

List of Participants

Invited talks (40 minutes including questions):

Kjetil Børkje, NTNU, Trondheim

borkje@phys.ntnu.no

Physics of non-centrosymmetric superconductors with significant spin-orbit splitting

Mario Engelsberg, Universidade Federal de Pernambuco, Recife, Brasil

mario@df.ufpe.br

Water diffusion in porous systems, gels and colloids: A nuclear magnetic resonance study.

Morten Førre, Universitetet i Bergen

mortenf@ift.uib.no

Ionization dynamics of atoms and molecules in superintense high-frequency attosecond pulses

Ronald Griessen, Vrije Universiteit, Amsterdam, The Netherlands

griessen@nat.vu.nl

Magnesium-based light transition metal alloys: physics and applications to solar collectors, hydrogen sensors and batteries

Johan Mauritsson, Lund University, Sweden

johan.mauritsson@fysik.lth.se

Attosecond pulse generation and application

Mark Pitt, Institutt for energiteknikk, IFE, Kjeller

mark.pitt@ife.no

Surface nano-precipitates in the Ti enhanced NaAlH₄ system

Daniel Rothman, MIT, Cambridge, MA, USA

dhr@mit.edu

Earth's Carbon Cycle as a Problem of Reactive Diffusion

Bjørnar Sandnes, Universitetet i Oslo, Complex

bjornar.sandnes@fys.uio.no

Title of talk: *Pattern formation: building mazes with grains*

Title of poster: *To be announced*

Rinke Wijngaarden, Vrije Universiteit/FEW/N&S/VS, Amsterdam, The Netherlands

rw@nat.vu.nl

Complex superconductors: surface roughening and avalanches in the 'fluxscape'

List of Participants**Invited short contributions (20 minutes including questions):**

Paul Dommersnes, Universite Paris7/NTNU, Complex
 paul.dommersnes@paris7.jussieu.fr
Transport and topology in surfactant nanotube networks

Tom H. Johansen, Universitetet i Oslo, Complex
 t.h.johansen@fys.uio.no
Dendritic avalanches of magnetic flux in superconducting films

Morten Kildemo, NTNU
 morten.kildemo@ntnu.no
XPS study of the electronic properties of the Ce/4H-SiC interface, and the formation of the SiO₂/Ce₂Si₂O₇/4H-SiC interface structure upon oxidation

Knut Jørgen Måløy, Universitetet i Oslo, Complex
 maloy@fys.uio.no
Growth activity during fingering in a porous Hele Shaw cell.

Fernando Oliveira, Universidade de Brasilia, Brasila, Brasil
 faoliveira@gmail.com
Slow relaxation and anomalous diffusion

Bo-Sture Skagerstam, NTNU, Complex
 boskag@phys.ntnu.no
 Title of talk: *Topics in Cavity Quantum Electrodynamics*
 Title of poster: *Spin Decoherence in Superconducting Atom Chips*

List of Participants**Short contributed talks (20 minutes including questions):****Joakim Bergli**, Universitetet i Oslo, Complex

jbergli@fys.uio.no

*Spin echo in an arbitrary field: How to undo an unknown rotation***Henning Heiberg-Andersen**, Institutt for energiteknikk, IFE, Kjeller, Complex

henning.heiberg-andersen@ife.no

*The Mathematics of NanoCarbon***Martin Kirkengen**, Universitetet i Oslo, Complex

mki@fys.uio.no

*Interference-like cancellations in superconductor-hopping insulator interface***Osvanny Ramos**, Universitetet i Oslo, Complex

osvanny@fys.uio.no

*Avalanche prediction in Self Organized Critical Systems***Stephane Santucci**, Universitetet i Oslo, Complex

stephane.santucci@fys.uio.no

*Local Waiting Time Fluctuations along a Randomly Pinned Crack Front***Eldrid Svåsand**, Institutt for energiteknikk, IFE, Kjeller, Complex

eldrid.svasand@ife.no

*Using oscillating magnetic holes for viscosity measurements of ferrofluids***Sedsel Fretheim Thomassen**, NTNU

sedsel.thomassen@ntnu.no

*Quantum dot intermediate band solar cell***Jørn Inge Vestgården**, Universitetet i Oslo, Complex

j.i.vestgarden@smn.uio.no

*Interaction Between a Magnetic Domain Wall and Superconducting Vortices***Jan Ludvig Vinningland**, Universitetet i Oslo, Complex

janlv@fys.uio.no

*Simulation and Experiment of a Rayleigh-Taylor Instability in Granular Flow***Helge Weman**, NTNU

helge.weman@iet.ntnu.no

*Exciton transfer efficiency between asymmetric coupled GaAs V-groove quantum wires***Vitaliy Yurchenko**, Universitetet i Oslo, Complex

vitaliy.yurchenko@fys.uio.no

Flux dendrites of opposite polarity in superconducting MgB₂ rings

List of Participants

- Poster # Posters:**
- 1** **Lars Ramstad Alme**, NTNU, Complex
larsrams@stud.ntnu.no
WAXS studies of water transport in alayered synthetic silicate
- 23** **Christian Andre Andresen**, NTNU, Complex
christan@phys.ntnu.no
CRUMPLED PAPER
- 2** **Jan Øystein Haavig Bakke**, NTNU, Complex
janoiste@phys.ntnu.no
Failures and avalanches in complex networks
- 3** **Mark Buchanan**, Universitetet i Oslo, Complex
mark.buchanan@fys.uio.no
Pattern formation in particle laden film suspensions
- 24** **Fabiano Colauto**, UNIVERSIDADE FEDERAL DE SÃO CARLOS, Brasil
fcolauto@df.ufscar.br
Effect of AC-field on the stability of superconducting thin film of MgB₂ and Nb
- 4** **Dmitry Denisov**, Universitetet i Oslo, Complex
dmitryd@fys.uio.no
Dependence of dendritic flux avalanches on the size of the superconducting film
- 5 and 6** **Jon Otto Fossum**, NTNU, Complex
jon.fossum@ntnu.no
Title of poster 1: *SAXS and SANS investigations of Colloidal Dispersions of Magnetic Nanoparticles and Clay Nanoplatelets*
Title of poster 2: *Spontaneous and guided self-assembly of clay nanoplatelets*
- 7** **Davi d. M. Fonseca**, NTNU, Complex
davi.fonseca@phys.ntnu.no
Phase behavior of platelet-shaped nanosilicate colloids in saline solutions — a SAXS study
- 8 and 9** **Ahmed Gmira**, NTNU, Complex
ahmed.gmira@ntnu.no
Title of poster 1: *Laponite nanoparticle droplet evaporation on a glass surface: “The coffee stain effect” studied by AFM*
Title of poster 2: *Water Na-fluotohectorite interactions; An AFM study*
- 10** **Martin S. Grønseth**, NTNU
gronslet@ntnu.no
Interplay between ferromagnetism and superconductivity in tunneling currents

List of Participants

Poster

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Posters continued:

- 11 **Øivind Haugen**, Universitetet i Oslo, Complex
oyvind.haugen@smn.uio.no
High resolution thermal imaging of hotspots in superconducting films
- 12 **Mihailo Jankov**, Universitetet i Oslo, Complex
mihailo.jankov@fys.uio.no
Two-dimensional displacement of wetting phase in the presence of oscillatory pressure in the non-wetting phase
- 13 **Øistein Johnsen**, Universitetet i Oslo, Complex
oistein.johnsen@fys.uio.no
Coupled air/grain flow in a Hele-Shaw cells
- 14 **Mari Juel**, NTNU, Complex
mari.juel@ntnu.no
Surface alloy formation after Ce deposition on Rh(110)
- 15 **Henning Arendt Knudsen**, Universitetet i Oslo, Complex
h.a.knudsen@fys.uio.no
Maze patterns in a Hele-Shaw cell
- 16 **Kenneth D. Knudsen**, Institutt for energiteknikk, IFE, Kjeller, Complex
knudsen@ife.no
The porous space inside bundles of polarized phyllo-silicate crystallites – A SAXS study
- 17 **Yves Meheust**, NTNU, Complex
yves.meheust@ntnu.no
Mesoscopic structure of dried-pressed clay samples from SAXS measurements
- 18 **Åge Andreas Falnes Olsen**, Universitetet i Oslo, Complex
a.a.f.olsen@fys.uio.no
Flux dendrites of opposite polarity in superconducting MgB_2 rings
- 19 **Bjørnar Sandnes**, University of Oslo, Complex, see under invited talks
- 20 **Bo-Sture Skagerstam**, NTNU, Complex, see under invited short contributions
- 21 **Rune Strandberg**, NTNU
strandbe@ntnu.no
PCID-simulations for solar cells with areas of enhanced infrared absorption
- 22 **Henrik Tollefsen**, NTNU, Complex
henrik.tollefsen@ntnu.no
Surface investigation of Ce-Pd alloys

List of Participants**Other participants:**

Olav Aursjoe, Universitetet i Oslo, Complex
olavau@fys.uio.no

Hege S. Bjørnsen, NTNU, Complex
hegesjb@stud.ntnu.no

Rolf Dahl, NTNU
rolf.dahl@ntnu.no

Ariel Fischer, NTNU/IFE, Complex
arielf@stud.ntnu.no

Eirik Flekkøy, Universitetet i Oslo, Complex
flekko@fys.uio.no

Jan Petter Hansen, Universitetet i Bergen
janpetter.hansen@ift.uib.no

Bjørn Hauback, Institutt for energiteknikk, IFE, Kjeller
bjorn.hauback@ife.no

Geir Helgesen, Institutt for energiteknikk, IFE, Kjeller, Complex
geirh@ife.no

Jorunn Hølto, NTNU, Complex
holto@stud.ntnu.no

Ladislav Kocbach, Universitetet i Bergen
ladi@post.ift.uib.no

Ole Martin Løvvik, Universitetet i Oslo
o.m.lovvik@fys.uio.no

Michael Niebling, Universitetet i Oslo, Complex
Michael.Niebling@fys.uio.no

List of Participants**Other participants continued:**

Christian A. Nielsen, NTNU, Complex
chrisni@stud.ntnu.no

Asle Opsahl, NTNU, Complex
asleo@stud.ntnu.no

Steinar Raaen, NTNU, Complex
sraaen@ntnu.no

Nils Ivar Ringdal, NTNU, Complex
nilsivar@stud.ntnu.no

Mateusz Røstad, Universitetet i Oslo, Complex
mateusz@fys.uio.no

Helene Rødal, NTNU, Complex
helenero@stud.ntnu.no

Børge Scheldrupsen, NTNU, Complex
borgeaun@stud.ntnu.no

Arne Skjeltorp, Institutt for energiteknikk, IFE, Kjeller, Complex
arne.skjeltorp@ife.no

Svein Åsmund Slungård, NTNU, Complex
sveinasm@stud.ntnu.no

Turid Worren, NTNU
turid.worren@ntnu.no