

PROGRAM

Wednesday 13. September:

1200-1500: Arrival, registration, put up posters and lunch

1500-1510: Welcome and practical information: *Jon Otto Fossum, NTNU*

1510-1710: Session 1, Chairperson: *Eirik Flekkøy, University of Oslo*

1510-1550: Dan Rothman, MIT:

Earth's Carbon Cycle as a Problem of Reactive Diffusion

1550-1610: Jan-Ludvig Vinningsland, University of Oslo:

Simulation and Experiment of a Rayleigh-Taylor Instability in Granular Flow

1610-1630: Knut Jørgen Måløy, University of Oslo:

Growth activity during fingering in a porous Hele Shaw cell.

1630-1650: Osvanny Ramos, University of Oslo:

Avalanche prediction in Self Organized Critical Systems

1650-1710: Stephane Santucci, University of Oslo

Local Waiting Time Fluctuations along a Randomly Pinned Crack Front

1710-1730: Coffee/Snacks break

1730-1850: Session 2, Chairperson: *Yves Meheust, NTNU*

1730-1810: Bjørnar Sandnes, University of Oslo:

Pattern formation: building mazes with grains

1810-1830: Paul Dommersnes, Université Paris7/NTNU :

Transport and topology in surfactant nanotube networks

1830-1850: Eldrid Svåsand, IFE:

Using oscillating magnetic holes for viscosity measurements of ferrofluids

1850-1910: Coffee/Snacks break

1910-2030: Session 3, Chairperson: *Geir Helgesen, IFE*

1910-1950: Mario Engelsberg, UFPE, Recife, Brasil:

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

1950-2010: Joakim Bergli, University of Oslo:

Spin echo in an arbitrary field: How to undo an unknown rotation

2010-2030: Fernando Oliveira, UnB, Brasilia, Brasil:

Slow relaxation and anomalous diffusion

2100: Dinner

2230-2330: Slide show: Rolf Dahl, NTNU, Trondheim: "4 Seasons at Wadahl"

Thursday 14. September:

0830-1030: Session 4, Chairperson: *Bjørn Hauback, IFE*

0830-0910: Ronald Griessen, Vrije Universiteit, Amsterdam:

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

0910-0950: Mark Pitt, IFE

Surface nano-precipitates in the Ti enhanced NaAlH₄ system

0950-1010: Henning Heiberg-Andersen, IFE:

The Mathematics of NanoCarbon

1010-1030: Morten Kildemo, NTNU

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

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Thursday 14. September, continued:

1030-1050: Coffee/Snacks break

1050-1230: Session 5, Chairperson: Arne Skjeltorp, IFE

1050-1130 Rinke Wijngaarden, Vrije Universiteit, Amsterdam:

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

1130-1150 Tom Henning Johansen, University of Oslo

Dendritic avalanches of magnetic flux in superconducting films

1150-1210 Vitaliy Yurchenko, University of Oslo

New concept of the critical state in superconductors with vortex avalanches

1210-1230 Jørn Inge Vestgård, University of Oslo

Interaction Between a Magnetic Domain Wall and Superconducting Vortices

1230-1400: Lunch

1400-1800: Rafting, Mountain Strolls, etc.

1800-1830: Annual Meeting for Members of the NFS Division for Condensed Matter Physics with Atomic Physics:

10 minutes information about ESRF, elections, etc.

1830-1910: Poster presentations, Chairperson: Jon Otto Fossum, NTNU

Poster presentation in auditorium, one transparent foil per presenter (2 minutes each)

1930-2100: Dinner

2100-2200: Poster session: In poster room

Friday 15. September

1000-1140: Session 6, Chairperson: Jan Petter Hansen, University of Bergen

1000-1040: Johan Mauritsson, Lund University, Sweden:

Attosecond pulse generation and application

1040-1120: Morten Førre, University of Bergen:

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

1120-1140: Bo-Sture Skagerstam, NTNU:

Topics in Cavity Quantum Electrodynamics

1140-1200: Coffee/Snacks break/Remove posters

1200-1340: Session 7, Chairperson: Bo-Sture Skagerstam, NTNU

1200-1240: Ketil Børkje, NTNU:

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

1240-1300: Martin Kirkengen, University of Oslo:

Interference-like cancellations in superconductor-hopping insulator interface

1300-1320: Sedsel Fretheim Thomassen, NTNU:

Quantum dot intermediate band solar cell

1320-1340: Helge Weman, NTNU:

Exciton transfer efficiency between asymmetric coupled GaAs V-groove quantum wires

1400-1530: Lunch

1600-1700: Departure