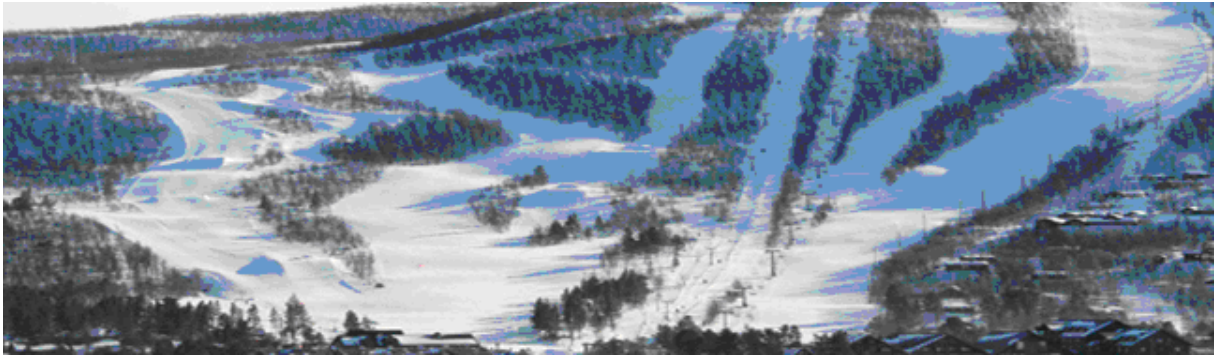


Winter meeting in the NordForsk Researcher Network

**“Time-domain quantum processes studied by
ultrafast radiation pulses”**



Vestlia Highland Hotel

Geilo, Norway

Feb. 28 – March 3, 2012

Scientific Program

Session 1 – Wednesday Feb. 29, 08.30 – 11.30

Lars Bojer Madsen, "Overview of network activities and future plans", (10+10) min.

Darko Dimitrovski, "Ionization in elliptically polarized pulses: Angular shifts and the role of the initial longitudinal momentum spread", (20+10) min.

Nikolay Shvetsov-Shilovskiy, "Carrier-envelope phase effects in the sequential ionization by an intense few-cycle laser pulse", (20+10) min.

Haruhide Miyagi "Time-dependent coupled cluster theory for investigating multielectron dynamics driven by intense laser pulses", (20+10) min.

Maciej Spiewanowski "Non-dipole effects in attosecond photoelectron streaking", (20+10) min.

Christian Bladt Brandt "Laser controlled torsion of molecules", (20+10) min.

Session 2 – Wednesday Feb. 29, 16.30 - 19.00

Eva Lindroth "Overview of research areas, themes and plans in Stockholm" (10+5) min.

Marcus Dahlström "Theory of attosecond delays in laser-assisted photoionization" (20+10) min.

Carl Wesslén "The Coupled Cluster Singles and Doubles method on 2D Quantum dots and rings." (20+10) min.

Thomas Carette "Towards the simulation of pump-probe experiments including many-body effects" (20+10) min.

Alain Dubois "Two-center interference effects in electron emission processes from molecules" (20 + 10) min.

Session 3 – Thursday March 1, 08.30 – 11.30

Jan Petter Hansen "Overview of research areas, themes and plans in Bergen" (10+5) min.

Aleksander Simonsen "Two-photon double ionization of the hydrogen molecule" (20+10) min.

Sigurd Askeland "Prolate spheroidal coordinates applied to H₂⁺" (20+10) min.

Sigrid Ina Simonsen "Strong-field approximation for excited hydrogen atoms" (20+10) min.

Stian Astad Sørngård "Ionization of coherent elliptic states" (20+10) min.

Jana Preclikova "Plans for femtosecond spectroscopy of Rydberg wavepackets" (20+10) min.

Session 4 – Thursday March 1, 16.30 – 19.00

Esa Räsänen, "Brief overview on Jyväskylä activities" (10+5) min.

Perttu Luukko, "Imaginary time propagation method for large-scale eigenvalue problems" (20+10) min.

Janne Solanpää, "New tools for classical many-particle dynamics" (20+10) min.

Ville Kotimäki: "Fractal fluctuations in quantum transport" (20+10) min.

Thursday March 1 at 20.00: Conference Dinner & Nordic Party.