

2nd Workshop on Level Density and Gamma Strength

Oslo, May 11-15, 2009

Workshop program as of May 07, 2009.

Program Overview:

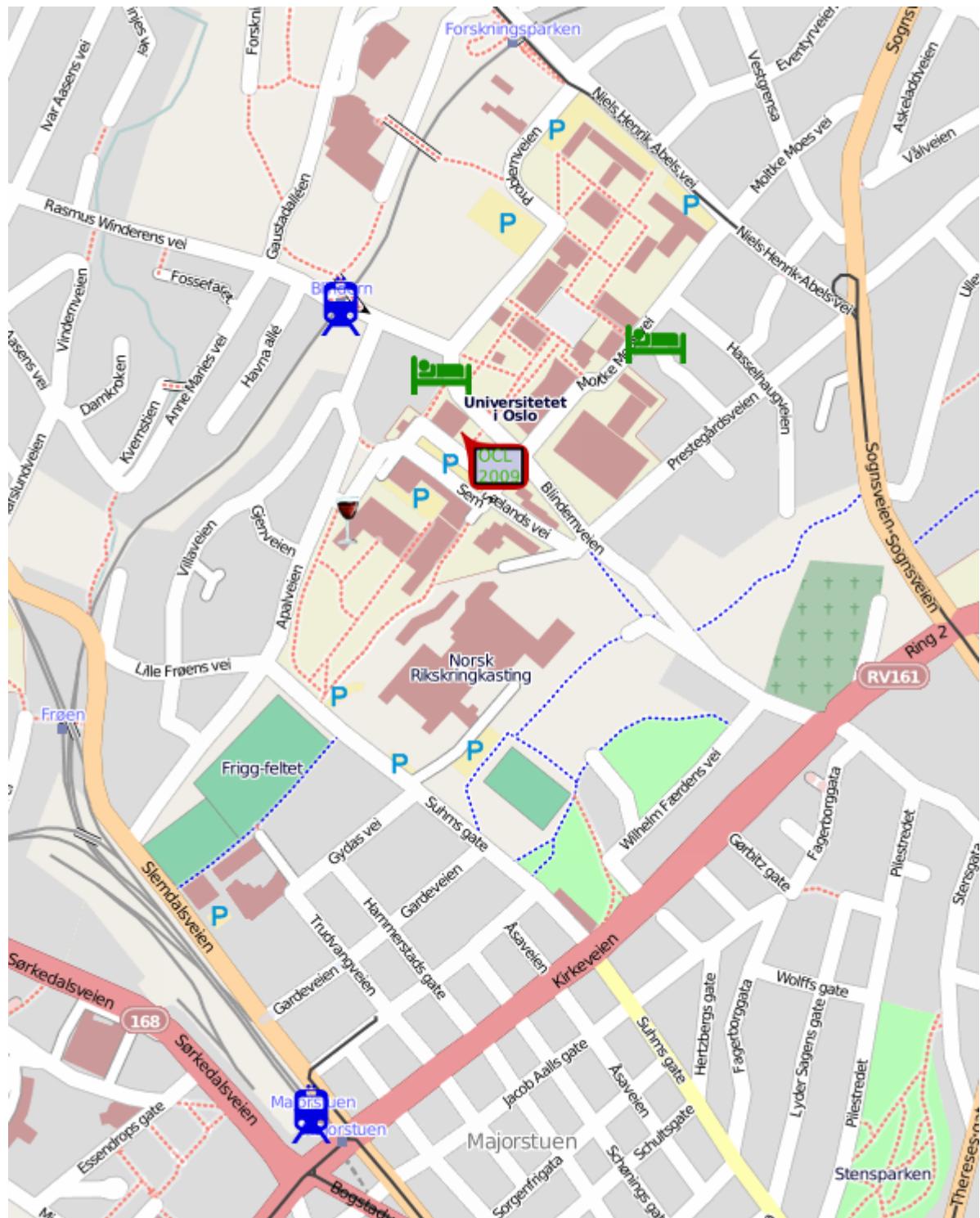
Before the start of the workshop, there will be a reception on Sunday, May 10, from 18:00—21:00 in room VU55 of the chemistry building (see page 3). You will also be able to register during the reception.

The workshop will be in Helga Engs building, see page 2/3.

Monday	Tuesday	Wednesday	Thursday	Friday
08:30 Registration <i>Chair S. Siem</i>	08:30 Coffee <i>Chair L. Bernstein</i>	08:30 Coffee <i>Chair A. Lopez-Martens</i>	08:30 Coffee <i>Chair A. Görzen</i>	08:30 Coffee <i>Chair S. Harissopoulos</i>
09:00 Welcome 09:10 D. Brink 09:50 A. Bürger 10:20 S. Goriely	09:00 R. Firestone 09:40 R. Schwengner 10:20 K. Sonnabend	09:00 S. Åberg 09:40 S. Leoni 10:20 T.L. Khoo	09:00 S. Marrone 09:40 F. Gunsing 10:20 S. Hilaire	09:00 J. Escher 09:40 B.L. Goldblum 10:20 M. Wiedeking
11:00 Coffee <i>Chair T.L. Khoo</i>	11:00 Coffee <i>Chair S. Frauendorf</i>	11:00 Coffee <i>Chair Y. Alhassid</i>	11:00 Coffee <i>Chair M. Hjorth-Jensen</i>	11:00 Coffee <i>Chair M. Guttormsen</i>
11:30 H. Utsunomiya 12:10 A. Voinov	11:30 Y. Alhassid 12:10 H. Nakada	11:30 S. Frauendorf 12:10 V. Zelevinsky 12:50 K. Mazurek	11:30 S. Harissopoulos 12:10 H.T. Nyhus 12:50 H.K. Toft	11:30 L. Bernstein 12:10 S. Grimes 12:50 Conclusions
12:50 Lunch <i>Chair S. Åberg</i>	12:50 Lunch <i>Chair G.E. Mitchell</i>	13:20 Lunch	13:20 Lunch <i>Chair M. Krtička</i>	13:20 Lunch
14:00 G.E. Mitchell 14:40 M. Krtička 15:20 J. Wilson	14:00 J.M. Gomez 14:40 J. Endres 15:20 A. Tonchev	14:30 Excursion to Bygdøy: * Fram Museum * Viking ship	14:30 N. Lo Iudice 15:10 O. Wieland	15:50 Coffee <i>Chair R. Firestone</i>
16:00 Coffee <i>Chair A. Voinov</i>	16:00 Coffee	18:00	16:20 V. Plujko 16:50 B. Zhuravlev	17:10 Discussion “Level densities”
16:30 R. Capote 17:10 A. Ignatyuk	16:30 Discussion “Strength functions”	18:30 Conference Dinner		
18:00 Pizza at OCL 21:00 17:40–21:00		23:00		

Overview of the university area

Please also see the web page where we have built an interactive [map](#) showing many places of interest for the workshop.



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Workshop Program

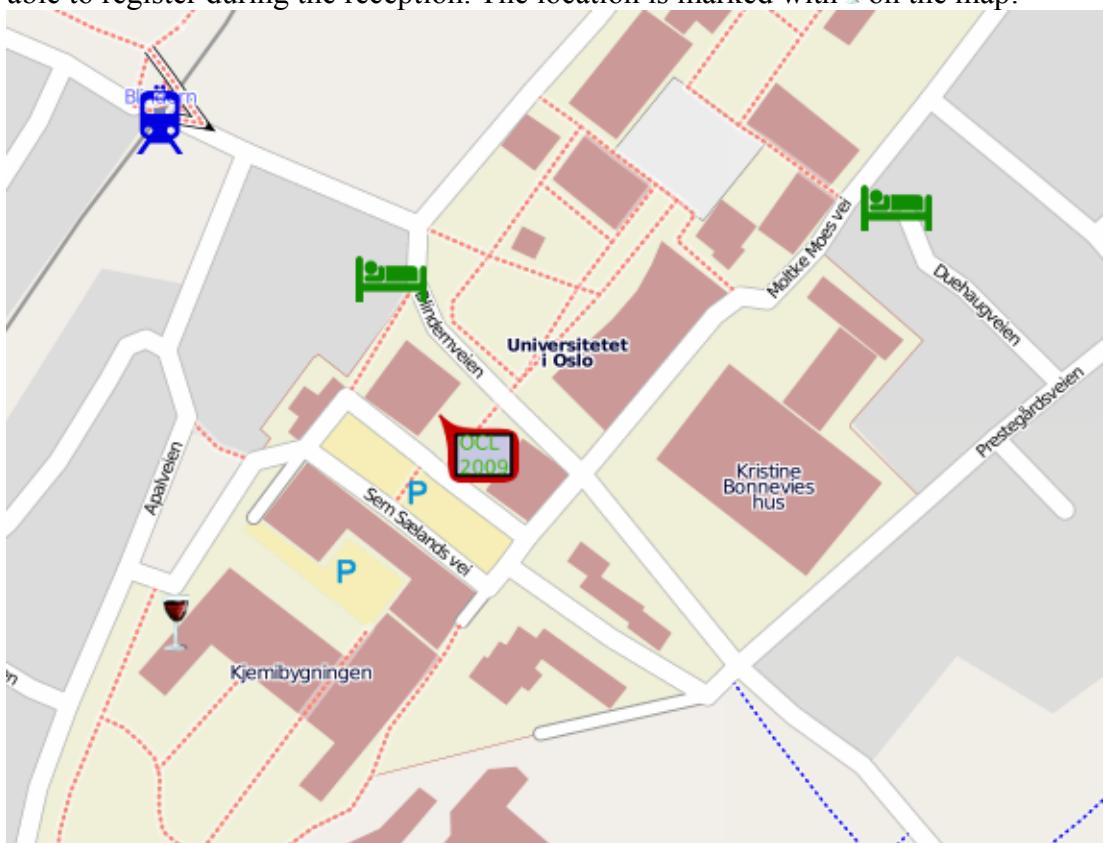
Workshop program as of May 07, 2009:

Sunday, May 10, 2009:

Evening Program

18:00—21:00 Reception

Wine and cheese will be served in room VU55 in the chemistry building. You will be able to register during the reception. The location is marked with  on the map:



(all maps from www.openstreetmap.org)

Monday, May 11, 2009:

08:30—09:00 Registration and Coffee

1st Session, chair: S. Siem

09:00—09:10 Welcome

09:10—09:50 David Brink

The Brink hypothesis 54 years later

09:50—10:20 Alexander Bürger

Level Densities and γ Strength Functions in Light Sc and Ti Isotopes

10:20—11:00 Stephane Goriely

Level densities and gamma strengths for astrophysics applications

11:00—11:30 Coffee

2nd Session, chair: T.L. Khoo

11:30—12:10 Hiroaki Utsunomiya

Pigmy E1 and giant M1 resonances in nucleosynthesis of heavy elements

12:10—12:50 Alexander Voinov

Level Densities and γ -strength functions from compound nuclear reactions

12:50—14:00 Lunch

3rd Session, chair: S. Åberg

14:00—14:40 Gary E. Mitchell

Neutron capture experiments with DANCE

14:40—15:20 Milan Krčka

The two-step cascade method

15:20—16:00 Jonathan Wilson

Nuclear data for reactor physics: Cross sections and level densities in the actinide region

16:00—16:30 Coffee

4th Session, chair: A. Voinov

16:30—17:10 Roberto Capote

Micro-canonical level densities of U-234

17:10—17:40 Anatoly Ignatyuk

Neutron resonance densities and neutron strength functions for RIPL-3

Evening Program

18:00—21:00 Pizza at the Oclo Cyclotron Laboratory

We offer to guide you to the laboratory after the end of the session.

Tuesday, May 12, 2009:

08:30—09:00 Coffee

1st Session, chair: L. Bernstein

09:00—09:40 Richard Firestone

The Influence of Nuclear Structure on Statistical Decay Properties

09:40—10:20 Ronald Schwengner

Enhanced dipole strength below particle threshold

10:20—11:00 Kerstin Sonnabend

Experiments with photon-induced reactions

11:00—11:30 Coffee

2nd Session, chair: S. Frauendorf

11:30—12:10 Yoram Alhassid

Level densities of rare-earth nuclei in the shell model Monte Carlo approach

12:10—12:50 Hitoshi Nakada

Spin- and isospin-projected nuclear level densities in the shell model Monte Carlo methods

12:50—14:00 Lunch

3rd Session, chair: G.E. Mitchell

14:00—14:40 Jose M. Gomez

Recent results in quantum chaos and its applications to nuclei and particles

14:40—15:20 Janis Endres

Systematic Studies of the Pygmy Dipole Resonance by means of the $(a,a'\gamma)$ reaction

15:20—16:00 Anton Tonchev

Study of the Nuclear Dipole Response using the Monoenergetic and Polarized Gamma Beams at HIGS

16:00—16:30 Coffee

4th Session

16:30—17:40 Discussion “Strength functions”

Discussion leader: S. Siem

Wednesday, May 13, 2009:

08:30—09:00 Coffee

1st Session, chair: A. Lopez-Martens

09:00—09:40 Sven Åberg

Combinatorial Nuclear Level Density Model

09:40—10:20 Silvia Leoni

Warm superdeformed nuclei: probes of nuclear structure and tunneling processes at the onset of chaos

10:20—11:00 Teng Lek Khoo

Structure information from excited nuclear states

11:00—11:30 Coffee

2nd Session, chair: Y. Alhassid

11:30—12:10 Stefan Frauendorf

Instantaneous-shape sampling for calculating the electromagnetic dipole strength in transitional nuclei

12:10—12:50 Vladimir Zelevinsky

Chaos, Thermalization and Statistical Features of Complex Nuclei

12:50—13:20 Katarzyna Mazurek

Single Particle Level Density in Tetrahedral and Octahedral Nuclear Shapes

13:20—14:15 Lunch

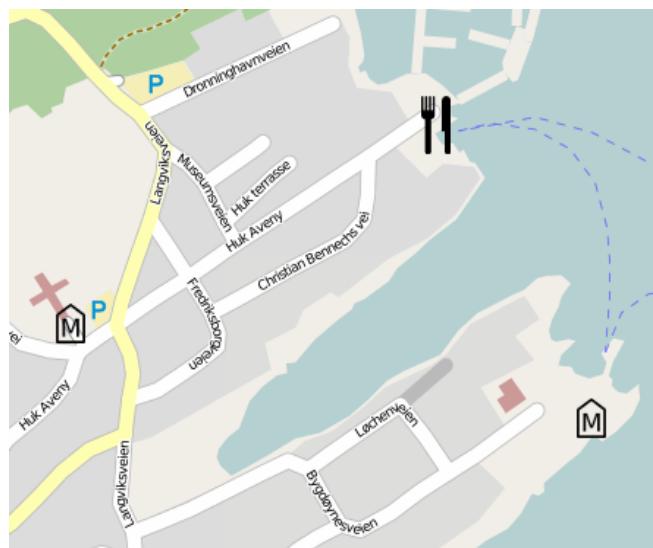
Afternoon Program

Visit of Bygdøy Museums: we offer to guide you from the workshop location to the museums. We suggest to take the tram to Nasjonaltheatret, walk to the harbour, and to take the boat to Bygdøy (2nd stop) where the museums and the restaurant for the conference dinner are located (see the [map](#) on the web page). Please pay attention to the announcements during the workshop. We have arranged for a guided tour through the Fram Museum (right on the map) at 15:30. After that, we suggest to proceed to the Viking Ship Museum (left).

Evening Program

18:30—23:00 Conference Dinner

We start with a welcome drink at 18:30 at the restaurant “[Lanternen](#)” on Bygdøy (see the [map](#) on the web page). The address is: Huk Aveny 2.



Thursday, May 14, 2009:

08:30—09:00 Coffee

1st Session, chair: A. Görgen

09:00—09:40 Stefano Marrone

Nuclear Level Density and Photon Strength Function Measurements at n_TOF

09:40—10:20 Frank Gunsing

Level densities from neutron resonance parameters in evaluated nuclear data libraries

10:20—11:00 Stephane Hilaire

Combinatorial level densities for practical applications

11:00—11:30 Coffee

2nd Session, chair: M. Hjorth-Jensen

11:30—12:10 Sotirios Harissopoulos

Optical Model Potentials and Nuclear Level Densities for the nucleosynthetic p-process: an experimentalist's point of view

12:10—12:50 Hilde T. Nyhus

Level densities and γ strength functions in $^{163,164}\text{Dy}$

12:50—13:20 Heidi K. Toft

Level Densities and γ -Ray Strength Functions in $^{116,118,119}\text{Sn}$

13:20—14:30 Lunch

3rd Session, chair: M. Krčka

14:40—15:10 Nicola Lo Iudice

Role of Multiphonon Configurations on Nuclear Spectra and Giant Resonances

15:10—15:50 Olivier Wieland

The Gamma Decay of the GDR Under Extreme Conditions

15:50—16:20 Coffee

4th Session, chair: R. Firestone

16:20—16:50 Vladimir Plujko

Closed-form E1 Radiative Strength Functions for Gamma-Decay and Photoabsorption

16:50—17:20 Boris Zhuravlev

Nuclear level densities of ^{208}Bi and ^{209}Po from neutron spectra in (p,n) reaction on nuclei of ^{208}Pb and ^{209}Bi

17:20—18:20 Discussion “Level densities”

Discussion leader: M. Guttormsen

Friday, May 15, 2009:

08:30—09:00 Coffee

1st Session, chair: S. Harissopoulos

09:00—09:40 Jutta Escher

Cross sections for neutron capture and other compound reactions from Surrogate measurements

09:40—10:20 Bethany Lyles Goldblum

Surrogate Ratio Methodology for the Indirect Determination of (n, γ) Cross Sections

10:20—11:00 Mathis Wiedeking

Measuring lifetimes in the quasi-continuum

11:00—11:30 Coffee

2nd Session, chair: M. Guttormsen

11:30—12:10 Lee Bernstein

Reactions on Nuclei in High Energy Density Plasmas

12:10—12:50 Steve Grimes

Nuclear Level Densities

12:50—13:10 Andreas Zilges

Conclusions

13:20—14:30 Lunch

End of Workshop