**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.
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.
**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 a * on the map:

![Map of the area](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 Krtička
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 \((a,a')\) 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 trough 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 Harissopulos  
*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 $^{163,164}$Dy*

12:50—13:20 Heidi K. Toft  
*Level Densities and γ-Ray Strength Functions in $^{116,118,119}$Sn*

13:20—14:30 Lunch

3rd Session, chair: M. Krtička

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. Harissopulos

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