

# IFT-POSTEN

NYTT FRA INSTITUTT FOR FYSIKK  
OG TEKNOLOGI  
UNIVERSITETET I BERGEN

## Department Head's Intro

At the moment of writing this, I am sitting comfortably at a hotel south of Os, where I received some status updates on central strategic planning at UiB and where the faculty's draft of the strategic plan has been discussed. A part of the strategy will be about improving access to external funding. I assume that many of you are interested in both the strategic processes and external funding, so we hereby invite you to an open meeting the following Friday where these points will be addressed. The agenda will be as follows:

- Helge Dahle informs about the status within the strategic process at UiB and at our faculty in particular.
- Contributions and comments.
- Anne Fjellbirkeland of the Research Administrative Department informs us about the possibilities in the EU-system, as well as about possible financial support from the FA in connection with application formulations and project execution.



South of Os

Time and place: Friday, March 13th, from 12:30 at Bachelor Room.

I hope many of you will be able and interested to attend this open meeting which touches upon very important issues! Or in the words of the man who had already been quoted several times in this intro:

**By failing to prepare, you are preparing to fail!**

Have a great weekend,

-Øyvind

## Registration deadline for summer holidays 2015

The Vacation Law and the Tariff Agreement regulate the employees' right and duty for using vacation time. The employer has to make sure that the employees use their vacation days, 25 days (30 vacation days for employees over 60 years of age) in the course of one year.

The use of vacation days should be announced a good deal in advance. In cases where you cannot agree on vacation dates, the employer can set up the dates for vacation. The vacation days should normally be announced and agreed upon two months prior to using your vacation. The extra vacation (5 days) for employees over 60 years of age, can be used as single free days or joined with other vacation days. The employee is supposed to inform the employer at least two weeks prior to using these extra days. **The Faculty of Mathematics and Natural Sciences has agreed upon the following dates as deadlines for registering your vacation time:**

[Read more here about vacation registration at UiB.](#)

| Vacation   | Announcement deadline         | Fixed vacation                |
|--|-------------------------------|-------------------------------|
| Winter holidays (week 9)   | ASAP                          | March 12 <sup>th</sup> 2015   |
| Easter holidays (week 14)  | March 12 <sup>th</sup> 2015   | March 20 <sup>th</sup> 2015   |
| Summer holidays (May 15 <sup>th</sup> – September 15)<br>at least 3 weeks in this period | April 15 <sup>th</sup> 2015   | April 30 <sup>th</sup> 2015   |
| Autumn holidays and leftover holidays (excl.<br>Christmas holidays)                      | August 15 <sup>th</sup> 2015  | August 30 <sup>th</sup> 2015  |
| Christmas holidays   | October 15 <sup>th</sup> 2015 | October 30 <sup>th</sup> 2015 |



Følg oss på  
Facebook

## PhD - disputation

MSc. Angela Gligorova will hold a PhD disputation, by the following title:

*Development and data analysis of a position detector for AEGIS (Antimatter Experiment: Gravity, Interferometry, Spectroscopy)*

Friday, March 13<sup>th</sup>, at 13:15 in Auditorium 2, Allégaten 41 (Realfagbygget.)

Her supervisors were Heidi Sandaker and Nicola Pacifico from IFT, and Michael Doser from CERN .

[Check out this link for press release](#)

Open to all interested parties. Please make sure that you arrive well before the actual start of the disputation!



## Master thesis presentation

Arman Salimi will hold a Master thesis presentation in multi-phase systems, by the following title:

*The Effect of Fluid Viscosity and Geometry on Hydrocyclone Performance*

Tuesday, March 10<sup>th</sup>, at 10:15, room 292, Bjørn Trumpys House (Physics building).

Supervised by Alex C. Hoffmann from IFT.

## Announcement: FORNY Verification Funds

BTO would like to inform the researchers at IFT that they can now apply for FORNY Verification Funds. Check out the attached information documents in [Norwegian](#) and [English](#).

**Program management of the FORNY2020 published on February 23<sup>rd</sup> 2015 that they have received one extra call for Verification Funds for Spring 2015. Application deadline for these funds is set for April 15<sup>th</sup> 2015.**

In other words, you have very little time. Therefore it is important that you get in touch as soon as possible with BTO so that your application gets the best possible starting point. Contact as soon as possible and latest by March 9<sup>th</sup> for introductory project discussions.

**Chinese University of Hong Kong (CUHK)** invites PhD research assistants and scholars from UiB and other WUN-universities to apply for funds for research stays at CUHK in the period from August 1<sup>st</sup> 2015 – July 31<sup>st</sup> 2016.

Application deadline for CUHK Global Scholarship Program (Ph.D.-candidates): April 24<sup>th</sup> 2015. [More info about the applications](#).

Application deadline for CUHK Inbound Research Mobility Scheme (scholars): March 31<sup>st</sup> 2015. More application information available from [this link](#).

CUHK is also the host of this year's WUN Annual General Meeting, Conferences, Workshops and Symposium in the last week of April. [Check out also the WUN Newsletter](#).



## Would you like to become a teacher?

Have you obtained a Bachelor diploma, Master's degree or the minimum of 180 study points in the course of spring 2015?

Do you have 60 study points in two subjects that can be taught in school?

**Then the practical teaching education can be the right thing for you!**

Come to the Informative Meeting for practical teaching studies at the Store Auditorium at SV-building (Lauritz Meltzers House), March 11<sup>th</sup>, at 14:30.



## PhD Research Assistant

**Mojdeh Zarifi**

**Petroleum and Process Technology**

**Supervised by Bjørn Kvamme and Tatiana Kuznetsova**



Hi, my name is Mojdeh, or if I was to write it in Norwegian, Måsjdeh, with the "å" and the "j" pronounced almost as the French word bonjour! I was born in Iran in a well-educated family in the fabulous city of Shiraz, with nice mild weather and friendly people full of hospitality. I mostly grew up in Isfahan, another historical and beautiful, large city. However, I finished both my bachelor's and master's degree in the international university of Shiraz, my native city. I have been in Bergen since May 2014, and honestly I still enjoy the rain, as I always appreciated it in Iran. Maybe I haven't been here long enough yet!

I am a rather deep, imaginative and a bit of a shy person. The main characteristic that totally shapes my personality is my deep belief in the power of our thoughts. I believe there is nothing unachievable in this world if I start to think about it with strong will. I am mostly recognized as a calm, but energetic person actually, although I may seem different encountering different people.



Once upon a time in my early twenties, I decided to restrict my research and future career as a process engineer in a pathway that can help our environment to survive, so I have always tried to follow projects and research areas within that discipline. Here at the Department of Physics and Technology I am working with Professor Bjørn Kvamme and Professor Tatiana Kuznetsova. I work within a project on safe long term storage of CO<sub>2</sub> and meantime methane hydrate recovery. I should enhance a code for molecular scale modeling and simulation of gas hydrate in reservoir with free energy minimization approach, called Phase Field Theory (PFT). To be successful in this research you should have good knowledge of thermodynamic, reservoir physics, mathematics, and of course computer programming. I hope spending enormous hours daily behind the computer and dealing with codes do not make me less physically active.



There is a number of things I like to do in my free time. I am especially keen on arranging get-togethers or spending time with friends. Usually we go hiking and biking. I am also a book worm; once I find one of my favorite subjects I can hardly stop reading. I really love to be outdoors, and I like plants and animals. Whenever I am in a stressful situation, or I feel down, there's nothing like planting and gardening to calm me down and rejuvenate me. Watching well designed international movies is another of my hobbies, especially if there would be a chance for discussion with other people at the end. There is one thing I still would like to try and that's the exciting experience of bungee jumping, free fall and para-gliding. I'm not brave enough to do it without company though, so next time you want to try this, please let me join you!

## Photos of the Week

By Hanne Starfish, Bachelor student of Physics, IFT  
Studying Arctic geophysics in Longyearbyen at Svalbard

*With a sneaking winter depression, and the cheap, long-lasting milk from Germany as the only source of D-vitamins, at the end of February it was about time to finally expose the pale skin to some short-wave rays. The day was dedicated to a hiking trip to Nordenskiöldfjellet. At the Nordenskiöld top I caught the first glimpse of the sun in over one month. Absolutely fantastic. I was told that I even looked a bit sun burnt after this tour, but assume that that was just a very lousy attempt at a joke.*



# TA MASTER I FYSIKK?

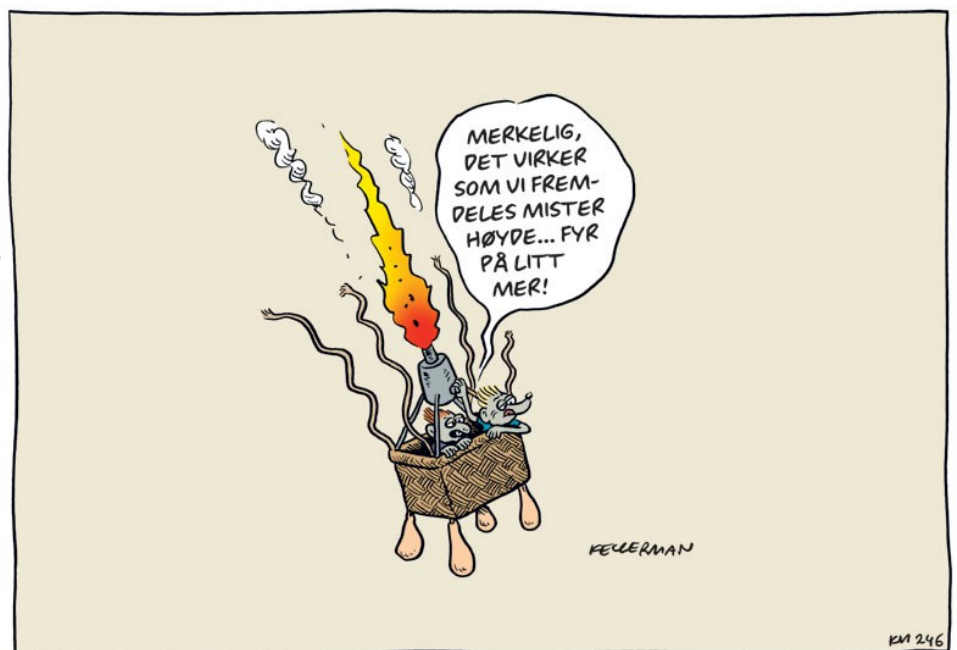
**Kom på informasjonsmøte om masterprogrammet i fysikk!**  
Møt forskningsgruppene bak hver av studieretningene og hør mer om aktuelle masterprosjekt.

- 10.15 Informasjon om søknadsprosess, opptak og studiet generelt
- 10.25 Akustikk (Per Lunde)
- 10.35 Måleteknologi og instrumentering (Vårin Renate A. Holm)
- 10.45 Optikk og atomfysikk (Ladislav Kocbach/Børge Hamre)
- 10.55 Romfysikk (Nikolai Østgaard)
- 11.05 Partikkelfysikk (Gerald Eigen)

- 11.15 Kjernefysikk (Per Ivar Lønne)
- 11.25 Medisinsk fysikk og teknologi (Kristian Ytre-Hauge)
- 11.35 Mikroelektronikk (Arild Velure)
- 11.45 Eirik Hatlen forteller om hvordan det er å være masterstudent ved IFT og litt om «sin» studieretning, teoretisk fysikk

Spørsmål? Kontakt [irlin.nyland@ift.uib.no](mailto:irlin.nyland@ift.uib.no)

**ONSDAG 11. MARS 10.15 – 12.00**  
**Bachelorrommet (rom 359),**  
**Fysikkbygget (IFT) – Allégaten 55**



**H-bar** is open every Friday from 19.00 - 01.00.

On Tuesdays, every even-numbered week, there are organized pub-lectures at H-bar.

More info at H-bar's [facebook page](#). H-bar is run by IFT's Fagutvalget, and is primarily aimed at department's students – but employees are also welcome!



## Publications

- Meric, Ilker; Johansen, Geir Anton; et al.: A library least-squares approach for scatter correction in gamma-ray tomography RADIATION PHYSICS AND CHEMISTRY Volume: 108 Pages: 39-47
- Altinpinar, S.; Djuvsland, O.; Fehlker, D.; Haaland, O.; Huang, M.; Loenne, P. I.; Nystrand, J.; Rehman, A.; Roehrich, D.; Skjerdal, K.; Ullaland, K.; Velure, A.; Wagner, B.; Yang, S.; et al.: Multiplicity dependence of jet-like two-particle correlation structures in p-Pb collisions at  $\sqrt{s(NN)}=5.02$  TeV PHYSICS LETTERS B Volume: 741 Pages: 38-50
- Buanes, T.; Dale, O.; Eigen, G.; Kastanas, A.; Liebig, W.; Lipniacka, A.; Latour, B. Martin Dit; Rosendahl, P. L.; Sandaker, H.; Sjursen, T. B.; Smestad, L.; Stugu, B.; Ugland, M.; et al.: Search for new phenomena in events with a photon and missing transverse momentum in pp collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector PHYSICAL REVIEW D Volume: 91 Issue: 1
- Buanes, T.; Dale, O.; Eigen, G.; Kastanas, A.; Liebig, W.; Lipniacka, A.; Latour, B. Martin Dit; Rosendahl, P. L.; Sandaker, H.; Sjursen, T. B.; Smestad, L.; Stugu, B.; Ugland, M.; et al.: Measurements of Higgs boson production and couplings in the four-lepton channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector PHYSICAL REVIEW D Volume: 91 Issue: 1
- Altinpinar, S.; Djuvsland, O.; Fehlker, D.; Haaland, O.; Huang, M.; Loenne, P. I.; Nystrand, J.; Rehman, A.; Roehrich, D.; Skjerdal, K.; Ullaland, K.; Velure, A.; Wagner, B.; Yang, S.; Zhou, Zhuo; et al.: Measurement of electrons from semileptonic heavy-flavor hadron decays in pp collisions at  $\sqrt{s}=2.76$  TeV PHYSICAL REVIEW D Volume: 91 Issue: 1
- Eigen, G.; Stugu, B.; et al.: Study of  $B^{+/-}, B^0 \rightarrow J/\psi(K+K-K +/-, 0)$  and search for  $B^0 \rightarrow J/\psi \phi$  at BABAR PHYSICAL REVIEW D Volume: 91 Issue: 1
- Buanes, T.; Dale, O.; Eigen, G.; Kastanas, A.; Liebig, W.; Lipniacka, A.; Latour, B. Martin Dit; Rosendahl, P. L.; Sandaker, H.; Sjursen, T. B.; Smestad, L.; Stugu, B.; Ugland, M.; et al.: Measurement of flow harmonics with multi-particle cumulants in Pb plus Pb collisions at  $\sqrt{(NN)-N-S}=2.76$  TeV with the ATLAS detector EUROPEAN PHYSICAL JOURNAL C Volume: 74 Issue: 11
- Buanes, T.; Dale, O.; Eigen, G.; Kastanas, A.; Liebig, W.; Lipniacka, A.; Latour, B. Martin Dit; Rosendahl, P. L.; Sandaker, H.; Sjursen, T. B.; Smestad, L.; Stugu, B.; Ugland, M.; et al.: Search for top squark pair production in final states with one isolated lepton, jets, and missing transverse momentum in  $\sqrt{s}=8$  TeV pp collisions with the ATLAS detector JOURNAL OF HIGH ENERGY PHYSICS Issue: 11 Article Number: 118



## Useful links

[The IFT Webpages](#)  
[Employees at the administration](#)

[Webpages of the Faculty](#)  
[The Board of Faculty](#)  
[The Faculty- Strategy and Vision](#)  
[The HSE Gateway](#)  
[Archive of IFT-posten](#)

[The UiB Magazine](#)  
The internet News Bulletin [På Høyden](#)  
[FAQ A - W](#)  
Fagutvalget at IFT: <http://fft.uib.no/> / [Facebook](#)

[UiB internal phonebook](#)  
[Employee pages](#)  
[PagaWeb](#) (Your current job)  
[BRITA](#) (IT-support)  
[LYDIA](#) (transport)  
[SEBRA](#) (user account)  
[The Campus Bus](#)  
[Cristin](#)  
[Pubmed](#)

[Recent PhDs at the UiB](#)  
[Vacant positions at UiB](#)

Contact the editor / editorial of IFT-posten: [anders.kulseng@ift.uib.no](mailto:anders.kulseng@ift.uib.no) / [ift-posten@ift.uib.no](mailto:ift-posten@ift.uib.no)

**Ift-posten is published by the  
Department Physics and Technology, UiB  
Telephone: +47 55 58 28 06  
Fax: +47 55 58 94 40  
Contact: [post@ift.uib.no](mailto:post@ift.uib.no)  
[ift-posten@ift.uib.no](mailto:ift-posten@ift.uib.no)**

