

THE COSMIC DAWN CENTER NEWSLETTER

Date: December 2020

COVID-19 UPDATE

The numbers of COVID-19 infections reported daily are high in and around Copenhagen. Experts expect them to stay this way over New Year's. At NBI, we will keep [the current restrictions](#) in place at least through **January 10th**. This means: All that can work from home now must work from home. This includes all admin and all non-lab active staff. If you are unable to work from home, contact Johan Fynbo.



THESIS & DEFENSES UPDATE

The guidelines at Science state that all defenses of M.Sc., B.Sc. or other projects should by default be online until **August 31st**. It is possible to have the defense on campus if the student and supervisor agree, but in that case, you need to fill out a form.

[Form for registering onsite defense](#)

PLEASE NOTE that the present shutdown prevents onsite defenses until **February 5th**.

[Read more here](#) or contact Gitte

Michelsen, uddannelse@nbi.ku.dk

PUT GDPR ON YOUR TO DO LIST

GDPR course is now compulsory for all employees who handle personal data. Get started with the course – [here](#) remember your headphones, coffee and get your computer ready.

FUNDING



TELESCOPE ON THE ROOF AT NBB

Fondet Dr. N. P. Wieth-Knudsens Observatorium has awarded DAWN - DKK 100,000 – to buy a small tripod telescope which can be used for student projects and outreach activities. The telescope, a Takahashi Epsilon 180-ED, has very fast optics and hence a large field of view of several degrees. It will be mounted on the roof of the NBB building. A larger telescope and a dome will hopefully also be mounted on the roof, however funding for this project has not yet been secured.

1ST AUTHOR'S PUB CLUB

Welcome 2 New Members!

Mikkel Stockmann - [The Fundamental Plane of Massive Quiescent Galaxies at \$z \sim 2\$](#) and Beryl Hovis-Afflerbach - [Identifying and Repairing Catastrophic Errors in Galaxy Properties Using Dimensionality Reduction](#).

Mikkel defended his PhD thesis at DAWN in October 2019.

Beryl is a student at CALTECH and participated in DAWN's 2019 summer program under the supervision of Charles Steinhardt.

CONGRATULATIONS!

MORE FUNDING

DAWN AWARDED TWO CARLSBERG GRANTS

Congratulations to Bitten Gullberg and Thomas Greve on being awarded the Carlsberg Reintegration Fellowship and the Carlsberg Young Researcher Grant, respectively.



Bitten, who is currently a Hasselblad Fellow at Chalmers University of Technology,

was awarded the grant based on her proposed research of understanding the physical properties of the interstellar medium in luminous galaxies (read more [here](#)). The project will in part make use of VLT and ALMA data. Bitten will join DAWN at DTU next September.



The funding Thomas received will support research into the formation evolution of galaxy

clusters – the largest gravitationally bound objects in the Universe (read more about the project [here](#)). The project will in part build upon the Greenland Telescope GISMO Extragalactic Survey (read more [here](#) and [here](#)).



THE COSMIC DAWN CENTER

JOB OPENINGS AT DAWN

There are currently four PhD Fellowships and one postdoctoral Fellowship positions open at DAWN. Deadlines for these positions are in January.



An additional DAWN postdoctoral Fellowship opening is expected to be advertised in early January with an expected application deadline of **February 15th**. All postings can be found [here](#).

THE ASTRO SIGNALS PROJECT IN SWITZERLAND SEEKS POST DOCS

AstroSignals is a new interdisciplinary initiative to take advantages of advanced signal processing, data science and high performance computing techniques for new generation large radio-interferometry facilities as the SKA, and for the exploitation of existing interferometers (sub-mm and radio).

A Swiss initiative preparing for upcoming research opportunities in the field of radio-astronomy. The project team participates in, and contributes to, the new research infrastructures by working on:

 Synergies in CH and beyond  Research with SKA precursors

 New data exploitation methods  Signal data processing

To learn more about the open positions **CLICK ON THE LINKS BELOW**

▶ [Postdoc position radio/sub-mm astronomy and signal/data processing at UniGe](#)

▶ [Postdoc position computational astrophysics at EPFL](#)

▶ [Postdoc position radio astrophysics & cosmology at EPFL](#)

Visit AstroSignals project (<https://astrosignals.ch/>)

ESO SUMMER RESEARCH PROGRAMME JULY 5TH – AUGUST 13TH 2021

The ESO Summer Research Programme provides a unique **opportunity to students not yet enrolled into a PhD programme**, to carry out a 6-week long research project at the ESO Headquarters in Garching (Germany)*. This fully funded programme will allow the participants to choose between a wide range of research projects, covering many areas of astronomy from planet formation to cosmology. The ESO Summer Research Programme will also provide opportunities beyond research, including lectures, a mini-workshop, and social activities.

Important Deadlines:

Application deadline: February 3rd 2021

Announcement of application results: Week of March 15 2021

Deadline for accepting offers: Late March / Early April 2021

For more information visit
<http://eso.org/summerresearch/>



THE COSMIC DAWN CENTER

UPCOMING BIRTHDAY

We have only one birthday to celebrate next month: BSc Student André Endrup Hartwigen

Happy Birthday André!

DNRF PHOTO COMPETITION 2021

The Danish National Research Foundation invites the Danish scientific community to submit their best photos for the foundation's Photo Competition 2021. We encourage all scientific fields to participate in the competition. The photos should not be produced to "look like art", but rather evoke emotions, curiosity or wonder at the same time as it describes a scientific procedure or object. You can submit your photo until **February 1, 2021**. The foundation encourages individuals across every research field to participate. – [Details here](#)

A little reminder: This tag, DNRF #140, must be included in all DAWN pubs and articles.

FYNBO TWINS MEET THE PRESS

Did you know that Johan has an identical twin brother? They have been interviewed and featured in several articles recently. They both are astrophysicists. And they agree on almost everything – except God. [FULL ARTICLE HERE](#) in English.

And in here is another article: (But it's not in English) PSEUDOLØSNINGER PÅ PROBLEMER MED LIGESTILLING FJERNER FOKUS FRA DE EGENTLIGE PROBLEMER

TVILLINGER BRØD DEN SOCIALE ARV OG ER NU BEGGE FYSIKPROFESSORER – NU ADVARER DE OM BEKYMRENDE TENDENS. [FULL DANISH ARTICLE](#)

ZOOMING INTO THE HOLIDAYS

Due to COVID-19, we gathered over ZOOM to play a Christmas KAHOOT Quiz and solved a few highly scientific challenges.

The evening started with Christmas Greetings and a Cocktail Toast while Iary shared a Hanukkah story. Soon after, we were presented with a few warm up questions before being divided into four teams to take on the big challenges.

Huge thanks to the Christmas Elves Kate Gould, Clara Giménez Arteaga, Meghana Killi, Vadim Rusakova and Malte Brinch for organizing such a fun evening and brain teasing event.



GREETINGS FROM THE RECTOR

Dear Colleagues and Students,

2020 turned out to be a historic year that we will never forget. But also a year when science barged into our everyday lives in a totally new way.

We have had plenty of adversity and challenges, but also highlights. [Click and see what I found to be the best and the worst of 2020 at the University of Copenhagen.](#)

Thank you for holding out all this time. I'm looking forward to seeing you again back on campus.

Merry Christmas and Happy New Year!
Kind regards

Henrik C. Wegener
Rector





THE COSMIC DAWN CENTER

CELEBRATING NEW YEAR'S EVE IN COPENHAGEN

THE DANISH NEW YEAR'S TRADITIONS

When New Year's comes around, Danes get ready to wave good-bye to the year that passed, and they often do so wearing silly hats or bibs. Unlike the calorific Christmas dishes consumed just a few days prior, the New Year's Eve menu consists of boiled cod, served with home-made mustard sauce and all the trimmings. However, Danes are less traditionally bound to the food when it comes to New Year. So, many Danes prepare exotic and alternative specialties for their New Year's dinner.

For dessert, the famous Kransekagen, a Danish invention from the 1700s. Like champagne, it is one of the fixed elements of New Year's Eve. It's a towering cake made from layer-upon-layer of marzipan rings. The cake's turret-like shape promises happiness and wealth for the coming year.

On New Year's Eve when the clock turns to 18:00, many Danes turn their face towards their television to watch and hear the Queen of Denmark give her yearly New Year's speech to the Danish population. A speech that is live-streamed from [Amalienborg](#), this has been a tradition for the monarch since 1941. However, back then the speech was transmitted on the radio.


On this specific day, the Danes like to make a lot of noise. Firecrackers, poppers, fireworks, bullhorns and champagne bottles popping. If it's noisy, it's welcome to join the New Year's table. This tradition stems from back in the days when farmers thought that noise would scare off evil spirits. Back then, it was common knowledge that they were very active around the holidays, so that's why all of the noise had to be made on New Year's Eve. Danes are no longer scared of evil spirits, but they still like their New Year's noise.

The big **New Year's Eve** tradition in **Denmark** involves smashing plates against your friends' front doors. It's also tradition to jump off a chair at the stroke of midnight - symbolizing the leap into the **New Year**. The jump can take place from a table, chair, sofa or any other item that is raised above the ground. This is something the Danes have been doing for the last 60 years or so, and they do it to avoid stepping into the space between the old and the New Year.

The number one Copenhagen New Year's tradition just might be the extravaganza of fireworks. Get out in the streets and feel the celebratory vibes at these three firework hotspots in Copenhagen, but make sure to take the precaution of wearing safety glasses, and please remember your **FACE MASK** and to practice social distancing. **HAPPY NEW YEAR!**



City Hall Square



Dronning Louises Bro



The Copenhagen Lakes