



# Dansk Fysisk Selskab

*Danmarks landsdækkende forening for fysik*

## Årsmøde 2021

21. – 22. juni

Brogaarden,

Abelonelundvej 40 Strib,

5500 Middelfart

Kom og hør foredrag fra en række yngre forskere i den danske fysikverden: Fra **superkølede væsker** og katalyse **til kvante-devices**, og om bedre **rekruttering** og **læring i Fysik!**

Sponsoreret af



**JJ X-RAY**  
Danish Science Design



**Teknologipagten**



# Dansk Fysisk Selskab

*Danmark landsdækkende forening for fysik*

Monday 21.june	<ul style="list-style-type: none"> <li>➤ Invited talks (Speaker name underlined) are 25+5 minutes unless otherwise indicated. Contributed talks are 15 minutes.</li> <li>➤ First speaker of a session acts as chair for that session; 2nd speaker acts as chair for first speaker.</li> <li>➤ The official language of the science part of the meeting is English.</li> </ul>	
10:00-11:00	ARRIVAL AND REFRESHMENTS	
11:00-11:15	Welcome	
11:15-11:50	<u>Astrid Eichorn</u> , <i>Developing of a quantum theory for the fundamental building blocks of nature</i>	
11:50-13:00	<b>X-rays and neutrons</b>	<b>Nuclear and Particle Physics (NICE I)</b>
	<u>Verena Markmann</u> , <i>Shear-induced ordering in liquid <math>\mu</math>-jets revealed by x-ray cross-correlation analysis</i>	<u>Jens-Jørgen Gaardhøje</u> , <i>Short NICE intro / welcome</i> <u>Mogens Dam</u> , <i>The FCCee project</i>
	<u>Philipp Lenzen</u> , <i>Ultrafast structural dynamics of AgPtPOP and TIPtPOP</i>	<u>Peter Christiansen</u> , <i>Strangeness production in small systems - from revolution to resolution</i>
	<u>Erik Brok</u> , <i>LINX -- Linking Industry to Neutrons and X-rays</i>	<u>Craig Wigglesworth</u> , <i>The ATLAS ITk Strip Detector for the High-Luminosity LHC</i>
	<u>Sina Ariaee</u> , <i>Application of in-situ time-resolved GISAXS in studying the Solvo-thermal vapor annealing of a homologous series of ABC miktoarm star terpolymer thin films</i>	
13:00-14:00	LUNCH	
14:00-14:45	<u>Ole Bjælde</u> , <i>10 things you can do to improve your teaching and to make students learn more</i>	
14:45-16:00	<b>Computational Physics</b>	<b>Condensed Phase Physics I</b>
	<u>Trond Ingebregtsen</u> , <i>Universalities in supercooled liquids</i>	<u>Rasmus Toft-Petersen</u> , <i>Manipulating magnetoelectrical materials</i>
	<u>Diana Bregenholt Zederkof</u> , <i>Excited state dynamics simulations of an iron complex with strong solvation effects</i>	<u>Yong Chen</u> , <i>Van der Waals materials for spintronics and quantum technologies</i>



# Dansk Fysisk Selskab

*Danmark landsdækkende forening for fysik*

	Ian Douglass, <i>Entropy Determination of an Atomic System via Data Compression</i>	
	Peter Willendrup, <i>GPU computing for physicist</i>	Mogens From, <i>An improved cooling setup for clouds of cold Yb atoms</i>
16:00-16:30	COFFEE	
16:30-18:00	<b>Condensed Phase Physics II</b>	<b>Nuclear and Particle Physics (NICE II)</b>
	<u>Mie Andersen</u> , <i>Structure-activity relationships of catalytic materials with machine learning</i>	Zuzana Moravcova, <i>Anisotropic flow in small collision systems</i>
		Alessandra Camplani, <i>ATLAS detector upgrades</i>
	Pernille Klarskov, <i>Terahertz spectroscopy of solar cell materials: mobility, conductivity and functionality.</i>	Emil Gorm Nielsen, <i>Nuclear deformation in Pb-Pb and Xe-Xe collisions</i>
	Saeed Mehri, <i>Hidden Scale Invariance in Liquid Crystal of Gay-Berne Fluids</i>	Malte Algren, <i>Improved e/photon energy reconstruction at ATLAS using a CNN</i>
17:30-18:15	<u>Anasua Chatterjee</u> , <i>Increasing the complexity of quantum devices and their tuning</i>	
18:30-19:30	DINNER	
19:30-20:15	<u>Troels Petersen</u> , <i>The modelling of Covid-19... physics thinking during an epidemic</i>	
20:15-22:00	POSTERS	



# Dansk Fysisk Selskab

*Danmark landsdækkende forening for fysik*

Tuesday 22.june	<ul style="list-style-type: none"><li>➤ Invited talks (Speaker name underlined) are 25+5 minutes unless otherwise indicated. Contributed talks are 15 minutes.</li><li>➤ First speaker of a session acts as chair for that session; 2nd speaker acts as chair for first speaker.</li><li>➤ The official language of the science part of the meeting is English.</li></ul>	
07:00-08:30	BREAKFAST	
08:30-09:30	<u>Claus Brabrand</u> : <i>ITUs efforts to recruit and retain more women in Computing</i>	
09:30-10:45	<b>Education and science communication</b>	<b>Nuclear and Particle Physics (NICE III)</b>
	<u>Jesper Bruun</u> , <i>The Mars Base Project: Investigating a grand narrative approach to physics teaching with network analysis</i>	Stefania Xella, <i>Challenging the lepton sector of the standard model</i>
	Lenka Otap, <i>Exoplanet Design for High School Students</i>	Rasmus Ørsøe, <i>A Graph Neural Network Approach to Low Energy Event Reconstruction in IceCube Neutrino Observatory</i>
	Athene Demuth, <i>Experimental physics at the Niels Bohr Institute</i>	Sarah Anderson, <i>Simulations of the FoCal upgrade for ALICE</i>
	Jens Krog, <i>Ellære i gymnasiet med Arduino</i>	Anna Boye, <i>Exploring the evolution of the Early Universe at the first moment</i>
	10:45-11:15	COFFEE
11:15-12:00	Generalforsamling	
12:00-12:30	<u>Mathias P. Clausen</u> : <i>Gastronomy unravelled with Physics</i>	
12:30-14:00	LUNCH	
	THANK YOU AND GOODBYE	