

Annual Meeting of the Danish Physical Society 2019



Dansk Fysisk Selskab

Program

Meeting sponsored by:



JJ X-RAY
Danish Science Design

GRANZOW^{AS}

INDUSTRIAL SOLUTIONS since 1935

- Invited talks (Speaker name underlined) are 25+5 minutes unless otherwise indicated, Contributed talks are 15 minutes
- First speaker of a session acts as chair for that session; 2nd speaker acts as chair for first speaker
- The official language of the science part of the meeting is English

Monday 27/5	Plenaries	Parallel session I	Parallel session II	Parallel session III
1100-1115	<i>Welcome</i> , DFS Chairman Kristoffer Haldrup			
1115-1150	<i>Searching for the Known Unknowns: Lightening up the Dusty Universe</i> , <u>Christa Gall</u>			
1150-1300		<p>Condensed Matter Physics I <i>Multi-scale Structural Dynamics in Oxide Multiferroics</i> <u>Hugh Simons</u></p> <p><i>Spherical harmonics expansion: excellent tool for analysis of anisotropic small-angle scattering data</i> Anine Borger</p> <p><i>Solar cells of CZTS (CuZnSnS) and the first working tandem cell based on a monolithic CZTS-silicon dual-junction cell.</i> Jørgen Schou</p>		<p>NICE session I <i>Introduction</i></p> <p><i>Hadron Scattering Amplitudes from High-Performance Computing</i> <u>John Bulava</u></p> <p><i>Probing the Universe's Primordial Soup at the LHC</i> <u>You Zhou</u></p> <p><i>VME Readout at and Below the Conversion Time Limit</i> Michael Munch</p>
1300-1400	Lunch			
1400-1530		<p>Condensed Matter Physics II <i>Microelectrode Based Metrology for Magnetic Tunnel Junctions</i> <u>Dirch Petersen</u></p> <p><i>Electro-Optomechanical Nanomembrane Arrays</i> Spideh Naserbackht</p>		<p>Town Hall Session <i>Private foundations contributions to research in natural and technical sciences</i> <u>Morten Bache, Thomas Bjørnholm</u> Moderator: Jørgen Schou</p>

		<p><i>Simulated Dynamics and Clustering of Colloidal Magnetic Nanoparticles</i> Frederik Durhuus</p> <p><i>Predicting the Effects of Broadband Radiofrequency Radiation on Radical Pairs in Biological Systems</i> Adrian Bøgh Salo</p>		
1530-1600	Coffee			
1600-1700	<p><i>Engaging Students in Authentic Scientific Practices in Physics Lab Courses</i> <u>Heather Lewandowski</u></p> <p><i>International Physicists' Tournament - a unique opportunity for the most gung-ho students</i> Peter Vesborg, DTU Physics (10 minutes)</p>			
1700-1815		<p>KiF</p> <p><i>On the UCPH Guideline for handling offensive behavior. Clarifying the intensions behind.</i> <u>Thomas Vils Pedersen</u>, academic staff union representative, UCPH.</p>	<p>Quantum Systems</p> <p><i>Entanglement in Quantum Thermal Machines</i> <u>Jonathan Bohr Brask</u></p> <p><i>Quasiparticles in Topological Quantum Systems</i> <u>Anne E. Nielsen</u></p> <p><i>Free-Space QED with Rydberg Superatoms</i> Nina Stiesdal</p>	<p>NICE Session II</p> <p><i>The Newest Results on Antihydrogen from the ALPHA Collaboration(25 m.)</i> Peter Granum</p> <p><i>Probing Environmentally-induced Neutrino Decoherence with IceCube</i> Thomas Struttard</p> <p><i>ATLAS Detector Upgrade for High Luminosity - Danish Contribution</i> Mogens Dam</p>
1815-1915	Dinner			
1915-2000	After dinner talk: Neutron Stars and Black Holes: Mergers and More Magic, <u>Thomas Tauris</u>			
2000-2200...	Poster Session with drinks – sponsored by JJ X-ray and Granzow			

Tuesday d. 28/5	Plenaries	Parallel session I	Parallel session II	Parallel session III
0730-0830	Breakfast			
0830-0930	<i>Imaging of Carrier Dynamics on the Nanoscale with TeraHz Nanoscopy</i> , <u>Pernille Klarskov Pedersen</u>			
0930-1045		Teaching and outreach <i>Reform of Laboratory Teaching at the Department of Physics and Astronomy, Aarhus University</i> Hans Otto Uldall Fynbo TBA Ian Bearden <i>Laboratory teaching at DTU, now, next year and beyond</i> Ole Trinhammer Discussion	High-energy plasma Physics <i>Evaluation of the power fall-off length in ST40 from turbulence simulations</i> (30 minutes) <u>Jeppe Olsen</u> <i>Nuclear Fusion and Microwave Heating</i> Andrea Tancetti <i>Modelling the production of terrestrial gamma-ray flashes in different cloud electric fields in conjunction with ASIM measurements</i> Cristoph Köhn	
1045-1100	Coffee			
1100-1215		Astrophysics <i>IceCube: Neutrinos and Multimessenger Astronomy</i> <u>Markus Ahlers</u> <i>Exploring the Climate of Exoplanets</i> <u>Joao Mendonca</u> <i>Detailed Look at the Stellar Surface Using SONG</i> Heidi Korhonen	"Cold" plasma physics <i>The impact of different plasma technologies on the coating properties</i> <u>Lars Pleth Nielsen</u> <i>Atmospheric pressure plasmas for surface processing</i> <u>Yukihiro Kusano</u> <i>Wrap-up of plasma sessions</i> v. Jens Juul Rasmussen	

1215-1300	DFS Generalforsamling 2019
1300-1400	Lunch