

Program for the Annual Meeting of Danish Physical Society 2018 – FænøSund Conference Center

Invited talks (Speaker name underlined) are 25+5 minutes, Contributed talks are 12+3 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

Wednesday 6th of June	Plenary session	Parallel session I (Fænø Kalv)	Parallel session II (Teglårds Bugt)	Parallel session III (Fænø/FænøSund)
1100-1115	<i>Welcome address</i> <u>Kristoffer Haldrup</u> , DFS Chairman			
1115-1200	<i>Measuring detailed properties of stars and exoplanets</i> <u>Hans Kjeldsen</u> , AU and Astronomisk Selskab			
1200-1300		Next-gen energy technologies <i>Using graphene to enable a million-fold increase in sensitivity of catalytic measurements</i> <u>Peter Vesborg</u> , DTU Physics <i>Synthesis of Novel Earth-Abundant Chalcogenides for Next Generation Photovoltaic Devices</i> <u>Stela Canulescu</u> , DTU Photonics <i>Plasma turbulence, transport barriers, and self-organization</i> <u>Jens Juul Rasmussen</u> , DTU Physics		NICE: EPPS Town Hall (chair: Børge Svane Nielsen) Each talk 6 minutes plus 4 minutes discussion <ul style="list-style-type: none"> • Jens Jørgen Gaardhøje: <i>Overview</i> • Mogens Dam: <i>Particle Physics</i> • I.G. Bearden: <i>Ultrarelativistic Heavy Ion Physics</i> • H. Fynbo: <i>CERN-based Atomic and Nuclear Physics</i> • I.Bravo: <i>Theory</i>
1300-1400	Lunch			
1400-1530		<i>Quantum Systems, large and small</i> <i>Free-space QED with a single Rydberg superatom</i> <u>Sebastian Hofferberth</u> , SDU <i>Particle and wave: Quantum information processing with non-Gaussian light</i> <u>Jonas Neergaard-Nielsen</u> , DTU Physics	KIF Annual Meeting <i>Figures for the gender distribution in physics on various levels in Denmark</i> Mette M.-L. Grage, KIF <i>Influence of gender in academics</i> Ea Høg Utoft, Aarhus University	NICE Annual Meeting <i>NICE News 2018</i> , Jens Jørgen Gaardhøje, NBI <i>First Accurate Normalization of the beta-delayed alpha-decay of ^{16}N and Implications for the $^{12}\text{C}(\alpha, \gamma)^{16}\text{O}$ Astrophysical Reaction Rate</i> Hans Fynbo, AU

		<p><i>Lasing on a forbidden transition in cold Strontium</i> Stefan Alaric Schäffer, NBI</p>	<p><i>Discussion</i></p>	<p><i>Uncovering QCD at LHC with strangeness and new methods</i> Tuva Richert, NBI</p> <p><i>Environmentally induced decoherence in IceCube</i> Mikkel Jensen, NBI</p>
1530-1600	Coffee			
1600-1715		<p>Ultrafast and ultraslow Physics</p> <p><i>Cavity femtochemistry</i> <u>Oriol Vendrell</u>, AU</p> <p><i>Time-resolved X-ray Absorption Spectroscopy of Copper Zinc Tin Sulfide Nanoparticles</i> Christian Rein, DTU Energy</p> <p><i>Structural Dynamics Observed in Real Time Using XFELs</i> Diana B. Zederkof, DTU Physics</p> <p><i>The glass transition – an experimental challenge</i> <u>Tina Hecksher</u>, RUC</p>	<p>Teaching and Outreach I (In Danish) (Chair: Mette M-L Grage)</p> <p><i>Diskussion om Fysik på de danske Gymnasier</i> Kim Bertelsen (Fagkonsulent), Michael Agermose (Formand, Fysiklærerforeningen)</p> <p><i>Hvad med FUF?</i> Ian G. Bearden, NBI</p>	<p>NICE Annual Meeting</p> <p><i>Beyond Colors and Flavors with Supercomputers,</i> <u>Michela Della Morte</u>, SDU</p> <p><i>Exotic Diboson Resonances,</i> Abouzeid Hass, NBI</p> <p><i>Pseudorapidity dependence of anisotropic flow in Pb-Pb collisions with ALICE</i> Freja Thoresen, NBI</p> <p><i>The Angular Power Spectrum of Heavy Ion Collisions</i> Meera V.Machado, NBI</p>
1730-1815	<p><i>Fusion Physics at $T = 100$ million degrees C</i> <u>Stefan Kragh Nielsen</u>, DTU Physics</p>			
1815-1930	Dinner			
1930-2015	<p>After-dinner talk: <i>Gastrophysics</i> <u>Ole Mouritsen</u>, KU Food</p>			
2015-2200	<p><i>Poster session w. drinks</i> - sponsored by JJ X-ray</p>			

Thursday 7th of June	Plenaries	Parallel session I (Fænø Kalv)	Parallel session II (Teglårds Bugt)	Parallel session III (Fænø/FænøSund)
0800-0830	Breakfast			
0830-0915	<i>Looking through the Higgs window for new physics</i> Heidi Rzehak, SDU			
0915-1030	Workshop <i>DIY gamma spectrometer</i> (Gammel Havn)	Quantum Control <i>Controlling light with silicon nanostructures</i> <u>Søren Raza</u> , DTU Nanotech <i>Moore's law meets spin qubits</i> <u>Ferdinand Kuemmeth</u> , NBI	Action-packed atmospheres & plasma physics <i>Stellar magnetic activity and its effects on exoplanets</i> <u>Heidi Korhonen</u> , NBI and Astronomisk Selskab <i>The Atmosphere-Space Interactions Monitor (ASIM)</i> Christoph Köhn, DTU Space <i>The physics of climate – why is climate so stable?</i> Jens-Olaf Pepke Pedersen, DTU Space	
1030-1045	Coffee			
1045-1215	Workshop <i>Build your own cloud chamber</i> (Gammel Havn)	Living & Dead Matter <i>Status of the Danish Centre for Particle Therapy</i> <u>Klaus Seiersen</u> , Danish Centre for Particle Therapy <i>Diffusion as a probe of brain microstructure</i> <u>Sune Jespersen</u> , AU <i>X-ray based Food Analysis</i> Elisabeth Ulrikkeholm, FOSS	Teaching and Outreach II (In Danish) <i>Thoughts of a Teaching Assistant: Preparation, Interest, Responsibility, Evaluation</i> Anine Borger, NBI <i>Gymnasium-University Cooperation in the Physics Lab: Zahles—NBI-ULAB</i> Malene F.S. Nielsen, Zahles Gymnasium <i>The FirstLab Idea</i> Ian G.Bearden, NBI	NICE Annual Meeting <i>Deep Learning as a Parton Shower</i> <u>J. Monk</u> , NBI <i>Investigating Solutions to the Missing Mass Problem in $(g_{\bar{b}}, g_{\text{obs}})$-Space</i> J. Petersen, SDU <i>The Planck Length and the Constancy of the Speed of Light in Five Dimensional Spacetime parametrized with Two Time Coordinates</i> Christoh Köhn, DTU Space <i>Asymmetric dark matter, baryon asymmetry and lepton number violation</i> Wei-Chih Huang, SDU
1215-1300	DFS Generalforsamling (In Danish)			
1300-1400	Lunch & Goodbyes			