

Danish Quantum Community

When: [October 7-8, 2020](#)

Where: [Online Conference on Zoom](#)

Dear Danish Quantum Community,

As previously announced, the 2nd Danish Quantum Community conference will be a virtual event, and it is our great pleasure to share with you the programme and invite you all to participate. We hope that the event will continue in the spirit of the physical conference in Aarhus in January, and that it will contribute to make the community even more vibrant and connected, driving Danish quantum research forward.

In order to get the broadest possible spectrum of participants for the event, with representation of Danish quantum research stakeholders from across all sectors, please feel free to share the invitation and programme with your colleagues and collaborators.

Kind regards,

Nikolaj, Peter, and Ulrich

Programme

Wednesday – October 7, 2020

Join Day 1 of the conference here: <https://dtudk.zoom.us/j/6656408294>

13:00 – 13:10	Welcome Community news <ul style="list-style-type: none">• <i>Expanding the Danish Quantum Community</i>, Peter Viereck (NBI)
13:10 – 14:40	SESSION 1 <i>Chair: Nikolaj Thomas Zinner / Klaus Mølmer (AU)</i> 13:10 – 13:20 <i>'Collective dynamics of Rydberg superatoms'</i> , Sebastian Hofferberth (SDU/Bonn) 13:20 – 14:00 <i>'Quantum plasmonics in atomically thin materials'</i> , Joel Cox (SDU) 14:00 – 14:40 <i>'Superconducting quantum computing: State-of-the-art and where do we go from here?'</i> , Morten Kjærgaard (MIT/NBI)
14:40 – 15:00	COFFEE BREAK
15:00 – 16:45	SESSION 2 – “Metrology for Quantum Devices and Communications” <i>Chair: David Balslev-Harder</i> 15:00 – 15:15 <i>Introduction</i> , David Balslev-Harder (DFM) 15:15 – 15:45 <i>'Deterministic single-photon source – A key quantum enabler'</i> , Niels Hersoug (CEO, Sparrow Quantum) 15:45 – 16:15 <i>'Metrology for development of topological quantum computers'</i> , Morten Hannibal Madsen (Site Manager, Microsoft Quantum Materials Lab) 16:15 – 16:45 <i>'Metrology for Quantum Technology'</i> , Mikael Lassen (DFM)
16:45 – 17:00	Closing remarks

Thursday – October 8, 2020

Join Day 2 of the conference here: <https://dtudk.zoom.us/j/6656408294>

13:00 – 13:30	Welcome Community news <ul style="list-style-type: none">• <i>QuIC – European Quantum Industry Consortium, Ulrich Hoff (DTU)</i>• <i>Focus Group on Quantum Technologies under Danish Standards, Ulrich Hoff (DTU)</i>• <i>Quantum Mobilization, KPMG Denmark</i>
13:30 – 14:30	SESSION 3 – “Quantum Simulations” <i>Chair: Gopal Karemore (Principal Data Scientist, Novo Nordisk)</i> 13:30 – 14:00 <i>‘Quantum for Life’, Prof. Matthias Christandl (KU)</i> 14:00 – 14:30 <i>‘Introduction to NNF center Solid-Q: Solid state quantum simulators for biochemistry’, Prof. Peter Lodahl (KU)</i>
14:30 – 14:50	COFFEE BREAK
14:50 – 16:10	SESSION 4 – “International Industry Contributions” <i>Chair: Ulrich Hoff (DTU)</i> 14:50 – 15:30 <i>‘IQM – building useful quantum computers’, Mikko Möttönen (Chief Scientist, IQM, Finland)</i> 15:30 – 16:10 <i>‘NISQ Era Photonic Quantum Computers’, Rafal Janik (Head of Product, Xanadu, Canada)</i>
16:10 – 16:50	SESSION 5 – “Keynote” <i>‘Quantum simulation in the NISQ era’, Prof. Seth Lloyd (MIT)</i>
16:50 – 17:00	Closing remarks