

Highlights for 2021

The year 2021 was a fruitful year with a large international attention to the quantum science and our center. In terms of attention, one of the absolute highlights of 2021 was the visit of the U.S. Secretary of State Antony Blinken to our center on May 17th. The Secretary of State was very engaged during the visit and curious to understand the research done at QDev. He was in particular interested in learning about the center's close research collaboration with American universities and research institutions.



Fig. 1: Prof. Charlie Marcus is explaining to the U.S Secretary of State Antony Blinken how the research is conducted at QDev

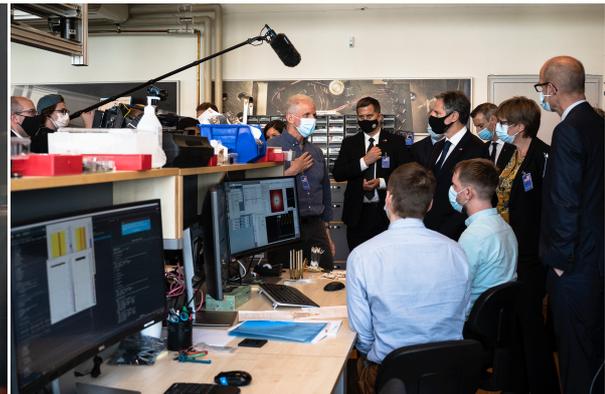


Fig. 2: Prof. Charlie Marcus is explaining to the U.S Secretary of State Antony Blinken the close collaboration QDev has with American universities

Other highlights of the year include papers in high-profile journals, including Nature Reviews Materials, Nature Reviews Physics, Nature Communications, Nature Nanotechnology, Physical Review Letters and PRX Quantum. Work in QDev was also recognized through our junior faculty members. Assist. Prof. Anasua Chatterjee and Assist. Prof. Morten Kjærgaard were both listed on Berlingske Talent 100 in Denmark. In addition, Morten Kjærgaard was elected member of the *Young Academy of the Royal Danish Academy of Sciences and Letters*.

The researchers at QDev have had yet a successful year when it comes to attaching external funding: Jesper Nygaard and Ferdinand Kuemmeth started the project *SolidQ* funded by Novo Nordisk Fondet; Morten Kjærgaard the Villum project *Physics of Quantum Information Applications*; Ferdinand Kuemmeth the Carlsberg funded project *Tools for High-Throughput Screening*; Morten Holm Christensen the project *Topology in the Corr. Fe-Based Superconductors* funded by Carlsberg and lastly Jesper Nygaard also with a Carlsberg funded project *Electron Microscopy for Quantum Materials and Nano*. In addition, we have also been successful with securing funding for upcoming projects in 2022. Among these are grants from the U.S Army Research Office (ARO), Inge Lehmann Fonden, and the Villum Foundation.

During 2021, outreach activities include two podcasts about quantum computing relevant for the general public and the co-hosting of Girls in Science Day.