



International conference on Defects in Solids for Quantum Technologies

Stockholm, Sweden, June 13-17, 2022

Abstract submission at <https://www.cecam.org/workshop-details/1125>

Deadline April 4, 2022 (23:59 CET)

The main objective of DSQT2022 is to bring together theoreticians, computational scientists, experimentalists, and material growers working on different wide-band-gap semiconducting systems to advance the field of point defect based solid state quantum technologies. The scientific program of the conference includes **38 invited talks, over 10 oral sessions, a round table discussion, as well as two poster and exhibition sessions**. The conference will cover a broad range of experimental and theoretical aspects of point defect physics and related quantum technology applications, including but not limited to

- *experimental and theoretical characterization of point defect single photon emitters and qubits in wide band gap semiconductors,*
- *ab initio theory of single photon emitters and qubits, and theory of related applications,*
- *quantum sensing and quantum information processing applications in bulk and nano-scale systems,*
- *material growth for quantum technology.*

List of invited speakers:

Australia

Igor Aharonovich (*University of Technology Sydney*)
Marcus W. Doherty (*Australian National University*)

Stefania Castelletto (*RMIT University*)
Mike Ford (*University of Technology Sydney*)

Austria

Michael Trupke (*University of Vienna*)

Belgium

Milos Nesladek (*Hasselt University*)

Germany

Jörg Wrachtrup (*University of Stuttgart*)

Fedor Jelezko (*University of Ulm*)

Christoph Becher (*Universität des Saarlandes*)

Vladimir Dyakonov (*University of Würzburg*)

Jan Meijer (*Universität Leipzig*)

Georgiy Astakhov (*Helmholtz-Zentrum Dresden-Rossendorf*)

Uwe Gerstmann (*University of Paderborn*)

Christoph Freysoldt (*Max-Planck-Institut für Eisenforschung*)

Hungary

Gergő Thiering (*Wigner Research Centre for Physics*)

Israel

Alex Retzker (*Hebrew University of Jerusalem*)

Lithuania

Audrius Alkauskas (*Center for Physical Sciences and Technology Lithuania*)

Netherlands

Romana Schirhagl (*Groeningen University*)

South Korea

Hosung Seo (*Ajou University*)

Sweden

Rickard Armiento (*Linköping University*)

Vanya Darakchieva (*Linköping University*)

Jawad Ul-Hassan (*Linköping University*)

United Kingdom

Helena S. Knowles (*Cambridge University*)

John Morton (*University College London*)

USA

David Awschalom (*University of Chicago*)

Chris Van de Walle (*University of California*)

Giulia Galli (*University of Chicago*)

Lee Bassett (*University of Pennsylvania*)

Nathalie P. de Leon (*Princeton University*)

Paola Cappellaro (*Massachusetts Institute of Technology*)

Sophia Economou (*Virginia Polytechnic Institute*)

Carlos A. Meriles (*CUNY-City College of New York*)

Rachael L. Myers-Ward (*Naval Research Laboratory*)

Prineha Narang (*Harvard University*)

Yuan Ping (*University of California*)

Öney O. Soykal (*US Naval Research Laboratory*)

Brenda L. VanMil (*Army Research Laboratory*)

Jelena Vuckovic (*Stanford University*) Kai-Mei Fu
(*University of Washington*)

Marina Radulaski (*University of California*)