Tuesday, June 11

16:40-18:40

1	Andrew	Kanagin	Spins in cryogenic solids
2	Damiano	Giubertoni	Fabrication of GeV color centers in diamond by Focused Ion Beam
3	Danial	Shafizade	Room temperature study of divacancy in 4H-SiC
4	Daniel	Wirtitsch	Exploiting ionization dynamics in the nitrogen vacancy center for rapid, high-contrast spin and charge state initialization
5	Darya	Meniailava	Charge carrier-controlled single NV center charge state switching
6	Di	Liu	Symmetry-breaking enhanced piezoelectric tuning of spin defects in silicon carbide
7	Erlend	Ousdal	Tuning and control of quantum emitters in 4H-SiC by applied electric field
8	Florian	Ferlemann	Identifying error sources of dipole-dipole coupling mediated two- qubit gates between NV-centers in diamondIII
9	Gerben	Timmer	Simulation and experimental characterization of alligator cavities in 4H-SiC for future quantum networks
10	Hendrik Benjamin	Van Ommen	Optical and Spin Coherence of Single NV centres in Isotopically Engineered Diamond for Quantum Networks
11	Koichi	Murata	Vanadium-related luminescence of 4H-SiC at elevated temperature
12	Leonard	Zimmermann	Towards a versatile Silicon-Carbide-on-Insulator Platform for Quantum Nanophotonics with Optically Active Spins
13	Linjie	Ma	Localized Thermal Conductivity measurements in Hydrogels with Diamond- based Microsensors
14	Lorenzo	De Santis	Heralded initialization of the optical transition frequency of diamond tin-vacancy centers
15	Luigi	Giacomazzi	Identification of paramagnetic centers in irradiated Sn-doped SiO2 glass by first principle calculations
16	Martino	Silvetti	Ab initio approach to point defect in wurtzite boron nitride
17	Maxwell	Parsons	A Quantum Control Testbed Based on Single Nitrogen Vacancy Centers in Diamond
18	Misagh	Ghezellou	Thin SiC Membranes for Quantum Technologies: Exploring Feasibility of Remote Epitaxial Growth
19	Nima	Ghafari Cherati	Investigation of sulfur doping in diamond by means of ab initio calculations
20	Olga	Rubinas	Optically detected magnetic resonance of NV centres in diamond with a high carbon-13 concentration
21	Philipp	Vetter	Discrete time-crystalline order in a deterministically grown, sub-1 nm nuclear spin layer in diamond
22	Pierre	Kuna	High fidelity optical readout of a nuclear spin qubit in Silicon Carbide
23	Roberto	Sailer	Future use of two-qubit gates on dipolar coupled NV centers
24	Rokas	Silkinis	Theoretical modeling of vibrationally resolved optical lineshapes of a carbon- oxygen pair defect in silicon
25	Roland	Weiszmüller	Numerical investigation and optimization of the PulsePol polarisation protocol for realistic nuclei spins models in diamond
26	San Lam	Ng	Electrical Tuning of Hybrid Silicon Carbide-Lithium Niobate Cavity
27	Shibu	Meher	Investigation of Group IV-related Quantum Defects in 4H-SiC
28	Shivani	Bisht	Silicon Vacancy in Silicon Carbide: A Promising Candidate for Quantum Sensing with 2D Materials
29	Timo	Joas	High Fidelity Electronic Spin Register: Towards a diamond quantum computer?
30	Vanna	Pugliese	Activation of SnV and MgV color centers in diamond via CW laser irradiation
31	Victor	Tyne	Device-improved readout from color centers in thin-film diamond
32	Vladislav	Bushmakin	Engineering of tin vacancies in diamond by lattice charging
33	Vytautas	Žalandauskas	Impact of the Jahn-Teller effect on optical properties of divacancies in 4H-SiC
34	Xiaoyi	Lai	Single-Shot Readout of a Nuclear Spin in Silicon Carbide
35	Xueling	Lei	MgS is evaluated to be a suitable qubit host material due to its wide bandgap, being nuclear spin free, and its weak spin-orbit coupling.
36	Yuichi	Yamazaki	Charge state stability of silicon vacancy in silicon carbide
37	Thomas	Astner	Unlocking the Potential of Vanadium in Silicon Carbide for Quantum Communication Networks

Thursday, June 13

16:40-18:40

1	Adalbert	Tibiássy	The role of nuclear spins in strongly driven point defect qubits in hexagonal boron nitride and silicon carbide
2	Afonso	Lamelas	Electric field coupling of Group-IV defects
3	Ainitze	Biteri Uribarren	Amplified nanoscale detection of labeled molecules via surface electrons on diamond
4	Alevtina	Shmakova	Nanoscale temperature sensor for biological applications based on NV centres in nanodiamonds
5	Alex	Newman	Tensor gradiometry with a diamond magnetometer
6	András	Tárkányi	Decoherence of the VB− center in hexagonal boron nitride
7	Andras	Palyi	Simphony: a python package to simulate point defect dynamics
8	Arushi	Singh	Defect-driven tunable electronic and optical properties of two-dimensional silicon carbide
9	Chanaprom	Cholsuk	Identifying electronic transitions of color centers in hexagonal boron nitride for Raman-based quantum memories
10	Christopher	Linderälv	Optical lineshapes of color centers in solids from classical autocorrelation functions
11	Dániel Tibor	Pozsár	Numerical study of graphene triangulenes embedded in hexagonal boron nitride
12	Gabriele	Zanelli	Magnetic Noise independent Thermometry exploiting Nitrogen-Vacancy spin ensembles
13	Gellért	Dolecsek	Native defects and impurities in talcum quasi-2D layers
14	Gergely	Barcza	Symmetric carbon tetramers hosting spin qubits in hexagonal boron nitride
15	Ghulam Abbas	Gilani	Screening of an NV-like defect in 4H-SiC using ADAQ with the SCAN meta- GGA functional
16	Guodong	Bian	Ab initio study of 4H-SiC divacancies and nitrogen-vacancy centers highlighting the potential in quantum information science
17	Isabell	Jauch	Tailoring of measurement protocols for biomagnetic signals using optimal control on NV centers in diamond
18	István	Takács	Accurate hyperfine tensors for solid state quantum applications: case of the NV center in diamond
19	Joshua	Claes	The decoupled DFT-12 method for defect excitation energies
20	Lin	Jin	Deterministic Generation of SiVs in Diamond Cavities and Towards the Controllable Resonance Tuning
21	Louis	Alaerts	Here, I will present the results of our density functional theory (DFT) calculations of the Stark shift on the negatively charged nitrogen-vacancy (NV) center in diamond
22	Meysam	Mohseni	Investigation of hydrostatic pressure effect on the negatively charged group-IV–vacancy defects in diamond
23	Nick	Grimm	Nuclear Spin Control with GeV in Diamond at mK Temperatures
24	Nicolas	Staudenmaier	Nuclear magnetic resonance with NV centers in nanoscale confined volumes
25	Nilesh	Dalla	Open tuneable microcavity with high-finesse and low-mode volume for novel emitters in visible spectral range
26	Pim	Vree	Magnetic imaging of spin waves interacting with superconductors
27	Pol	Alsina	J-coupling NMR Spectroscopy with Nitrogen Vacancy Centers at High Fields [1]
28	Rajan	Paul	Vector Magnetometry using Ensembles of NV Centers in Bulk Diamond
29	Saravanan	Sengottuvel	Imaging Superconducting Vortices with Nanodiamonds
30	Simone	Fioccola	Ab-initio computation of EPR g tensor for point defects in solid state: results from the modern theory of orbital magnetization
31	Stuart	Graham	Fibre-Coupled Diamond Magnetometry
32	Timur	Biktagirov	Understanding Electric Sensitivity of High-Spin Defects in 3D and 2D Materials
33	Tobias	Spohn	Enhancing Nanoscale NMR Sensitivity and Resolution Through Hyperpolarization and Nuclear Spin Refocusing
34	Vikram	Mahamiya	Influence of Substrate and Vacancy Defects on the Valley Polarization Properties of MoS2 Monolayer
35	Vsevolod	Ivanov	Understanding control and modulation of color center defects
36	William	Stenlund	How To Automatically Find The Symmetry Of Defect Orbitals
37	Anett	Simon-Zsók	Feasibility of quantum reservoir computing on a natural atom quantum computer