

WEDNESDAY 22ND

10:30 – 11:00	Welcome coffee: salle de convivialité
11:00 – 12:00	Optional lab tour: Institut Néel
12:00 – 13:30	Lunch: salle de convivialité
13:30 – 13:40	Welcome: salle des séminaires, Bldg A

– Wednesday 22nd –

Session 1: TEM-CL and EBIC

Chair: Sophie Meuret	13:45 - 14:00 Malo Bézard Spectrally-Resolved Polarized Cathodoluminescence in STEM
	14:00 - 14:15 Yves Auad Cathodoluminescence excitation spectroscopy: revealing the excitation pathways in the nanometer scale
	14:15 - 14:30 Gordon Schmidt Cathodoluminescence Nano-Characterization of the Narrow pn-Regions of a Lateral GaN Superjunction
	14:30 - 14h45 David Cooper Electron beam induced current mapping in a transmission electron microscope
	14:45 - 15:00 Holger Eisele Nano-characterization of GaN pn-junction and pin-drift diode space-charge regions: a detailed EBIC analysis
	15:00 - 15:15 Bruno Da Silva Mapping internal fields in semiconducting nanowire based devices
15:15 - 16:00 Coffee break	

Session 2: Solar Cells

Chair: Albert Polman	16:00 - 16:30 Daniel Abou-Ras Correlative electron microscopy applied to various materials and devices for solar-energy conversion
	16:30 - 16:45 Armin Barthel Radiation effects in ultra-thin GaAs solar cells
	16:45 - 17:00 Stefano Pirotta Probing the properties of semiconductors for photovoltaics by cathodoluminescence: GaAs nanowires and CdSeTe thin films
	17:00 - 17:15 Maria Tchernycheva Electron beam induced current microscopy analyses of axial junction GaAsP nanowires for solar applications
	17:15 - 17:30 Jordi Ferrer Orri Cathodoluminescence on Beam-Sensitive Hybrid Halide Perovskites: Is It Possible?
17:30 - 17:45 Hyperspy intro	

– Thursday 23rd –

Session 3: Diamond

Chair: Vincent Consonni	09:00 - 09:15 Hoda Shirzad Toward an SEM-based single spin qubit coherent control
	09:15 - 09:30 Alexandre Portier Carrier mobility up to 10^6 cm ² /(V.s) measured in a single-crystal diamond by time of flight electron-beam induced current technique
	09:30 - 09:45 David Eon In-depth analysis of diamond Schottky diode by EBIC
	09:45 - 10:00 Hitoshi Umezawa Recombination centres of growth defects in diamond pn diode
10:00 - 10:45 Coffee break	

Session 4: Nano-optics

Chair: Mathieu Kociak	10:45 - 11:00 Jürgen Jungclaus Synthesis and cathodoluminescence investigations of water-based lanthanide-doped nanoparticles
	11:00 - 11:15 Claire Blaga Cathodoluminescence mapping of 2D materials: challenges and outlook
	11:15 - 11:45 Albert Polman Cathodoluminescence Spectroscopy of Plasmonic and Dielectric Particles
	11:45 - 12:15 Stephan Reitzenstein High-performance deterministic in situ electron-beam lithography enabled by cathodoluminescence spectroscopy
12:15 - 13:45 Lunch	

Session 5: Time-resolved experiments

Chair: Jürgen Christen	13:45 - 14:00 Christophe Arnold Time-resolved cathodoluminescence: development and application to boron-doped diamond
	14:00 - 14:15 Kagiso Loeto Investigating the Carrier Dynamics in InGaN/GaN Core-Shell Nanorods
	14:15 - 14:30 Yehonadav Bekenstein On the nature of collective excitations in mesoscale perovskite quantum dot superlattices
	14:30 - 14:45 Barbara Szafranski Time-resolved cathodoluminescence spectroscopy of oxygen related defects in AlN layers
	14:45 - 15:15 Sophie Meuret On the nature of collective excitations in mesoscale perovskite quantum dot superlattices
15:15 - 16:00 Coffee break	

Session 6: Nitride semiconductors

Chair: Jonas Lähnemann	16:00 - 17:00 Pierre Lottigier Using cathodoluminescence for nonradiative recombination path analysis in InGaN/GaN QWs on Si(111) substrate Danxuan Chen Cathodoluminescence study of near-surface GaN quantum wells Yao Chen Probing the magnesium concentration in GaN:Mg on selective-area-grown GaN pyramids by cathodoluminescence
	17:00 - 17:15 Julien Bosch Optically active InGaN/GaN tetrahedral structures grown on graphene/SiC
	17:15 - 17:30 Anders Gustafsson Nano-LEDs Based on Micron-Sized III-Nitride Platelets
	17:30 - 17:45 Jochen Bruckbauer Advanced Electron Diffraction and CL Imaging of Nitride Thin Films and Nanostructures in the SEM
	17:45 - 18:00 Anastasiia Lysak Wide-band-gap semiconductor nanostructures for UV-optoelectronics studied by CL and EBIC

– Friday 24th –

Session 7: Nanowires

Chair: Robert Martin	09:00 - 09:45 Hyperspy tutorial
	09:45 - 10:00 Mikel Gómez Cathodoluminescence study of carrier generation and diffusion in Ga(As,Sb) nanowires
	10:00 - 10:15 Vincent Consonni Cathodoluminescence Spectroscopy as a Powerful Tool to Probe Hydrogen-Related Defects in ZnO Nanowires and to Assess their Surface Quality
	10:15 - 10:30 Jonas Lähnemann Acoustoelectric transport in a single (In,Ga)As nanowire imaged by hyperspectral cathodoluminescence mapping
10:30 - 11:15 Coffee break	

Session 8: Micro - LEDs

Chair: Maria Tchernycheva	11:15 - 11:30 Marc Portail From blue to yellow emission of InGaN QWs grown on pixelated silicon
	11:30 - 11:45 Timothée Lassièz Characterization of InGaN/GaN core-shell wires by Cathodoluminescence and Electron Beam Induced Current
	11:45 - 12:00 Douglas Cameron Nanocharacterisation of Advanced UV LED Structures
	12:00 - 12:15 Paul Edwards Simultaneous Mapping of Cathodoluminescence and Electron Backscatter Diffraction Patterns to Probe Strain in Deep UV-C Micro-LEDs
	12:15 - 12:30 Closing remarks