

PROGRAM

– Monday 16th –

Session 1: CL on nitrides

13h40 - 14h00 | Amaury Mavel

CL characterisation of nitrides for solid-state lighting

14h00 - 14h20 | Nabih Ben Sedrine

Probing the optically active Eu ions in AlxGa1-xN nanowires for red nano-emitters

14h20 - 15:00 | Marc Portail

Epitaxial growth of III-nitrides: from bulk to nanostructures, the CL point of view

15h00 - 15h20 | Anna Reszka

Investigation of growth polarity switching in (Al,Ga)N/GaN nanowire LEDs by means of various microscopy related techniques

15h20 - 16h00 | Coffee

Session 2: Time resolved CL

15h50 - 16h10 | Sylvain Finot

Influence of InGaN underlayer on the efficiency of core-shell InGaN/GaN nanowires probed by time-resolved cathodoluminescence

16h10 - 16h30 | Timothée Lassiak

Characterization of InGaN/GaN core-shell wires by Cathodoluminescence and Electron Beam Induced Current

16h30 - 16h50 | Joergen Jungclauss

Time-resolved cathodoluminescence investigations of AlN/GaN nanowire structures

16h50 - 17h10 | Hendrik Spende

TRCL Investigations of Non-Polar AlGaIn Planes on Microfin Structures

17h10 - 17h50 | Magda Solá-García

Pump-probe cathodoluminescence spectroscopy

– Tuesday 17th –

Session 3: Complementary tools and Hyperspy

08h30 - 09h30 | Francisco de la Pena

Can HyperSpy be useful for the analysis of cathodoluminescence datasets?

09h30 - 09h50 | Paul Edwards

CL and WDX in the electron microprobe

09h50 - 10h10 | Aidan Rooney

EBIC in the TEM

10h10 - 10h40 | Coffee

Session 4: Correlative EBIC / CL

10h40 - 11h20 | Daniel Abou-Ras

Correlative CL and EBIC measurements on thin-film solar cells

11h20 - 12h00 | Stéphane Collin

CL, TRCL and EBIC applied to nanowires and polycrystalline semiconductors

12h00 - 12h20 | Nuño Amador-Mendez

GaN p-n and n-p junction nanowires analysed by photoluminescence, cathodoluminescence and electron beam induced current microscopy

12h20 - 13h40 | Lunch

Session 5: Wide bandgap materials

13h40 - 14h00 | David Eon

EBIC on diamond Schottky diode

14h00 - 14h20 | Hitoshi Umezawa

EBIC for UWBG device and material characterization

14h20 - 14h40 | Christophe Arnold

Time-resolved cathodoluminescence: development and application to boron-doped diamond

14h40 - 15h00 | Bogdan Kowalski

ZnO Nanorods with Heterostructures Grown by a Two-stage Technique

15h00 - 15h20 | Anjali Harikumar

Detailed CL Analysis of 2D and 1D AlxGa1-xN/AlN ($0 \leq x \leq 0.1$) Quantum Dot Superlattices for Application in Electron-Pumped UV Lamps

15h20 - 15h50 | Coffee

Session 6: TEM CL

15h50 - 16h30 | Gordon Schmidt

Advanced Nanoscale Characterization of Nitrides using Helium Temperature Scanning Transmission Electron Microscopy Cathodoluminescence

16h30 - 16h50 | Luiz Tizei

Cathodoluminescence of low dimensional materials

16h50 - 17h10 | Noémie Bonnet

Combining in situ micro-photoluminescence and cathodoluminescence for defects photophysics in nanodiamonds

17h10 - 17h50 | Sophie Meuret

Time Resolved Cathodoluminescence in a transmission electron microscope

– Wednesday 18th –

Session 7: Defect characterization

08h30 - 09h10 | Jonas Lähnemann

Fallacies and opportunities in using cathodoluminescence maps around threading dislocations to determine the carrier diffusion length in GaN

09h10 - 09h30 | Thomas Weatherley

Detection of point defects in InGaN/GaN quantum wells using cathodoluminescence

09h30 - 09h50 | Jochen Bruckbauer

Defect characterisation combining cathodoluminescence and diffraction techniques in the SEM

09h50 - 10h10 | Kagiso Loeto

Carrier dynamics in and around trench defects in InGaN QWs probed by time resolved cathodoluminescence

10h10 - 10h40 | Coffee

Session 8: Visible spectrum

10h40 - 11h00 | Jordi Ferrer Orri

Cathodoluminescence on hybrid perovskite materials using both continuous and pulse mode SEM

11h00 - 11h20 | Akshay Balgarkashi

Facet-driven formation of In(Ga)As clusters in GaAs nanowires studied by cathodoluminescence

11h20 - 11h40 | Elias Stutz

Cathodoluminescence of Earth-Abundant Semiconductor Zinc Phosphide Thin Films and Nanostructures for Photovoltaics

11h40 - 12h00 | Younes Boussadi

Temperature dependent characterization of micro-pixelated InGaP/AlGaInP MQW structures

12h00 - 12h20 | Matthias Liebraun

Imaging nano-scale optical near-fields with electrons

12h20 - 12h30 | Closing remarks