

Program (CEST)

Thursday, 27 May 2021

9:00 – 9:15 COFFEE gathering

9:15 – 9:30 Klaus Jöns **Introduction and organization**
Andreas W. Schell
Vincenzo D'Ambrosio

Session 1 - Chair: Andreas W. Schell

09:30 – 10:00 Rudolf Bratschitsch **Single-Photon Emitters in 2D
Materials**

10:00 – 10:30 Alexander **Tunable van der Waals Nano-
Photonics**
Tartakovskii

10:30 – 11:00 *COFFEE break & networking opportunity*

Session 2 - Chair: Rudolf Bratschitsch

11:00 – 11:30 Paulina Plochocka **Energy and Charge Transfer in Hybrid
Transition Metal Dichalcogenide/2D
Perovskite Heterostructures
(MX₂/(PEA)₂PbI₄)**

11:30 – 12:00 Ursula Wurstbauer **Degenerate Many-Body States and
Multi-Valley Physics of Excitons in
vdW Hetero-Bilayers**

12:00 – 12:30 Alexander Högele **Excitons in van der Waals
Heterostructures**

12:30 – 14:00 *LUNCH break*

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Session 3 - Chair: Paulina Plochocka

14:00 – 14:30	Araceli Venegas-Gomez	Why are We Still Talking about Diversity in STEM?
14:30 – 15:00	Ilja Gerhardt	Understanding the Coherence of Single Emitters by Ramsey Spectroscopy
15:00 – 15:30	Brian Gerardot	Quantum Light and Strongly Correlated Electronic States in a Moiré Heterostructure
15:30 – 16:00	<i>COFFEE break & networking opportunity</i>	

Session 4 - Chair: Brian Gerardot

16:00 – 16:30	Bernhard Urbaszek	Engineering Optical Transitions in 2D Nanostructures
16:30 – 17:00	Christian Schneider	Strain Engineered Single Photon Sources with Atomically Thin Crystals
17:00 – 17:30	Kai Müller	Quantum Emitters in 2D Materials
17:30 – 19:00	Poster Session	

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Session 5 - Chair: Klaus Jöns

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| 9:00 – 9:30 | Prineha Narang | Predicting Interactions in Correlated Low Dimensional Quantum Systems |
| 9:30 – 10:00 | Igor Aharonovich | So What Do We Really Know about Quantum Emitters in hBN? |
| 10:00 – 10:30 | Niko Nikolay | Revealing the Electronic Structure of Color Defects in Hexagonal Boron Nitride by Correlation Measurements and Spectroscopy |
| 10:30 – 11:00 | <i>COFFEE break & networking opportunity</i> | |

Upgraded talks - Chair: Igor Aharonovich

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| 11:00 – 11:15 | Aidan Campbell | Strongly Correlated Electronic States in a MoSe₂/WSe₂ Moiré Superlattice |
| 11:15 – 11:30 | Nadine Leisgang | Giant Stark Splitting of an Exciton in Bilayer MoS₂ |
| 11:30 – 11:45 | Kai-Qiang Lin | Excitonic Quantum Interference in 2D Semiconductor |
| 11:45 – 12:00 | Katja Barthelmi | Precisely Positioned Single Photon Emitters in Monolayer MoS₂ |
| 12:00 – 12:15 | Julien Renard | Investigation of Polariton-Polariton Interactions in Monolayer MoSe₂ |
| 12:15 – 12:30 | Discussion | |
| 12:30 – 14:00 | <i>LUNCH break</i> | |

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Session 6 - Chair: Vincenzo D'Ambrosio

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| 14:00 – 14:30 | Dirk Englund | 2D Quantum Materials for Quantum Information Processing and Sensing |
| 14:30 – 15:00 | Alexandra Carvalho | Graphene Oxide: Adding Function to Graphene |
| 15:00 – 15:30 | Miriam Serena Vitiello | Quantum Devices at THz Frequencies Exploiting 2D Materials |
| 15:30 – 16:00 | <i>COFFEE break & networking opportunity</i> | |

Session 7 - Chair: Miriam Serena Vitiello

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| 16:00 – 16:30 | Alexander Kubanek | Mechanically Isolated Quantum Emitter in Hexagonal Boron Nitride |
| 16:30 – 17:00 | Agnieszka Kuc | Interlayer Exciton Diffusion in Twist-Angle-Dependent Moiré Potentials of WS₂-WSe₂ Heterobilayers |
| 17:00 – 17:15 | Klaus Jöns
Andreas W. Schell
Vincenzo D'Ambrosio | Closing remarks |

End of the seminar