

CINSaT SPRING COLLOQUIUM 2021

DAY 1: THURSDAY, MARCH 4TH, 2021

Opening of the Event

09:00 **J. P. Reithmaier (Head of CINSaT, Technological Physics)**
Opening speech.

Session I (09:10 – 09:40)

Chiral Systems

Chair: P. Demekhin

09:10 **P. Demekhin (Theoretical Atomic and Molecular Physics)**
Current status of CINSaT focal point "Chiral Systems"

Session II (09:40 – 10:20)

Nanostructures in Natural Sciences, Engineering Sciences, and the Arts Chair: B. Middendorf

09:40 **B. Middendorf (Structural Materials and Construction Chemistry)**
Activities in the field of material sciences.

10:00 **S. Uddin (Structural Materials and Construction Chemistry)**
Atomistic modelling in construction chemistry with the aim to reduce environmental impact.

Session III (10:20 – 10:40) Poster Flash Presentations I: Posters 1 - 19

10:40 **Break (30 minutes)**

Session IV (11:10 – 12:05)

Photonics

Chair: P. Lehmann

11:10 **P. Lehmann (Measurement Technology)**
Current status of CINSaT focal point "Photonics"

11:25 **T. Pahl (Measurement Technology)**
Rigorous simulation of elastic light scattering at micro- and nanostructured surfaces and their microscopic imaging.

11:45 **J. Heupel (Technological Physics)**
Fabrication of single crystalline diamond membranes for photonic structures

Session V (12:05 – 12:25) Poster Flash Presentations II: Posters 20 - 38

12:25 **Lunch (1h)**

Poster Session (13:25 – ca. 15:25)

13:25 **All Contributors via Gather Town**
Presentation of Poster Contributions and Discussions

DAY 2: FRIDAY, MARCH 5TH, 2021

Session VI (09:00 –10:00)

Quantum Technology

Chair: K. Singer

09:00 **K. Singer (Light-Matter-Interaction)**
Current status and overview of CINSaT focal point “Quantum Technology”

09:10 **M. Gheibi and J. Ghosh (Femtosecond spectroscopy and Ultrafast Lasercontrol)**
Observation of long-lived electronic coherence in lanthanide complexes at room temperature

09:40 **M. Kempkes (Theory of Ultrafast Phenomena in Solids and Nanostructures)**
Ultrafast nonthermal NV center formation in diamond

Session VII (10:00 – 10:40)

3-dimensional Nanostructures

Chair: H. Hillmer

10:00 **H. Hillmer (Technological Electronics)**
Current status and overview of CINSaT focal point “3-dimensional Nanostructures”

10:20 **L. Wetterau (Computational Electronics and Photonics)**
Micromagnetic modeling of a low-noise GMR sensor

10:40 Break (30 minutes)

Session VIII (11:10 –12:00)

Multiscale Bioimaging

Chair: A. Müller

11:10 **A. Müller (Developmental Genetics)**
Current status and overview of CINSaT focal point “Multiscale Bioimaging”

11:20 **M. Aakthe (Developmental Genetics)**
Quantitative high resolution 3D imaging with multi view tiling light sheet microscopy (MT-LSM)

11:40 **J. Plath (Animal Physiology)**

*Multiscale electrophysiological analysis of the circadian clock, sensory input and locomotor output in the Madeira cockroach *Rhyarobia maderae**

12:00 General Discussion

12:15 Lunch (1h)

Session IX (13:15 –15:00)

Individual Focal Point Sessions (zoom)

Chairs: Focal Point Speakers

End of the Event

15:00 **J. P. Reithmaier (Head of CINSaT, Technological Physics)**

End speech, Poster Awards

Notes
