

BTU Cottbus - Senftenberg • Postfach 10 13 44 • 03013 Cottbus

Seminar Experimental Physics

Fachgebiet Experimentalphysik und
Funktionale Materialien (EFM)

**Fakultät 1 - MINT - Mathematik, Informatik,
Physik, Elektro- und Informationstechnik**

Fachgebiet Experimentalphysik und
Funktionale Materialien (EFM)

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Semiconductor Nanophotonics

1. Nanostructures for the emission of non-classical light

Single photon emission, sources for entangled photons

2. Semiconductor lasers

Quantum dot lasers

3. Semiconductor photodetectors

Single photon detectors, nanoscale photodetectors, plasmon-enhanced photodetectors, hot electron photodetection with plasmonic enhancement

4. Nanophotonics for quantum information technologies

Quantum cryptography, quantum gates

5. Optical metasurfaces

Polarization-selective absorption, perfect absorbers

6. Topological nanophotonics

Edge states in photonic topological insulators, SSH (Su, Schrieffer and Heeger) model

Cottbus, den 29.06.2021

If you are interested in participating please send an E-Mail to
inga.fischer@b-tu.de until 30.10.2021.