

Physical Colloquium

„Nano-Photonics with atomically thin semiconductors“



Prof. Dr. Bernhard Urbaszek

Professor for Hybrid Quantum Systems

Institute for Condensed Matter Physics, TU Darmstadt

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Room No. W02 1-148

The interaction of light with electronic excitations in solids is explored in everyday applications such as white LEDs and telecommunication lasers. Today's research goes towards understanding how the controlled arrangement of atoms in a solid can lead to newly accessible quantum states for fundamental science and applications.

In this seminar we explore new directions such as the transport of excitons in lateral heterostructures that form “exciton diodes”, we show first results on Janus monolayers, where excitons have in principle an in-built static electric dipole and we study coupling between silicon Mie resonators and atomically thin semiconductors.

Host: Prof. Dr. Christian Schneider

