Announcement & Invitation
Lecture on
The Physics of 2D Quantum Materials

Winter semester 2026/2027

U. Vool, J. Dufouleur, A. Koitzsch, A. Thomas, A. Lubk

WHERE?	**IFW/D2E.27**
WHEN?	**Monday, 6. DS (16:40 – 18:10)**
First lecture:	**19th October 2026**

OPAL:
https://bildungsportal.sachsen.de/opal/auth/RepositoryEntry/32448610304

For whom?	**Master and PhD Students in Physics**

*The lecture will be given **in English**.*

When the available dimensionality of a system is reduced, its internal structure and physical response can change drastically giving rise to a new class of semiconductors, insulators, metals, magnets and superconductors. These materials can be tuned in situ by electrical gating, and new materials can be created “by design” by stacking different material layers, sparking significant interest in fundamental study of condensed-matter physics and technological applications. This class will introduce this novel field of study, focusing on several central subclasses of 2D quantum materials.