

**SONDERKOLLOQUIUM**  
zur Ausschreibung – W2-Professur für theoretische Quanten-  
Vielteilchenphysik  
2. Mai 2025 um 9:00 Uhr  
BCTP, Wegelerstraße 10, Seminarraum I (2.019)

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**Dr. Tobias Meng**  
Institut für Theoretische Physik, Technische Universität Dresden

**Harnessing the quantum frontier: Understanding, creating, and controlling novel  
quantum states**

Topology has become a cornerstone of modern theoretical physics, offering profound insights into engineered quantum states and novel materials alike. Its influence spans from the 2019 revision of the SI unit system to the forefront of anyonic quantum computing. In this talk, I will explore how topological concepts can be grounded in real-world measurements, and how we can tackle the challenges posed by strongly interacting topological many-body systems. I will also highlight some of the most pressing open questions in the field today, for example by touching upon the rich and complex behaviour of open and driven topological systems.

Join Zoom Meeting  
<https://uni-bonn.zoom-x.de/j/64252761213?pwd=U69G2w5W1mexudZUYl628jDZdXluNP.1>

Meeting-ID: 642 5276 1213  
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