MAX PLANCK **GRADUATE CENTER** FOR QUANTUM MATERIALS

Quantum materials refers

to a rapidly evolving research frontier that aims to understand, control, and ultimately design materials in which quantum physics enables novel functionalities.

The Max Planck Graduate Center for Quantum Materials builds on strong synergy between world-leading researchers with complementary expertise located at Max Planck Institutes (MPIs) across Germany.

Exchange and collaboration with first-rate international partner institutions is encouraged and promoted.

EBUCATING FOR THE SCIENCE OF TOMORROW We are looking for highly motivated candidates with a record of excellence in their previous studies. The candidate should hold either a MSc or a BSc degree in physics, chemistry, mathematics or computer science and have some knowledge of solid-Notes the structure and Dynamics of Matter state science. Exceptional students with an Honors BSc degree (4 or 5 years of study) can be admitted to the Ph.D. fast track program.

Berlin

Fritz Haber Institute of the Mps AI methods for materials science many-body electronic-structure theory and electron-phonon coupling

ab initio thermodynamics and statistical mechanics

nuclear quantum effects in materials

electronic and thermal transport

Halle 🔵

Hamburg

Mol for Chemitopology and symmetry in modern materials

single crystal microstructuring

strongly interacting electron fluids

Berlin

Dresden

physics control in material synthesis 9

Solids intermetallic compounds and related materials

Why art of the systems theory of quantum

collective phenomena

new kinds of order

quantum dynamics

Prof. Bernhard Keimer Coordinator: Dr. Zrinka Gattin

Max Planck Graduate Center for Quantum Materials

Heisenbergstraße 1 70569 Stuttgart, Germany

App for Solid State Research Stuffeart Coordination site Phone: +49 (0)711-689-1985 Email: info@quantummaterials.mpg.de

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