



**Universität  
Zürich<sup>UZH</sup>**

## **PhD position in Condensed Matter Theory at the University of Zurich**

The Condensed Matter Theory Group at the Department of Physics of the University of Zurich invites applications for a PhD position. We look for a talented individual with a masters degree in condensed matter theory, who enjoys cracking challenging problems using both numerical and analytical approaches, and who is a good communicator as well as a great team player.

The successful applicant will work in the group of Prof. Titus Neupert, with research topics centered around topological phases of matter, both in strongly and weakly correlated regimes, as well as connections between condensed matter theory, machine learning, and quantum computing.

The PhD work will focus on topological quantum materials, studying topological band theory as well as aspects of electronic correlations such as excitonic insulators and the physics of open systems with regards to non-Hermitian topology. The work will greatly benefit from the wide-ranging competences of the group members in this topic area, ranging from first principles calculations, via numerical methods for strongly correlated electron systems, all the way to field theoretical descriptions. Furthermore, the PhD student will benefit from interactions with the rich local scientific environment (University of Zurich, Paul Scherrer Institute, ETH Zurich) as well as close ties with many experimental groups, and will further be embedded in international collaborations.

The appointment will start in fall 2021 or earlier. The competitive salary follows the University of Zurich salary scheme for PhD positions. The University of Zurich is committed to promote gender equality and diversity. Applications from women are particularly welcome.

To apply, please send a CV, a letter of motivation describing also previous research experience, and the contact details of at least two references to Prof. Titus Neupert ([titus.neupert@uzh.ch](mailto:titus.neupert@uzh.ch)). To receive full consideration, all application materials should be submitted by January 31, 2021. However, applications will be considered after this deadline until the position is filled.

More information on the group of Prof. Titus Neupert:  
<https://www.physik.uzh.ch/en/groups/neupert.html>