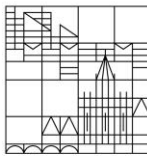


Physikalisches Kolloquium

Universität
Konstanz



Mo 07.06.21
15:15 Uhr

Zoom-Meeting:

[https://zoom.us/j/94269104147
?pwd=RUZ6Z014MWFmVzF4a
XJNMUFiSmVqQT09](https://zoom.us/j/94269104147?pwd=RUZ6Z014MWFmVzF4aXJNMUFiSmVqQT09)



Jun.-Prof. Dr. Stefan Weber
Johannes Gutenberg University

From Photovoltaics to Hydrovoltaics: Electrical Charging on the Nanoscale

Charge separation phenomena are omnipresent in our everyday life, from the small electric shock when touching a door handle over the formation of thunderclouds to the light-driven charge separation in a solar cell. Often, the charge separation mechanisms are controlled by microscopic structures on surfaces and interfaces. Here, scanning probe microscopy (SPM) methods offer the unique opportunity to study both the nanoscale surface structure and the charging dynamics. In the presentation I will show how we use SPM and SPM-derived methods to learn about the physics of charge separation in perovskite solar cells and moving water droplets.

