



Einladung zum Vortrag

“Emergent complexity”

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Termin: Dienstag, 01.12.2020, 10:30 Uhr

Zoom Meeting: <https://us02web.zoom.us/j/86456001690>

Abstract:

Complex systems featuring many interacting constituents exhibit “emergent behavior”: effects that can only be explained by the constituents working together as a group.

In physics, such effects are often intertwined with non-trivial topology. Initially applied only to gapped systems, we now understand topology as a universal organising principle for gapped and gapless systems alike. In my talk, I will present concrete examples for complex behaviour in gapless topological systems. Looking into the future, the understanding of such complex behaviour will allow us to work towards the controlled design of novel devices using topology, for example as sensors, quits, and others.