



# IFF-SEMINAR / SFB-ViCoM Seminar

Design of topological and superconducting properties in and out  
of equilibrium

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Host: Karsten Held  
Termin: **Donnerstag, 11 Mai 2017, 10:00 Uhr**  
Ort: Institut für Festkörperphysik, TU Wien  
Wiedner Hauptstraße 8-10, 1040 Wien  
FH Hörsaal 3 (gelber Bereich, 2. OG)  
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I shall explain theoretical ideas for designing topological properties. In equilibrium, topological properties for flat-band systems are discussed. We can even design superconductivity that is sitting right next to a topological phase[1].

In non-equilibrium, topological properties that are induced by circularly-polarised light will be described for the Floquet topological insulator[2] and Floquet spin-chiral[3] systems.

[1] K. Kobayashi, M. Okumura, S. Yamada, M. Machida and H. Aoki, Phys. Rev. B 94, 214501 (2016).

[2] T. Mikami et al, Phys. Rev. B 93, 144307 (2016).

[3] S. Kitamura, T. Oka and H. Aoki, arXiv:1703.04315.