

Einladung zum VICOM-Seminarvortrag

von

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Title: Controlling correlated materials with ultra-short electric field transients

Abstract:

Femtosecond laser technology has opened the possibility to probe and control the dynamics of complex condensed matter phases on microscopic timescales. In this talk, I will focus on various proposals to manipulate states with superconductivity or spin and orbital order using the electric field of the laser. This can be done both in the transient regime, where the laser-driven system effectively evolves with a Floquet-Hamiltonian with "light-induced" spin and orbital exchange interactions [1], or in the steady state, where driving by external fields is balanced by dissipation [2].

[1] M. Eckstein, J. H. Mentink, and Ph. Werner, arXiv:1703.03269.

[2] Y. Murakami, N. Tsuji, M. Eckstein, Ph. Werner, arXiv:1702.02942

Zeit: Fr, 12.05.2017, ~~12-00~~ **10.00 Uhr**

Ort: PH02112 (HS P3)
Petersgasse 16, 8010 Graz

(Host: Enrico Arrigoni)