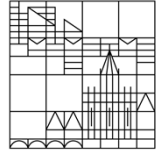


Physikalisches Kolloquium

Universität
Konstanz



Di 12.02.19
15:15 Uhr
14:45 Uhr, Kaffee/Tee
R 513



Dr. Hans-Gregor Hübl
Technische Universität München

Controlling magnons — transport properties & magnon-photon hybridization

Magnons are fundamental excitations of magnetic order. Recently, their diffusive transport properties are investigated in nanostructures based on ferrimagnetic insulators. I will discuss how the effective magnon resistance can be radically altered using spin Hall physics. In the second part of my presentation, I will focus on the hybridization of magnons with microwave photons and how this strongly coupled system provides a pathway for quantum magnonics.