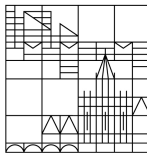


Physikalisches Kolloquium

Universität
Konstanz



Di 5.12.17
15:15 Uhr
14:45 Uhr, Kaffee/Tee
R 513



Prof. Dr. Jerome Faist
Department of Physics
Institute for Quantum Electronics
ETH Zürich

Exploring quantum optics in the terahertz

Quantum optics has been traditionally studied in the visible and near-infrared frequency regions. More recently, it was also shown that microwave superconducting circuits have also been a very interesting testbeds for fundamental quantum optics studies. In this talk, I will discuss some of our recent advances in studying quantum optics in the terahertz. In particular, it is a very interesting frequency region to study the physics of the ultra-strong light matter coupling regime. In particular, we are interested in the coupling between metamaterials and excitations of two-dimensional electron gases as well as measurements of field correlations by electro-optic sampling.

