

# Modern versions of the photoelectric effect: two-photon and double photoemission spectroscopy tutorial

February 6, 2019 | 4:00 pm  
Lecture Hall MPI | B.1.11

IMPRS  
STNS

## Abstract

Since the discovery of the photoelectric effect, studying the interaction between light and matter has become a topic covering the whole spectrum of different branches in physics.

Whereas photoelectric effect is nowadays a paradigm in textbooks to demonstrate the concept of the photon energy, modern spectroscopy and microscopy methods have evolved significantly beyond the absorption of one single photon by a one-electron transition in condensed matter. In this talk, peculiar processes such as the absorption of twice of the photon energy by one single electron as well as the sharing of one single photon energy by two electrons will be introduced.

## Speaker

Cheng-Tien Chiang

[cheng-tien.chiang@physik.uni-halle.de](mailto:cheng-tien.chiang@physik.uni-halle.de)

MLU Halle

