

Theoriekolloquium

Am **16. Juni 2022** um **14.15 Uhr** im Raum **W2 1-143** hält

Herr Dr. Guillaume Weick (Strasbourg)

einen Vortrag mit dem Titel

Topological phenomena in plasmonic arrays of nanoparticles

Metallic nanoparticles host collective bosonic excitations, called localized surface plasmons. The latter are dipolar in nature and correspond to an oscillation of the electronic center of mass. In arrays of plasmonic nanoparticles, the localized surface plasmons hybridize to form extended collective modes due to dipolar interactions. In this talk, I will discuss the properties of such collective modes in one- and two-dimensional topological plasmonic metamaterials. In particular, I will discuss the nontrivial topological properties of dimerized chains, as well as honeycomb lattices of metallic nanoparticles, which are the host of chiral Dirac-like plasmonic excitations.

Interessierte sind herzlich eingeladen.

gez. PD Dr. Svend-Age Biehs