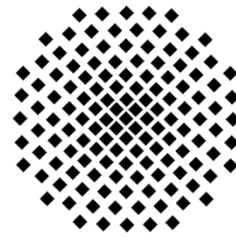


Stuttgarter Physikalisches Kolloquium

Fachbereich Physik, Universität Stuttgart
Max-Planck-Institut für Festkörperforschung
Max-Planck-Institut für Intelligente Systeme

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17:15 Uhr

Hörsaal V 57.01

Universität Stuttgart, Pfaffenwaldring 57, 70569 Stuttgart-Vaihingen

Gastgeber: Prof. Harald Gießen, Universität Stuttgart, Telefon: 0711 - 685-65111

The role of resonant states in nanophotonics

Thomas Weiss
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Abstract

Resonant states determine the optical properties of nanostructures. Examples are plasmonic resonances, whispering gallery modes, or simply Fabry-Perot modes. Knowing the resonance frequency and linewidth as well as the resonant field distributions allows for predicting and understanding the optical properties of the nanostructure. However, resonant states are usually unbound, so that the normalization is a nontrivial task. I will show recent developments in the normalization of resonant states and present results of its application in systems with chiral media.