H U M B O L D T – U N I V E R S I T Ä T Z U B E R L I N MATHEMATISCH-NATURWISSENSCHAFTLICHE FAKULTÄT I INSTITUT FÜR PHYSIK AG Theoretische Optik & Photonik



Einladung zum Vortrag

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Thema: Photonic Metamaterials: Challenges and Opportunities

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Abstract:

In the last decade, a new area of photonics research has emerged, that has given the ability to produce materials with entirely novel electromagnetic properties. Known as metamaterials for their ability to take beyond conventional materials. Clearly, the field of metamaterials can develop mould-breaking technologies for a plethora of applications, where control over light (or more generally electromagnetic radiation) is a prominent ingredient—among them telecommunications, solar energy harvesting, biological and THz imaging and sensing, optical isolators and polarizers. In this talk, I give an introduction into this emerging field, review recent progress, and highlight remaining challenges and opportunities.

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