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DEGLI STUDI  
DI PADOVA



Dipartimento  
di Fisica  
e Astronomia  
Galileo Galilei

**October 26, 2023 – 4:30 pm**

*Room Voci – Dept. of Physics and Astronomy “G. Galilei”*

***Prof. Riccardo Sapienza***

*Imperial College London, UK*

# **Time-varying and reconfigurable driven photonics**

Metamaterials have revolutionised the way we control light transport and generation. Yet, to date, they rely on passive architectures, only redistributing incident wave energy - for example in a metalens, or a cloak - with no power to locally absorb or produce it to enhance responses.

Here I will discuss our first steps towards driven photonic systems, able to convert energy to function and perform actions.



**Riccardo Sapienza** is Professor of Physics in Imperial College London, deputy Head of Department for Research and director of the Centre for Plasmonics and Metamaterials. He investigates light in nanoscale architectures and metamaterials.

He joined Imperial College London as Reader in 2017 from King's College London where he held a lectureship since 2012. Before that his passion for optics has taken him to the Laboratories for Nonlinear Spectroscopy (LENS) - Italy, the institute of material science (ICMM), the institute of photonic science (ICFO) - Spain, and the École Normale Supérieure (ENS) - France.

***Condensed Matter Seminars***