



Università  
degli Studi  
di Palermo

Dipartimento di Ingegneria  
Direttore: prof. Antonino Valenza



Palermo, 22/05/2023

Prof. Costantino De Angelis

Full Professor at University of Brescia

will deliver a seminar on

## *Metaoptics: from fundamentals to applications*

The seminar will be held on

May 30<sup>th</sup> 12:00-13:00

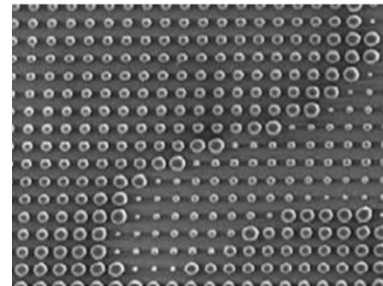
Engineering Department, Aula Savagnone, bldg. 9, first floor

### Abstract

Optical metasurfaces are today not only one of the most exciting emerging technologies, but also a rich playground for fundamental research.

In this talk, I will first give an overview of the field of metamaterials and metasurfaces to then

move into the research work we are currently doing in this field. The research topics that I will try to particularly address are: optical computing and image processing with photonic metasurfaces, terahertz generation with photonic metasurfaces and tunability/reconfigurability of photonic metasurfaces.



Costantino De Angelis is since 2004 Full Professor of Electromagnetic Fields at the University of Brescia, Brescia - Italy, where he is head of the Electromagnetic Fields and Photonics Group. He is the author of more than 200 papers on international refereed journals, over 200 contributions at international conferences, including more than 40 invited presentations. Some of his papers have contributed to the early stage of new research developments in the field of discrete nonlinear photonic periodic structures and related devices. Prof. De Angelis in 2017 has been elected as a Fellow member of the Optical Society of America (now Optica).