



# Nano light Technology

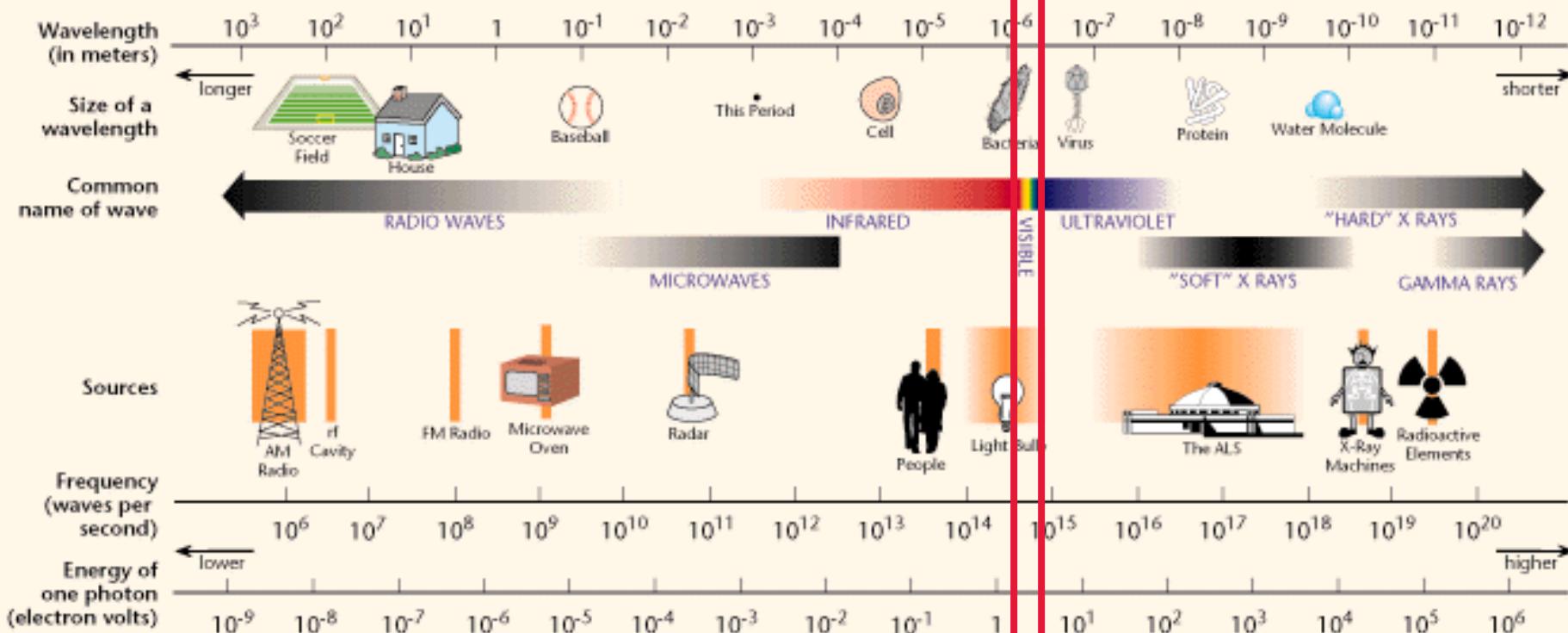
## NCMN Nanocamp

Christos Argyropoulos

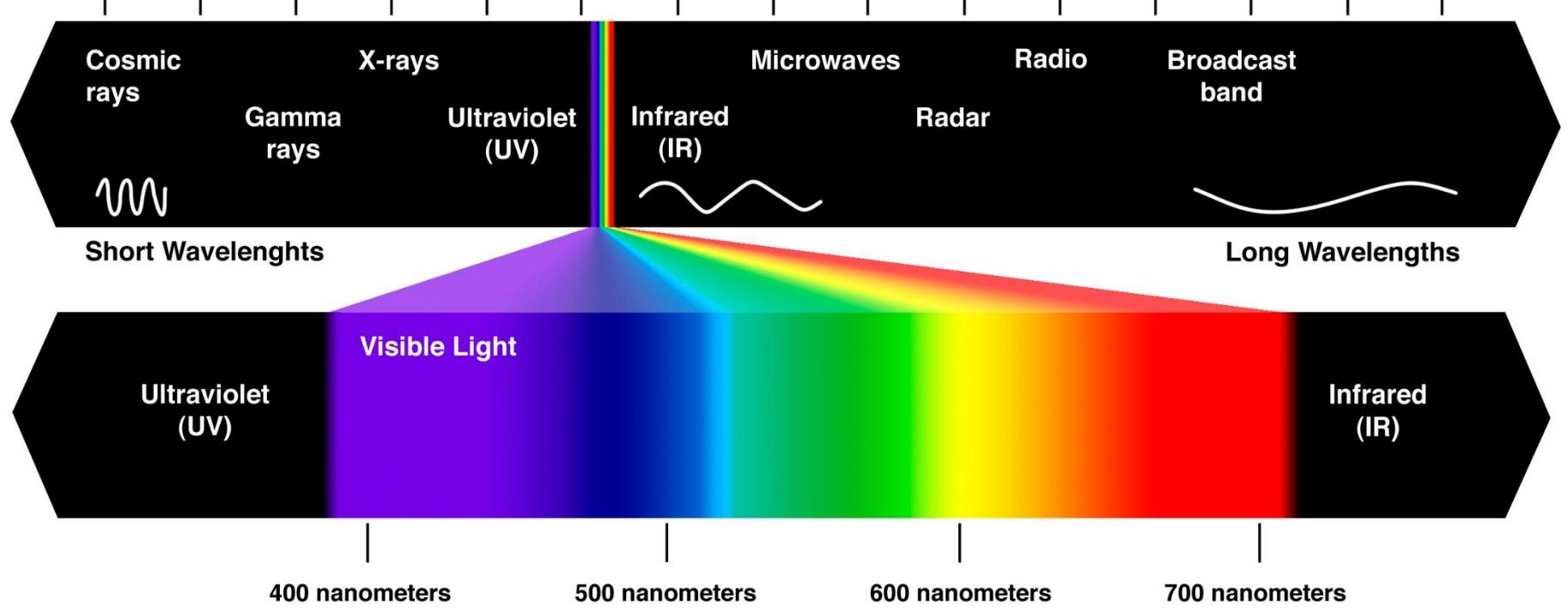
Metamaterials and Integrated Nanophotonics Lab  
Department of Electrical and Computer Engineering



# THE ELECTROMAGNETIC SPECTRUM

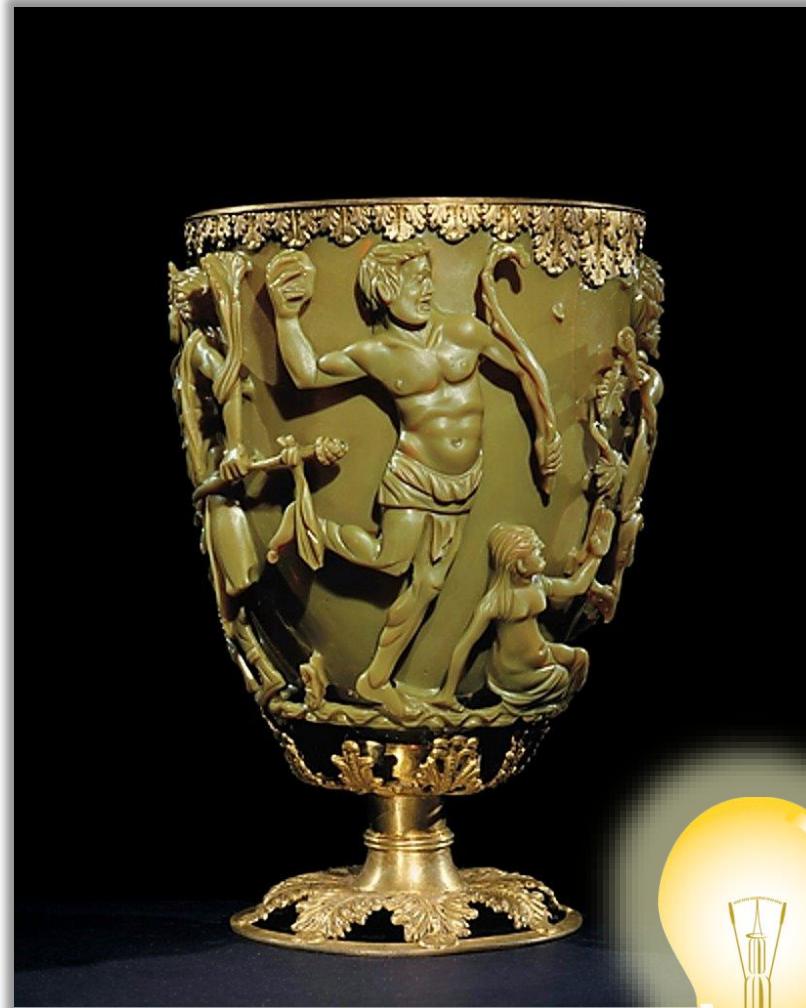


N



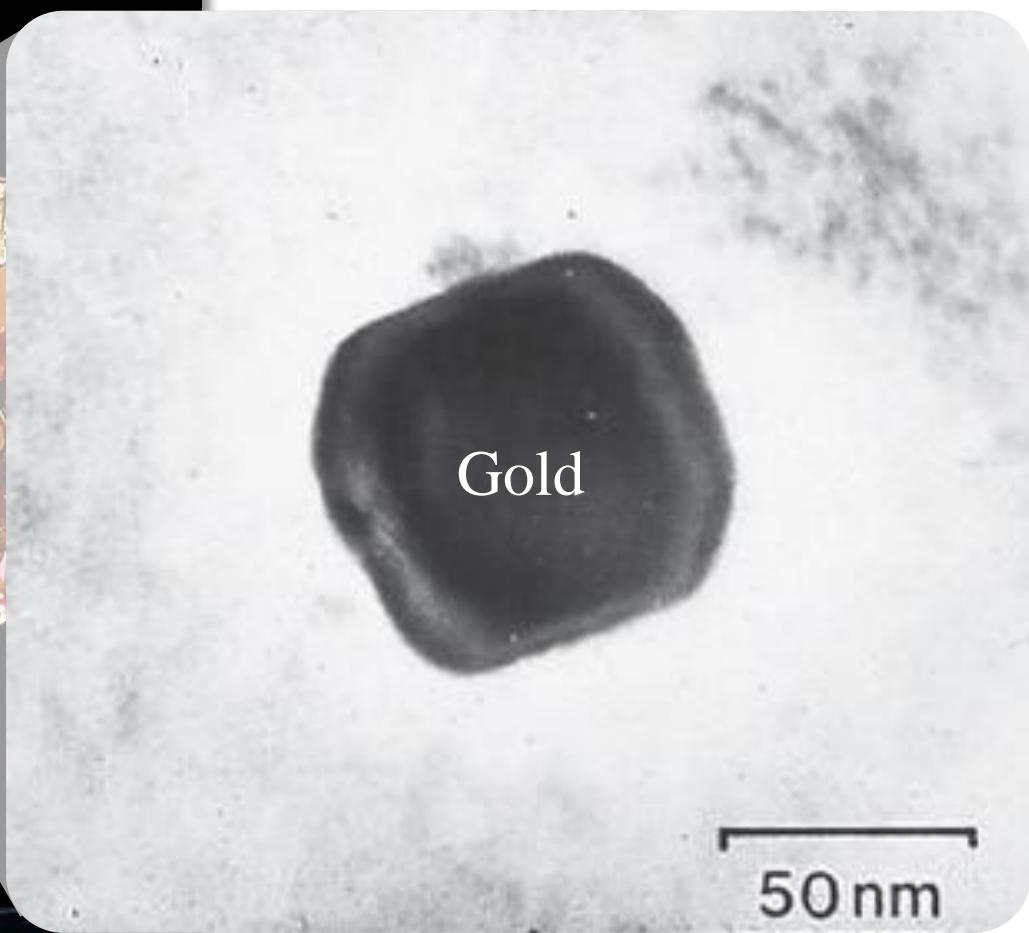
N

# 'Unconventional' light interactions



The Lycurgus cup at British museum

# Ancient metamaterials and nanotechnology



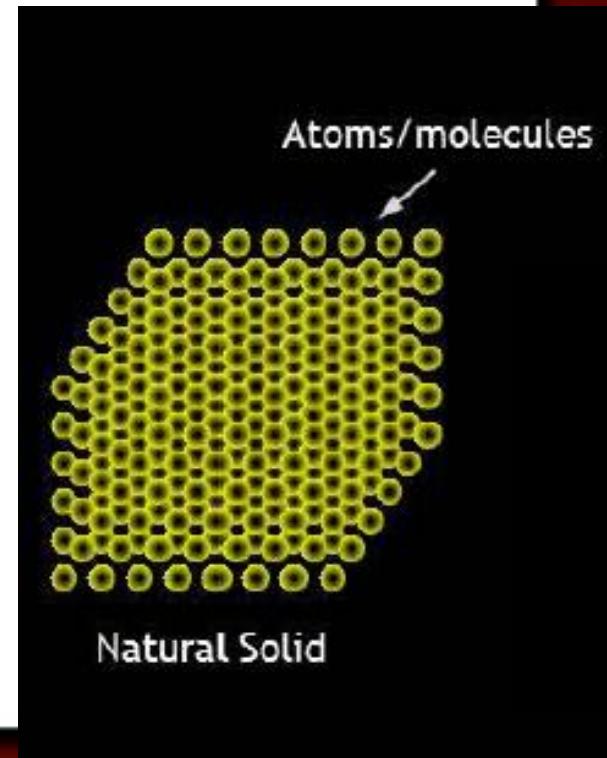
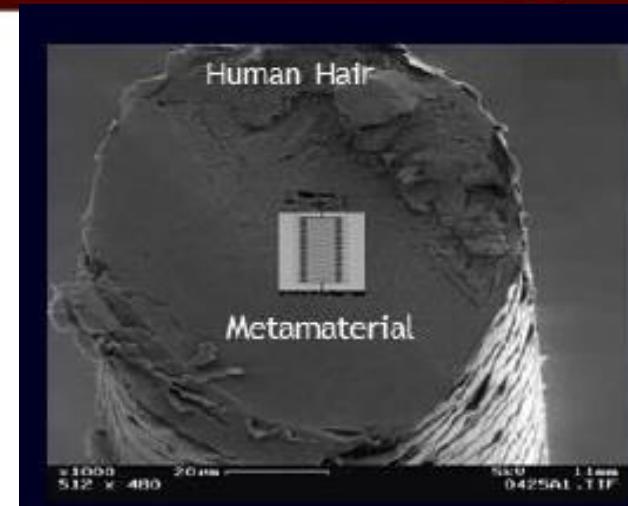
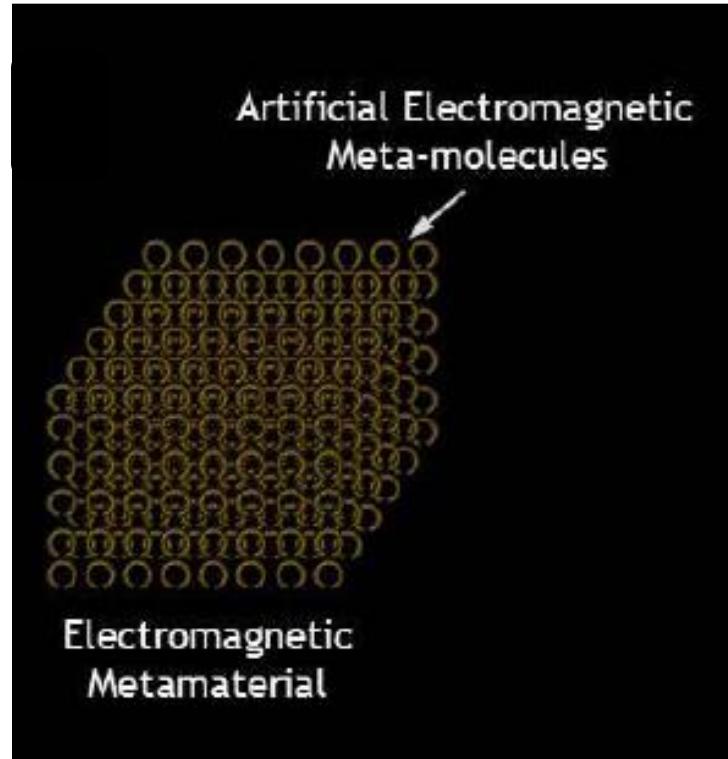
I. Freestone, *et al.*, *Gold Bulletin* **40**, 207 (2007)

N

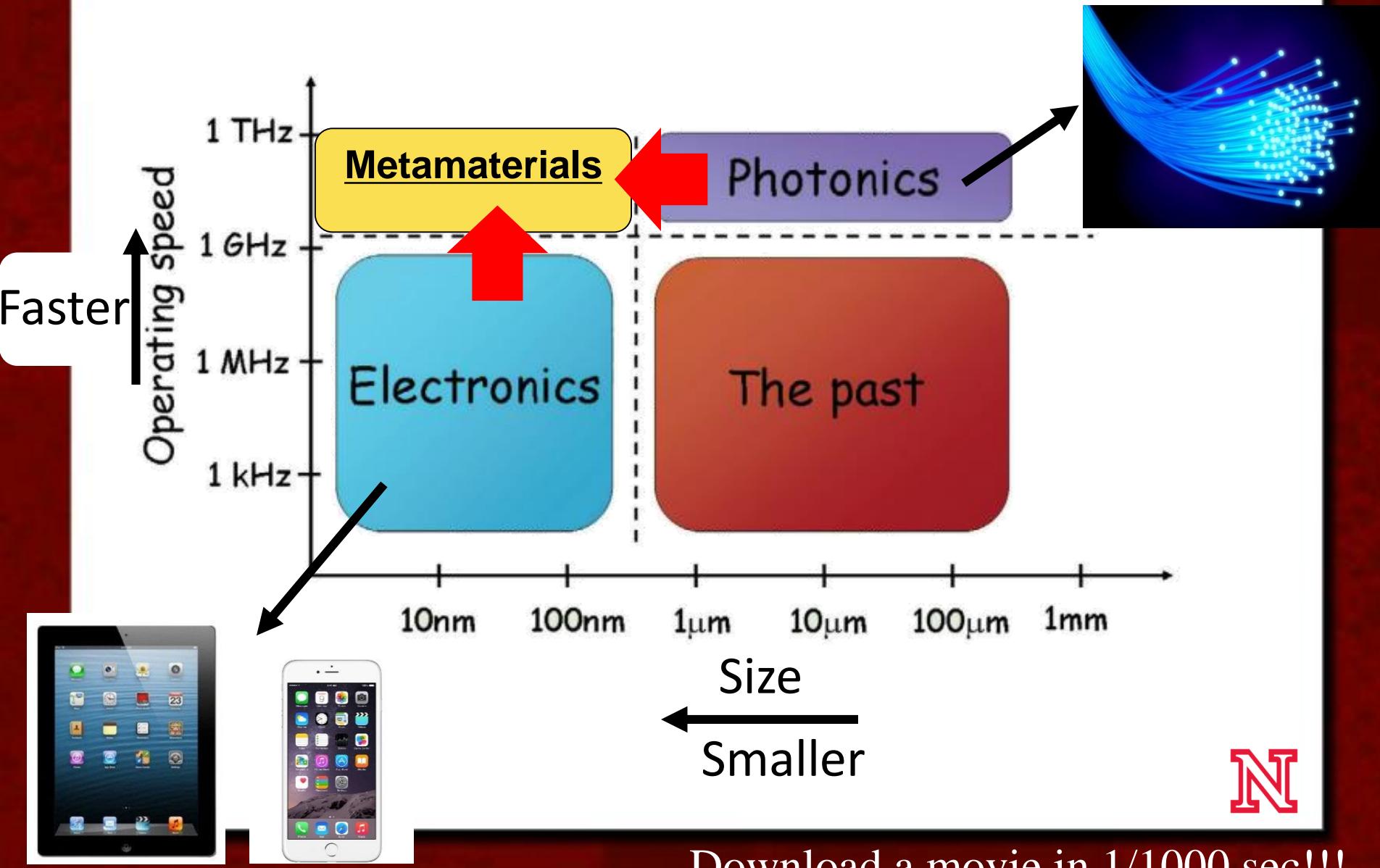
The Lycurgus cup at British museum

# Nanotechnology to control light

1nm=1 billionth of a meter!!

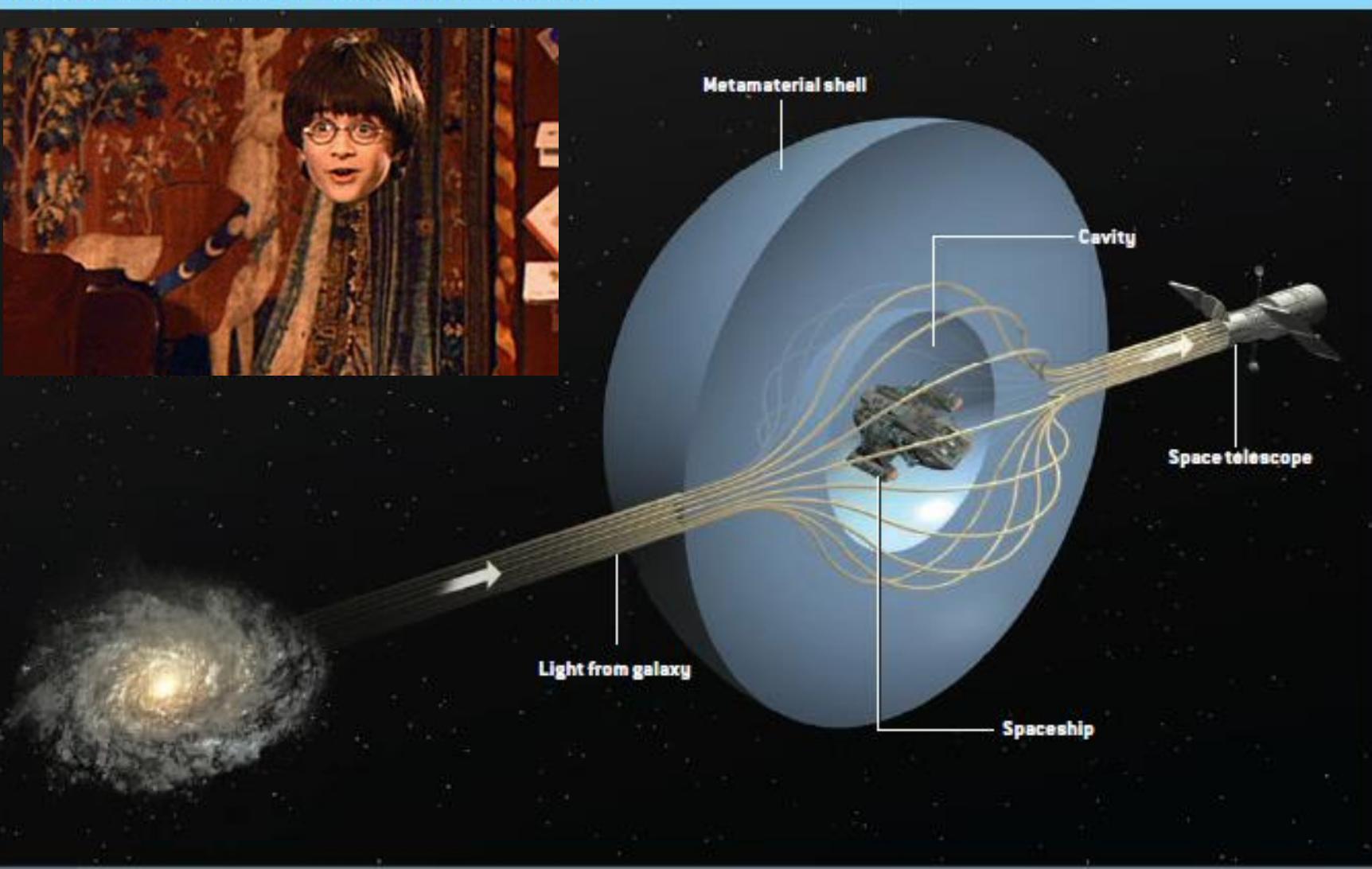


# Metamaterials and optical communications

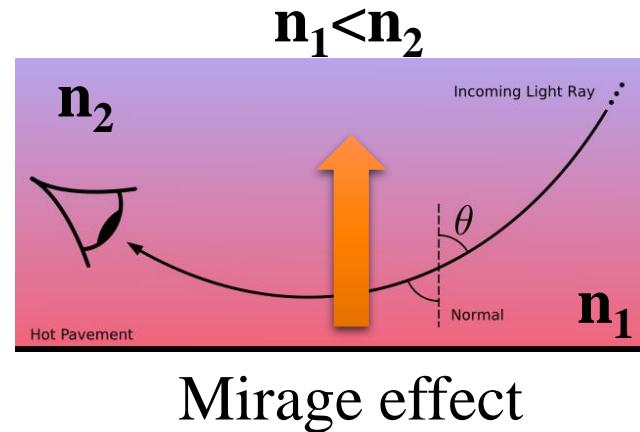


# The cloak of invisibility

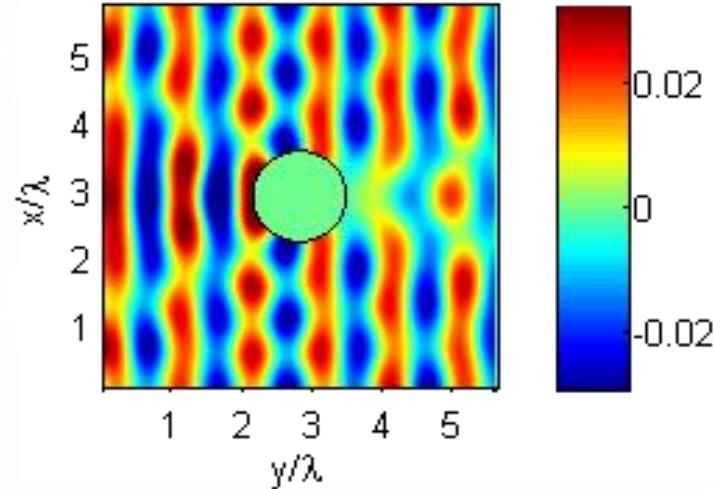
HOW A CLOAKING DEVICE MIGHT WORK



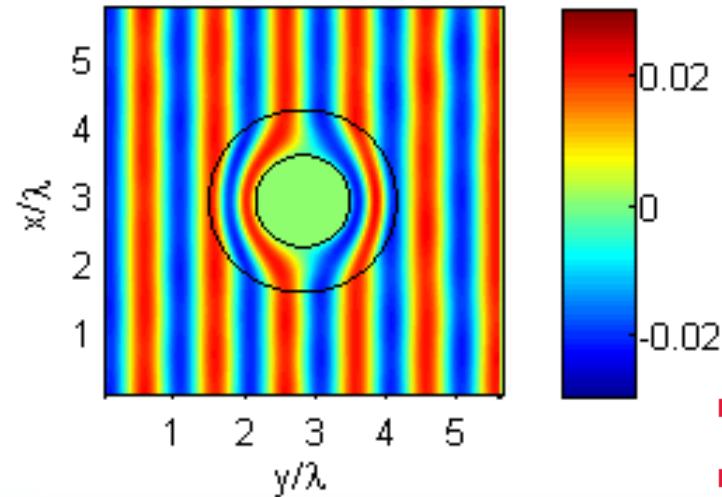
# The cloak of invisibility



Uncloaked object



Cloaked object



N



# THANK YOU QUESTIONS

[christos.argyropoulos@unl.edu](mailto:christos.argyropoulos@unl.edu)  
<http://argyropoulos.unl.edu/>

