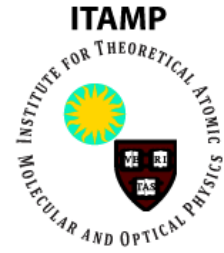




**HARVARD** Quantum Optics Center



# Joint Quantum Sciences Seminar

**Wednesday | April 9 | 4:00 pm |  
Jefferson 250**

**Federico Capasso**

School of Engineering and Applied Sciences,  
Harvard University

## ***"Flat Optics with Metasurfaces"***

Artificial structuring of metal-dielectric surfaces at the sub-wavelength scale provides great flexibility in designing the wavefront of scattered light and the propagation of surface waves through local control of amplitude, phase and polarization, leading to a rich variety of phenomena and to a new class of photonic components.

**Student Presentation by Jan Balthasar Muller,  
Capasso Group**

**"Asymmetric surface plasmon polariton emission by a dipole emitter  
near a metal surface"**

**Student Presentation will begin at 4:00 PM  
Refreshments will be served from 4:10-4:30 PM  
Guest Presentation will begin at 4:30 PM**