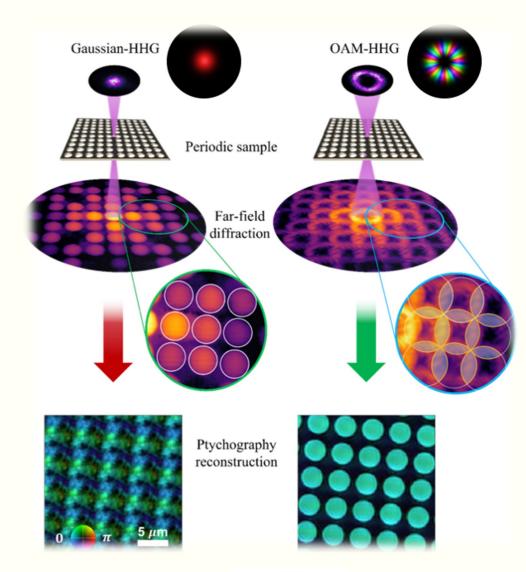
## Seminario - Lunes 19 de Junio, 09:00 h. Aula III (edificio Trilingüe)

## Attosecond Quantum Technologies for Advanced Materials Metrologies

## Henry Kapteyn-JILA (University of Colorado Boulder)

Next-generation nano and quantum devices have increasingly complex 3D structure. As their dimensions shrink, their performance is often governed by interface quality or precise chemical, interfacial or dopant composition. However, correlating their structural and functional properties is challenging.

High harmonic quantum light sources provide an exquisite source of short wavelength light, with unprecedented control over the spectral, temporal, polarization and orbital angular momentum (OAM) of the emitted waveforms, from the UV to the keV photon energy region. These advances are providing powerful new tools for near-perfect x-ray functional imaging, and for engineering the illumination to achieve high-fidelity imaging – akin to the vortex beams used in visible super-resolution imaging.



## Organizado por:







