



Seminario

**Transport of light in photonic nanomaterials:
optical Bloch oscillations**

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While propagation of light waves in ordered and disordered structures is fairly well known, very little is known about the behavior of light waves in the intermediate regime between order and disorder. Quasi-ordered media, where breaking of rotational or translational invariance occurs, exhibit novel and unusual forms of light transport. Anisotropic scattering random media, nematic liquid crystals, especially tailored photonic crystals and Fibonacci quasi-crystals are just few instances of quasi-ordered materials that will be presented in this talk. How would light transport be in a quasi-periodic photonic crystal with broken translational symmetry?. I will address some of these issues based on both theoretical arguments and experimental evidences.

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LUGAR:

Salon de actos (3^a planta)
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