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José M. Villadangos está compartiendo contenido

23 asistentes

- Daniel Caler
- Daniel García Artos
- David Menendez
- Diego Rellán Martínez
- Elena Aparicio
- Evelyn
- Francisco Javier Ferrero Martín
- Gerard
- Juan Jesús
- Juan M Rodríguez
- Juan Manuel Rodríguez #2
- M. Carmen Pérez
- Manel Gasulla
- Oliver Millan
- Pablo Alegría Díaz
- Rafael González
- Víctor Arbesú Fernández

José M. Villadangos Moderador

M. Carmen Pér... Rafael González + 19

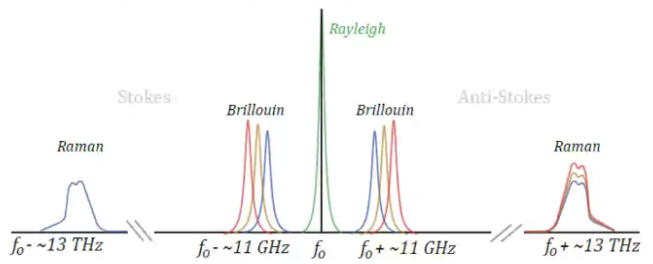
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Introduction to Distributed Optical Fiber Sensing
Fundamentals and Applications

1. Fundamentals of optical fibers

- Scattering effects: process by which light, interacting with a material medium, is radiated in an arbitrary direction.
 - Rayleigh → One of the main actors in attenuation. Elastic process (no change in the scattering wavelength, electronic excitation or de-excitation). Wavelength dependent, following a $\propto 1/\lambda^4$ dependency.
 - Brillouin and Raman → Inelastic processes: the energy of the incident and scattered photons is different, an interchange with the propagation medium is produced. They can be spontaneous or stimulated. Stimulated scattering is used to develop temperature and/or strain sensors.



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Inactivo (1)

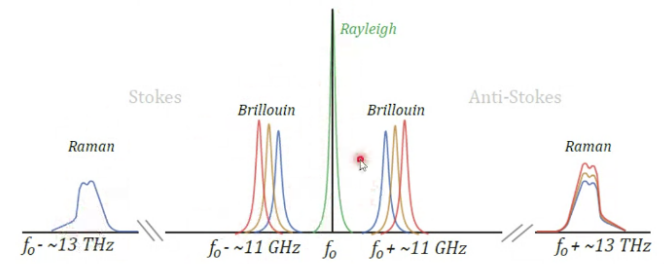
Ocultar

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Introduction to Distributed Optical Fiber Sensing: Fundamentals and Applications

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22 asistentes

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- José M. Villadangos

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- Daniel Caler
- Daniel García Artos
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- Diego Rellán Martínez
- Elena Aparicio
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- Gerard
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