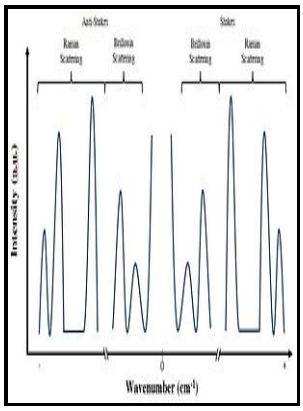
Brillouin spectrum and elastic constants of parahydrogen.

- - ShieldSquare



Description: -
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Dialogue
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Physics ThesesBrillouin spectrum and elastic constants of parahydrogen.
-Brillouin spectrum and elastic constants of parahydrogen.
Notes: Thesis (Ph.D.), Dept. of Physics, University of Toronto.
This edition was published in -

Tags: #In #vivo #Brillouin #optical #microscopy #of #the #human #eye

Electronic, elastic, vibrational and dielectric properties of InPS4 by first principles

The associated sound energy density can be directly compared with experimental measurements of Brillouin scattering. Brillouin spectroscopy is an technique which allows the determination of elastic moduli of materials. The Brillouin spectra were recorded in the CCD camera with the frame integration times between 0.

Phys. Rev. 149, 647 (1966)

The repeatability of the results above has been confirmed by performing the same measurements for other samples. It has a chin support and a headrest, which allowed the height of the head of the human subject to be adjusted with a manual translation stage. In addition to surface waves, our experimental and theoretical investigations also show that silica microwires also exhibit several widely spaced Brillouin frequencies involving hybrid shear and LAWs, as previously demonstrated in small-core PCFs.

Phys. Rev. 149, 647 (1966)

Representative Brillouin spectra anti-Stokes peaks from a human eye. In our measurements corneal Brillouin modulus ranged from 2. In , when the strain was smaller than 5%, the effective length was slightly increased with the strain, because the actual fiber length was elongated owing to the strain and it compensated for the increase in the loss.

Brillouin light scattering from surface acoustic waves in a subwavelength

Their acoustic energy is significant for small core but strongly reduces as the diameter increases beyond the optical wavelength 1. This peak is generally quite intense and is not of direct interest for Brillouin spectroscopy.

OSA

The laser output was split into two beams using a fibre coupler.

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