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In laser spectroscopy, chemists train a laser beam on a sample, yielding a characteristic light source that can be analyzed by a spectrometer. But laser spectroscopy falls into several different schools, depending on what kind of laser chemists favor and which aspect of an atom's excited response they study. Let's look at some of these more closely.

Overview of Laser Spectroscopy | HowStuffWorks

Spectroscopy is the study of the interaction between matter and electromagnetic radiation as a function of the wavelength or frequency of the radiation. Historically, spectroscopy originated as the study of the wavelength dependence of the absorption by gas phase matter of visible light dispersed by a prism. Matter waves and acoustic waves can also be considered forms of radiative energy, and ...

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Laser Spectroscopy: Basic Concepts and Instrumentation ...

The first part contains the foundations of laser spectroscopy, i.e., the basic physics of spectroscopy, optical instruments and techniques. It furthermore provides a short introduction to the physics of lasers, and discusses the role of optical resonators and techniques for realizing tunable narrowband lasers, the working horses of laser spectroscopy.

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Laser spectroscopy: Basic concepts and instrumentation. Questions concerning the absorption and emission of light are investigated, taking into account cavity modes, thermal radiation and Planck's law, basic photometric quantities, discrete and continuous spectra, absorption and dispersion, transition probabilities, linear and nonlinear absorption, a semiclassical description, and aspects of coherence.

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