

Recent advances in laser spectroscopy

Theo W. Hansch

(Department of Physics, Stanford University)

Advances in instruments and methods for laser spectroscopy will be reviewed, including laser wavemeters, techniques to simplify and unravel complex spectra, methods for ultrasensitive spectroscopy, and new developments in high resolution Doppler-free spectroscopy. Studies of atoms and simple molecules with dye lasers and color center lasers will serve as illustrations.

激光光谱学的最新进展

Theo W. Hansch

(斯坦福大学物理系)

综述了激光光谱学的仪器与方法的进展,其中包括激光波长表,简化与解释复杂光谱的技术,超灵敏光谱学方法,以及高分辨率无多普勒光谱术的新发展。用染料激光器和色心激光器对原子与简单分子进行的研究作了说明。