

## 目 录

· 光谱 ·	
相移法测量寿命的理论分析 .....	李世芳等 (769)
硅甲烷 CARS 光谱的研究 .....	虞海平等 (776)
钠分子的共振喇曼散射 .....	曹洪如等 (784)
以 $AlF_3$ - $YF_3$ 为基础的氟化物玻璃的振动光谱及结构研究 .....	陈海燕等 (791)
· 激光等离子体 ·	
等离子体细丝二次谐波辐射的线性转换理论 .....	谭维翰等 (799)
激光加热微管靶反激光方向二次谐波时空分辨结构 .....	陈文华等 (806)
· 非线性光学 ·	
带延时光学双稳装置分岔点处的光放大效应 .....	周士涛等 (811)
· 激光 ·	
增益导引锁相阵列激光器实验及波导分析 .....	王新桥等 (817)
· 全息术和信息处理 ·	
投影彩虹全息术 .....	谢敬辉等 (824)
利用三色光栅实现彩色图像相减 .....	康 辉等 (832)
光盘多信道存贮分光技术 .....	吴 震等 (838)
模拟合成孔径雷达数据片波差的测量和胶片、波差的容限 .....	金 友 (844)
· 简讯 ·	
三能级激光器的突变行为 .....	孙懋宗 (851)
简并双光子激光的光子统计 .....	汪志诚 (856)
傅里叶变换光谱学相位校正的新方法 .....	范世福等 (861)

## CONTENTS

### Spectroscopy

- Theoretical mode of lifetime measurement by phase shift method.....*Li Shifang et al.* (769)  
 An investigation on CARS spectra of silane.....*Yu Haiping et al.* (776)  
 Resonance Raman scattering of sodium molecule.....*Cao Hongru et al.* (784)  
 Structure and vibrational spectra of fluoride glasses based on  $AlF_3$ - $YF_3$ .....*Chen Haiyan et al.* (791)

### Laser Plasma

- Linear conversion theory of the second harmonic emission from plasma filament.....  
 .....*Tan Weihai et al.* (799)  
 Space and time resolved structure of second harmonic emission from microtune targets at  
 backscattering direction.....*Chen Wenhua et al.* (806)

### Nonlinear Optics

- Optical amplification effect in an OBD with delayed feedback at bifurcation points.....  
 .....*Zhou Shie et al.* (811)

### Lasers

- The experiment and analysis of waveguide for gain-guided phase-locked diode laser arrays...  
 .....*Wang Xinqiao et al.* (817)

### Holography & Information Processing

- Projection rainbow hologram.....*Xie Jinghui et al.* (824)  
 Color image subtraction by using three-color grating .....*Kang Hui et al.* (832)  
 Beam-splitting techniques in multichannel optical disk memory .....*Wu Zhen et al.* (838)  
 Measurement of wavefront aberration of simulated SAR data film and tolerance of wavefront  
 aberration of the film.....*Jin You* (844)

### Research Notes

- On catastrophe behavior of the three-level laser.....*Sun Maozong* (851)  
 Photon statistics of degenerate two-photon laser.....*Wang Zhicheng* (856)  
 A new method for phase correction in FTS.....*Fan Shifu et al.* (861)