



2009 - Conical diffraction and Bessel beam formation with a high optical quality biaxial crystal - Optics Express - Phelan et al 2010 - Free-space evolution of focused Gaussian beams transformed by conical diffraction in a biaxial crystal - OC - Peet

2013 - The far-field structure of Gaussian light beams transformed by internal conical refraction in a biaxial crystal - OC- Peet

RL 分量 RL 分量 ±45°分量 R 偏高斯 锥折射: 检 RLHV±45° 近场 → 远场 (晶体外) 光强 前端 → 后端 (晶体内) AST - U_{1//}_oea_0.0mm_XZ_arnp_Squared AST - $U_{1/oea_0.0mm_XZ_amp_Squared}$ $0.8 \\ 0.6$ far 8.0 12.0 12.0 0.6 10.0 10.0 0.4 0.4 横切 0.2 0.2 8.0 8.0 -0.0 -0.06.0 6.0 (Y) -0.2-0.2-0.44.0 -0.44.0 -0.6 -0.6 2.0 2.0 -0.8-0.8 0.0 2.0 4.0 6.0 8.010.02.04.06.018.0 0.0 10.0 20.0 30.0 40.0 50.0 60.0 70.0 AST - U_{1/_}oea_-0.28mm_YZ_amp_Squared AST - U_{1//}_oea_-0 28mm_YZ_amp_Squared $0.8 \\ 0.6 \\ 0.4$ 8.0 12.0 12.0 0.6 10.0 10.0 0.4 纵切 0.2 -0.2 8.0 8.0 -0.0 6.0 6.0 (X) -0.2 -0.2-0.4 4.0 -0.44.0 -0.6 -0.62.0 2.0 -0.8 0 0 2.0 4.0 6.0 8.010.012.014.016.018.0 $0.0\ 10.020.030.040.050.060.070.0$ focal B_1+B_0 AST - $U_{1/}$ oea 20.0mm energy(z) $1.4 \cdot 10^{4}$ $1.2 \cdot 10^4$ $1.0 \cdot 10^{4}$ $8.0 \cdot 10^{3}$ $6.0 \cdot 10^{3}$ 双轴晶体 主轴 n 各向异性 → 线性旋轨耦合 $4.0 \cdot 10^{3}$ $2.0 \cdot 10^{3}$

20.0