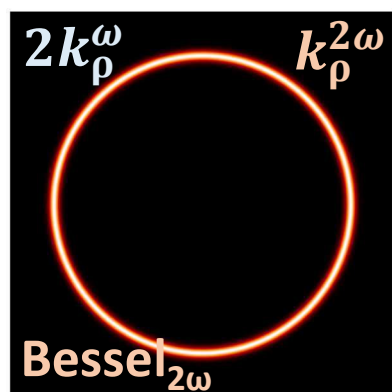


2

# 圆偏 贝塞尔 $\rightarrow$ BBO: $\chi^{(2)}$ 各向异性 + 锥形相位匹配

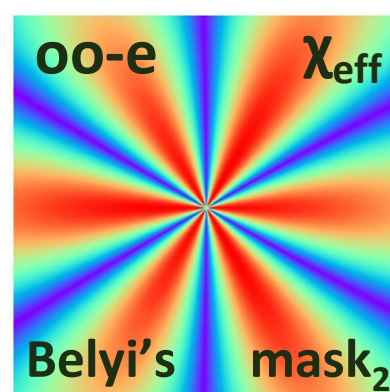
2011 - Propagation of high-order circularly polarized Bessel beams and vortex generation in uniaxial crystals - Optical Engineering - Belyi

相位  
匹配

纵向

有效  
 $\chi^{(2)}$ 

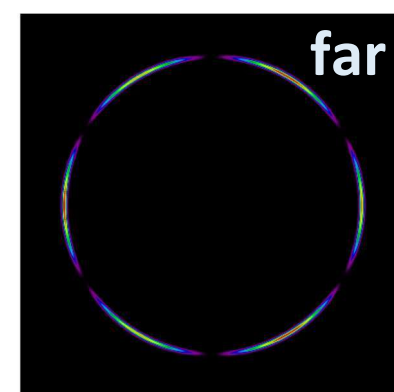
全方向



远场



横向

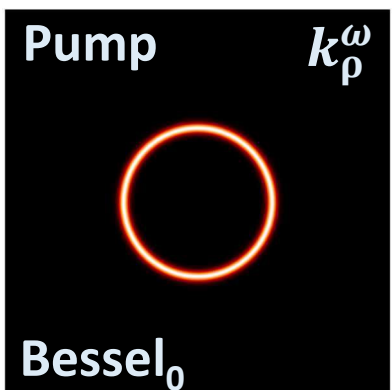


横向  动量守恒

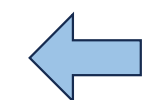
oo  $\rightarrow$  e  锥形匹配

oo  $\rightarrow$  e  偏振态

 输出



折射率

oo  $\rightarrow$  e $\chi^{(2)}$  各向异性 $n^{(1)}$  各向异性

材料 property

