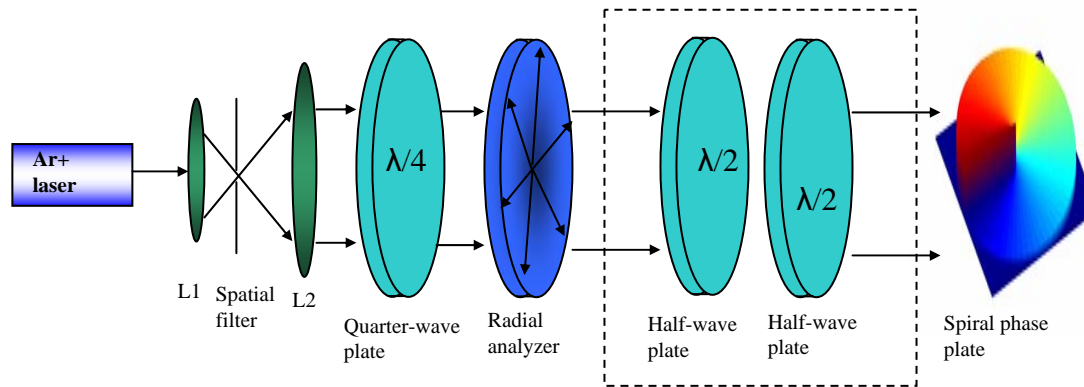


Optical Beam Shaping and Polarization Control

Bing Hao and James Leger (PI)

Electrical & Computer Engineering, University of Minnesota



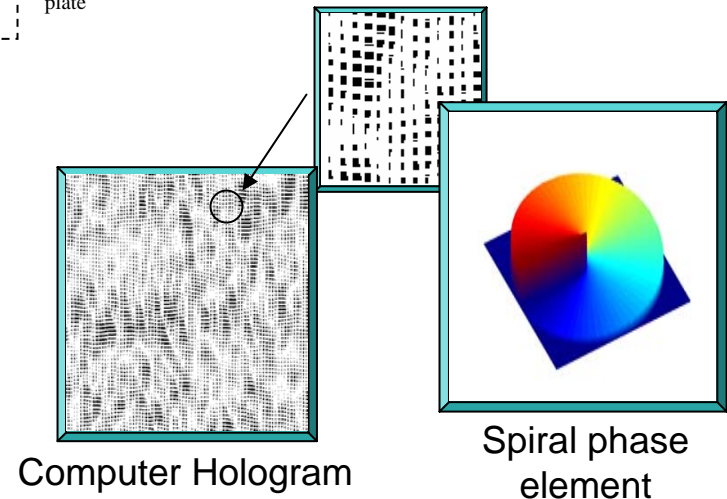
Optical set-up for demonstrating on-axis polarization

DESCRIPTION OF WORK

- ◆ Nonhomogeneous polarization used to shape laser beams
- ◆ Computer holograms and spiral phase elements used to control polarization and phase front

Publications

- ◆ B. Hao and J. Leger, *Optics. Exp.* **15**, 3550-3556 (2007).
- ◆ J. Leger and B. Hao, *SPIE Ann. Meet.*, San Diego, CA (2006).
- ◆ B. Hao and J. Leger, *SPIE Ann. Meet.*, San Diego, CA (2007).



Fabricated phase and polarization control elements