**Laser & Microoptics Systems Group**  
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**Optical Beam Shaping and Polarization Control**

- Unpolarized HeNe laser
- Spatial filter
- Double polarizer
- Hologram plate
- Fourier transform lens

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**Imaging “Skin” using Grating Coupler**

- Object space grating
- End-fire detector package

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**Holographic Phase Plate for Laser Beam Combining**

- External cavity
- Coherent Array
- Phase Plate 1
- Phase Plate 2

Thickness information across the phase plates mapped into intensity information using holographic techniques. Holographic phase plates have been fabricated in NFC.

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**Miniature Tomographic Imaging Spectrometer**

- Grating fabricated in NFC on GRIN rod lens prismatic surface with Focus Ion Beam etching