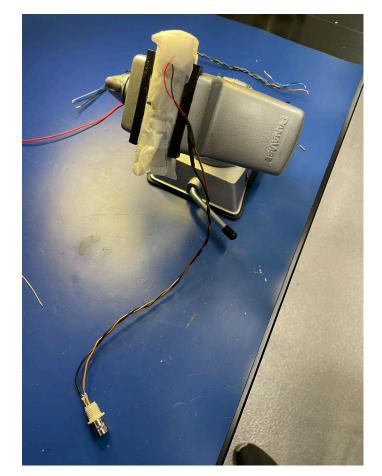
Optical Cavity for Raman Laser

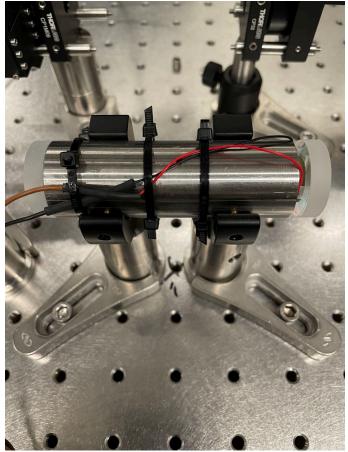
Jalen Crutchfield

Advisor: Grant Biedermann

Optical Cavity

- Produces standing waves for different resonance frequencies
- Standing wave patterns produce transverse modes





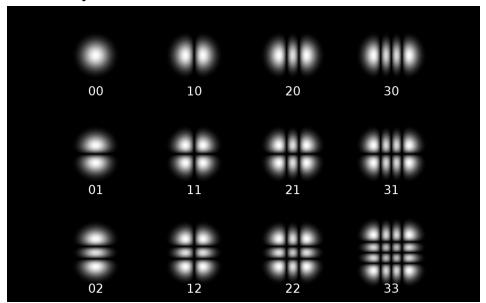
Transverse Modes

An electromagnetic field pattern

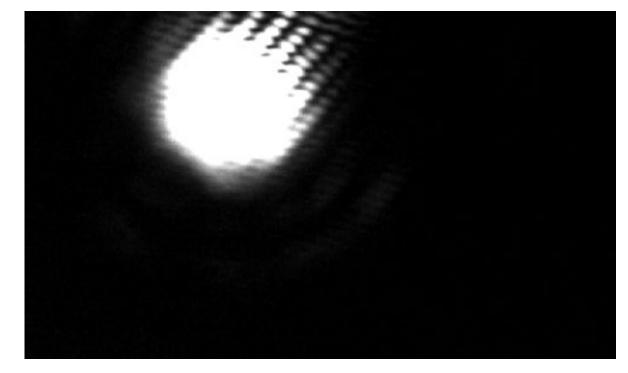
Referred to as Transverse Electromagnetic Mode (TEM_{mn})

Change due to different frequencies and have different intensity

patterns

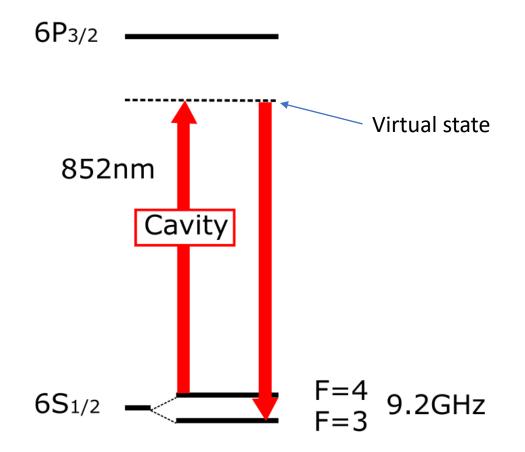


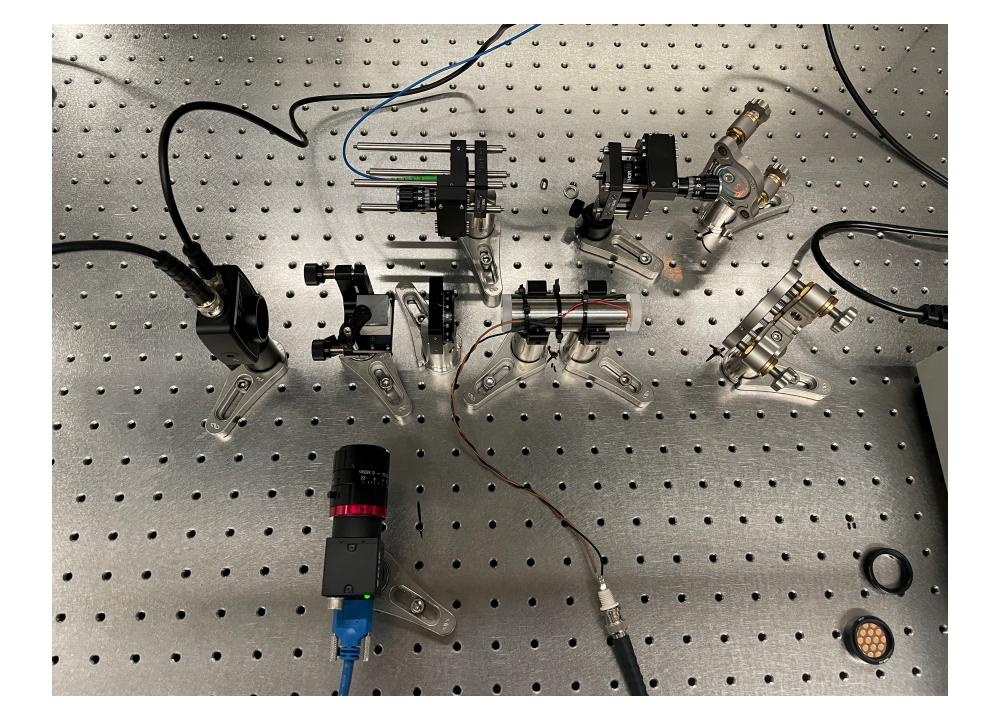
DrBob et al



Research Goals

Preparing cavity for Raman laser system





Current Work

• Photodiode readings on oscilloscope

