

Resonators (lectures 22-23)

After taking this course, students will be able to:

- understand the operation of planar and spherical mirror optical resonators.
- calculate the finesse, linewidth, and free-spectral range of lossy resonators. and understand physically what these quantities represent.
- appreciate the utility of optical resonators and what functions they can perform in various optical devices.

Polarization (lectures 24-25)

After taking this course, students will be able to:

- visualize the behavior of the electric field of an E&M wave as it propagates for various states of polarization.
- understand the Jones vector representation of polarization and how to model optical elements that transform polarization states with 2×2 matrices.