

Course ECE 520.482, Introduction to Lasers

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Problem : flat+spherical mirrors resonator

A resonator is comprised of two mirrors: one flat, and another -- spherical, with the radius of curvature R ; its axis of symmetry is normal to the flat mirror. The spacing between the mirrors is L ; assume refractive index ~ 1 . Find the size (radius) of the laser beam with a wavelength λ at both the mirrors, using diffraction theory of Gaussian beams found in the class notes <http://striky.ece.jhu.edu/~sasha/COURSES/Gauss.diff.pdf>