

# Optics

## Faraday Effect

**Problem 1.-** In the Faraday Effect, why would it be advantageous to make the light beam go back and forth through the medium. [You could do this with carefully aligned mirrors]

**Solution:** To build up more rotation you can make the light beam go back and forth through the medium with carefully aligned mirrors. This is a good idea since it is difficult to increase  $B$  beyond 1T.