

# Measurement of physical properties of materials using optical properties

Department of Materials  
Science and Engineering

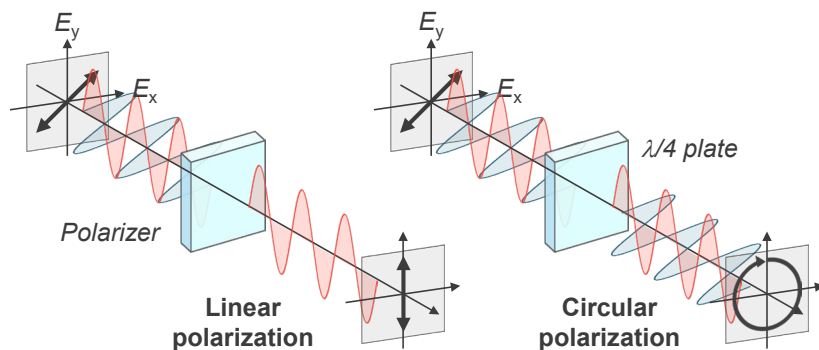
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## Abstract:

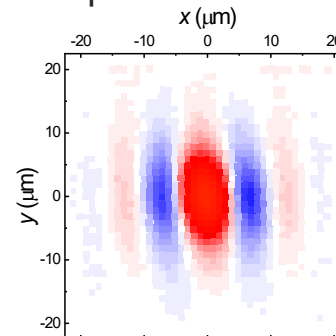
Light is essential in modern society, used for applications other than illumination, such as optical communications, laser therapy, and photovoltaics. In addition to its color characteristics, light possesses various other properties. These properties can be used to measure various properties of matter. In this course, we will investigate the properties of light and apply them to evaluate the physical characteristics of materials.

## ◆ Polarization of light



## ◆ Evaluation results of physical properties using light

### ▪ Spin distribution



### ▪ Defect distribution

