#### Experiment # 5: Thin Lens

#### OBJECTIVE:

To verify the thin lens equation and the magnification equation for a thin lens.

#### INTRODUCTION:

The position and size of the image formed by a thin lens is related to the position and size of the object by the following two equations:

$$1/p + 1/q = 1/f$$
  $m = y_i / y_o = -q / p$ 

where: p = distance from object to lens q = distance from image to lens y<sub>ii</sub> = object height y<sub>i</sub> = image height

The following sign conventions are used:

positive p = real object	negative p = virtual object
positive q = real image	negative q = virtual image
positive f = converging lens	negative f = diverging lens
positive y <sub>i</sub> = upright image	negative y <sub>i</sub> = inverted image

Note: A negative magnification (for instance if p and q are both positive) means that the image is inverted with respect to the object.

#### PROCEDURE:

1) Choose one of the <u>converging lens</u> from the set. Select a lens yellow-blue<sup>1</sup>. Find the focal length of the lens by focusing the image of a distant object on a white card (e.g. Daytime: the trees outside the window or the tower on H building; Nighttime: an ceiling lamp in the corridor outside the lab). Repeat the measurement at least three times and calculate the average and mean deviation.

2) Set up the object (illuminated box) on the optical bench. Mount the lens and the screen on the bench; lens in between the object and the screen. Fix the distance lens-screen to 50.0 cm. Make sure that all three are vertical and perpendicular to the bench axis. Start with the object as far as possible from the lens. Move it close to the lens until a sharp image of the object is projected on the card. Measure the object distance with a meter stick and estimate the uncertainty of this measurement. Move the object back and forth to find the location of the sharpest image. Use a meter stick to measure the object distance. Move the card back and forth again to locate the sharpest image and measure

<sup>1</sup> Do not use either the red-yellow lens or the red-blue lens.

# **Physics 203 General Physics Waves Optics And Modern**

Mahāwitthayālai Chīang Mai

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Chiang Mai University - Bulletin Mahāwitthayālai Chīang Mai,1999 **Bulletin** Mahāwitthayālai Chīang Mai,1997 Catalog Kennesaw College, 1976 Record ... Catalog ... Announcements Clemson Agricultural College of South Catalogue Florida State College for Women, 1976 Carolina.1970 Bulletin Aurora College, 1970 Annual Catalogue Massachusetts Institute of Technology, 1929 **The University of Virginia Record** University of Virginia, 2007 Hearings, Reports and Prints of the Senate Committee on Labor and Public Welfare United States. Congress. Senate. Committee on Labor and Public Welfare. 1967 General Undergraduate Catalog Marshall University, 1969 General Catalog Orta Doğu Teknik Üniversitesi (Ankara, Turkey),2002 **Hearings** United States. Congress. Senate. Committee on Labor and Public Welfare, 1967 **Announcement** Douglass College,1961 **Annual Report** University of Ghana.2008 Education Legislation, 1967, Hearings Before the Subcommittee on Education United States. Congress. Senate. Committee on Labor and Public Welfare, 1967 University of Nebraska-Lincoln, Catalog: GRADUATE. University of Nebraska--Lincoln. Graduate College/Graduate Studies, 1971 **Education Legislation, 1967** United States. Congress. Senate. Committee on Labor and Public Welfare. Subcommittee on Education, 1967 General Catalogue Massachusetts Announcements University of Nebraska (Lincoln campus). College of Engineering, 1965 Institute of Technology, 1932 **Annual Report** Punjab Agricultural University, 1974

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