

## (eo211) 3. Laser Alignment

Translation by J D White

### 1. Purpose

- To make use of apertures in order to align a laser beam parallel to the table.
- Calculations are easier and images are clearer if only use paraxial rays. In preparation for future experiments, we will learn how to make use of apertures to narrow the beam.

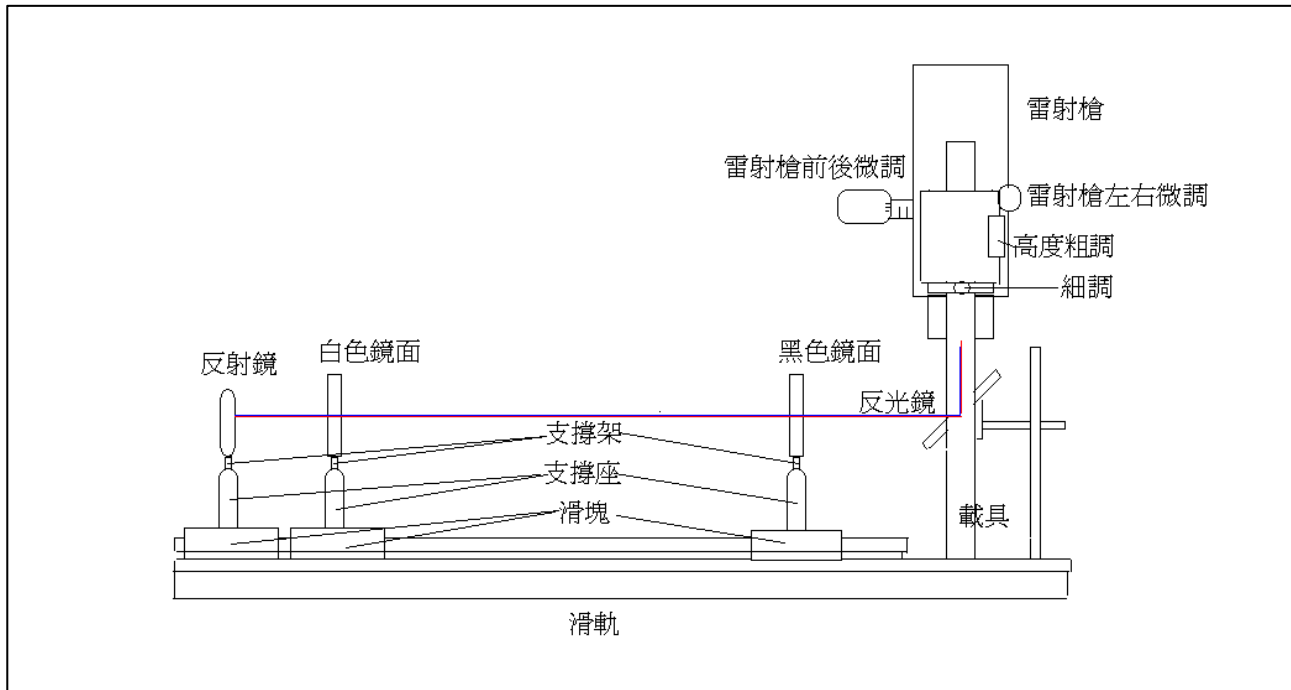
### 2. Experimental Introduction

- Learn to use some basic optical equipment
- To understand the usage of apertures in an optical system
- To know the procedure for collimation of a laser beam
- Learn different ways of collimating a laser beam

### 3. Equipment

- Optical Rail and Laser with 45 degree mirror,
- Two (2) apertures (with supporting hardware),
- One  $\phi=2''$  mirror (with supporting hardware)

### 4. Procedure



### 5. After Class Activity (課後題目)

- If the experiment had only one fixed aperture, and no mirror, how to collimate?