

Practical Session 1, 10th November 2005

Name of Student :

Safety advice : never look directly into a laser beam ! Do not remove the laser from its holder or stand. Do not place reflective objects such as watches or jewellery in the path of the laser beam.

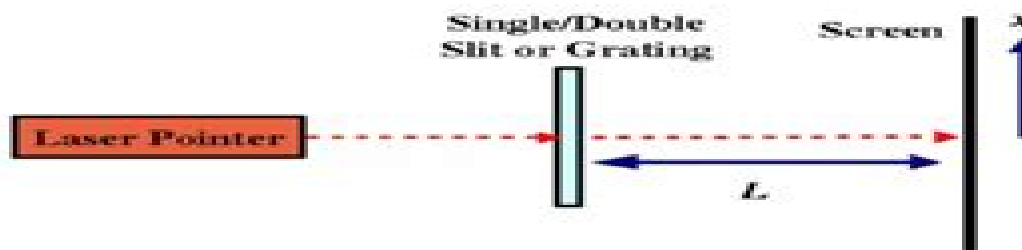
Ask a demonstrator if you are unsure how to use the apparatus.

Hand in answers to Dr. Waters at the end of the session.

1. Double Slit Experiment

Principle :

Light from the laser diffracts at the two slits, which then act as coherent light sources. Interference from the two sources results in a series of bright fringes (constructive interference) and dark fringes (destructive interference) on the screen.



Apparatus :

Procedure :

(1) Place a slide containing a single slit in the path of the laser beam.

Q1 Sketch the single slit intensity pattern observed on the screen.

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