

Name

TITLE OF EXPERIMENT

THE FARADAY EFFECT: EXPERIMENT No 8

MODERN PHYSICS LAB

PHYS 393 COURSEWORK

REPORTING SHEET

PART A: SCIENTIFIC KNOWLEDGE AND PLANNING

Aim:

Method – what I am going to do in order to achieve my aim

A. List the equipment you plan to use

B. Draw your set up, explaining the use of the different components.

Explain the origin of the Faraday Effect.

Discuss the idea of Larmor precession within the above context.

What relationship you expect to get between the rotation ϕ of the polarisation plane and the magnetic field B	
What relationship you expect to get between Verdet's constant V and the wavelength λ .	
Which factors you suggest should be controlled in order to make sure that your results are accurate and reliable?	

PART B: OBTAINING EVIDENCE	
<p>Your data. Use the correct units and convert appropriately.</p>	

PART C: ANALYSING AND CONSIDERING YOUR EVIDENCE

Graph (use graph paper)

Calculations

My evidence leads to the following result.

Compare your results with theoretical values.

PART D: EVALUATION [10 MARKS]	
What was good or bad about the experiment you did was ...	2
Some ways you could improve the experiment were...	2
You had the following anomalies.	2
The explanation for your anomalies was	2
You believe my evidence is reliable/unreliable for the following reasons.	2