



Statement of Intent

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Experiment: CCDs and Spectroscopy

Date: 04/10/22

The Statement of Intent should address the following four points about the experiment you are about to undertake:

1. What is the aim of the experiment?
2. What measurements will be made and how?
3. How will the final result be obtained from the experimental data?
4. What are the main safety concerns with the experiment and precautions that should be taken?

The statement should be reviewed by a member of staff before you begin the experiment.

1. The aim of the experiment is to familiarise the student with the function of a CCD for spectroscopy. This is done by comparing the spectrum of an arc lamp to reference values.
2. Measure the readnoise and gain for the CCD.
Measure the spectrum of the arc lamp to calibrate the spectrograph.
3. The arc lamp spectrum will be plotted and compared to known reference wavelengths.
4. Working with electronics and delicate equipment so care and precision is needed.