

# Experiment 20

## I. Purpose

Measure the maximum wavelength of the visible spectra of stars. Compare with black body,  $W_{\lambda}$ , and the Wien displacement law.

## II. Principle

### A. The decomposition of star light

1. Star light as seen through a spectrograph is dispersed by using the grating. Since  $\sin i = \sin \theta \sin \alpha$ ,  $\sin \theta = \frac{\lambda}{d} \sin \alpha$  and  $\sin \alpha = \frac{d}{\lambda} \sin \theta$ .

2. The spectrum of star light is dispersed. The dispersion of the spectrograph is defined as  $\frac{d\theta}{d\lambda}$ . It is given by  $\frac{d\theta}{d\lambda} = \frac{1}{d} \cos \alpha$ . Since  $\sin \alpha = \frac{d}{\lambda} \sin \theta$ , the dispersion is constant. The dispersion from the grating is given by  $\frac{d\theta}{d\lambda} = \frac{1}{d} \cos \alpha$ .

3. The star light is dispersed by the grating. It is given by  $\frac{d\theta}{d\lambda} = \frac{1}{d} \cos \alpha$ .

4. Since the star light is dispersed by the grating, it is given by  $\frac{d\theta}{d\lambda} = \frac{1}{d} \cos \alpha$ .

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# Chm1046l Manual With Answers

**Didier Musso**



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