

## Zeeman Effect in Mercury Green Line

### 1 Goal

The goal of the experiment is to measure the Zeeman splitting of the green line of mercury, in a direction perpendicular to the applied magnetic field. From the data, plot  $\Delta\bar{\nu}$  vs.  $B$ , and compare with prediction (on the same graph.) The experimental apparatus is similar to that given in Melissinos. See Figure 7.29 on page 327.