

SPINS Lab 4

Do the following for both the spin-1/2 and spin-1 cases.

1. Design an experiment to study the effect of the magnetic field on the spin of the atoms.
2. Perform the experiment and record your results.
3. From your measurements, develop an hypothesis about the effect of the magnetic field.
4. Design a simple experiment that will conclusively confirm your hypothesis.
5. Determine the relevant scale and units of the number used to characterize the magnetic field.