

## ELECTRON PROBABILITY LAB

The position of an electron in an atom at a given moment cannot be predicted. The region of space in which the electron can probably be found is called an **orbital**. Orbitals are often referred to as "**electron clouds**" because they are not absolute. In fact, there are times when an electron may be found outside the orbital.

The ground state orbital of hydrogen is represented by a fuzzy sphere with the nucleus at the center. The denser areas of sphere represent areas where there is a greater **probability** of finding an electron. Since the electron in a hydrogen atom is in constant motion, it may be helpful to compare the electron cloud to spinning fan blades. Even though there is a finite number of blades, they appear to fill the complete circle through which they turn. In the same manner, the single electron of a hydrogen atom appears to fill the entire electron cloud.

In this lab, you will use a felt-tip marker and a target to investigate the probability distribution of marks about a central point. This two-dimensional model will help you better understand the three-dimensional distribution of the electron in the ground state orbital of hydrogen.

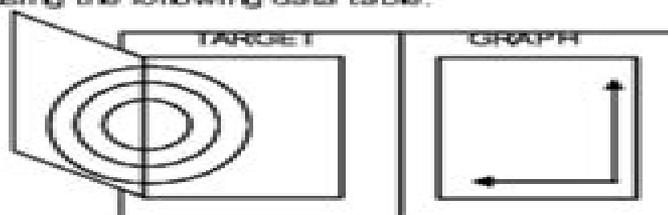
## PROCEDURE

1. Place your target on a notebook on the floor. The target should be flat. The notebook simply serves as a cushion.
2. Drop your marker from a height of about 1 meter onto the target so that it makes a mark. Aim for the center. Repeat this at least 100 times. (TIP: Do not throw the marker. Let the marker fall from a position that appears to be directly over the center of the target.)
3. Count the number of marks in each numbered region of the target and record the numbers in the data table. (TIP: Circle the marks with a pencil as you count them to avoid counting them twice.)
4. Return your marker. Clean any stray marks off the floor with a wet paper towel.

## DATA

1. Record your mark counts in your lab report using the following data table.

REGION	NUMBER OF MARKS
0	0
1	
2	
3	
4	
5	
6	



2. The team secretary should attach the target in his/her lab book as shown in the diagram above. Use tape or glue. Other team members need to state whose book contains the target.

# Electron Probability Lab Answers

**J Ma**



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