

Flinn ChemTopic" Labs: Atomic and Electron Structure

# Quantum Leap Lab

# **Probability and Electron Structure**

#### Introduction

The picture below illustrates a popular view of the electron structure of the atom—electron structure is strong to atom—electron softing the machina in finel paths. The picture is strong! It is improved by to know the precise function of an electron around the machina of an atom as any given time. The location of an electron can only be described in terms of the total probability of finding or electron widom a region of quare.



Boby Model of Asom

# Concepts

- Quartisms resolvantos.
- · Heirenberg uncertainty principle
- Electron energy levels
- Agreemic orbrigally

## Background

Throughout the years, significant progress has been made in our knowledge of the storm. Attorns were originally described as the smallest pertirely of matter. The discoveries, in turn, of the electron, the grotter and the reation destroyed the nation of the indivisible atom. Knowledge of the substantial particle makes up of the storm release new considerate where are the electronal In 1918, Niels Bobs developed a nowled for the hydrogen atom in which the electron was assured to move in definite orbits, called energy levels, about the atomic made a. The arms in a energy the electron possessed depended units distance from the made a with the outer electrons having the most energy. While Bobs's theory for the structure of the hydrogen atom was very successful, it folled to hold true for atoms with two or more electrons. Hence there was a resultion an inspected of electrons are stature.

The counters mechanical model, or counters mechanics, was developed as a way to describe the motion of small particles (electronal confined to they regions of space. The mast position of an electron at any given instant to not specified; nor is the mast path that the electron takes about the moders. The mast location of the electron at any given time can rever be known with containty. The Motorshy according principle states that there is a fundamental limitation to have precisely both the position

and the monocrature of an electron can be known. Quantum mechanics describes the probability of finding an electron within a given region of space. In other words, no longer should see think of definite orbits of electrons amond the models to the Bohr models. Rather, we should think of regions of quate, commonly called areas others an electron clouds, which represent the rooms probabile areas others an electron may be found depending on the amount of energy that the electron processes. The size and shape of storoic orbitals are derived from calculations that assume that the electron and or a more rather than as a particle.

### Experiment Overview

The purpose of this antivity is uninvestigate by analogy the relationship between probability and the electronic structure of an atom. A marble will be dropped repeatedly onto a builderaye target. The regions of space around the central builderaye will be defined, as shown on the target sheet threat 1-60. In each region, there will be a specific probability of becausing a spot resulting from the inspace of the marble drop. The activity will be carried out at two distances from the target to represent different energy levels. A small—scale vention of the target to represent in Picture 1.

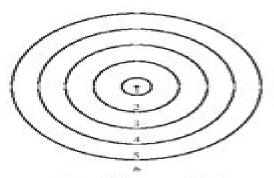


Figure 1. Target areas (1-6).

The pattern of spats on each target shows will be used to imagine the three-circorrainal properties of an atomic orbital. Thus, each spot will represent a point in three-circorrainal space around the bull-rege tandengous to the mathrod where the marble tanalogous to the resistant is capable of landing for most likely to be found. The region of space tanalogous to an atomic edited in which the marble has a high probability of landing will define the size and shape of the orbital.

# Flinn Chemtopic Labs Quantum Leap Answers

Scott C. Dulebohn

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