

Use my atom model to explain hypervalent molecule

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Abstract

My atom model is a two dimensional deterministic atom model. All electrons should form standing waves in the plane of atom to orbit around atomic nucleus. This atom model can well explain the structure of hypervalent molecule such as PCl_5 or SF_6 .

Main text

My atom model is a two dimensional model. In the nucleus, proton and neutron stand in a line alternatively. And, the atomic nucleus rotates. The electrons orbit around the atomic nucleus due to magnetic force. The magic number 2, 8, 8, 18, 18, 32, 32 can then be explained by using the concept of standing wave. In the inner most orbit, there are only one paired electrons to form a circular standing wave. In $n=2$ orbit, two opposite waves can form the $8+8$ standing waves. Thus, this can form a stable atomic structure.

By using my atom model, I can explain the hypervalent molecule. For example: PCl_5 . There are 5 electrons in the outermost orbit of P atom. And, there are 7 electrons in the outermost orbit of each Cl atom. Thus, each electron of P atom can donate to each Cl atom to let Cl to form a 8 electron standing wave. Thus, PCl_5 structure is stably made. This same principle can apply to SF_6 . Thus, hypervalent structure problems are solved.