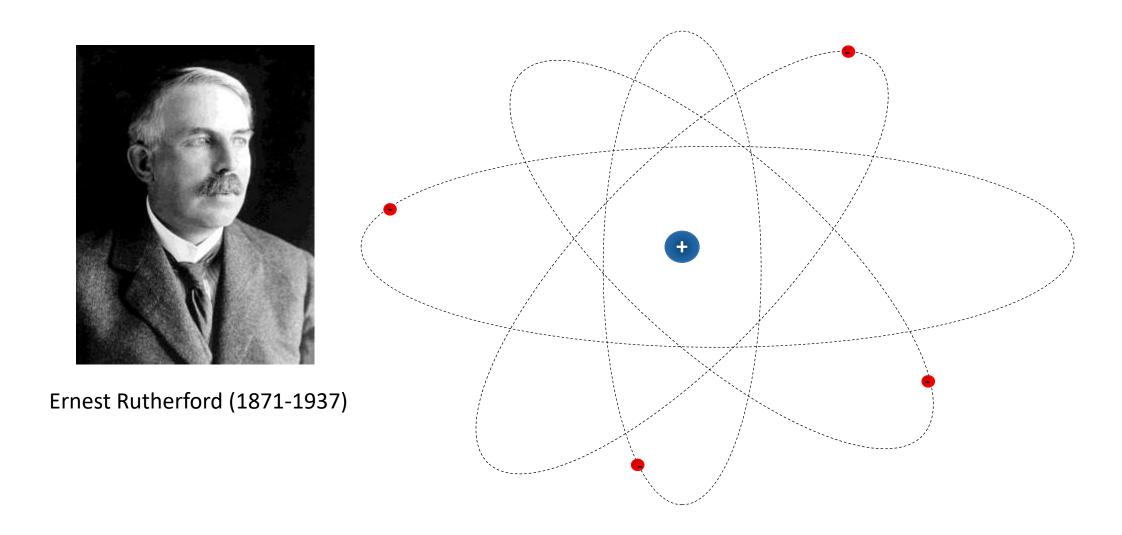
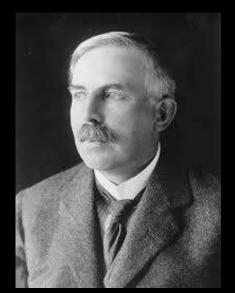
### Rutherford's Atomic Model



# Rutherford's Gold Foil Experiment:

(Geiger-Marsden Experiment)

**Ernest Rutherford** 



Hans Geiger

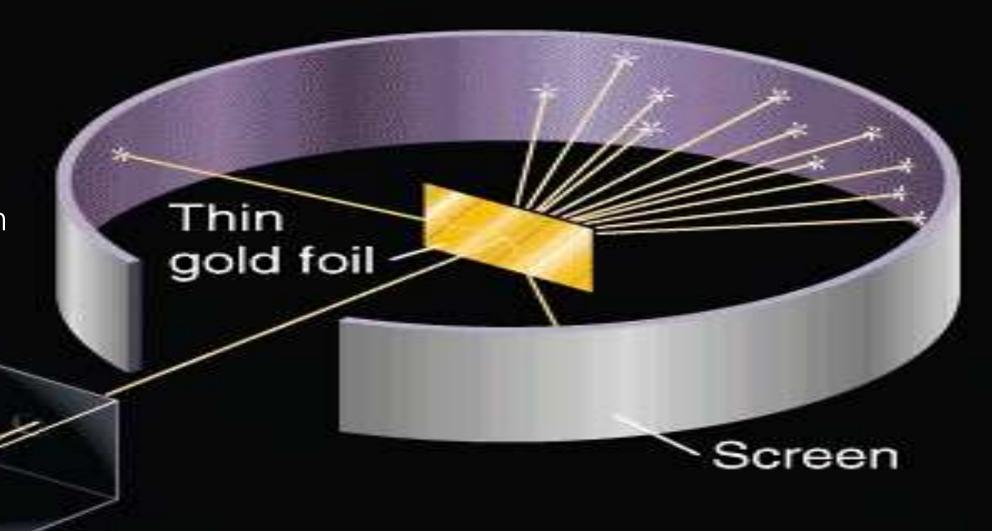


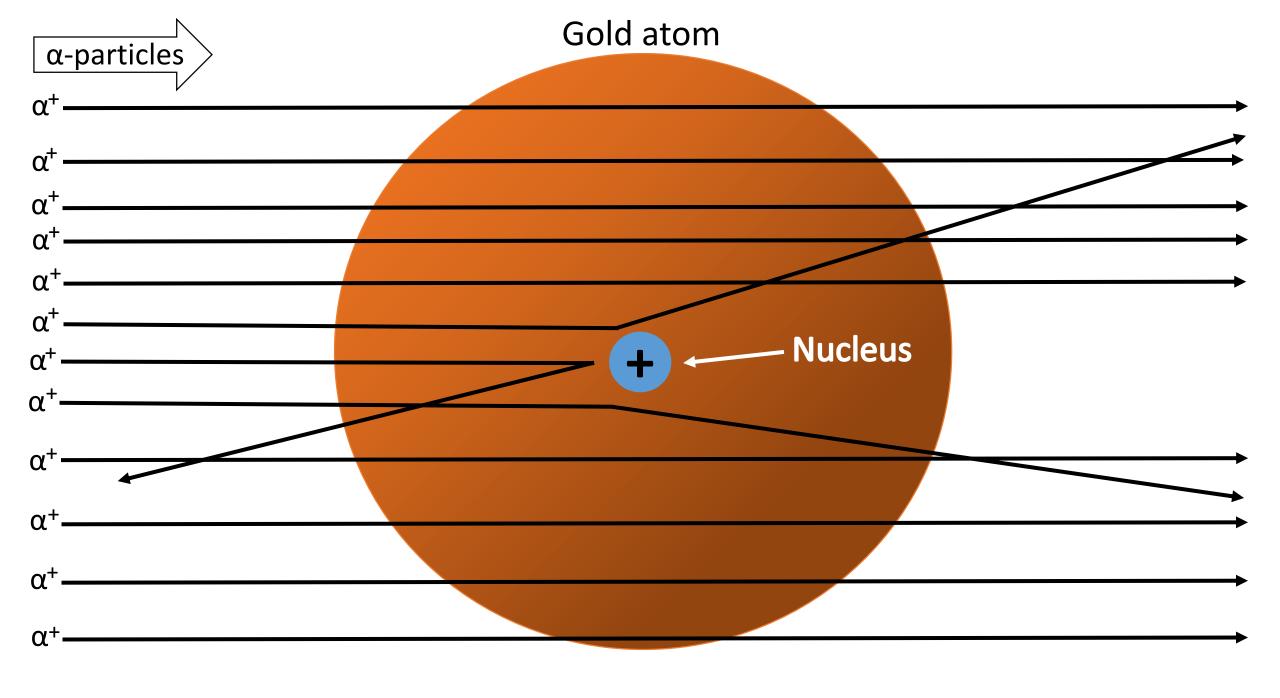
Ernest Marsden



Rutherford's Gold Foil Experiment:

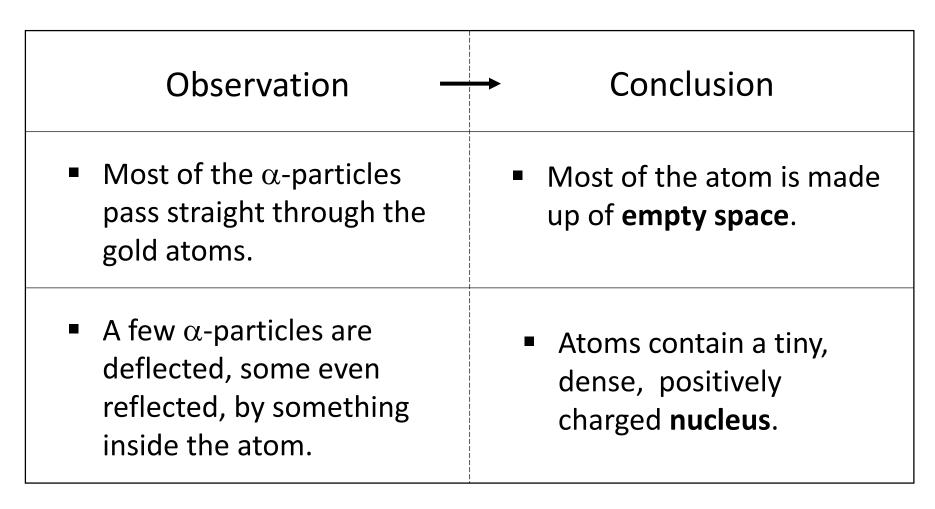
(Geiger-Marsden Experiment)

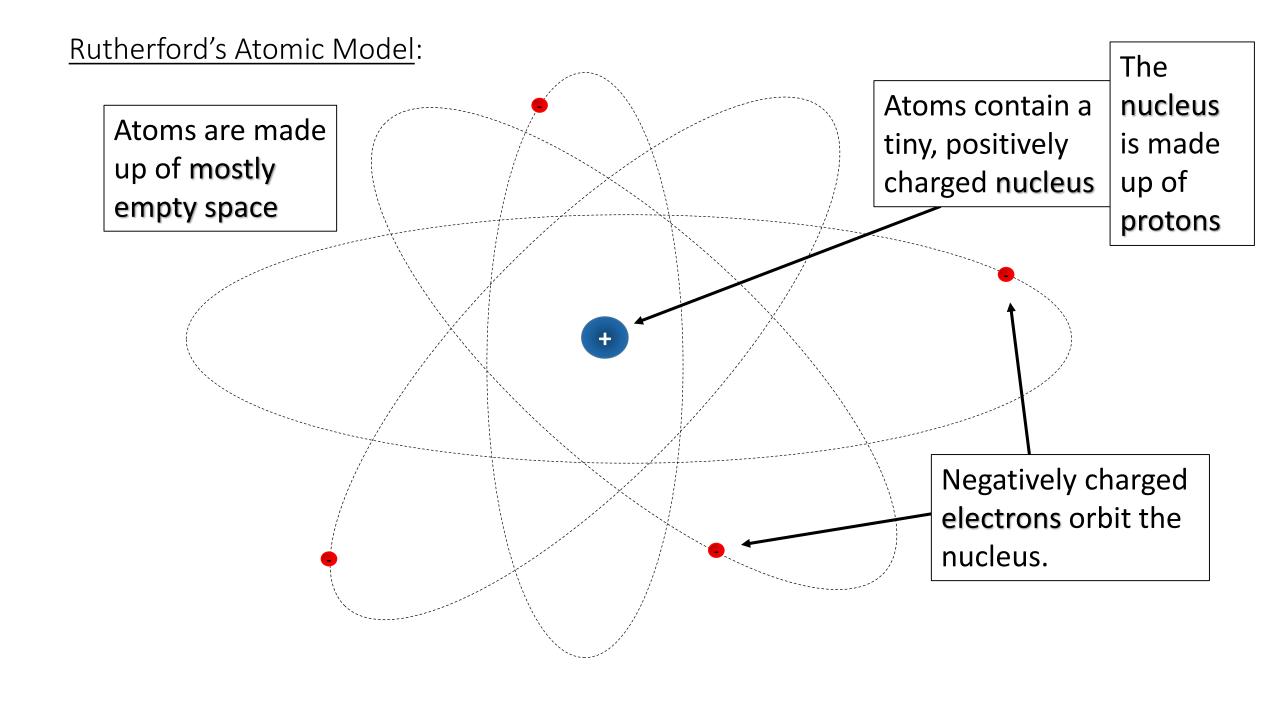




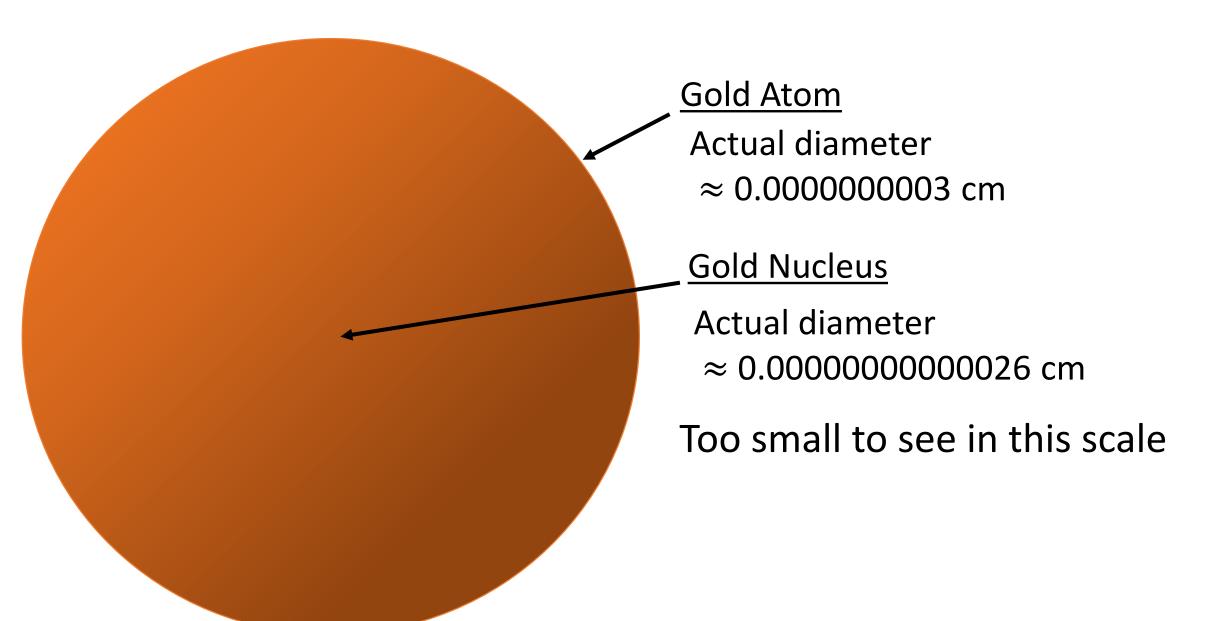
#### Rutherford's Gold Foil Experiment

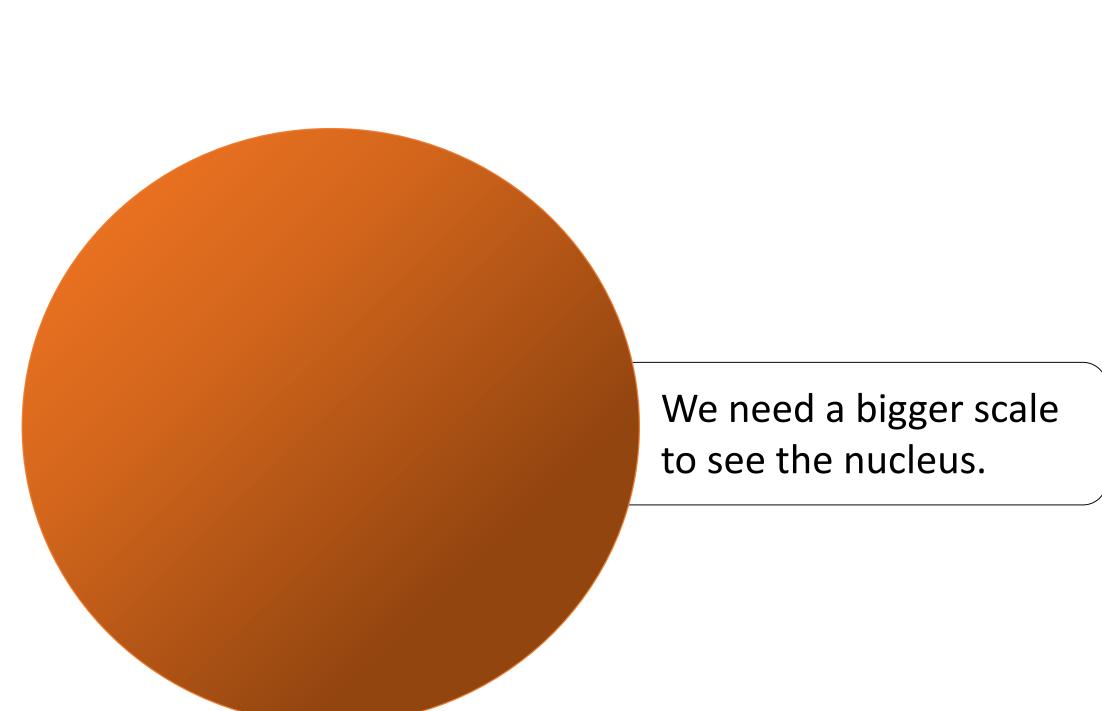
 $\triangleright$  Alpha ( $\alpha$ ) particles are fired into gold atoms

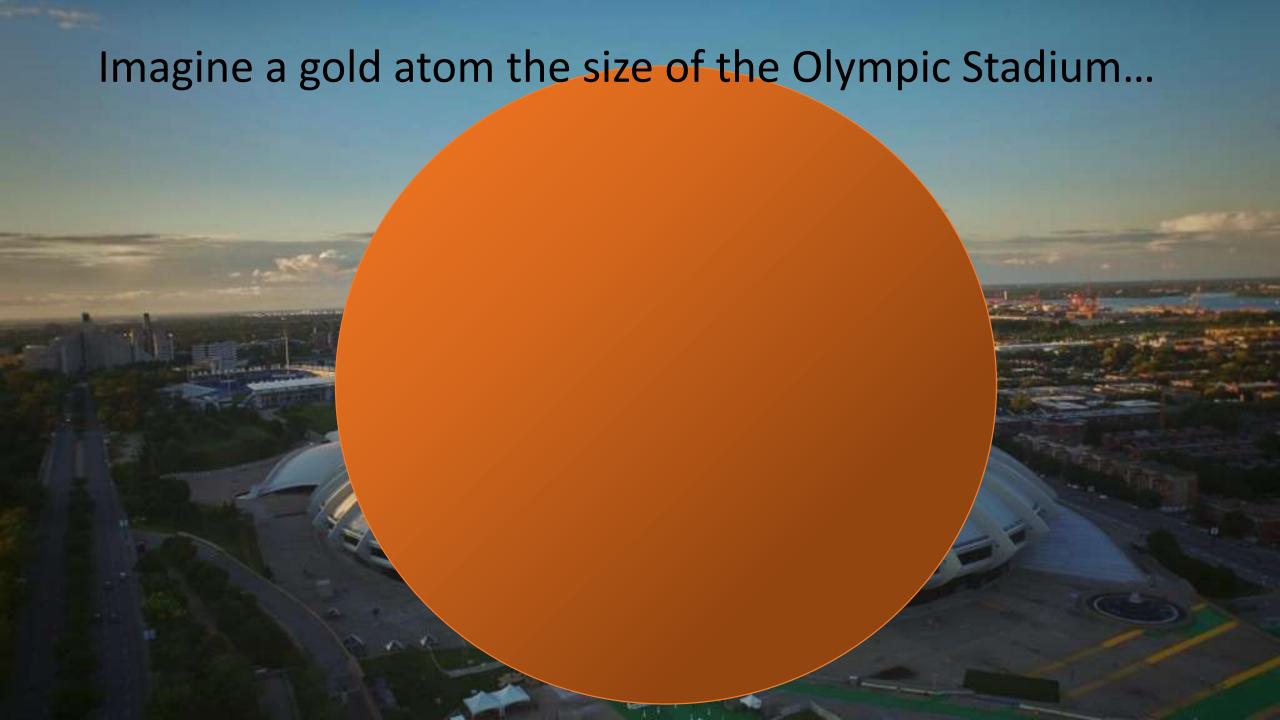


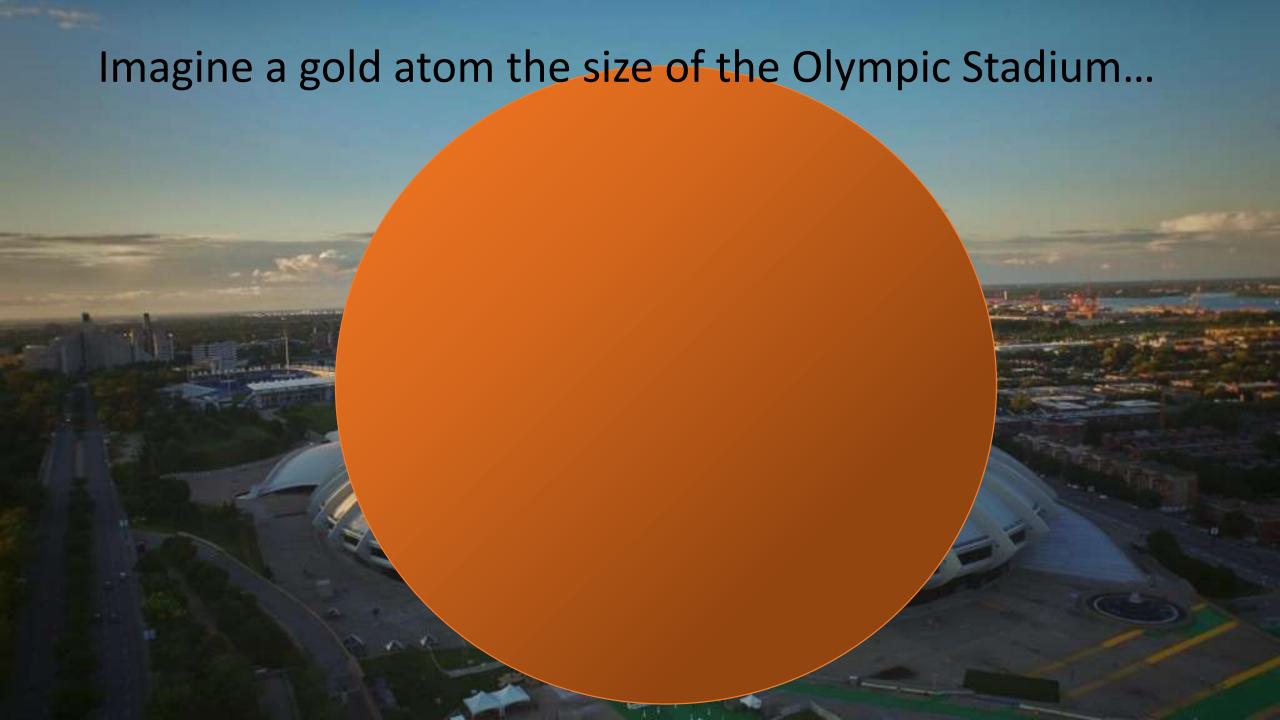


## Imagine a gold atom the size of this circle...









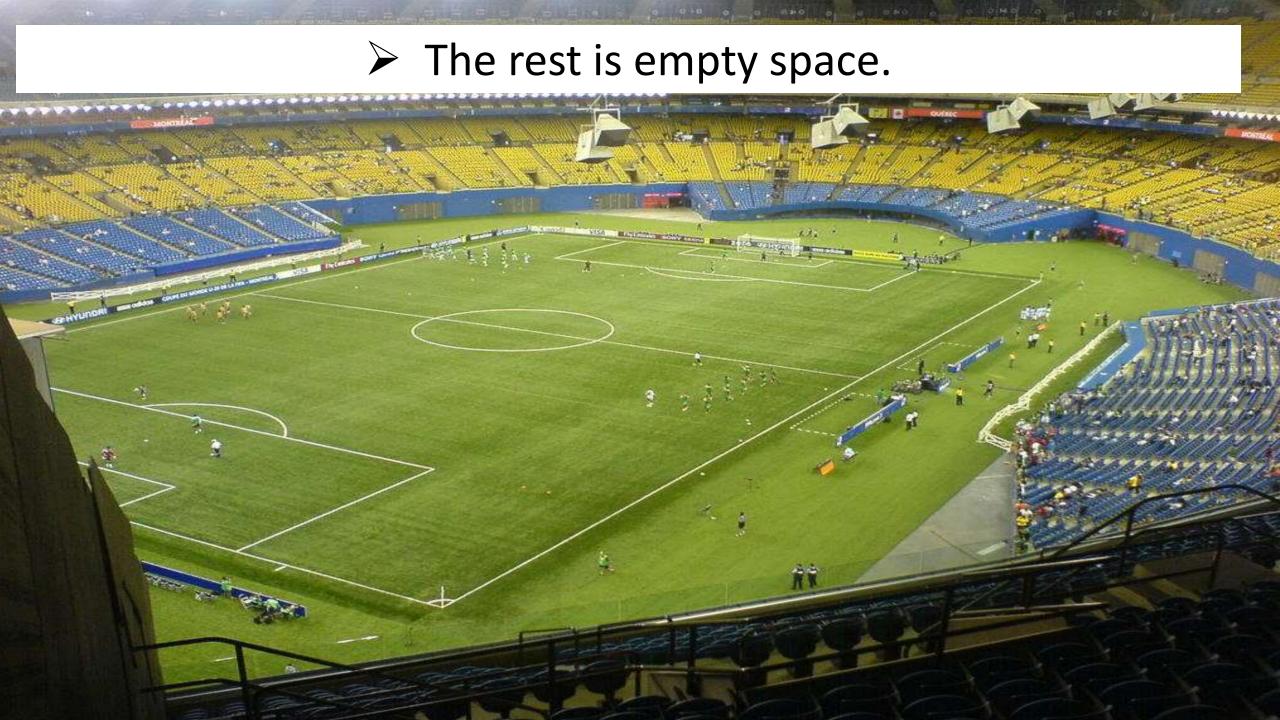


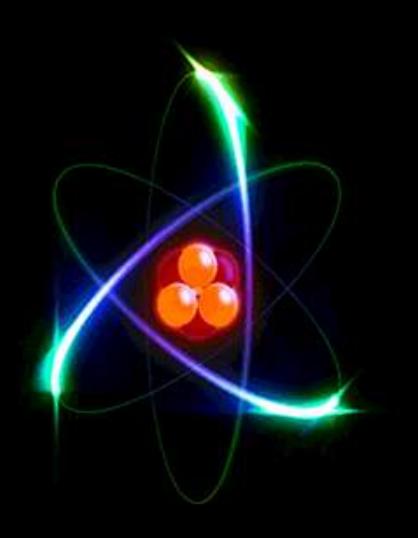
The nucleus would be about the size of a small fly in the middle of the Olympic Stadium.



> The electrons would be some specks of dust in the stands.







## Never trust an atom ...

... they make up everything.