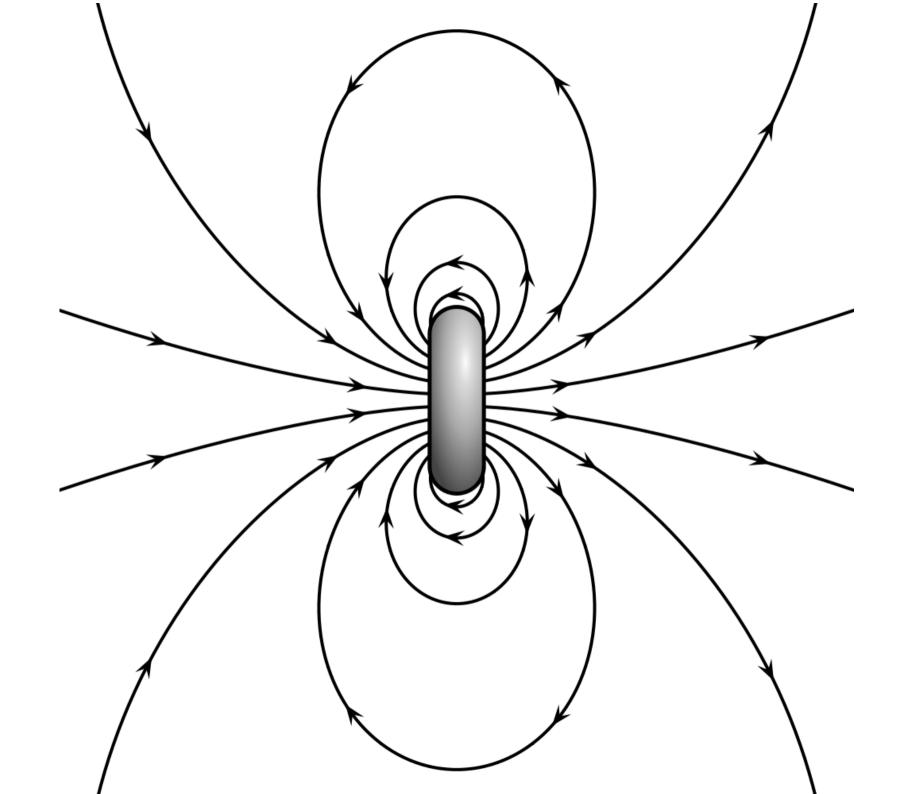
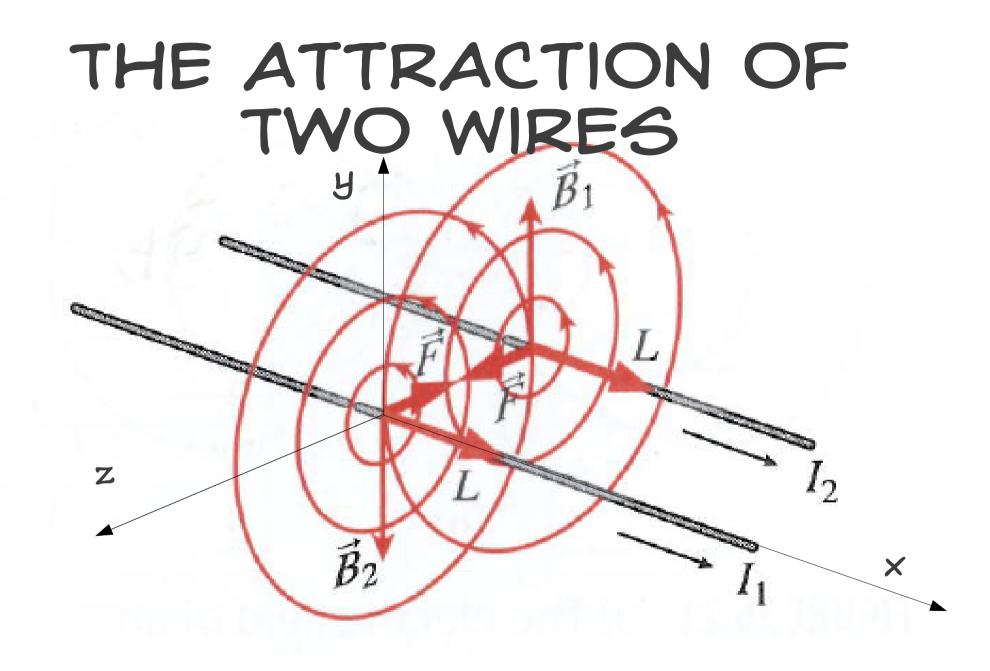
MAGNETIC FORCE BETWEEN CURRENTS

Guest Lecture: Farley Ferrante 3/29/2011 Supplementary Material for PHY1308 (General Physics -Electricity and Magnetism)

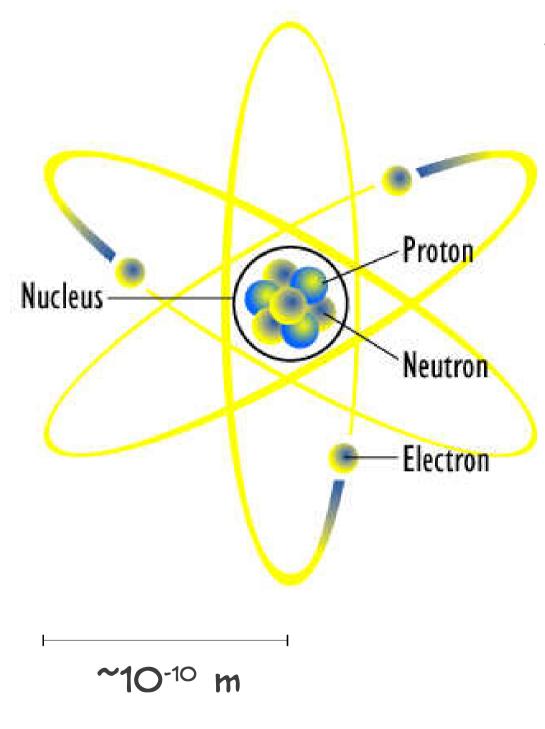
ANNOLINCEMENTS

- Homework 8:
 - Available today from the instructor by e-mail
- Next Quiz
 - Thursday, beginning of class
 - Covers Homework 7





http://www.youtube.com/watch?v=43AeuDvWcOk



Bohr Model of the Atom (not to scale!)

- Introduced in 1913.
- Very successful at explaining atomic properties.
- Replaced by full quantum mechanical model in 19205.

- Treat the atom like a
- "planetary system" electrons in orbit around nucleus, maintained by electric force.

TERRESTRIAL MAGNETISM



Refrigerator magnets: ~0.01 T

Rare earth magnets: ~0.5-1.0 T

So, the scale of terrestrial magnetism is about 1 T.