Announcements

- Homework 7:
  - Due Tuesday by 9:30am
- Next week
  - I am traveling for LHC-related work
  - Mr. Ferrante will cover the lectures and administer the Thursday quiz
  - Extra office hours tomorrow, 10-noon (Hughes-Trigg)
TERRESTRIAL MAGNETISM

Refrigerator magnets: 
~100G (~0.01T)

Rare earth magnets: 
~0.5-1.0T

So, the scale of terrestrial magnetism is about 1T.
HANS CHRISTIAN OERSTED
1777-1851

Danish physicist and chemist.

Observed in 1819 that an electric current caused a compass needle to deflect. This observation caused quite a stir. Electricity and magnetism were related phenomena.
Magnetic field from an infinite line of current.
Bohr Model of the Atom (not to scale!)

- Introduced in 1913.
- Very successful at explaining atomic properties.
- Replaced by full quantum mechanical model in 1920s.

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