MAGNETIC FORCE

Prof. Stephen Sekula 3/22/2011 Supplementary Material for PHY1308 (General Physics -Electricity and Magnetism)

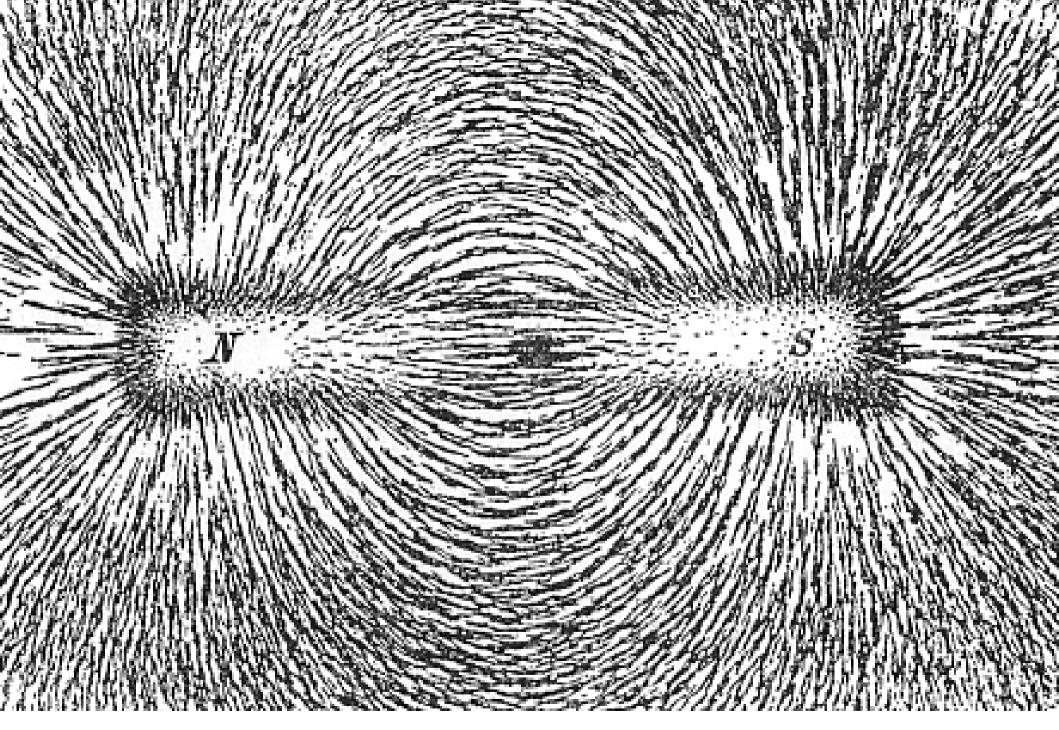
ANNOLINCEMENTS

• Homework 7:

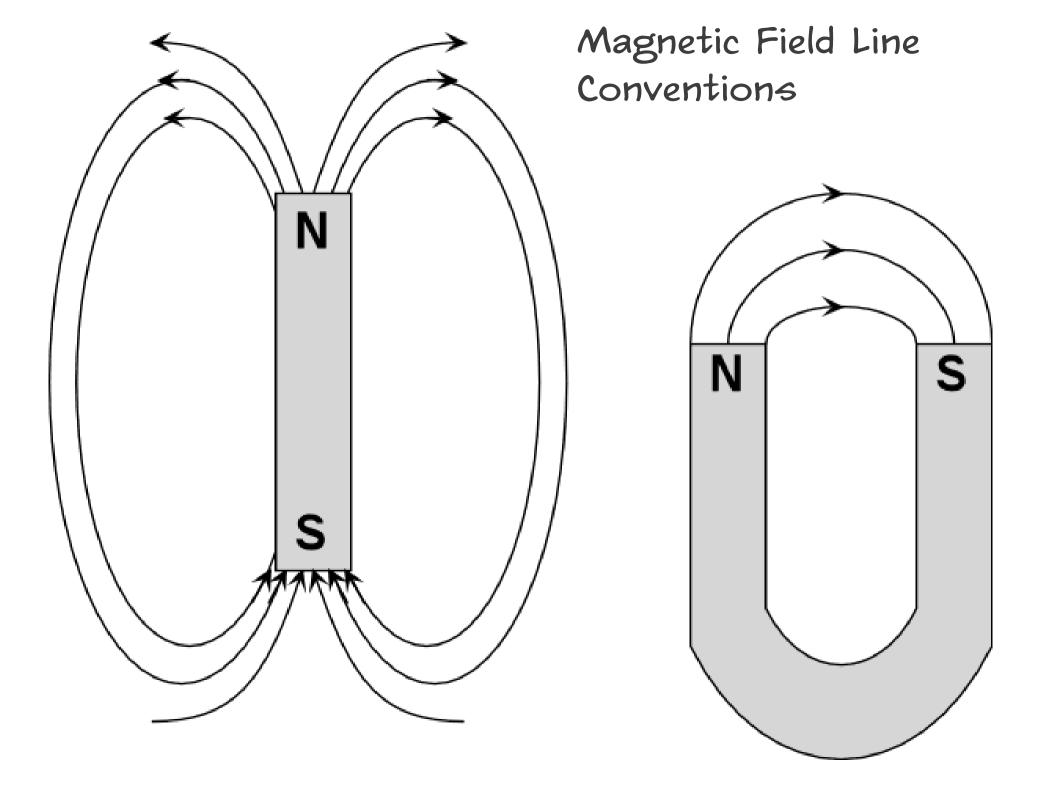
Available later today, due Tuesday by
 9:30am

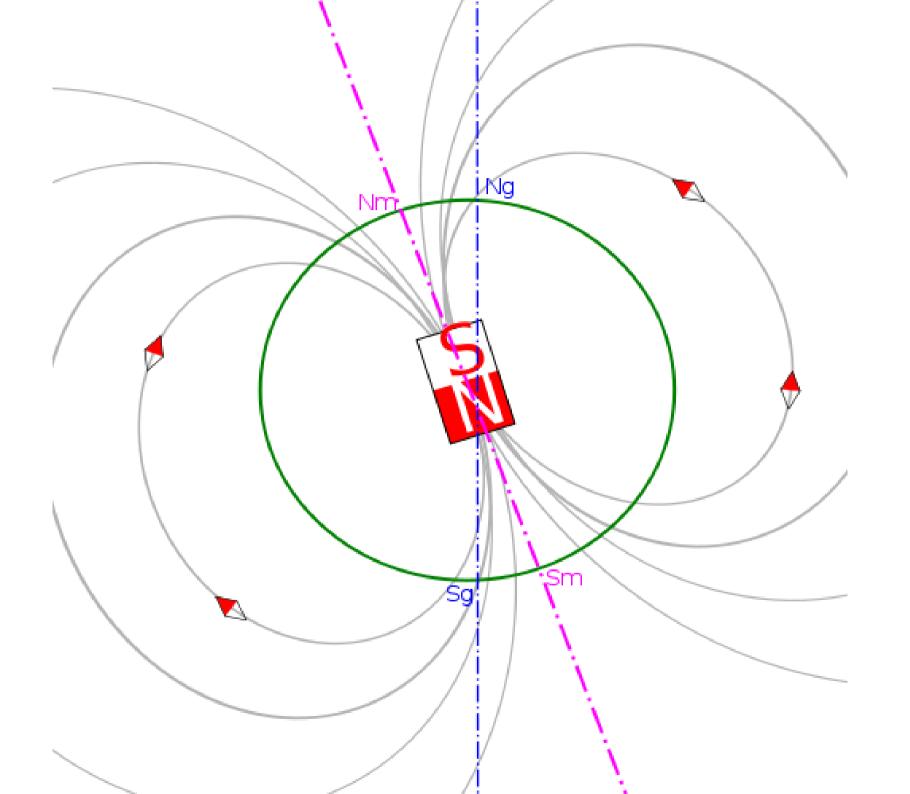
• Exam 2

- I want to review grades before handing them back
- · Will announce when they are available



Iron particles exposed to a bar magnet.





TERRESTRIAL MAGNETISM

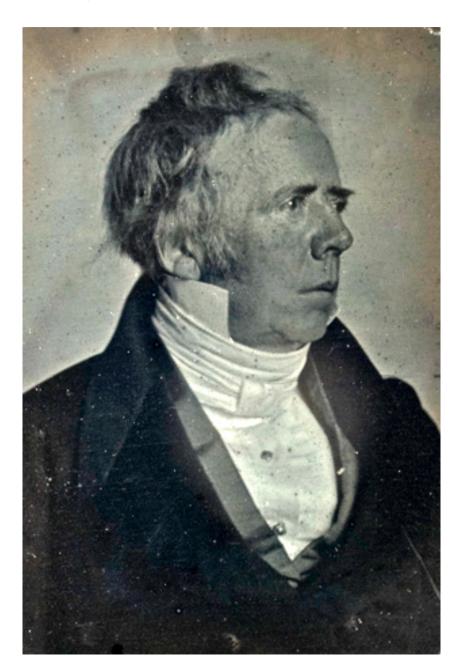


Refrigerator magnets: ~1006 (~0.01T)

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.



THE JUMPING WIRE