Private Reading, Fall 2024

Assignment 10

Reading: Griffiths chapter 9 on light ("Electrodynamic Waves").

Also $Notes\ on\ Electrodynamics\ chapter\ 5,\ "Electromagnetic Waves".$

Problems: Due Thursday, 14 November.

- Griffiths 7.2: Energy in capacitor discharge
- Griffiths 7.34: Charging a capacitor
- Griffiths 8.2: Energy in charging a capacitor
- Griffiths 7.63: Alfven's theorem

 This theorem is used frequently in plasma and solar physics. Honors exams have not infrequently included this problem.
- Griffiths 8.19: *Thomson's dipole*Can you produce any sort of qualitative argument to understand why this angular momentum should be independent of d?