

Prep guide – Monopole radiation

Big picture goal – Starting from first principles, derive the radiation fields that come from moving charge monopoles, and pull out some of the qualitative features of those fields.

1) Give me a one-sentence answer to the question “Where does electromagnetic radiation come from, classically?”

2) How, specifically, is the direction of radiative energy transport related to the direction of motion of the charge?

3) What’s the physical content of the Larmor formula?