

## Prep guide – Asymptotic potentials

Big picture goal – To derive a set of potentials that are accurate far from sources – these quite naturally describe most radiation fields.

1) What starting point do we use to obtain the asymptotic vector potential, and what major approximation do we invoke early on?

2) Where else in the derivations do we drop terms, and how do we justify that?

3) The sheet current example is packed full of little math tricks and bits of physics. Have a quick look at it, maybe paying special attention to the treatment of primed versus unprimed variables.