

3/27/17:

For the first week, I did the project problem of writing up the proposal, we had talked about what we were going to do.

Last week we talked more about what exactly we were going to do based on feedback from the first week, Sean wrote out that one.

This week, we shared the writing between the two of us, talked about how to narrow down what we are doing and how we are going to go about doing it between the two of us.

Overall, I think that we are doing about equal amount of the work for the project. To move forward we need to start actually coding, and determine conductor properties as a function of temperature, if there isn't an equation that can be used, we will then just pick a material to use and from that find experimental data on the electromagnetic properties of the material for specific temperature.

4/3/17:

This week I primarily started to set up the models via an ipython notebook figuring out how to create vector field in two regions, which I accomplished. This week we will work towards getting out mathematics in the model and see if it's as we would expect. Sean and I both considered the mathematics a bit already and we will see if when modeled it is as we expect. I'll consider a PDE solver using python's scipy package, why re-invent the wheel, so we can get that going. Overall, we are both communicating with one another so work-load is balancing out. We will consider your feedback from last week moving forward.

4/10/17:

This week didn't go as well as I would have liked, we talked about how we want to have the poser laid-out but I'm having trouble trying to get my vector field working. I'm trying to have a view looking down on our cylinder and the magnetic field is in the \hat{y} direction but I can't seem to get equations to work appropriately, mainly I'm trying to get the magnetic field induced by the surface current of the cylinder to affect the external magnetic field, so ill work on that more this week more.