WELCOME TO PHY 482 ELECTRODYNAMICS

Prof. Danny Caballero

IMPORTANT SITES

- Course Webpage: dannycab.github.io/phy482msu/
- Discussion Forum: piazza.com/msu/spring2017/phy482 (*Check your email*)

CONTACTING DANNY

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COURSE ACTIVITIES

- Projects (2 of them; Mar 3 & May 1) 20% each
- In-Class Quizzes (7 of them; Every other Friday; 1 dropped)
 20%
- Homework (14 of them; Due on Mondays; 1 dropped) -40%
- Clickers Extra Credit up to 5% bonus

Much more detail on website

Learning is a social and collaborative act!

HOMEWORK HELP SESSION

Evening session once per week (Location TBD)

Question to you: When should we do this?

- A. Wednesdays 4-5pm
- B. Wednesdays 5pm-6pm
- C. Thursdays 4pm-5pm
- D. Thursdays 5-6pm

Times restricted by classroom availability

Reminder: Homework is due on Mondays.

THIS WEEK!!!

- Homework 1 is already up (Due Jan. 16)
- Read (seriously do this!) Griffiths Ch 7.1.1-7.1.2 (Review? Chs 1-6)
- Download Anaconda distribution of Python

Stay up-to-date by checking website, calendar, and discussion forum regularly.

COMPUTATIONAL HOMEWORK PROBLEMS

- We will be using Python on homework problems this semester.
- Installation instructions appear on the piazza site.
- Homework solutions should take the form of a Jupyter notebook, which you can print to PDF and turn in.
- If you get stuck somewhere, post on piazza, so your classmates benefit from your question.

PROJECTS

INDIVIDUAL PROJECT (MAR. 3)

- Literature review of some interesting topic in E&M (3-4 pages)
- Homework questions will support you on this
 - See syllabus for sample questions
- Paper should be typed, inline references, bibiolography, etc.
- Evaluation rubric will be ready in a couple of weeks

PROJECTS

PAIR PROJECT (MAY 1)

- Poster presentation of an original contribution (theory and computation)
- Homework questions will support you on this
 - See syllabus for sample questions
- Can be something that has been done before that you just extend
- Evaluation rubric will be ready in a couple of weeks
- There will be a significant self-evaluation component to this also

WHAT DO YOU THINK PHY 482 IS ABOUT?

QUESTIONS?

ELECTROMAGNETISM IS THE FOUNDATIONAL FIELD THEORY OF PHYSICS

Think about everything you already know about electromagnetism (it's a lot already!).

Work with a partner to map out the electromagnetism concepts that you know and how they are related to each other.