# Assignments

1. **Combs, Spencer.** “2.2 Optimization of Cavity Design.”
2. **Fletcher, Ethan.** “2.12. Heavy Ion Storage Rings.”
3. **Garabito Ruiz, Luis.** “2.6 Basic design and engineering of normal-conducting, iron-dominated electromagnets”.
4. **Grake, Austin.** “2.10 Design of Cryogenics sub-systems”
5. **Huang, Xinfei.** “3.3 Hadron/Lepton/Electron-Ion colliders; Luminosity considerations.”
6. **Keener, Malachi.** “2.8 Thermionic and Photo-emission Electron Guns”.
7. **Martin, Charles.** ~~Proton and~~ “2.9 Heavy Ion sources (The Physics and Technology of Ion Source, I. G. Brown, New York)”
8. **Matthews, Holly.** “3.2 Fundamentals of free electron laser”
9. **Ratcliff, Christian.** “4.4 Self-consistent beam simulation methods with Particle In Cell codes.”
10. **Rickey, Brooke**. “4.3 Advanced concepts of beam accelerations”
11. **Sarabia Cardenas, Carlos.** “4.1 Beam cooling methods”
12. **Schulman, Paul.** “2.7 Eddy currents in accelerator magnets (Proceedings of CERN Particle Accelerator School, http://cds.cern.ch/record/1158462/files/cern-2010-004.pdf?version=1 )"
13. **Suzuki, Timothy.** “2.5 Diagnostic instruments of hadron accelerators”
14. **Yeung, Ryan.** “Compensating for accelerator performance drifts”, (<https://doi.org/10.1103/PhysRevAccelBeams.25.122801>).

**Evaluation:**

Content (50%)

Presentation (25%)

Response to questions (25%)