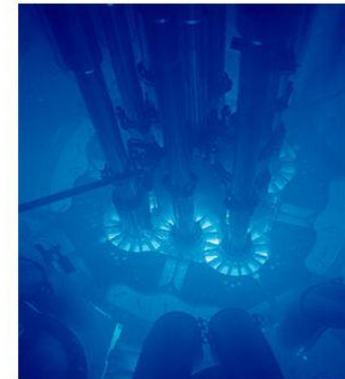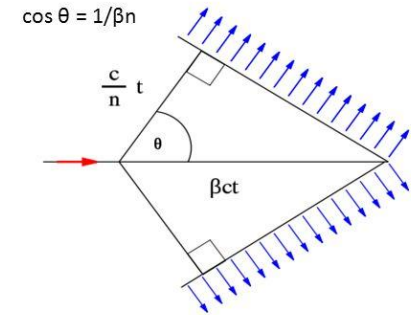# Nuclear Physics Group Meeting 5/31

Group and Research Topic

Jenna Lawson - Dr. Greg Kalicy - Imran Hossain

- Installed ROOT and worked through the ROOT Primer on the CERN Website

- Completed JLab Mandatory Trainings

- Meetings with Dr. Kalicy to discuss DIRC (Detection of Internally Reflected Cherenkov Light) technology

- Practiced calculating the Cherenkov Angle using varying particles and momenta in quartz

- Observed Imran running a simulation with standard configuration to view the event display

$$\cos \theta = 1/\beta n$$

- Continue reading about the basic properties of MA-PMT, MCP-PMT, and SiMP sensors

- Familiarize myself with GitHub and the code used in the simulations

- Run a sample simulation on my own and investigate the effects of varying simulation parameters

- Meetings with Dr. Kalicy to learn more about sensor technology and the implications in DIRC technology