

Jacob Mozdierz

University of Connecticut

RCNP Week 5 Report

On Monday of this week, we were able to take a tour of the J-PARC facility which was a wonderful experience. We were able to see and hear about many new technologies as well as see a new facility under the guidance of experts. Along with the J-PARC tour on Monday, some of the professors took us interns on a tour of Spring-8 on Friday. This tour was also a very good experience because there were many very cool pieces of technology and areas in which other companies were conducting different experiments which helped us see many various uses for using a particle accelerator.

On the other days this week, however, we spent lots of time setting up the start of our experiment in the H-course for next week. We started by moving tables and aligning areas on the ground to start placing our 3 NaI detectors and our Germanium detector. After we had moved each piece of equipment in alignment with the target and beam line, we were able to have early access to the Germanium detector. Because of this, we worked with Ideguchi-san to move the Germanium detector and liquid nitrogen tanks down to the H-course, fill them with liquid nitrogen, and place them in line with the target. This was very good news because it allowed us to take more time to set up and test each detector next week.

Our plan for next week is to set up each of the modules in their respective NIM crates, as well as to test each detector and ensure that they are working as intended. We still have yet to test the Ge detector's efficiency so we will have time to do that, as well as set up the MCA and use Ideguchi-san's program to attempt to convert the big endian binary files to our desired format for interpolation.