Fernando Hernandez 12/08/13 Transmission Systems

Field trip to Brookhaven National Laboratory (BNL)

On December 4th, 2013, I participated in a field trip sponsored by STEM – NYCCT program from the National Science Foundation. In this trip we when to Brookhaven National Laboratory located in Long Island NY. At the moment I arrived there I was amazed with all the advice equipment they have for scientific research. One of the most complex and amazing equipment I saw was the particle collider. This particle collider is a heavy ions accelerator. In this department along more than 1500 scientists work from many nationalities. One of the physicist was explaining how they carry out experiment, colliding atom of gold after taking out all the electrons. Then, this data obtained is analyzed in order to try to understand what happened in the Big Bag when the creation if the universe. Also, we went to a presentation where one of the instrumentation scientist was explaining how BNL is trying to develop the biggest camera in the world witch will be used to take pictures of distance galaxies. Based on what the speaker said, this camera will be eventually placed in deserted zone in Chile. It will be place there because the dry weather and the altitude of the terrain is suitable for this kind of job.