

Abstract Submitted
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Summer as a Student Teacher and Researcher Fellow at the Lawrence Livermore National Laboratory E.B.I.T. Facility¹ DOMINIQUE DAVENPORT, GRECIA RAMOS, HEATHER BROWN, Lawrence Livermore National Laboratory — We will briefly describe the STAR (Student Teacher and Researcher) program as well as the research we participated in as STAR Fellows at Lawrence Livermore National Lab E.B.I.T. facility. The STAR Program allows pre-service teachers to intern at research facilities while attending weekly courses to review teaching standards. The E.B.I.T. or Electron Beam Ion Trap, is an instrument that allows us to probe into electron transitions of complex highly charged ions by use of a mono-energetic beam of electrons. X-rays are emitted from the electron excitations in these highly charged ions and can be detected by an assortment of X-ray spectrometers. Over the summer, we were able to characterize a High Resolution Spherically Bent Crystal Spectrometer for use at the Atomic Weapons Establishment and measure transition energies of highly charged Aluminum ions for the planned Astro-H mission.

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