High-Efficiency Klystron with Post Acceleration Progress Report

Q2 FY19

Completion of the administrative activities started in Q1 was the main focus of the project during this reporting period. These include:

- The VSIM modeling tool (from Tech-X) was received and installed.
- The contract for the University of Maryland collaborator was established. The PI made a site visit to the University of Maryland to verify that their experimental space and equipment will meet the project's needs.
- Professor Heather Song from U Colorado, Denver, successfully received an award from the DOE/SC Visiting Faculty Program to work with us during the summer of 2019.
- The University of Michigan student, Anna Cooleybeck, will start employment at Los Alamos on May 6 to work with us this summer to perform numerical scoping simulations under the guidance of the PI and in collaboration with Professor Song. This is a good connection since the nonlinear bunching theory was initially developed by her U. Michigan mentor, Prof. Y. Y. Lau.
- The original simulations used in the proposal were reproduced in preparation for Ms. Cooleybeck's arrival.