Department of Energy, Office of Science, Office of High Energy Physics

Awards from FY 2018 Research Opportunities in Accelerator Stewardship FOA and LAB

Title	PI	Institution	Location
3D High Speed RF Beam Scanner for Hadron Therapy of Cancer	Nanni, Emilio	SLAC National Accelerator Laboratory	Menlo Park, CA
Development of Scanning Magnets to Enable Compact Superconducting Carbon-beam	Mustapha, Brahim	Argonne National Laboratory (ANL)	Lemont, IL
Fully Achromatic Superconducting Magnet Designs for Proton Therapy Gantries	Prestemon, Soren	Lawrence Berkeley National Laboratory (LBNL)	Berkeley, CA
High-Average-Power (HAP) Thermal Management for Ultrafast Lasers	Zuegel, Jonathan	University of Rochester	Rochester, NY
SCALING OF ACTIVE CONTROL OF LASER BEAM QUALITY AND CONTRAST FOR HIGH REP RATE LASER DRIVEN ACCELERATORS	Krushelnick, Karl	Regents of the University of Michigan	Ann Arbor, MI
Development of a High-efficiency and High-power Magnetron RF Source for Accelerators	Rimmer, Robert	Thomas Jefferson National Accelerator Facility (TJNAF)	Newport News, VA
High-Efficiency Klystron with Post Acceleration	Carlsten, Bruce	Los Alamos National Laboratory (LANL)	Los Alamos, NM
6-D Analysis of Nonlinear Dynamics Using Square Matrix Method	Hao, Yue	Michigan State University	East Lansing, MI
Research in Advanced Artificial Intelligence Techniques for Modern Accelerator Control	Biedron, Sandra	University of New Mexico	Albuquerque, NM
Ion Channel Laser Based on Direct Laser Acceleration of a Shaped Beam Driver	Shvets, Gennady	Cornell University	Ithaca, NY
Controlled Injection of Electrons for Improved Performance of Laser-Wakefield Acceleration	Umstadter, Donald	The Board of Regents, University of Nebraska for the University of Nebraska-Lincoln	Lincoln, NE
Preliminary Investigation of Novel Superconductors for Complex Cavity Geometries	Delayen, Jean	Old Dominion University Research Foundation	Norfolk, VA