

Department of Energy, Office of Science, Office of High Energy Physics
Awards from FY 2020 Research Opportunities in Accelerator Stewardship FOA and LAB

Title	PI	Institution	Location
High-Temperature Superconducting Magnets for Achromatic Proton Therapy Gantries	Brouwer, Lucas	Lawrence Berkeley National Laboratory (LBNL), Berkeley, CA	Berkeley, CA
Novel, Middle and Long Wave Infrared Laser Sources For Accelerator Applications	Mirov, Sergey	University of Alabama Birmingham, Birmingham, AL	Birmingham, AL
A Novel Coherent Combining Approach Towards High Peak and High Average Power Ultrafast Lasers Phase III	Geddes, Cameron	Lawrence Berkeley National Laboratory (LBNL), Berkeley, CA	Berkeley, CA
Development of a Scalable, 1.3 GHz High Efficiency IOT for High Average Power Accelerators	Weatherford, Brandon	SLAC National Accelerator Laboratory, Menlo Park, CA	Menlo Park, CA
Normal Conducting RF Linac with Optimal Phase Advance to Generae CW, 1 MeV, 1 MW, Electron Beams for Industrial Applications	Shumail, Muhammad	SLAC National Accelerator Laboratory, Menlo Park, CA	Menlo Park, CA
High Energy Compact Cryogenically Cooled Linac System for Very-High-Energy-Electron Radiation Therapy	Tantawi, Sami	SLAC National Accelerator Laboratory, Menlo Park, CA	Menlo Park, CA
Advanced Adaptive Control Systems for Compact Accelerators	Scheinker, Alexander	Los Alamos National Laboratory (LANL), Los Alamos, NM	Los Alamos, NM
Numerical Optimization for Spin Dynamics in Electron (Positron) Storage Rings	Heinemann, Klaus	University of New Mexico, Albuquerque, NM	Albuquerque, NM
Extreme Longitudinal Compression of Optimized Beams for MEV Ultrafast electron Diffraction	Hoffstaetter, Georg	Cornell University, Ithaca, NY	Ithaca, NY
On-Chip Integrated Photonics based Photocathodes	Karkare, Siddharth	Arizona Board of Regents for Arizona State University, Tempe, AZ	Tempe, AZ
Next Steps in the Development of Turn-Key SRF Technology	Liepe, Matthias	Cornell University, Ithaca, NY	Ithaca, NY
Demonstrating improved lifetime in superlattice photocathodes with robust activating coatings for high current, highly spin-polarized beam production	Bazarov, Ivan	Cornell University, Ithaca, NY	Ithaca, NY