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

Awards from FY 2019 Research Opportunities in Accelerator Stewardship FOA and LAB

Title	PI	Institution	Location
Optical Materials for Ultrahigh-Power Long-Wave Infrared Lasers	Polyanskiy, Mikhail	Brookhaven National Laboratory (BNL)	Upton, NY
The Big Aperture Thulium Laser: Research and development to validate efficient MIR laser technologies for future laser wakefield	Haefner, Constantin	Lawrence Livermore National Laboratory (LLNL)	Livermore, CA
HIGH EFFICIENCY, NORMAL CONDUCTING LINAC FOR ENVIRONMENTAL WATER REMEDIATION	Hannon, Fay	Thomas Jefferson National Accelerator Facility (TJNAF)	Newport News, VA
Design, prototype and testing of a SRF cavity for a low-cost, compact accelerator for environmental applications	Ciovati, Gianluigi	Thomas Jefferson National Accelerator Facility (TJNAF)	Newport News, VA
Design and demonstration of an economical SRF structure for Continuous Wave (CW), high-energy, Megawatt-class beams	Dhuley, Ram	Fermi National Accelerator Laboratory (FNAL)	Batavia, IL
High-Performance Electron Sources: Numerical Methods and Beam Dynamics at the Precision Frontier	Erdelyi, Bela	Northern Illinois University	DeKalb, IL
Light and Electron Emission as Breakdown Probes: Synergistic DC and RF Study	Baryshev, Sergey	Michigan State University	East Lansing, MI
Theoretical and Experimental Studies in Accelerator Physics	Rosenzweig, James	Regents of the University of California, Los Angeles	Los Angeles, CA
Meter-scale plasma channels produced via superluminal ionization waves	Vafaei-Najafabadi, Navid	The Research Foundation for SUNY Stony Brook University	Stony Brook, NY
From Theory to Practical High Brightness Photocathodes	Schroeder, Walter	Board of Trustees of the University of Illinois	Chicago, IL
The Impact of Grain Boundaries and Dislocation Substructures on Functional Properties of NB for SRF Cavities	Lee, Peter	Florida State University	Tallahassee, FL
Application of electron beam technology to decompose persistent emerging drinking water contaminants: poly- and perfluoroalkyl substances (PFAS) and 1,4-dioxane	Venkatesan, Arjunkrishna	The Research Foundation for SUNY Stony Brook University	Stony Brook, NY
Development of High-Performance Medium Velocity Superconducting Elliptical Cavities for Hadron Linacs	Ostroumov, Peter	Michigan State University	East Lansing, MI