

Department of Energy Announces \$78 Million for Research in High Energy Physics

Announcement Number: DE-FOA-0002546

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Principal Investigator	Title	Institution	City	State	9-digit zip code
Vachaspati, Tanmay	Theoretical Research at the High Energy Frontier: Cosmology and Beyond	Arizona State University	Tempe	AZ	85287-6011
Butler, John	LHC Research at Boston University	Boston University	Boston	MA	02215-1300
Apyan, Aram	Stress Testing the Standard Model of Particle Physics at the Large Hadron Collider	Brandeis University	Waltham	MA	02453-2728
Lawrence, Albion	Research in Quantum Field Theory, Quantum Gravity and Cosmology	Brandeis University	Waltham	MA	02453-2728
Landsberg, Greg	Fundamental Problems in High-Energy Physics, Astroparticle Physics, and Cosmology	Brown University	Providence	RI	02912-2912
Sobel, Henry	A Research Program in Elementary Particle Physics	University of California at Irvine	Irvine	CA	92697-7600
Joshi, Chan	Experimental, Theoretical and Simulations Studies of Plasma-based Accelerators	University of California at Los Angeles	Los Angeles	CA	90095-1406
Rosenzweig, James	Ultra-high Gradient, Cryogenic RF Acceleration for Linear Collider Applications	University of California at Los Angeles	Los Angeles	CA	90095-1406
Rosenzweig, James	Beam Dynamics and Manipulation in Wakefield Acceleration at the AWA	University of California at Los Angeles	Los Angeles	CA	90095-1406
Saltzberg, David	Experimental and Theoretical High Energy Physics Research at UCLA	University of California at Los Angeles	Los Angeles	CA	90095-1406
Dong, Xi	Decoding Quantum Gravity and Cosmology from the Hologram	University of California at Santa Barbara	Santa Barbara	CA	93106-2050
Gori, Stefania	Exploring the Higgs and Hidden Sectors	University of California at Santa Cruz	Santa Cruz	CA	95064-1077
Starkman, Glenn	Particle Physics at Frontiers	Case Western Reserve University	Cleveland	OH	44106-1712
Martinez, Emil	Theoretical High Energy Physics Research at the University of Chicago	University of Chicago	Chicago	IL	60637-5418
Hill, James	Uncovering New Physics in the Cosmic Microwave Background: Developing Novel Theoretical Models and Machine-Learning-Powered Constraints	Columbia University	New York	NY	10027-7922
Dunne, Gerald	Theoretical High Energy and Particle Physics	University of Connecticut	Storrs	CT	06269-1133
Caldwell, Robert	Dartmouth Theory Group: The Physics of the Universe	Dartmouth College	Hanover	NH	03755-1421
Walter, Christopher	Research in High Energy Physics at Duke University	Duke University	Durham	NC	27705-4010
Guo, Wei	Liquid Helium Fluid Dynamics Studies for Accelerator Applications	Florida State University	Tallahassee	FL	32306-4166
Kametani, Fumitake	The Underlying Science for Realizing High Critical Current Density in (BA/SR) FE2AS2 Fe-based Superconductor Wires	Florida State University	Tallahassee	FL	32306-4166
Larbalestier, David	The Underlying Science of Round Wire Bi-2212	Florida State University	Tallahassee	FL	32306-4166

Adams, Todd	High Energy Physics Research at Florida State University	Florida State University	Tallahassee	FL	32306-4166
Maldacena, Juan	Problems in Theoretical Physics	Institute for Advanced Study	Princeton	NJ	08540-8540
Neubauer, Mark	Research in High Energy Physics at the University of Illinois on the ATLAS Experiment	University of Illinois	Champaign	IL	61820-7406
Littlejohn, Bryce	Experimental and Theoretical Particle Physics at IIT	Illinois Institute of Technology	Chicago	IL	60616-3717
Tu, Shuang	Numerical Investigation of Fluid Flow and Space Charge in Liquid Argon Time Projection Chamber (LArTPC) Detectors	Jackson State University	Jackson	MS	39217-0002
Milchberg, Howard	Application of Meter-Scale Low Density Plasma Waveguides to 10 GeV-scale Laser Wakefield Acceleration Stages	University of Maryland	College Park	MD	20742-5141
Eno, Sarah	High Energy Accelerator and Cosmic Ray User Group at the University of Maryland	University of Maryland	College Park	MD	20742-5141
Eno, Sarah	Maximal Information Calorimetry	University of Maryland	College Park	MD	20742-5141
Berz, Martin	Advanced Nonlinear Particle Beam Dynamics: Muon g-2, EDM Searches, and Workforce Training	Michigan State University	East Lansing	MI	48824-2601
Mahn, Kendall	Improved neutrino oscillation measurements using multiple neutrino energy spectra	Michigan State University	East Lansing	MI	48824-2601
Temkin, Richard	Novel Concepts for High Gradient Acceleration	Massachusetts Institute of Technology	Cambridge	MA	02139-4307
Erdelyi, Bela	Nonlinear Dynamics of Integrable Hamiltonian Systems for Novel Particle Accelerators in High Energy Physics	Northern Illinois University	DeKalb	IL	60115-2864
Eads, Michael	Illuminating Neutrinos with the DUNE Experiment	Northern Illinois University	DeKalb	IL	60115-2864
Velasco, Mayda	Particle Physics at Northwestern University	Northwestern University	Evanston	IL	60611-4579
Fields, Laura	Beam and Near Detector Studies for LBNF/DUNE	University of Notre Dame	Notre Dame	IN	46556-5612
Sumption, Michael	HTS Conductors, Cables, and Magnets for High Energy Physics: Transport, Magnetization, Mechanical Properties, and Modelling	the Ohio State University	Columbus	OH	43210-1016
Acosta, Darin	High Energy Physics Research at the Energy Frontier with the CMS Experiment	Rice University	Houston	TX	77005-1892
McFarland, Kevin	Experimental Studies of Elementary Particles and Fields	University of Rochester	Rochester	NY	14627-0140
Thomas, Scott	Research in Theoretical High Energy Physics	Rutgers University	New Brunswick	NJ	08854-8559
Moustakas, John	Improving Cosmological Precision by Mitigating DESI Redshift Survey Systematics	Siena College	Loudonville	NY	12211-1462
Stroynowski, Ryszard	Research in High Energy Physics at Southern Methodist University	Southern Methodist University	Dallas	TX	75205-0240
Godang, Romulus	Searches for New Physics in the Standard Model Processes at the Intensity Frontier: Belle II	University of South Alabama	Mobile	AL	36688-0002
Martinez, David	3D-projection scintillator detector: prototype data analysis and future applications in near detectors for neutrino experiments	South Dakota School of Mines and Technology	Rapid City	SD	57701-3901

Litvinenko, Vladimir	Plasma Wakefield Research at ATF and FACET II	Stony Brook University	Stony Brook	NY	11794-3362
Sehgal, Neelima	Characterizing Dark Matter and Light Relic Particles with an Ultra-Deep, High-Resolution CMB Survey	Stony Brook University	Stony Brook	NY	11794-3362
von der Linden, Anja	Commissioning Cluster Cosmology with Rubin / LSST	Stony Brook University	Stony Brook	NY	11794-3362
Soderberg, Mitchell	Neutrino Research at Syracuse University	Syracuse University	Syracuse	NY	13244-1200
Lee, Lawrence	Beyond Classical Searches: Enabling New Discovery Potential at the LHC	University of Tennessee	Knoxville	TN	37996-1529
Andeen, Timothy	Opening ASICS for Future Detectors	University of Texas	Austin	TX	78759-5316
Mahapatra, Rupak	Magnetic Avalanche Detector using Single-Molecule Magnets	Texas A&M University	College Station	TX	77845-4321
McIntyre, Peter	Conformal REBCO windings for high-field dipoles	Texas A&M University	College Station	TX	77845-4321
Akchurin, Nural	Experimental Particle Physics Research at Texas Tech University	Texas Tech University	Lubbock	TX	79409-1035
Chiesa, Luisa	Development of REBCO Cabling Technologies for SC Magnets	Tufts University	Boston	MA	02111-1817
Johnson, Clifford	Gravity, Geometry and Field Theory in Fundamental Physics	University of Southern California	Los Angeles	CA	90089-0701
DAWSON, KYLE	DESI Experimental Studies and Novel Searches For New Physics at the University of Utah	University of Utah	Salt Lake City	UT	84112-9023
Petrov, Alexey	Particle Physics Research Program	Wayne State University	Detroit	MI	48202-4050
Muether, Mathew	Near Detector Measurements to Enable Neutrino Oscillation Measurements in DUNE and NOvA	Wichita State University	Wichita	KS	67260-0007