

Department of Energy Announces \$137 Million for Research on High Energy Physics

Announcement Number:

DE-FOA-0002832 FY 2023 Research Opportunities in High Energy Physics

List Posted:

10/19/2023

Selection for award negotiations is not a commitment by DOE to issue an award or provide funding.

Principal Investigator	Title	Institution	City	State	ZIP Code
Rumerio, Paolo	Research in Elementary Particle Physics	The University of Alabama	Tuscaloosa	AL	35487-0104
JOHNS, KENNETH	UNIVERSITY OF ARIZONA HIGH-ENERGY PHYSICS PROGRAM	University of Arizona	TUCSON	AZ	85721-0158
Foreman, Simon	Probing the Early and Late Universe with Reconstructed Large-Scale Clustering	Arizona State University	Tempe	AZ	85287-6011
Hatakeyama, Kenichi	Elementary Particle Physics at Baylor	Baylor University	Waco	TX	76798-7360
Roberts, Lee	Precision Muon Physics at Fermilab	Boston University	boston	MA	02215-1300
Schmaltz, Martin	Topics in Theoretical High Energy Physics	Boston University	Boston	MA	02215-1300
Sciolla, Gabriella	Experimental Particle Physics at Brandeis University	Brandeis University	Waltham	MA	02453-2728
van Bibber, Karl	Innovative metamaterials and quantum amplifiers for very high mass dark matter axion searches	University of California, Berkeley	Berkeley	CA	94710-5940
Conway, John	Research in High Energy Physics and Cosmology at the University of California, Davis	University of California, Davis	Davis	CA	95618-6153
Kamaha, Alvine	Improved Detector Response Calibrations and Background Studies for theLUX-ZEPLIN Experiment	University of California, Los Angeles	Los Angeles	CA	90095-1406
Richman, Jeffrey	UCSB High Energy Group Proposal	University of California, Santa Barbara	Santa Barbara	CA	93106-2050
Ritz, Steven	Research in Particle Physics	University of California, Santa Cruz	Santa Cruz	CA	95064-1077
Spiropulu, Maria	Accomplishments and Future Goals of Experimental Particle Physics at Caltech	California Institute of Technology	Pasadena	CA	91125-0001
Paulini, Manfred	Research in Experimental and Theoretical High-Energy Physics	Carnegie Mellon University	Pittsburgh	PA	15213-3589
Fileviez Perez, Pavel	Research in Theoretical Particle Physics: Neutrino Masses and The Origin of CP-Violation	Case Western Reserve University	Cleveland	OH	44106-1712
Ruhl, John	Instrument Modeling and Development for CMB-S4	Case Western Reserve University	Cleveland	OH	44106-1712
Fleming, Bonnie	High Energy Neutrino Physics	The University of Chicago	Chicago	IL	60637-5418
Aurisano, Adam	Research in Particle and Cosmology Theory and Experiment at the University of Cincinnati	University of Cincinnati	Cincinnati	OH	45221-0222
Villano, Anthony	Directional Sensitivity for Solid Dark Matter Detectors	University of Colorado - Denver	Aurora	CO	80045-2571
Mawhinney, Robert	Theoretical High Energy Physics	Columbia University, Morningside Campus	New York	NY	10027-7922
Chang, Philip	Energetic Tri-bosons as Heralds of New Physics	University of Florida	Gainesville	FL	32611-5500

Ray, Heather	University of Florida Intensity Frontier Program	University of Florida	Gainesville	FL	32611-5500
Tanner, David	Search for dark matter axions with ADMX (2023)	University of Florida	Gainesville	FL	32611-5500
Huffenberger, Kevin	Testing the robustness of CMB-S4 inflation measurements to foreground models	Florida State University	Tallahassee	FL	32306-4166
Larbalestier, David	Nb3Sn Superconductors for the LHC and for Accelerators Beyond the LHC	Florida State University	Tallahassee	FL	32306-4166
Sanchez, Mayly	Research in Experimental Neutrino Physics at Florida State University	Florida State University	Tallahassee	FL	32306-4166
Hohlmann, Marcus	Experimental High Energy Physics Research	Florida Institute of Technology	Melbourne	FL	32901-6975
Browder, Thomas	High Energy Physics Research at the University of Hawaii	University of Hawaii	Honolulu	HI	96822-2234
Koerner, Lisa	Neutrino Oscillation Physics on the Way to DUNE	University of Houston	Houston	TX	77204-2015
Maldacena, Juan	Problems in Theoretical Physics	Institute for Advanced Study	Princeton	NJ	08540-8540
El-Khadra, Aida	High Energy Theory & Cosmology at the University of Illinois	University of Illinois	Champaign	IL	61820-7406
Snopok, Pavel	Participation in Intensity Frontier Neutrino Physics	Illinois Institute of Technology	Chicago	IL	60616-3717
Evans, Harold	Theoretical and Experimental Studies of Elementary Particle Physics	Indiana University	Bloomington	IN	47405-3654
Nachtman, Jane	High Energy Experimental and Theoretical Physics Research at the University of Iowa	University of Iowa	Iowa City	IA	52242-1320
Cochran, James	Experimental High Energy Physics at the Intensity Frontier (BELLE II)	Iowa State University of Science and Technology	Ames	IA	50011-2207
Weinstein, Amanda	Experimental Research in Neutrino Physics at Iowa State University	Iowa State University of Science and Technology	Ames	IA	50011-2207
Kong, Kyoungchul	Theoretical Particle Physics in the Data-Driven Era	University of Kansas Center for Research, Inc.	Lawrence	KS	66045-7568
Maravin, Yurii	Research at Kansas State University into the Basic Nature of Matter, Energy, Space and Time	Kansas State University	Manhattan	KS	66506-1103
Wei, Hanyu	Experimental Neutrino Physics Research with Liquid Argon TPCs	Louisiana State University and A&M College	Baton Rouge	LA	70803-0001
Anlage, Steven	Microwave Nonlinear Microscopy and Modeling to Improve SRF Materials	University of Maryland	College Park	MD	20742-5141
Willcoq, Stephane	High Energy Physics Research at UMass-Amherst	University of Massachusetts Amherst	Hadley	MA	01035-9242
Hao, Yue	Development of differentiable beam dynamics simulation tools including collective effects for HEP accelerator applications	Michigan State University	East Lansing	MI	48824-2601
Cushman, Priscilla	Physics at the Cosmic Frontier: Direct Detection of Dark Matter with SuperCDMS	University of Minnesota	Minneapolis	MN	55455-2070
Gherghetta, Tony	Theoretical High Energy Physics at the University of Minnesota	University of Minnesota	Minneapolis	MN	55455-2070

Mans, Jeremiah	Physics at the Energy Frontier: CMS at the LHC	University of Minnesota	Minneapolis	MN	55455-2070
Pryke, Clement	Further Development of CMB-S4 Simulations and Reanalysis Aimed at Detection of Primordial Gravitational Waves	University of Minnesota	Minneapolis	MN	55455-2070
Quinn, Breese	Intensity frontier studies at the University of Mississippi	University of Mississippi	University	MS	38677-1848
Necib, Lina	Shining Light on Dark Matter: Using Stars as Tracers of Dark Matter	Massachusetts Institute of Technology	Cambridge	MA	02139-4307
Park, Dongkeun	R&D of Very High-Field Solenoid Magnets for Uses in High-Energy Physics Experiments	Massachusetts Institute of Technology	Cambridge	MA	02139-4307
Taylor, Washington	Task C: Theoretical High Energy Physics	Massachusetts Institute of Technology	Cambridge	MA	02139-4307
Wyslouch, Boleslaw	MIT Particle Physics Collaboration	Massachusetts Institute of Technology	Cambridge	MA	02139-4307
Barron, Darcy	Readout Development for CMB-S4	University of New Mexico	Albuquerque	NM	87106-0001
Heinemann, Klaus	Re-evaluation of Spin-Orbit Dynamics of Polarized e ⁺ e ⁻ Beams in High Energy Circular Accelerators and Storage Rings: Theory and Computation	University of New Mexico	Albuquerque	NM	87131-0001
Muth, John	Development of Ultrafast Timing Detectors Using Wide Band Gap Semiconductor Materials	North Carolina State University	Raleigh	NC	27607-7214
Lu, Xueying	Experimental Understanding of Collective Beam Dynamics Guided by Fully Self-Consistent Simulation Models	Northern Illinois University	DeKalb	IL	60115-2864
Dahl, Carl	Low-threshold calibration of a liquid-noble bubble chamber for dark matter and CEvNS detection	Northwestern University	Chicago	IL	60611-4579
Cholis, Ilias	Hunting for Dark Matter Signals in Cosmic-Ray and Gamma-Ray Observations from the MeV to the TeV Scale	Oakland University	Rochester	MI	48309-4401
Carpenter, Linda	Next Generation Models and Methods in Collider Phenomenology and Dark Matter	The Ohio State University	Columbus	OH	43210-1016
Rizatdinova, Flera	Theoretical and Experimental Research in Weak, Electromagnetic and Strong Interactions	Oklahoma State University	Stillwater	OK	74078-1020
De Viveiros Souza Filho, Luiz	Dark matter searches with the LZ experiment at Penn State	The Pennsylvania State University	University Park	PA	16802-7000
Amin, Mustafa	A Spin on Wave Dark Matter	William Marsh Rice University	Houston	TX	77005-1892
Padley, Paul	Particle Physics at Rice University	William Marsh Rice University	Houston	TX	77005-1892
Greensite, Jeff	Research in Theoretical High-Energy Physics	San Francisco State University	San Francisco	CA	94132-1722
Petrov, Alexey	Particle Physics Research Program	University of South Carolina	Columbia	SC	29208-0001
Liu, Jing	Design of a low-threshold neutrino detector based on cryogenic undoped CsI at the Spallation Neutron Source	University of South Dakota	Vermillion	SD	57069-2307
Martinez Caicedo, David	Power Over Fiber R&D for the DUNE Vertical Drift Photon Detection System	South Dakota School of Mines & Technology	Rapid City	SD	57701-3901
Shahedipour-Sandvik, Fatemeh (Shadi)	Engineered photocathodes based on III-nitride for next generation accelerator facilities	SUNY Polytechnic Institute	Albany	NY	12203

Catterall, Simon	Theoretical Particle Physics and Cosmology	Syracuse University	Syracuse	NY	13244-1200
Downer, Michael	Multi-GeV Laser-Plasma Acceleration Physics	The University of Texas at Austin	Austin	TX	78759-5316
Borzenets, Ivan	Magnetic Avalanche Detector using Single-Molecule Magnets	Texas A&M University	College Station	TX	77845-4321
Safonov, Alexei	High Energy Physics Research at Texas A&M University	Texas A&M University	College Station	TX	77845-4321
White, Andrew	Research in Elementary Particle Physics	The University of Texas at Arlington	Arlington	TX	76019-0145
Ishak-Boushaki, Mustapha	Testing and applying pipeline codes for dark energy analyses including systematic effect mitigation for DESI year-1 and year-3 data key projects and Rubin DESC Science Readiness and Early Science Data	The University of Texas at Dallas	Dallas	TX	75080-3021
Huber, Patrick	Virginia Tech Center for Neutrino Physics HEP Umbrella	Virginia Polytechnic Institute and State University	Blacksburg	VA	24061-0001
Link, Jonathan	Studies of Fundamental Neutrino Properties at the Intensity Frontier	Virginia Polytechnic Institute and State University	Blacksburg	VA	24061-0001
Pitts, Kevin	Muon and Neutrino Science at Virginia Tech	Virginia Polytechnic Institute and State University	Blacksburg	VA	24061-0001
Kaidi, Justin	Non-invertible Symmetries and their Applications	University of Washington	Seattle	WA	98195-9472
Turiaci, Gustavo	Holography: Quantum Mechanical Aspects of Black Holes	University of Washington	Seattle	WA	98195-9472
Dasu, Sridhara	High Energy Physics Research: Experimental & Theoretical	University of Wisconsin-Madison	Madison	WI	53715-1218
Demers, Sarah	Yale High Energy Physics	Yale University	New Haven	CT	06520-8327