HEP-QIS QuantISED Awards FY2019

PI	Proposal Title	Institution	Institution Address	9-Digit Zip Code
Univeristy Awards				
Formaggio, Joseph	Quantum Devices for Neutrino and Rare Particle Detection	Massachusetts Institute of Technology	Cambridge, MA	02139-4307
Wu, Sau	Application of Quantum Machine Learning to High Energy Physics Analysis at LHC using IBM Quantum Computer Simulators and IBM Quantum Computer Hardware	Board of Regents of the University of Wisconsin System, operating as University of Wisconsin-Madison	Madison, WI	53715-1218
Lawrence, Albion	Structure and Dynamics of Entanglement in Large Quantum Systems	Brandeis University	Waltham, MA	02453-2728
Balasubramanian, Vijay	Distributed Quantum Information: Theory and Applications	The Trustees of the University of Pennsylvania	Philadelphia, PA	19104-6205
Hartman, Thomas	Theory and Simulations of Emergent Geometry in Quantum Gravity	Cornell University	Ithaca, NY	14850-2820
Smith, Graeme	Measures of Holographic Correlation: Discovery, Interpretation, Application	The Regents of the University of Colorado d/b/a University of Colorado	Boulder, CO	80303-1058
National Lab Awards				
Nomerotski, Andrei	Quantum Astrometry	Brookhaven National Laboratory (BNL)	Upton, NY	11973-5000
Barry, Peter	Quantum Sensors for Wide Band Axion Dark Matter Detection	Argonne National Laboratory (ANL)	Lemont, IL	60439-4803
Nanni, Emilio	Transduction for New Regimes in Quantum Sensing	SLAC National Accelerator Laboratory	Menlo Park, CA	94025-7015
Orrell, John	Phonon coupling to superconducting quasiparticle-sensitive sensors and qubits	Pacific Northwest National Laboratory (PNNL)	Richland, WA	99354-1793
Cancelo, Gustavo	Research Technology for QIST	Fermi National Accelerator Laboratory (FNAL)	Batavia, IL	60510-5011
Osborn, James	Discovering new microscopic descriptions of lattice field theories with bosons	Argonne National Laboratory (ANL)	Lemont, IL	60439-4803
Lyon, Adam	Large Scale Simulations of Quantum Systems on HPC with Analytics for HEP Algorithms	Fermi National Accelerator Laboratory (FNAL)	Batavia, IL	60510-5011
Yoo, Shinjae	Quantum Convolutional Neural Networks for High Energy Physics Data Analysis	Brookhaven National Laboratory (BNL)	Upton, NY	11973-5000
Spier Moreira Alves, Daniele	Renormalization of Entanglement in Quantum Field Theories	Los Alamos National Laboratory (LANL)	Los Alamos, NM	87545-1362
Pooser, Raphael	Challenges and Opportunities in Noise-Aware Implementations of Quantum Field Theories on Near-Term Quantum Computing Hardware	Oak Ridge National Laboratory (ORNL)	Oak Ridge, TN	37831-6231
National Lab Exemplar Awards				
Brown, David	Search for Beyond the Standard Model Physics by Measuring the Fine Structure Constant	Lawrence Berkeley National Laboratory (LBNL)	Berkeley, CA	94720-8099
Plunkett, Robert	Matter-wave Atomic Gradiometer Interferometric Sensor (MAGIS-100)	Fermi National Accelerator Laboratory (FNAL)	Batavia, IL	60510-5011
National Lab Collaborative Awards				
Sonnenschein, Andrew	Quantum Sensors for Wide Band Axion Dark Matter Detection	Fermi National Accelerator Laboratory (FNAL)	Batavia, IL	60510-5011
Alexeev , Yuri	Large Scale Simulations of Quantum Systems on HPC with Analytics for HEP Algorithms	Argonne National Laboratory (ANL)	Lemont, IL	60439-4803
Chang, Clarence	Quantum Devices for Neutrino and Rare Particle Detection	Argonne National Laboratory (ANL)	Lemont, IL	60439-4803