Recipient	Title of Grant	Dates
James E. Faller Wesleyan University	Precision measurement gravitational physics	1971-1973
Daniel Kleppner M.I.T.	Precision studies with the hydrogen maser	
Hugh G. Robinson Duke University	Precision determination of the ratio of atomic magnetic moments	
E. Norval Fortson University of Washington	Precision radio frequency spectroscopy with atomic ions by the ion storage exchange collision method	1972-1974
William H. Parker Univ. Calif., Irvine	Determination of h/m using macroscopic phase coherence in superconductors	
Arthur Rich University of Michigan	Precision measurement of ion cyclotron resonance	
Stuart B. Crampton Williams College	Investigations of hydrogen atom interactions using atomic hydrogen masers	1973-1975
Brij M. Khorana University of Notre Dame	Quantum properties of liquid helium	
Hans A. Schuessler Texas A&M University	Precision measurement of the hyperfine structure of stored heavy ions	
Theodor W. Hänsch Stanford University	Precision laser spectroscopy of one-electron atoms	1974-1976
Harold J. Metcalf SUNY, Stony Brook	Time resolved excited state spectroscopy	
Richard T. Robiscoe Montana State University	Measurement of the Lamb shift in H, $n = 2$, by the Ramsey method	
James E. Bayfield Yale University	Precision measurement of the fine structure constant and Lamb shifts using new fast excited one-electron ion pro- duction and detection techniques	
Henry A. Hill University of Arizona	Precision solar measurements	
William H. Wing University of Arizona	Accurate measurement of vibration-rotational structure in molecular ions using a novel ion beam infrared laser resonance technique	
Douglas G. Currie University of Maryland	Extremely high spatial resolution measurements through turbulent atmosphere	1976-1978
John M. Goodkind Univ. Calif., San Diego	Precise measurements of variations in local gravity	
Daniel Larson Harvard University	Investigation of new magnetic effects in atoms and atomic nuclei	

ecipient Title of Grant		Dates	
William M. Fairbank, Jr. and George J. Collins Colorado State University	Precision Doppler-free spectroscopy on helium: Lamb shift measurements and possible Rydberg constant deter- mination on a two-electron atom	1978-1980	
Robert S. Van Dyck, Jr. University of Washington	Mono-ion studies		
C. W. Francis Everitt and Blas Cabrera Stanford University	Studies of the London moment leading to a precise determination of h/m_e	1979-1981	
Rogers C. Ritter University of Virginia	Precise mechanical rotations for fundamental measurements		
William C. Sauder Virginia Military Institute	Precision determination of the gas constant: first applica- tions of the ultrasonic Michelson interferometer	1980-1982	
Carl E. Wieman University of Michigan	Measurement of fundamental constants using three-level resonances in hydrogen		
William C. Oelfke Univ. of Central Florida	Quantum limited measurement of a harmonic oscillator	1981-1983	
William H. Wing University of Arizona	Electronic trapping of neutral particles		
David F. Bartlett University of Colorado	Eötvös experiment–a cryogenic version	1982-1984	
David A. Church Texas A&M University	Low energy, highly charged ion precision spectroscopy		
Charles E. Johnson North Carolina State Univ.	RF spectroscopy of atomic and molecular ions		
Michael G. Littman Princeton University	Fine-structure constant determination using precision Stark spectroscopy		
Robert W. Dunford Princeton University	Lamb-shift in singly ionized helium	1983-1985	
Daniel C. Tsui Princeton University	The quantized Hall resistance as a primary resistance standard		
Carlton M. Caves Calif. Inst. of Technol.	Quantum-mechanical analysis of high-precision measure- ments on harmonic oscillators	1984-1986	
Walter N. Hardy and A. John Berlinsky Univ. of British Columbia	Development of a cryogenic hydrogen maser		
Timothy E. Chupp Harvard University	A test of local Lorentz invariance using polarized $^{21}\mathrm{Ne}$ nuclei	1985-1987	
Michael J. Levine Carnegie-Mellon Univ.	Precision calculation of the anomalous magnetic moment of the electron using a specialized computational engine		

Recipient	Title of Grant	Dates
Gerald Gabrielse University of Washington	Injection of protons, antiprotons, and heavy ions into a Penning trap for precision mass measurements	
Larry R. Hunter Amherst College	A new method to search for an electric dipole moment of the electron	
Frederick R. Raab University of Washington	Atomic physics tests of gravity and the equivalence principle	1987-1989
Daniel R. Stinebring Princeton University	High precision timing of millisecond pulsars	
Wiley P. Kirk Texas A&M University	Quantized Hall resistance and fine-structure constant in- vestigations: a study of uncertainty contributions	1988-1990
John D. Morgan III University of Delaware	High precision calculation of helium atom energy levels	
Edward A. Hinds and Malcolm G. Boshier Yale University	Two-photon spectroscopy of H and He ⁺	
Randall G. Hulet Rice University	Measurement of the recombination rate of spin-polarized ultra-cold atoms	
Steven Chu Stanford University	Precision optical spectroscopy of positronium	1990-1995
Edward E. Eyler University of Delaware	Far ultraviolet spectroscopy with single-frequency lasers	
John E. Thomas Duke University	Precision atomic position measurement using optical fields	
Ngai C. Wong M.I.T.	Optical frequency division using an optical parametric os- cillator: applications to precision measurements	
Daniel J. Heinzen University of Texas, Austin	Quantum-limited cooling and detection with stored ions 19	
Carol E. Tanner University of Notre Dame	Absolute calibration of atomic parity nonconservation measurements	
Alex de Lozanne and Qian Niu University of Texas, Austin	Quantum charge pump for a current standard	1993-199
Thad G. Walker Univ. of Wisconsin, Madison	Beta-asymmetry experiments using trapped atoms	

Recipient	Title of Grant	Dates
Mark Kasevich Stanford University	Development of an atom interferometer gyroscope for tests of general relativity	1994-199
Ronald L. Walsworth Smithsonian Astrophysical Observatory	Development of a dual noble gas maser for use in a test of time reversal invariance	
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Kurt Gibble Yale University	Laser cooled atomic clocks "without" cold collisions	1995-199
Luis A. Orozco State University of New York at Stony Brook	Spectroscopy of francium: towards a precise parity non- at conservation measurement in a laser trap	
Siu Au Lee Colorado State University	Measurement of the magnetically-induced QED birefrin- gence of the vacuum	1996-199
Jonathan Sapirstein University of Notre Dame	Calculations of higher order QED effects in helium	
Jens H. Gundlach University of Washington	Measurement of Newton's constant G using a new method	1997-199
David C. Shiner University of North Texas	Laser spectroscopy of the helium atom for a determination of the fine-structure constant	
David E. Pritchard M.I.T.	Accurate atomic mass measurements	1998-200
Suzanne T. Staggs Princeton University	Measurement of the polarization of the cosmic microwave background	
Elisabeth G. Gwinn University of California, Santa Barbara	Combining the quantum Hall and AC Josephson effects for electric current metrology	1999-200
Protik K. Majumder Williams College	New search for T-violating forces in atomic thallium	
David P. DeMille Yale University	Search for the electron electric dipole moment in the $a(1)$ state of PbO	2000-200
Michael V. Romalis Princeton University	A test of CPT symmetry using a new $\rm K\textsubscript{-}^{3}He$ self-compensating magnetometer	
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Umar Mohideen University of California, Riverside	Precision measurement of the Casimir force using an 2001-20 atomic force microscope	
Robert Schoelkopf Yale University	Development of an electron-counting ammeter	

Recipient	Title of Grant	Dates
Margaret Murnane University of Colorado, Boulder	Extending ultrafast time-domain measurements to at- tosecond timescales using quantum control and phase sta- bilization techniques	2002-2005
Harvey Gould Lawrence Berkeley National Laboratory	Electron electric dipole moment experiment using a cold cesium atom fountain	
Dmitry Budker University of California, Berkeley	Precision test of variation of fine structure constant in radio-frequency E1 transitions	2003-2006
Andrei Derevianko University of Nevada at Reno	Next generation high-precision calculations of parity non- conservation in atoms	
Edmund G. Myers Florida State University, Tallahassee	Measurement of the tritium/helium-3 mass difference us- ing two ions in a Penning trap	2005-2008
David Weiss Pennsylvania State University	Search for the electron edm using Cs and Rb in 1D optical lattice traps	
J. C. Seamus Davis	Precision measurement of gravitational forces at the sub-	2006-2009
Cornell University	micron length scale	2000-2003
Krzysztof Szalewicz University of Delaware	High-precision calculations of density and dielectric virial coefficients of helium for new pressure and temperature standards	
Dallin S. Durfee Brigham Young University	Testing Coulomb's law with cold-ion matterwave interfer- ometry	2007-2010
Krzysztof Pachucki Warsaw University	High-precision calculations of transition frequencies in three-electron atoms versus nuclear structure	
John Doyle Harvard University	Precision search for an electric dipole moment of the electron using ThO	2008-2011
Jason E. Stalnaker Oberlin College	Precision spectrocopy of cold lithium atoms based on a femtosecond frequency comb	
Ulrich Jentschura Missouri University of Science and Technology	Nonperturbative quantum electrodynamics, numerical methods, and fundamental constants	2009-2012
Holger Müller University of California, Berkeley	Large area interferometers for fundamental precision measurements	
Subhadeep Gupta University of Washington, Seattle	Measurement of the fine structure constant and test of 2010- QED at the sub-ppb level	
Carol Tanner University of Notre Dame	A portable optical atomic clock in neutral silver	

Recipient	Title of Grant	Dates
Alex Cronin University of Arizona, Tucson	Atomic polarizability measurements for atomic clocks and parity non-conservation studies	2011-2014
Eric A. Hessels York University, Toronto	Precise separated-oscillatory-field microwave measurements of the atomic helium $n = 2$ triplet P fine structure and of the atomic hydrogen $2S_{1/2}$ - $2P_{1/2}$ Lamb shift	
Georg Raithel University of Michigan, Ann Arbor	Measurement of the Rydberg constant in a magic- wavelength optical lattice	2012-201
Thomas Stace University of Queensland	Thermometry at the double shot-noise limit	
Richard Hill University of Chicago	Effective field theory analysis of proton structure in hy- drogenic bound states	2013-2016
Tanya Zelevinsky Columbia University	A test of QED and the gravitational inverse-square law at the sub-nanometer scale using ultracold Sr_2 molecules	
Eric Hudson University of California, Los Angeles	Precision measurement of the optical transition in the $^{229}\mathrm{Th}$ nucleus	2014-201
William Snow Indiana University at Bloomington	Absolute Neutron Measurements for the NIST Penning Trap Neutron Lifetime	
Andrea De Marchi Politecnico di Torino, Turin	Determination of Newton's constant G with a new method using extremely high Q simple pendulums in free decay mode	2015-2018
Chen-Yu Liu Indiana University at Bloomington	A measurement of the neutron lifetime in a magneto- gravitational bottle	
Saïda Guellati-Khelifa Laboratoire Kastler Brossel, Université Pierre et Marie Curie	Precise determination of the fine structure constant α for the new International System of units	2016-2019
Dylan C. Yost Colorado State University	Spectroscopy of the Hydrogen 2S-8D Transition using a Cryogenic Atomic Beam	
David Kawall The University of Massachusetts at Amherst	CeNTREX: a tabletop experiment to search for time and parity violating physics in a nucleus	2017-2020
Holger Müller University of California at Berkeley	Measurement of h/m and the fine-structure constant with cesium atoms	

Recipient	Title of Grant	
Nicholas Hutzler California Institute of Technology	Precision Measurement of CP-Violation with Polyatomic Molecules	2018-2021
Francois Nez LKB, UPMC Sorbonne Université	High-resolution spectroscopy of hydrogen: determination of the Rydberg constant for the future international system of units	
Shimon Kolkowitz University of Wisconsin at Madison	Tests of relativity using a multiplexed optical lattice clock	2019-2022
Timothy Kovachy Northwestern University, Evanston	$\begin{array}{llllllllllllllllllllllllllllllllllll$	
Edmund Myers Florida State University, Tallahassee	Towards a Test of CPT with the Antihydrogen Molecular Ion	2020-2023
Saul Perlmutter University of California, Berkeley	NIST-Traceable Flux Calibration of Standard Stars for Cosmology	
Andrew Jayich University of California, Santa Barbara	Quantum Logic Spectroscopy of Ra ⁺	2021-202
Jeroen Koelemeij Vrije University Amsterdam, Stichting VU	Hyperfine spectroscopy of trapped HD ⁺ molecular ions for an improved value of the proton-to-electron mass ratio m_p/m_e	
Samuel Brewer	Precision Measurement of the 2p fine structure internval in	2022-2025
Colorado State University, Fort Collins	trapped ^{7,9,10} Be ⁺ as a test of quantum electrodynamics	
Chen-Yu Liu University of Illinois, Urbana-Champaign	<i>In-situ</i> Proton Detection for the NIST Neutron Beam Lifetime Experiment	
Gregory Adkins Franklin & Marshall College, Lancaster	Calculation of Recoil Corrections to Muonium Hyperfine Splitting	2023-2026
Daniel Elliott Purdue University, West Lafayette	Precision Measurements of the vector polarizability of the $6s^2S_{1/2}$ to $7s^2S_{1/2}$ transition in cesium	

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Recipient	Title of Grant	
Paolo Crivelli ETH University, Zurich Switzerland	High Precision Muonium Spectroscopy	2024-2027