

Name	MA/MS Date	MA/MS Thesis	Ph.D. Date	Dissertation
Dr. Shah Bahauddin	2017	Understanding the energy balance of transition region structures observed by interface region imaging spectrometer	2019	Understanding the energy balance of transition region structures observed by IRIS in non-equilibrium emission
Dr. Will Barnes	2015	Hot non-flaring plasma in active regions: impact of electron-ion coupling on emission from impulsively heated coronal loops	2019	Diagnosing the frequency of energy deposition in the magnetically-closed Corona
Dr. James Brandenburg	2015	Study of the Identified $\pi^{+/-}$ , $K^{+/-}$ , $p$ , and anti- $p$ Spectra in Au+Au Collisions at $\sqrt{s_{NN}} = 14.5$ GeV at STAR	2019	A systematic measurement of $\mu^+ \mu^-$ production in $p+p$ and $p+Au$ collisions at $\sqrt{s_{NN}} = \text{GeV}$ with the STAR detector
Dr. Sitti Buathong	2015	Studies of Intermediates Created via Dissociative Electron Attachment through Heavy-Rydberg Ion-Pair State Formation in Rydberg Atom Collisions	2019	A study of heavy-rydberg ion-pair formation through Rydberg-
Dr. Benjamin Cerjan	2017	Aluminum Antennas for Internally Calibrated Surface Enhanced Infrared Absorption Spectroscopy	2019	Aluminum Plasmonics for detection and spectroscopy
Dr. Justin Chen	2014	Remarkable Chemical Tuning of the Electrical Transport in $Ti(1-x)Pt(x)Se(2-y)$	2019	Data Driven Modeling of Proteins
Dr. Thomas Langin	2016	Universality in the Equilibration of Quenched Yukawa One Component Plasmas	2019	Laser Cooling of Ions in a neutral plasma
Dr. Jingqiang Li	2016	NA	2019	Forces unveil physics in biological systems via atomic force microscopy: from single molecules to single cells
Dr. Vaideesh Loganathan	2017	Large Magnetic Anisotropy in $Fe_{0.25}TaS_2$	2019	First principles approaches to strongly correlated systems
Dr. Weiyi Wang	2017	Intertwined superconducting and nematic orders in $NaFe_{1-x}Ni_xAs$ without antiferromagnetic order	2019	Neutron Scattering studies of doped iron pnictides

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Dr. Li Yang	2017	Bose-Fermi Mapping and Multi-Branch Spin Chain Model for Strongly Interacting Quantum Gases in One-Dimension: Dynamics and Collective Excitations	2019	Strongly interacting one-dimensional spinor quantum gases
Dr. Tsung-Lin Yang	2014	3D Optical Lattice System for Ultra-Cold Lithium 6	2019	Dynamical response to an interacting 1-dimensional Fermi gas
Dr. Jie Zhang	2015	Microwave Spectroscopy on Two Dimensional Electron Gas	2019	Microwave spectroscopy of two dimensional electron/hole gases
Dr. Runmin Zhang	2017	Identification and Analysis of Plasmonic Behaviors in Ultrasmall Nanospheres	2019	A first principles approach to understand plasmonic phenomena in physical systems
Dr. Yunsong Zhang	2017	Physical Models of Cell Migration and Related Problems	2019	Physical models of cell migration and cell-ECM interaction
Dr. Joseph Barchas	2014	Electrostatic Energy Exchange in Shock Acceleration	2018	Radiative transfer of polarized x-rays: magnetized Thomson scattering in neutron stars.
Dr. Arpan Bhowmik	2015	Chemotaxis to Excitable Waves In Dictyostellium Discoideum	2018	Inter-cellular communication and pattern formation: an investigation of cellular signaling and cooperation
Dr. Joseph Butterworth	NA	NA	2018	Electron-positron pair production in Au+Au collisions at a center-of-mass energy of 27 GeV per nucleon pair as part of the beam energy scan program at STAR
Dr. Zhenyu Chen	2014	Two-Particle Correlations of Strange Hadrons in pPb and PbPb Collisions at LHC Energies	2018	Collective long-range correlations in proton-proton and proton-nucleus collisions at the LHC with the CMS experiment
Dr. Nathaniel Eddy	NA	NA	2018	On the role of conformational flexibility in viral fusion mechanisms – fusion by disorder
Dr. Yu Li	2017	Orbital selective spin excitations and their impact on superconductivity of $\text{LiFe-xCo}_x\text{As}$	2018	Interplay of multiple degrees of freedom and various emergent phenomenon in iron based material

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Dr. Yunxiang Liao	2013	Low Resolution ab initio Phasing Method by Modification of Density and Phase in Real and Reciprocal Space	2018	Probes of nonequilibrium quantum matter and many-body delocalization
Dr. Xingcheng Lin	2014	Order and disorder control the functional rearrangement of influenza hemmagglutinin	2018	Uncovering the molecular mechanism underpinning the function of influenza hemagglutinin
Dr. Binod Rai	2014	Superconductivity in single crystals of Lu <sub>3</sub> T <sub>4</sub> GeI <sub>3-x</sub> (T = Co, Rh, Os) and Y <sub>3</sub> T <sub>4</sub> GeI <sub>3-x</sub> (T= Ir, Rh, Os)	2018	Intermediate valence to Kondo behavior in Yb <sub>3</sub> T <sub>4</sub> GeI <sub>3</sub> and YbT <sub>3</sub> M <sub>7</sub> compounds
Dr. Zhouhunming Tu	2015	Studies of Strange Particle Productions in pp, pPb and PbPb collisions at LHC Energies	2018	Search for the anomalous chiral effects via charge-dependent azimuthal correlations in proton-nucleus and nucleus-nucleus collisions at the LHC
Dr. Antony Adair	NA	NA	2017	A Machine Learning Based Search for Supersymmetry in all Hadronic Decays of the sTop Particle
Dr. Yi Bao	2015	In Silico Discovery of High Deliverable Capacity Metal-Organic Frameworks	2017	Computational Discovery of Metal-Organic Frameworks with High Gas Deliverable Capacity
Dr. Scott Carr	2015	Structure and Composition of the Superconducting Phase in Alkali Iron Selenide KyFe <sub>1.6+x</sub> Se <sub>2</sub>	2017	Diverse Neutron Scattering Measurements in Unconventional Superconductors
Dr. Francisco Camargo	2015	Strontium Laser Cooling and Trapping Apparatus	2017	Rydberg molecules and polarons in ultracold strontium gases
Dr. Chih-Wei Chen	2016	Itinerant Ferromagnetism Induced by P Doping in CoAs	2017	Correlations Between Magneto-Transport Properties and Crystal Structure in Transition Metal Pnictides and Chalcogenides
Dr. Yang-Zhi Chou	2014	Chalker scaling, level repulsion and conformal invariance in critically delocalized matter: Disordered topological superconductors and artificial graphene	2017	Topological Solid State Materials and Quenched Disorder: Transport, Spectral Correlations, and Topological Protection

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Dr. Tilak Dhakal	2013	A Symmetric Probabilistic $\gamma$ -index for Monte Carlo Dose Comparisons: An Application to Proton Therapy	2017	Multi-Scale Calculation Based on Dual Domain Material Point Method Combined with Molecular Dynamics
Dr. Lin Dong	2013	Finite Momentum Driver Bound State Fulde-Ferrell Pairing in Stability in Spin-Orbit Coupled Fermigas	2017	Synthetic Spin-Orbit and light Field Coupling in Ultra-Cold Quantum Gases
Dr. Lingjie Du	2013	Observation of Quantum Spin Hall States in InAs/GaSb Bilayers under Broken Time-Reversal Symmetry	2017	Experiments on Quantum Phases in InAs/GaSb Bilayers: Topological Insulator and Exciton Condensation
Dr. Pu Han	2013	Physical Model of the Immune Response of Bacteria Against Bacteriophage Through the Adaptive CRISPR-Cas Immune System	2017	Physical Model of the Co-Evolution of Bacteria and Viruses Mediated by CRISPR
Dr. Will Hardy	2014	Nanostructure Investigations of Nonlinear Differential Conductance in NdNiO <sub>3</sub> Thin Films	2017	Nanoscale Electronic Transport Studies of Novel Strongly Correlated Materials
Dr. Michael Kelley	2014	Dynamics of Ion-Pair Formation in K (14p, 20p)-SF <sub>6</sub> , CC14 Collisions	2017	Analysis of the dynamics of heavy-rydaberg ion pair formation through studies of electron capture reactions.
Dr. Yajing Li	2013	Control of Vibrational Energies in Single-molecule	2017	Surface Enhanced Vibrational spectroscopy and Electrical Characterization on Nanojunctions
Dr. Andy Liao	2014	Numerical Simulaton of an Experimental Analogue of a Planetary Magnetosphere	2017	Exploring supersonic magnetized astrophysical flows with numerical simulations and multiple experimental techniques of the OMEGA laser
Dr. Jun Liu	2014	Plasmon-Induced Hot Carriers in Metallic Nanoparticles	2017	Dynamics of Plasmon-Induced Hot Carriers in Metallic nanoparticles

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Dr. Haoran Man	2017	Electronic nematic correlations in the stress-free tetragonal state of $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$	2017	Neutron scattering and transport studies of $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$ , FeS and $\text{Y}_3\text{Fe}_2(\text{FeO}_4)_3$
Dr. James Matthews	2014	Gold Nanorod supported Phospholipid bilayer structures and Phases Detected by Surface Enhanced Raman Scattering	2017	Structural Analysis by Enhanced Raman Scattering
Dr. Benjamin Michlin	2014	Upgrade Studies for the CMS Detector Muon System at the CERN LHC	2017	A Topological Search for New Beyond the Standard Model Light Bosons Decaying into Muon Pairs with the CMS Detector at the CERN LHC
Dr. Emilian Nica	2013	Quantum Critical Kanda Destruction of the Base-Fermi Kanda Model with a local transverse field	2017	Strongly correlated electron systems: from Quantum Criticality in Heavy-Fermion Metals to Orbital-Entangled Superconductivity in Fe-Based Materials.
Dr. Melissa Revelle	2013	An All Solid-State Laser System for Trapping Lithium	2017	Quasi-One-Dimensional Ultracold Fermi Gases
Dr. Stuart Sevier	2016	Mechanical Bounds to Transcriptional Noise	2017	Mechanical properties of transcription and their role in gene compounds
Dr. Li Sun	2014	Connecting Thermal and Mechanical Protein (Un) Folding Landscapes	2017	Probing Mechanical properties by molecular dynamics simulations
Dr. Yu Song	2015	Mott Insulator Induced near Ion Pnictide	2017	Neutron Scattering Studies of some $\text{NaFeAs}$ and $\text{BaFe}_2\text{As}_2$ Derivatives and $\text{Ce}_{1-x}\text{YbxCoIn}_5$
Dr. Jacob Wahlen-Strothman	2015	Lie Algebraic similarity transformed Hamiltonians for Lattice Model Systems	2017	Lie algebraic similarity transformations: improving wavefunctions for weak and strong correlations

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Dr. Dong Wang	2016	Migration in asymmetric random environments	2017	Effect of Modularity on Evolution in Heterogeneous Environments
Dr. Xiao Yang	2015	Fan-Shaped Gold Nanoantennas above Reflective Substrates for Surface-Enhanced Infrared Absorption(SEIRA)	2017	Extraordinary light-induced local field, angular momentum and force near metallic nanoparticles
Dr. James Zabel	2013	Occupancy Study of the CMS Pixel Subdetector for the Phase 1 Upgrade	2017	Search for Direct Top Squark Pair Production in the Fully Hadronic Final state at start(s)=13TeV
Dr. Xinyue Zhang	2013	Creating Strontium Rydberg Atoms	2017	Probing Electron-Electron and Atom-Atom Interactions using Rydberg Atoms
Dr. Yue Zhang	2015	Tunable Charge Transfer Plasmon	2017	Interacting surface plasmon with electron beam and acoustic vibration
Dr. Brian DeSalvo	2012	Degenerate Fermi Gas of $^{87}\text{Sr}$	2016	Ultralong-Range Molecules and Rydberg Blockade in Ultracold $^{84}\text{Sr}$
Dr. Ruoyu Chen	2012	Excess noise in scanning tunneling microscope-style junctions at room temperature	2016	RF Shot Noise Measurements in Au Atomic-scale Junctions
Dr. Kenneth Evans	N/A	N/A	2016	Photoresponse of bowtie nanojunctions
Dr. Tzu-Lin Sun	2012	Why Hydrocarbon-Cross-Linked Peptides are Membrane Permeable	2015	Attack on Single Escherichia Coli Spheroplast by Antimicrobial Peptides
Dr. Zhentao Wang	N/A	N/A	2016	Frustrated Magnetism in Strongly Correlated Electron Systems
Dr. Sithara Wijeratne	N/A	N/A	2016	Single Molecule Force Signatures in Biological Physics
Dr. Kefeng Xin	N/A	N/A	2015	Search for Muonic Atoms and Dimuon Productions in Heavy-Ion Collisions

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Dr. Liheng Zheng	2011	A Method to Compute Three Dimensional Megnetospheric Equilibria with Dipole Tilt and it's Application in Estimating Magnetic Flux Tube Volume	2015	Development and Application of Stochastic Methods for Radiation Belt Simulations
Dr. Yang Cao	N/A	N/A	2015	Electron Energy Loss Spectroscopy and Optical Properties of Plasmoic Nanostructure
Dr. Paul Cauley	N/A	N/A	2014	Diagnosing Mass Flows in Herbig Ae/Be Stars
Dr. Man Chen	2012	Hierarchy of Gene Expression as a Biomarker for Breast Cancer Prognosis	2014	Theoretical Biological Physics of Structural Dynamics in Physiology and Evolution
Dr. Wei Chen	2011	Spectropolarimetry of the Classic T Tauri Star BP Tau	2014	Magnetic Fields and Accretion on T Tauri Stars
Dr. Pedro Duarte-Gelvez	2011	Narrow Line laser cooling of lithium: A new tool for all optical production of quantum degenerate Fermi gases	2014	Observation of antiferromagnetic correlations in the Fermi-Hubbard model
Dr. Ryan Hayes	N/A	N/A	2015	Towards a Simplified Model of the RNA Free Energy Landscape and its Mg <sup>2+</sup> Dependence
Dr. Julie Hogan	2012	Missing Energy Studies at the D0 Experiment	2015	Measurement of the Forward-Backward Asymmetry in the Production of B <sup>+</sup> Mesons in p p - bar Collisions
Dr. Heng Ji	N/A	N/A	2015	Hydrogen Doping and the Metal-Insulator Phase Trasnition in Vandium Dioxide
Dr. Nicholas King	2011	Angle-and Sprectral-Dependent Light Scattering from Plasmonic Nanocups	2015	Plasmonic Nanostructures for Enhanced Solar Cells and Colorimetric Spectroscopy Techniques
Dr. Vikram Kulkarni	N/A	N/A	2015	A First Principles Approach to Describing Novel Plasmonic Phenomena

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Dr. Matthew Levy	2011	Focusing of Intense Picosecond Laser Pulses in Converging Target Geometries	2014	Modeling of Intense Laser Driven High Energy Density Plasmas
Dr. Lifei Liu	N/A	N/A	2014	Plasmonic Properties of Aluminum Nanostructures
Dr. Patrick McQuillen	2012	High Resolution Sculpting and Imaging of Ultracold Neutral Plasmas	2015	High Resolution Measurement and Modeling of Ion Dynamics in an Ultracold Neutral Plasma
Dr. Jeffrey Reep	2012	Evidence for Impulsive Heating of Active Region Coronal Loops	2014	Hydrodynamic Modeling of Heating Processes in Solar Flares
Dr. Sarah Story	2011	Magnetic Pair Creation Transparency in Gamma-Ray Pulsars	2014	Pair Creation Transparency in Gamma-Ray Pulsars
Dr. Changhao Wang	2010	Lifetimes of Weakly Bound Heavy-Rydberg Ion-Pair States Formed Through Rydberg Atom Collisions with Attaching Targets	2015	Dynamic and Dissociation of Collisionally Formed Heavy-Rydberg Ion-Pair States
Dr. Jiakui Wang	2011	A Layered Transition Metal Pnictide SrMnBi <sub>2</sub> with Metallic Blocking Layer	2015	Layered Transition Metal Pnictides Investigated by Experimental and Computational Methods
Dr. Jianda Wu	N/A	N/A	2014	Research on Dynamics and Thermodynamics near Quantum Critical Points
Dr. Yu Zhang	N/A	N/A	2014	Nonlinear Nanophotonic Systems for Harmonic Generation, Parametric Amplification, Optical Processing and Single-Molecule Detection
Dr. Ramachandhran Balasubramanian	Dec 2010	Finite-Temperature Study of Bose-Fermi Superfluid Mixtures	2014	Rashba Spin-Orbit Coupled Quantum Gases
Dr. Yaxue Dong	2010	A Model for the Neutral H <sub>2</sub> O Density in the Enceladus Plume	2014	The Water Vapor and Dust Plumes of Enceladus
Dr. Eric Frey	2012	Experimental Free Energy Landscape Reconstruction of DNA Unstacking Using Crooks Fluctuation Theorem	2014	DNA Free Energy Landscapes and RNA Nano-Self-Assembly Using Atomic Force Microscopy



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Dr. Jedediah Pixley	Dec 2011	Kondo Destruction and Valence Fluctuations in the Particle Hole Asymmetric Anderson Model	2014	Quantum Criticality, Magnetic Frustration, and Unconventional Superconductivity in Heavy Fermion Metals
Dr. Nicholas P. Schafer	2011	Frustration in the Energy Landscapes of Multidomain Protein Misfolding". Paper submitted to Journal: Proceedings of the National Academy of Sciences	2014	Folding, Binding, Misfolding and Aggregation with AWSEM
Dr. Aditya Shashi	Dec 2011	Non Universal Prefactors in Correlation Functions of ID Quantum Liquids	2014	Exploring Aspects of Nonequilibrium Physics with Quantum Impurity Problems
Dr. Zorawar Wadiasingh	2011	Cooling Rates for Relativistic Electrons Undergoing Compton Scattering in Strong Magnetic Fields	2014	Resonant Compton Scattering in Highly-Magnetized Pulsars
Dr. Patrick J. Wheeler	2010	Shot Noise Suppression at Room Temperature in Atomic-Scale Au Junctions	2014	Quantum Shot Noise Characteristics in Atomic Scale Junctions at Liquid Nitrogen and Room Temperatures Using Novel Measurement Technique
Dr. Apiwat Wisitsorasak	2013	Fluctuating Mobility Generation and Transport in Glasses	2014	Dynamical Heterogeneity of the Glassy State
Dr. Mi Yan	Dec 2011	Numerical Modeling of Collisional Dynamics of Sr in an Optical Dipole Trap	2014	Optical Feshbach Resonances and Coherent Photoassociation in a Strontium BEC
Dr. Shuzhen Ye	Dec 2011	Chaotic Ionization of a Rydberg Atom Subjected to Alternating Kicks	2014	Experimental Study of Potassium and Strontium Rydberg Atoms - Chaotic Ionization, Quantum Optical Phenomena and Multiphoton Excitation
Dr. Chunming Zhu	Dec 2010	Magnetic Helicity Injection and Velocity Characteristics of Rotating Sunspots	2014	Dynamics and Evolution of Solar Eruptive Prominences
Dr. Lindsey Anderson	2010	Quantitative Measurements of Individual Gold Nanoparticle Scattering Cross Sections	2013	Manipulation of Energy Propagation, Redirection, and Dissipation by Tunable Plasmonic

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				Nanostructures
Dr. Yang Li			2013	Engineering Application-Specific Plasmonic Nanoparticles: Quantitative Measurements and Precise Characterization
Dr. Xin Liu	2010		2013	Modeling the Plasma Convection in Saturn's Inner Magnetosphere
Dr. Hong Liu	Jan 2010	Numerical Studies of Ultracold Atomic Gases	2013	Searching for FFLO States in Ultracold Polarized Fermi Gases: A Numerical Approach
Dr. Michelle Victoria Prewit Mathis	2010	Operation of the Runn IIB DO Luminosity System and Determination of the Runn IIB Luminosity Constant	2013	Statistical Moments of the Multiplicity Distributions of Identified Particles in Au+Au Collisions
Dr. Daniel McDonald	Dec 2010	Calibration of the STAR Time-of-Flight Detector for Particle Identification	2013	Search for the Rare Decay $B_s \rightarrow \mu^+ \mu^-$ at D0
Dr. Eileen Theresa Meyer	2008	The Effects of Intrinsic Spectral Curvature and Flux Limits on the Measured Evolutionary Behavior of Lacertae Objects	Dec 2013	The Blazer Envelope and the Relativistic Jet Dichotomy: Unification of Radio-Loud AGN
Dr. Christopher Olsen	2009	on Flux Maps and Helicon Source Efficiency in the VASIMR VX-100 Experiment Using a Moving Langmuir Probe Array	2013	Experimental Characterization of Plasma Detachment from Magnetic Nozzles
Dr. Asher Pembroke	Jan 2010	LFM-RCM: Toward a Coupled Description of the Inner and Outer Magnetosphere	2013	A Dynamic Coupled Magnetosphere-Ionosphere-Ring Current Model
Dr. Yu Pu	Jan 2010	Effects of Stray Fields on Ionization of Rydberg Atoms near Gold Surfaces	Dec 2013	Ionization of Rydberg Atoms at Patterned Electrode Arrays
Dr. William Rice	Jan 2010		2013	Low-Energy Charge and Spin Dynamics in Quantum Confined Systems
Dr. Kui Bao	Jan 2009	Fano Resonances in Plasmonic Nanoparticle Aggregates	2012	Plasmon Hybridization in Real Metals

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Dr. Brent Carey	Apr 2010	Tailoring Vertically-Aligned Carbon Nanotube Growth for Poly (dimethylsiloxane)-Infiltrated Nanocomposites	2012	Novel Material Behavior in Carbon Nanotube/Elastomer Composites
Dr. Xuhui Chen	Dec 2010	Time Dependent Simulation of Blazar Mrk 421 Using a Monte Carlo Mulizone Code	2012	Understanding the Nature of Blazars High Energy Emission with Tim Dependent Multi-zone Modeling
Dr. Guy Hilburn	Jan 2010	General Relativistic MHD and Monte Carlo Simulations of the Broadband Spectra of Sagittarius A*	2012	Studies of Low Luminosity Active Galactic Nuclei with Monte Carlo and Magnetohydrodynamic Simulations
Dr. Bei Hu	2010	RCM simulation of the March 23rd 2007 substorm event using the Open GGCM	2012	Modeling the Earth's Magnetosphere using Magnethoydynamics
Dr. Ivan Knez	2010	Quantum Transport in Inverted InAs/GaSb Composite Quantum Wells	2012	Transport Properties Of Topological Phases In Broken Gap InAs/GaSb Based Quantum Wells
Dr. Oleksandr Kuznetsov	2010	Functionalization of Carbom Nanomaterials for Biomedical & Composite Applications	2012	Functionalization of Nanocarbons for Composite Biomedical and sensor applications
Dr. James (Britt) Lassiter	Jan 2009		2012	Complex Plasmonic Nanostructures: Symmetry Breaking and Coupled Systems
Dr. Chang-chun Lee	Dec 2011	Membrane-Mediated Peptide Conformation Change From alpha-Monomers to beta-Aggregates	2012	Interactions of Amyloid-Forming Peptides with Lipid Bilayer Membranes
Dr. Kaijian Liu	2010	Membrane-Mediated Peptide Conformation Change From alpha-Monomers to beta-Aggregates	2012	Teleseismic Imaging of the Crust and Upper Mantle in the Western United States
Dr. Jorge Zuloaga			Dec 2011	Quantum Plasmonics: A first-principles investigation of metallic nanostructures and their optical properties.

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Dr. Daniel Stark	Jan 2010	The Use of a Microelectroporator to Study Poration of Jurkat Cells	Dec 2011	Measuring Dynamic Membrane Mechanical Properties using a combined Microfabricated Magnetic Force Transducer-Microaspiration System
Dr. Jose Castro	Jan 2010	Sheet Fluorescence and Annular Analysis of Ultracold Neutral Plasmas	2011	Collective effects in Ultracold Neutral Plasmas
Dr. Anton Naumov	Jan 2008	Electric Field Quenching of Single-Walled Carbon Nanotube Photoluminescence	2011	Advanced Characterization and optical properties of single-walled nanotubes and graphene oxide
Dr. Paul Mattione	2007	Kinematic Fitting of Detached Vertices	2011	$K^*(892)$ and $K+S^*(1385)$ -Photoproduction on the Deuteron
Dr. Yuan Mei			2011	Direct Dark Matter Search with the XENON 100 Experiment
Dr. Hao Lu	Jan 2009	Frictional properties of Vertically Aligned Multiwalled Carbon Nanotube and Fluorinated Nano Diamond film and The Reverse Stick-slip behavior	2011	Electromechanical Investigation of Low Dimensional Nanomaterials for NEMS Applications
Dr. Yean-An Liao			2011	Strongly Interacting Fermi Gases in 3D and 1D
Dr. Ramsey I. Kamar	2006	Measurement of the Interactions in a Paired Zero Temperature $^6\text{Li}$ Gas Throughout the BEC-BCS Crossover	2011	Biophysical interactions of the OHC Motor Protein Prestin: A study at the single molecule level
Dr. Yen Sun	Jan 2010	The Bound States of Amphipathic Drugs in Lipid Bilayers: Study of Curcumin	2011	Methods of using giant unilamellar vesicles for studying membrane-molecule and membrane-membrane interactions
Dr. Roman Gomez	2007	Characterization of the Xenon-10 Dark Matter Detector with Regard to Electric field and Light Response	2011	Simulation and Optimization of ESA Designs for Space Plasma Missions
Dr. Brendan Wyker	2008	Realization of the Bohr Atom	2011	High Angular Momentum Rydberg Wave Packets

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Dr. Yanhua Dai	Jan 2010	Magnetotransport in Zener Tunneling Regime in a High-Mobility Two-Dimensional Hole System	2011	Quantum Transport and Microwave Response in Modulated High-Mobility Two-Dimensional Electron Systems
Dr. Yang Song	2008		Dec 2010	Space Weather Event Modeling of Plasma Injection Into the Inner Magnetosphere with the Rice Convection Model
Dr. Cary Pint	2009	Vertically Aligned Single-walled Carbon Nanotube Growth From Fe-Mo Catalyst; an Experimental and Modeling Approach to Why Deposition Order Matters	Dec 2010	Synthesis, Transfer Printing, Electrical and Optical Properties, and Applications of Materials Composed of Self-Assembled, Aligned Single-Walled Carbon Nanotubes
Dr. Daniel Ward	Jan 2008		Dec 2010	Electrical and Optical Characterization of Molecular Nanojunctions
Dr. Yi Chen	Jan 2009		Dec 2010	Centrifugally Driven Radial convection of Plasma in Saturn's Inner Magnetosphere
Dr. Betty Rostro	2006	Earned MS in MEMS	Dec 2010	
Dr. Dennis Dean Neufeld	2007	An Ultra-Compact Retarding Potential Mott Polarimeter	Dec 2010	Interaction of Xenon Rydberg Atoms with Conductive Surfaces: The Effects of Stray Fields
Dr. Jiankui He	Jan 2009		Dec 2010	Spontaneous Emergence of Hierarchy in Biological Systems
Dr. Dennis Mackin	Jan 2008	Multivariate Search for the Lightest Supersymmetric Partner of the Top Quark	Dec 2010	A Search for the Lightest Supersymmetric Partner of the Top Quark at $D\bar{D}$
Dr. Anne Sandmann	2008	3D Simulations of Magnetic Fields in the Solar Atmosphere: Preparing for STEREO Data Analysis	Dec 2010	Magnetic Modeling of the Solar Corona
Dr. Ramkumar Balasubramanian	Jan 2009		2010	Forecasting Geomagnetic Activity Indices Using the Boyle Index Through Artificial Neural Networks

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Dr. Yanpeng Wu		Plasmon Hybridization and Finite Difference Time Domain (FDTD) Study on Non-concentric Nanoshells (paper, non-thesis)	2010	Plasmonic Properties of Metallic Nanostructures with Reduced Symmetry
Dr. Hui Zhan	Jan 2008	Temperature Dependence of Terahertz Emission from InMnAs	2010	Applications of Surface Plasmon Polariton in Terahertz Spectral Regime
Dr. Chanjuan Sun	Jan 2008	Magneto-Optical Spectroscopy of (III,Mn)V Ferromagnetic Semiconductors	2010	Magneto-Optical Spectroscopy of Novel Ferromagnetic Materials
Dr. Yenny Natali Martinez de Escobar	2005	Studies of the $5s^2 1S_0$ -- $5s 5p^3 P^1$ Transition in Atomic Strontium	2010	Bose-Einstein Condensation of $^{84}\text{Sr}$
Dr. Daniel Dries	Jan. 2006	Fabrication of a High Resolution Relay Lens for Use in Imaging Ultra-Cold Quantum Gases	2010	Transport Properties of a Bose-Einstein Condensate with Tunable Interactions in the Presence of a Disordered or Single Defect Potential
Dr. Kristjan Stone	Jan. 2008	B-Periodic Oscillations in Microwave Irradiated High Mobility 2D Electron Gases -- non-thesis	2010	Milimeter Wave Transmission Spectroscopy of 2D Electron and Hole Systems
Dr. Errol Summerlin	Jan. 2006	Modeling Accelerated Pick-up Ion Distributions at an Interplanetary Shock	Jan. 2010	Diffusive Acceleration of Particles at Collisionless Magnetohydrodynamic Shocks
Dr. Jian Yang	Jan 2009	Interchange Instability in a Rice Convection Model Simulation of the 18 April 2002 Sawtooth Event	Jan. 2010	Inner Magnetospheric Modeling During Geomagnetic Active Times
Dr. Jianhang Zhou	Jan 2007	Construction of a New Detector, and Calibration Strategies, for Start Timing in the STAR Experiment at RHIC	Jan. 2010	Light (Anti-)Nuclei Production in the STAR Experiment at RHIC
Dr. Feng Hao	Jan 2007	Plasmonic Structure of the Metallic Nanosphere/Thin Wire System -- non-thesis	Jan. 2010	Plasmon Hybridization in Complex Metallic Nanostructures

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Dr. Tae-Ho Park	2006		Jan. 2010	Plasmonic Properties of Metallic Nanostructures
Dr. Zachary Keane	2006	Magnetoresistance of Atomic-Scale Electromigrated Nickel Nanocontacts -- non thesis	Jan. 2010	Transport Phenomena in Molecular-Scale Devices
Dr. Konstantinos Tsekouras	Jan 2008	Dynamic Evolution of Spin-1 and Spin-2 Dipolar BECs	Jan. 2010	Coupled Simple Exclusion Process Models
Dr. Nolan Harris	2006	Disorder in DNA-Linked Gold Nanoparticle Assemblies	Jan. 2010	Nanoscale Manipulation and Studies of Individual Biomolecules and DAN-Based Nanostructures
Dr. Robert Carver	2005	A Model for Nucleation and Growth of SWNTS via the HiPco Process: A Catalyst Concentration Study(published paper)	Jan. 2010	Shocks and Jets from the Laboratory Environment to the Astrophysical Regime: Transforming AstroBEAR Into an All Purpose MHD Simulation Package
Dr. Nissanka Wickremasinghe	Jan. 2006	Protein Crystals as Scanned Probes for Molecular Recognition Atomic Force Microscopy--published paper	Jan. 2010	Charge Regulation in Lipid Membranes due to Lipid Mobility
Dr. Xi Zhang	Jan. 2008	Molecular Basis for Specificity in Druggable Kinome	Jan. 2009	Specificity in the Druggable Kinome: Molecular Basis and its Applications
Dr. Jianping Chen	Jan. 2008	Protein Wrapping and Protein Hydration	Jan. 2009	Molecular Basis of Gene Dosage Sensitivity
Dr. Enrique Munoz	Jan. 2007	Quasispecies Theory for Multiple-Peak Fitness Landscapes	Jan. 2009	Statistical Mechanics of Quasispecies Theories of Molecular Evolution
Dr. Nolan Nicholas	Jan. 2007	Templated Growth of Graphene: A Novel Method of Efficient Graphene Synthesis	Jan. 2009	On the Fabrication and Utilization of Vertically Aligned Single Walled Carbon Nanotube Structure
Dr. Fei Le	Jan. 2006	Plasmon Hybridization in Metallic Nano-Particles Near Conducting Films	Jan. 2009	Plasmonic Properties of Nanoparticle-Film Systems and Periodic Nanoparticle Arrays
Dr. Aaron Coyner	2005	Temporal and spatial Relationships Between Ultraviolet and Hard X-Ray Emission in Solar Flares	Jan. 2009	Multi-wavelength Analysis of Solar Transient Phenomena

Name	MA/MS Date	MA/MS Thesis	Ph.D. Date	Dissertation
Dr. Jonah Shaver	N/A	N/A	Jan. 2009	High Field Magneto-optical Spectroscopy of Semiconducting Single-walled Carbon Nanotubes
r. Wangchen Wang	2006	Interactions of Highly Charged Cationic Peptides and Large Anions with Lipid Bilayers	Jan. 2009	Structural Study on Lipid Membrane by X-ray Anomalous Diffraction
Dr. Rui Liu	Jan. 2007	Hard X-Ray Production in a Failed Filament Eruption -- non-thesis	Jan. 2009	Dynamics of Solar Eruptive Filaments
Dr. Xin Tao	N/A	N/A	2009	Hamiltonian Theory and Stochastic Simulation Methods for Radiation Belt Dynamics
Dr. Zhuoquan Yuan	N/A	N/A	2009	Quantum Transport in Spatially Modulated Two-Dimensional Electron and Holesystem
Dr. Shou Qian	Jan. 2009	Structure of the Alamethicin Pore Reconstructed by X-ray Diffraction	2009	Structure and Mechanism of Peptide-Induced Membrane Pores
Dr. Gary Kilper	Jan. 2007	Observational Analysis of the Compositional Variation in Solar Filaments	2009	Mass Composition and Dynamics in Quiet Sun Prominences
Dr. Yi Yang	N/A	N/A	2009	Probing Lipid Membrane Electrostatics
Dr. Han Wu	N/A	N/A	2009	Rice Convection Model Simulations of the Centrifugal Interchange Instability in the Magnetospheres of Jupiter and Saturn
Dr. Jeffrey Mestayer	Jan. 2007	Engineering Very-High- $n$ Polarized Rydberg States and Behavior at High Scaled Frequencies	2009	Rydberg Atom Wavepacket Dynamics in One and Two-Dimensions
Dr. Paul Ontiveros	2006	A Flexible Approach to Modeling the Storm-Time Region 2 and Magnetopause Currents	2009	Synthetic Magnetogram Calculations from Magnetosphere-Ionsphere Coupling Models
Dr. Hao Yang	Jan. 2006	Measuring the Magnetic Field on the Classical T Tauri Star TW Hydrae	2009	The Magnetic Fields of Young Stars



Name	MA/MS Date	MA/MS Thesis	Ph.D. Date	Dissertation
Dr. Seiji Yamamoto	N/A	N/A	2009	Magnetism and Fermi Surface in Heavy Fermion Metals
Dr. Deirdre Wendel	Jan. 2006	Current Structure and Motion of a Northward IMF X-Line	2009	Topology and Convection of a Northward Interplanetary Magnetic Field Reconnection Event
Dr. Xiangfeng Wang	Jan. 2006	Development of a Coherent THz Magneto-Spectroscopy System	2009	Time-Domain Terahertz Magneto-Spectroscopy of Semiconductors
Dr. Hao Zhou	Jan. 2006	Sculpting the Immunological Response to Dengue Fever by Polytopic Vaccination--published paper	Jan. 2008	Stochastic Simulation for Viral Diseases: Dengue and Avian Influenza
Dr. Gregory Pawloski	2004	Testing of the Muon Port Card and Related Electronics for the CMS Encap Muon Trigger System	Jan. 2008	The Study of WY Production at DO: Anomalous Coupling Limits and the Radiation Amplitude Zero
Dr. Sungbae Lee	Jan. 2005	Quantum Coherence and Time-Dependent Conductance Fluctuations in Ferromagnetic Nanowires	Jan. 2008	Electron Transport in Ferromagnetic Nanostructures
Dr. Sampad Laha	2005	Kinetic Energy Oscillations in Annular Regions of Ultracold Neutral Plasma	Jan. 2008	Ion Dynamics in Strongly Coupled Plasmas
Dr. Clayton Simien	Jan. 2005	422 nm Laser	Jan. 2008	Early Time Ion Dynamics and Progress Towards Laser Cooling in an Ultracold Neutral Plasma
Dr. Colleen Nehl	Jan. 2005	Scattering Spectra of Single Gold Nanoshell	Jan. 2008	Single Nanoparticle Spectroscopy: Plasmonic Properties and Biosensing Applications
Dr. Harold White	N/A	N/A	2008	Analysis of Low Frequency Whistler Wave Occurrences in the Nightside Venus Ionosphere
Dr. Antoun Daou	2005	Nonthermal Hard X-Ray Flux Saturation in Solar Flares	2008	Observational and Theoretical Interpretation of Energetic Particle Transport in Solar Flares
Dr. Xiaoyan Xing	Jan. 2007	Criterion for Interchange Instability in Plasma Connected to a Conducting Ionosphere	2008	Criterion for Interchange Instability in the Plasma Sheet

Name	MA/MS Date	MA/MS Thesis	Ph.D. Date	Dissertation
Dr. Daniel Brandl	2005	Plasma Hybridization in Nanoshell Dimers	2008	Plasmon Hybridization in Generalized Metallic Nanostructures
Dr. Sarah Nagel	2004	A Narrow Linewidth Diode Laser System for Strontium Laser Cooling Applications	2008	Ultracold Collisions in Atomic Strontium
Dr. Yi Liu	2005	Dynamics of Rydberg Electron Transfer to CH <sub>3</sub> CN: Velocity Dependent Studies	2008	Study of Dipole-Bound Negative Ions: Formation Dynamics and Collisional Properties
Dr. Zhongqing Ji	2008	Study of the Radio Frequency Single Electron Transistor: Principles and Applications	2008	Towards the Quantum Limit: A Single Electron Transistor Analysis
Dr. Hua Fan	N/A	N/A	2008	Wet-spinning of Neat Single-Walled Carbon Nanotube Fiber from 100+% H <sub>2</sub> SO <sub>4</sub>
Dr. Hardin Dunham	2005	Ionization of Xe( <i>nf</i> ) Rydberg Atoms at a Conducting Surface	2008	Angular Dependence of Xenon Rydberg Atom Ionization at Conducting and Semiconducting Surfaces
Dr. Michael Cooke	Jan. 2005	Operation and Efficiency of the D0 Central Track Trigger	2008	WW Production Cross Section Measurement and Limits on Anomalous Trilinear Gauge Coupling
Dr. Mark Junker	Jan. 2005	Photoassociation in a Quantum Degenerate Gas of Li	2008	Single Photon Photoassociation in a Li BEC Near a Feshbach Resonance
Dr. Aaron Trionfi	2004	Measuring Electronic Coherence in Metals: Comparing Weak Localization and Time-Dependent Conductive Fluctuations	Jan. 2007	Electron Phase Coherence in Mesoscopic Normal Metal Wire
Dr. Behrang Hamadani	2004	Electron Charge Injection in Organic Thin Film Transistors	Jan. 2007	Electronic Charge Injection and Transport in Organic Field-Effect Transistors
Dr. Yue Fei	N/A	N/A	Jan. 2007	Simulation of Radiation Belt Electron Diffusion

Name	MA/MS Date	MA/MS Thesis	Ph.D. Date	Dissertation
Dr. Sasa Zaric	N/A	N/A	May 2007	Optical Spectroscopy of Single-Walled Carbon Nanotubes in High Magnetic Fields
Dr. Felicia Tam	Jan. 2005	Geometrical Parameters Controlling Sensitivity of Nanoshell Plasmon Resonances to Changes in Dielectric Environment	2007	Optimization of the Nanoshell Geometry for Plasmon Enhanced Fluorescence
Dr. Wei Zhao	Jan. 2005	The Kicked Atom: Characterization of Quasi-One-Dimensional Rydberg Atoms and Their Nonlinear Dynamics	2007	Engineering Atomic Wavepackets in Very-High-n Rydberg Atoms
Dr. Bin Yu	N/A	N/A	2007	Simulation of Dynamics of Radiation Belt Electrons during Geomagnetic Storms Driven by High Speed Solar Wind Streams
Dr. Madhu Thalakulam	2004	Double Quantum Dot Coupled to a Radio-Frequency Single Electron Transistor: Quantum Measurement and Back Action	2007	Development and Study of Charge Sensors for Fast Charge Detection in Quantum Dots
Dr. Priya Gupta	N/A	N/A	2007	Expansion and Electron Temperature Evolution in an Ultracold Neutral Plasma
Dr. Marcos Huerta	2004	Forbidden Line Emission in the Classical T Tauri Spectroscopic Binaries DQ Tau and UZ Tau-E Monitored over an Orbital Period	2007	A Search for Low Mass Companions and a New Determination of Effective Temperatures for T-Tauri Stars
Dr. Guthrie Partridge	2004	An Improved System for Creating Ultracold Fermi Gasses of $^6\text{Li}$	2007	Pairing of Fermionic $^6\text{Li}$ Throughout the BEC-BCS Crossover
Dr. Daniel Kocevski	2003	The Connection Between Spectral Evolution and GRB Lag	Jan. 2006	The Investigation of Intrinsic Spectral and Temporal Properties of Gamma-ray Bursts
Dr. Lam Yu	2004	Zero-bias anomalies in electrochemically fabricated nanojunctions--paper published in Applied Physics Letter	Jan. 2006	Transport in Single Molecule Transistors

Name	MA/MS Date	MA/MS Thesis	Ph.D. Date	Dissertation
Dr. Bin Gong	2003	Observations of Ultra-Low Frequency Waves in the Martian Magnetosheath and Magnetic Pileup Region--paper submitted to the Journal of Geophysical Research	Jan. 2006	Low Frequency Plasma Waves at Mars
Dr. Jared Espley	2004	Observations of Ultra-Low Frequency Waves in the Martian Magnetosheath and Magnetic Pileup Region--paper submitted to the Journal of Geophysical Research	Jan. 2006	Low Frequency Plasma Waves at Mars
Dr. Ionut Prodan	2001	Experimental Studies of the NaK3II and 1 States	Jan. 2006	Hybrid Density Function Studies of Bulk Actinide Oxides
Dr. Myung Jong Kim	N/A	N/A	2006	Continued Growth of Single-Walled Carbon Nanotubes from Open-Ended SWNT Substrates
Dr. Diane Larrabee	2004	N/A	2006	Spectroscopy of Narrow Gap III-V Semiconductor Quantum Wells
Dr. Fred Kontur	2000	Surface Studies Using Spin-Polarized Ion Neutralization Spectroscopy	2006	The Dynamics of Spin-Polarized He+ Ion Neutralization at Clean Metal Surfaces and Van Der Waals Solids
Dr. Andrew Askew	2001	A Comparison of Multivariate Data Analysis Techniques as Applied to the Identification of Electrons and Taus	Jan. 2005	Measurements of the WY->uvy Cross Section, Limits on Anomalous Trilinear Vector Boson Couplings, and the Radiation Aplitude Zero in pp Collisions
Dr. Menalaos Sarantos	2000	An Open Magnetosphere Model for Mercury	2005	Ion Trajectories in Mercury s Magnetoshpere
Dr. Colby Lemon	2003	Computing Magnetospheric Force Equalibria Using MHD	2005	Simulating the Driven Magnetosphere
Dr. Chris Oubre	2003	Interaction of Xenon Rydberg Atoms Near a Metallic Surface in an Electric Field	2005	Finite-Difference Time-Domain Studies of the Optical Properties of Metallodielectric Nanostructures

Name	MA/MS Date	MA/MS Thesis	Ph.D. Date	Dissertation
Dr. Lai Ding	2002	Studies of the Outer Membrane of Gram-negative Bacteria	2005	New Approaches for Investigating Membrane Problems. A Study by Oriented Circular Dichroism and X-Ray, Neutron Diffraction
Dr. Kaan Ozturk	N/A	N/A	2005	Bifurcation of Drift Shells near the Dayside Magnetopause
Dr. Jun Sun	2002	Pseudo-Gap and Magnetic Metal of Disordered Interacting Electrons in 2D	Jan. 2004	Impurity Effects in Interacting Quantum Many-Body Systems
Dr. Lijun Zhu	2003	Universally Diverging Gruneisen Parameter Close to Quantum Critical Points--paper submitted to Physical Review Letters	Jan. 2004	Quantum Phase Transitions in Strongly Correlated Metals
Dr. Shou Ji	2003	Double-Adiabatic-MHD theory for motion of a thin magnetic Filament and Possible Implications for Bursty Bulk Flows	2004	Double-Adiabatic-MHD Theory of a Thin Filament in the Geotail and Possible Applications to Bursty Bulk Flows and Substorms
Dr. Takao Doi	N/A	N/A	2004	Internal Velocities in the Orion Nebula
Dr. Josef Koller	N/A	N/A	2004	Vortices in the Co-Orbital Region of Embedded Proto Planets
Dr. Jennifer Steele	N/A	N/A	2004	Plasmonics of Nanostructures in Planar Geometries
Dr. Leonard E. Suess	2002	Novel Permanent-Magnet Penning Trap for Studies of Dipole-Bound Negative Ions	2004	Comparative Studies of Negative Ion Formation in Rydberg Atom Collisions With Attaching and Polar Targets
Dr. Lars M. Ericson	2001	Strength Characterization of Suspended Single-Wall Carbon Nanotube Ropes.	2004	Macroscopic Neat Single-Wall Carbon Nanotube Fibers
Dr. Joseph Jackson	2000	Metal Nanoshell Fabrication and Application to Surface Enhanced Raman Scattering	2004	Surface Enhanced Raman Scattering with Metal Nanoshells

Name	MA/MS Date	MA/MS Thesis	Ph.D. Date	Dissertation
Dr. Kevin E. Strecker	2002	Sympathetic Cooling of a Bose/Fermi Mixture of Lithium to Quantum Degeneracy	2004	Tunable Interaction in Quantum Degenerate Lithium
Lijun Zhu	2003	Universally Diverging Grüneisen Parameter Close to Quantum Parameter and Magnetocaloric Effect Close to Quantum Critical Points--paper submitted to Physical Review Letters	2004	Quantum Phase Transitions in Strongly Correlated Metals
Jennifer Steele			2004	Plasmonics of Nanostructures in Planar Geometries
Josef Koller		Stochastic Heating of Small Dust Particles	2004	Vortices in the Co-Orbital Region of Embedded Proto Planets
Takao Doi			2004	Internal Velocities in the Orion Nebula
Dr. Shuo Ji			2004	Double-Adiabatic-MHD Theory of a Thin Filament in the Geotail and Possible Applications to Bursty Bulk Flows and Substorms
Dr. David R. Streutker	2001	A Remote Sensing Study of the Urban Heat Island of Houston, Texas.	2003	A Study of the Urban Heat Island of Houston, Texas
Dr. Katherine Keilty	2000	Modeling of Laser-Generated Radiative Blast Waves	2003	Modeling of Laser-Generated Radiative Blast Waves, With Applications to Late-Term Supernova Remnants
Dr. Vance Henize	2000	Comparing magnetic field models to magnetospheric cusp positions observed by the Polar MFE instrument	2003	High Latitude Electron Density Observations from the IMAGE Radio Plasma Imager
Dr. Yue Chen	2001	On The Role of Charge Exchange in the Formation of the Martian Magnetic Pileup Boundary.	2003	Effects of the Charge Exchange of Solar Wind with the Martian Exosphere

Name	MA/MS Date	MA/MS Thesis	Ph.D. Date	Dissertation
Dr. Brent A. Buckalew	2001	The Starburst-Interstellar Medium Interaction in NGC 1569 I. Location and Nature of He II Sources Using Hubble Space Telescope WFPC2 Imagery.	2003	Comparison of Clusters With and Without Detectable Wolf-Rayet Stars in Starburst Galaxies Using Optical, Near-Infrared Imagery and Spectroscopy
Dr. Thomas Weiss	N/A	N/A	2003	Effects of Membrane Inclusions on Lipid Bilayer Structure and Dynamics Studied with Elastic and Inelastic X-Ray Scattering
Dr. Wei Lu	2000	Electrical Transport in a Single-Electron Transistor Coupled to a Tunable Environment	2003	Single-Electron Transistor: Effects of the Environment and Detecting Electron Motion in Real Time
Dr. Angela Bellavance	2000	KTev E799II search for the lepton-flavor-number violating decay $KL > 0 e$	2003	Search for the Lepton-Flavor-Number Violating Decay $KL > 0 \pm e$ in the Full E799II KTeV Data Set
Dr. Christopher L. Stokely	1998	Design, construction, and commissioning of the Time-of-Flight Detector for BNL-AGS Experiment 896	2003	The Study of the Perturbation of Rydberg Atoms by Half Cycle Pulses and by Surfaces
Dr. Emil Prodan	N/A	Resonant States: Three Theoretical Results	2003	Theoretical Investigations of the Electronic Structure and Optical Properties of Metallic Nanoshells
Dr. Stephen Naehr	2000	Modeling the Dynamics of Outer Radiation Belt Electrons	2002	Quantitative Modeling of Time-Dependent Phenomena in the Magnetospheric Magnetic Field
Dr. Timothy Glover	N/A	N/A	2002	Measurement of Plasma Parameters in the Exhaust of a Magnetoplasma Rocket by Gridded Energy Analyzer and Emissive Langmuir Probe
Dr. Juanjuan Mao	Apr. 2001	Interaction Between Hydrogen and Vacancies in Metal	2002	Thermodynamics of Hydrogen and Vacancies in Metals
Dr. Michael Casavant	2000	Assemblies of Magnetically Aligned Carbon Nanotubes	2002	Neat Macroscopic Membranes of Aligned Carbon Nanotubes
Dr. James C. Lancaster	1998	A Low-energy, Electron-spin-polarized He <sup>+</sup> Ion Source for Use in Surface Studies	2002	Investigating the Dynamics of Ion-Surface Interactions Using Electron-Spin-Polarized He <sup>+</sup> Ions

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Dr. Kristofer Kainz	1998	Design Construction and Commissioning of the Exit Charge Detector for BNL-AGS Experiment 896	2002	Neutral Strange Particle Spectra With Direct Daughter Particle Identification in 11.6A GeV/c Au+Au Collisions
Dr. Jie Zhang	1995	Production, Properties and Purification of Carbon Nanotubes	2002	Pure and Binary Associating Fluids Near Active Surfaces
Dr. Andrew Urquhart	N/A	N/A	2001	Solar Wind Control of the Open Magnetosphere: Comparison of GGS/Polar Images and Theory.
Dr. Wayne Keith	Apr. 2000	Development of an Ion/Electron Plasma Spectrometer	2001	Theory and Measurements of the Cusp/Magnetopause Current Layer.
Dr. Trevor Garner	N/A	N/A	2001	A Case Study of the June 4-5, 1991 Magnetic Storm Using the Rice Convection Model.
Dr. Mark Mulrooney	N/A	N/A	2001	A 3.0 Meter Liquid Mirror Telescope.
Dr. J. Llewellyn J. Smith	1999	Non-Fermi Liquids in the Extended Hubbard Model	2001	Non-fermi Liquids in Strongly Correlated Electron Systems.
Dr. John Wolfgang	2000	Inelastic Ion Scattering from Semiconductor Surfaces	2001	Hot Electron Dynamics and Impurity Scattering on Gold Nanoshell Surfaces.
Dr. Lin Yang	1998	Neutron Off-plane Scattering of Aligned Membranes	2001	Cooperative Phenomena of Antimicrobial Peptides in Membranes: A study by Neutron and X-ray Diffraction.
Dr. Priya Parthasarathy	1997	Decay Energetics and Lifetime Measurements of Transient Negative Ions Using Rydberg Atoms.	2001	Use of Rydberg Atoms as a Microscale Laboratory to Probe Low Energy Electron-Molecule Interactions.
Dr. Robert L. Merrill	1998	Absolute Differential and Integral Cross Sections for Charge Transfer of State-selected keV O <sup>+</sup> with O <sub>2</sub>	2001	Andreev Reflection and Spin Injection into d-wave, p-wave, and s-wave Superconductors.
Dr. Jordan M. Gerton	1998	Laserless Slow Atom Source for Loading Atom Traps	2001	Molecular Spectroscopy of Bose-Einstein Condensates With Attractive Interactions.



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Dr. Ian McAlexander	1995	Precised determination of the 2P radiative atomic lifetime of lithium using photo-associative spectroscopy	2001	Collisional Interations in an Ultracold Lithium Gas.
Mr. Dechun Lin	N/A	N/A	2000	X-Ray and Gamma-Ray Emissions from 2000-Jan Galactic Black Hole Candidates: Observations and Analysis
Dr. Parviz Ghavamian	N/A	N/A	2000	Optical Spectroscopy and Numerical Modeling of Nonradiative Shocks in Young Supernova Remnants
Dr. Greg Hale	1997	Triplet Exciton Dynamics in Conjugated Polymer Films.	2000	Impeded Photo-Oxidation of Conducting Polymer Films Using Metal Nanoshells
Dr. Simon J. Taylor	1996	Scintillation Detector Development for the Solenoidal Trackerat RHIC (STAR) and the CEBAF Large Acceptance Spectrometer (CLASS).	2000	Radiative Decays of Low-Lying Excited-State Hyperons
Dr. Pavel Nikolaev	1996	Catalytic growth of single-walled nanotubes by laser vaporization	2000	Gas Phase Production of Single-walled Carbon Nanotubes
Dr. Thad Harroun	1997	Membrane Mediated Peptide Interaction: Gramicidin In-plane Distribution by X-ray Scattering.	2000	Hydrophobic Matching and Membrane Mediated Interactions in Lipid Bilayers
Dr. Carla Finch	1996	Electron Attachment Standards Using Rydberg Atoms	2000	Dissociative and Non-dissociative Electron Attachment Processes Studied Using Rydberg Atom Techniques