Appendix – Collaborations

Professor N. Akhmediev

Project: Numerical Modelling of Dissipative Systems.
Partner: Dr J.M. Soto-Crespo, Instituto de Óptica, CSIC, Madrid, Spain

Project: Optical Bullets in Dissipative Systems.
Partner: Dr Ph. Grelu, Laboratoire de Physique de l'Université de Bourgogne, Dijon, France

Project: Multicomponent Nonlinear Schrödinger Equation with Mixed Nonlinearities
Partner: Dr T. Kanna, Bharathidasan University Tiruchirapalli, Tamil, India

Project: Method of Moments in Dissipative Systems
Partner: Dr E. Tsoy, Senior Research Fellow, Physical-Technical Institute of the Uzbek Academy of Sciences, Tashkent, Uzbekistan

Dr C.H. Arns

Project: Multi-Dimensional NMR Inverse Laplace Spectroscopy
Partner: Professor P.T. Callaghan, Victoria University of Wellington, New Zealand

Project: Transport Properties from Nuclear Magnetic Resonance
Partner: Professor P.T. Callaghan, Victoria University of Wellington, New Zealand

Project: Second-Order Analysis for Curvature Measures
Partners: Professors D. Stoyan, TU Bergakademie Freiberg, Germany and K.R. Mecke, University of Erlangen-Nürnberg, Germany

Project: Elastic Properties of Partially Saturated Rocks
Partner: Professor B. Gurevich, Curtin University of Technology

Project: Lattice Boltzmann Techniques for Unresolved Porosity
Partner: Dr N. Martys, National Institute of Standards and Technology, United States

Project: Effective Medium Theories from Minkowski Functionals
Partner: Professor K.R. Mecke, University of Erlangen-Nürnberg, Germany

Project: Dispersive Flow in Porous Media
Partners: Professor P.M. Adler, Institut de Physique de Globe de Paris , France and Dr M. Close, Environmental Science & Research, New Zealand

Dr T. Aste
Project: Glasses and Granular Materials
Partners: Professor A. Coniglio and Dr M. Nicodemi, University of Naples, Italy

Project: Disordered Packings in Heterogeneous Colloids
Partners: Professor L. Gauckler and Dr F. Filser, ETH Zurich, Switzerland

Dr T. Aste and Dr T. Di Matteo

Project: Statistical Mechanics Approaches in the Study of Density Fluctuations in Granular Materials
Partners: Professor H. Swinney and Dr M. Schroeter, University of Texas at Austin, United States

Mr N. Balcon

Project: Cotutelle Thesis
Partner: University Paul Sabatier Toulouse, France

Mr N. Balcon and Professor R. Boswell

Project: Dielectric Barrier Discharges
Partners: Drs J.P. Boeuf and G. Hagelaar, University Paul Sabatier Toulouse, France

Dr K.G.H. Baldwin

Project: Ultrahigh Resolution OPO Laser Sources
Partner: Professor B. Orr, Macquarie University

Dr K.G.H. Baldwin and Professor B.R. Lewis

Project: High Resolution XUV Laser Spectroscopy of Isotopic Nitrogen
Partner: Professor W. Ubachs, Vrije Universiteit, Amsterdam, Netherlands

Dr R. Ball

Project: A Distilled Turbulence Refinery
Partner: Professor C. Tebaldi, Politecnico di Torino, Italy

Project: Bifurcations in the Magnetosphere
Partner: Professor W. Horton, University of Texas Austin, United States

Mr S. Barik, Drs L. Fu and H. H. Tan, Professor C. Jagadish

Project: Modelling of Semiconductor Quantum Dots
Partners: Professor P. Harrison and Mr N. Vukmirovic, University of Leeds, United Kingdom

Dr T.T. Barrows

Project: Glacier History of New Zealand
Partners: Dr P. Almond, Lincoln University, New Zealand, Dr R. Rose, University of Canterbury, New Zealand

Project: Glacier History of Mt Giluwe, Papua New Guinea
Partners: Dr M. Prentice, University of New Hampshire, Professor G. Hope, Australian National University

Project: Glacier History of Luthers Pass, Sierra Nevada, United States
Partner: Dr D. Clark, Western Washington University, United States

Project: Exposure Dating of Wolfe Creek Crater, Northern Territory
Partners: Professor G. Miller, University of Colorado and Dr J. Magee, Australian National University

Project: Long Term Climate Change from Deep-Sea Sediments
Partners: Professor P. De Deckker, Mr M. Spooner, Australian National University and Dr S. Juggins, University of Newcastle, United Kingdom

Professor M.T. Batchelor and Dr X.W. Guan

Project: Quantum Spin Ladders
Partners: Drs N. Oelkers, University of Queensland and Z. Tsuboi, Okayama Institute for Quantum Physics, Japan

Professors M.T. Batchelor and V. Bazhanov, Drs X.W. Guan and M. Bortz

Project: Quantum Gases
Partners: Dr J. Links and Dr N. Oelkers, University of Queensland

Project: Stromatolite Growth
Partners: Dr R. Burne Australian National University, A/Professor B. Henry, University of New South Wales and Dr J. Kaandorp, Vrije Universiteit Amsterdam, The Netherlands

Dr B. Blackwell

Project: Data mining and Analysis of MHD fluctuations in Heliotron-J
Partner: Dr K. Nagasaki, Kyoto University, Japan

Dr G. Borg

Project: Collaboration with Standard Communications on ARC Grant and Application for Scientific License for Radio Emission
Partners: Messrs Z. Zhao, D. Dries, G. Long and J. Leong

Professor R. Boswell

Project: Plasma Ionization through Wave-particle Interaction in a Capacitively Coupled Radio-Frequency Discharge
Partners: Professor U. Czarnetzki, Drs D. O'Connell and T. Gans, Ruhr-University Bochum, Germany

Project: Development of a High-Brightness Source for Focused Ion Beam Applications
Partner: FEI Company, United States

Professor R. Boswell and Dr C. Charles

Project: Low Temperature Fuel Cells
Partner: Dr Pascal Brault, GREMI, Université d'Orléans, France

Project: Double Layers in the Solar Corona

Partner: Professor E. Marsch, Max Planck Institute, Lindau, Germany

Project: Helicon Double Layer Thruster
Partners: Auspace, Astrium, European Space Agency

Professor P. Bouwknegt

Project: Mathematical Foundations of String Theory, in Particular the Study of Symmetries (Dualities) and Underlying Generalizations of Geometry. Gerbes. Twisted K-Theory
Partners: Professor V. Mathai, University of Adelaide, Drs K. Hannabuss, Oxford University, H. Sati, Yale University, A. Flournoy, Australian National University, J. Evslin, University of Brussels, B. Jurco, University of Munich and Professors K. Pilch, University of Southern California and I. Grojnowski, University of Cambridge

Professor A.P. Byrne

Project: Ion Implanter for Radioisotopes
Partner: Dr H. Timmers, ADFA, University of New South Wales

Project: Superallowed Fermi decays
Partner: A/Professor P.H. Barker, University of Auckland, New Zealand

Professor A.P. Byrne and Dr M.C. Ridgway

Project: PAC Studies of Materials
Partner: Dr R. Vianden, ISKP, Universitaet Bonn, Germany

Project: Materials Modification by Swift Heavy Ion Irradiation
Partner: Professor W. Wesch, University of Jena, Germany

Mr A. Caillard

Project: CoTutelle Thesis
Partner: Université de Orleans, France

Dr C. Charles and Professor R. Boswell

Project : Theory for Formation of Current-Free Double Layer
Partner: Professor M. Lieberman, University of California, United States

Project: Laser Induced Fluorescence Measurements of Helicon Double Layers
Partner: Professor E. Scime, University of West Virginia, United States

Project: Trapped and Free Electrons in a Current Free Double Layer
Partner: Professor K. Takahashi, Tohoku University, Japan

Project: Astrophysical Double Layers
Partner: Professor A. Fredriksen, University of Tromso, Norway

Dr C. Charles, Dr A. Caillard, and Professor R. Boswell

Project: Diagnostics of Fuel Cell Electrodes Based on Carbon Nanofibers
Partner: A/Professor Craig Buckley, Curtin University

Dr Y. Chen and Mr A. Glushenkov

Project: Synthesis and Properties of ZnO and VO Nanowires
Partner: Professor Max Lu, University of Queensland

Project: Computer Simulation of High-Energy Ball Milling
Partner: Professor A. Yu, University of New South Wales

Dr Y. Chen, Ms J. Yu and Mr H. Chen

Project: Photoluminescence Spectroscopy of BN Nanotubes Using VUV Synchrotron Source
Partners: Drs D. Yu, ANSTO and B. Zheng, National Synchrotron Research Centre, Taiwan

Dr Y. Chen, Mr H. Chen, Ms J. Yu

Project: Raman Spectroscopy of Single BN Nanotubes
Partner: Professors Z. Chen and S. Shen, Fudan University, China

Drs Y. Chen, Y.J. Chen and L. Fu

Project: Doping BN Nanotubes for Controlled Electric Conductivities
Partner: Professor W. Duan, Tsinghua University, China

Drs Y. Chen, H. Zhang and Mr H. Chen

Project: Field Emission of BN Nanorods and Nanotubes
Partner: Professor D. Yu, Beijing University, China

Dr Y. Chen, Y.J. Chen, Mr H. Chen and Ms J. Yu

Project: Microanalysis of BN Nanotubes and Nanowires
Partners: Professor S. Ringer and Dr Z. Liu, University of Sydney

Drs Y. Chen, Y.J. Chen, Ms J. Yu and Dr B. Li

Project: TEM Investigation of Nanowires and Nanotubes
Partner: Dr J. Zou, University of Queensland

Ms V. Coleman, P. Lever, K. Stewart, Mr S. Barik, Dr H.H. Tan, Professor J.S. Williams and Professor C. Jagadish

Project: Cathodoluminescence Studies of Semiconductor Epitaxial Layers and Quantum Structures
Partner: Professor M.R. Philips, University of Technology, Sydney

Ms V. Coleman, Drs H.H. Tan and S.O. Kucheyev, Professors J.S. Williams and C. Jagadish

Project: Ion Beam Processing of Zinc Oxide
Partners: Professors M. Yano and M. Inoue, Osaka Institute of Technology, Japan

Dr C. Corr

Project : Double Layers in Electronegative Plasmas
Partners : Drs P. Chabert, Ecole Polytechnique, France and N. Plihon, CNRS, France

Dr V. Craig
Project: Nanobubbles
Partners: Professor H. Jun, Shanghai Institute of Applied Physics, China and Dr Z. Wu, Nanchang University, China

Project: Boundary Slip
Partner: Dr W. Ducker, University of Melbourne

Drs V. Craig and C. Neto

Project: A Model for Boundary Slip in Newtonian Liquids
Partner: Dr J. Sader, University of Melbourne

Dr T. Dall

Project: Heavy Ion Stopping in Solids
Partners: Professor H.J. Whitlow, Drs K. Strenstrom, University of Lund, Sweden and H. Timmers, University of New South Wales, Mr S. Shrestha, University of New South Wales and A/Professor D.J. O'Connor, The University of Newcastle

Dr T. Di Matteo

Project: Study of the Income Distributions
Partner: Professor V.M. Yakovenko, University of Maryland, United States

Drs T. Di Matteo and T. Aste

Project: Characterization of Collective Dynamics in Financial Markets and Complex Systems
Partner: Professor R. Mantegna, University of Palermo, Italy

Project: High-frequency Dynamics of Financial Markets (FISR) (funded by the Italian Ministry of Education Research and Technology)
Partner: Dr E. Scalas, University of Piemonte Orientale, Italy

Project: Relationships between the Structure of Social Networks and Productivity
Partner: Professor M. Gallegati, Universita Politecnica delle Marche, Italy

Project: Multiscaling Behaviours in Financial Markets
Partner: Dr M.M. Dacorogna, Converium Ltd Zurich, Switzerland

Drs T. Di Matteo and T. Aste and Professor S.T. Hyde

Project: European Union (EU) Project - COST P10 "Physics of Risk"
Partner: Professor P. Richmond, Trinity College, Ireland

Dr M. Dasgupta

Project: Investigation of the Nuclear Potential through Quasi-elastic Scattering
Partners: Drs K. Hagino and K. Washiyama, Tohoku University, Japan

Dr M. Dasgupta, Professor D.J. Hinde and Dr L.R. Gasques

Project: Quasi-Elastic Scattering of Sulphur at Sub-Barrier Energies
Partners: Professor P.R.S. Gomes, Dr R. Meigikos, Universidade Federal Fluminense, Niterio, Brazil

Dr M. Dasgupta and Professor D.J. Hinde

Project: Reaching the Superheavy Elements
Partners: Drs J.F. Liang, Oak Ridge National Laboratory, United States and K.H. Schmidt, GSI, Darmstadt, Germany

Professor R.L. Dewar and Dr M.J. Hole

Project: Existence and Stability of a Model for Three-dimensional Toroidal Plasma Equilibria
Partner: Dr S.R. Hudson, Princeton University, United States

Professor R.L. Dewar and Dr B.G. Kenny

Project: Quantum Chaos in the Ideal-MHD Spectrum for Stellarators
Partners: Drs C. Nührenberg, Max Planck Institute for Plasma Physics, Germany and T. Tatsuno, University of Maryland, United States

Professor R.L. Dewar, Dr R. Ball and Professor M.T. Batchelor

Project: ARC Research Network – Complex Open Systems Network (COSNet)
Partners: Professors C. Grebogi, University of Aberdeen, United Kingdom, R. MacKay, FRS, University of Warwick, United Kingdom and 42 participants from the Australian National University and other Australian universities

Professor R.L. Dewar, Drs R. Ball, R. Numata, J.S. Frederiksen and Messrs R.F Abdullatif and M. Zidikheri

Project: Studies of Turbulence and Coherent Structures in Quasi Two-dimensional Plasmas and Fluids
Partners: Dr B.D. Scott, Max Planck Institute for Plasma Physics, Germany, Professor C. Tebaldi, Politecnico di Torino, Turin, Italy and Dr E.R. Solano, Laboratorio Nacional de Fusion (CIEMAT), Madrid, Spain

Dr A. Diaz-Torres

Project: Coupled-Channels Effects in Near-Barrier Fusion and Elastic Scattering of Weakly Bound and Halo Light Nuclei
Partners: Drs C. Beck, University Louis Pasteur, Strasbourg, France and N. Keeley, Saclay, Gif-sur-Yvette, France

Project: Modeling Breakup and Fusion of Weakly Bound Nuclei
Partner: Dr J. A. Tostevin, University of Surrey, United Kingdom

Professor G.D. Dracoulis

Project: High-K Isomers
Partners: Professor P.M. Walker, University of Surrey, United Kingdom, Dr F.G. Kondev, Argonne National Laboratory, United States

Project: High-K Isomers in Deformed Nuclei near Stability
Partners: Drs F.G. Kondev and R. Janssens, Argonne National Laboratory, United States

Project: Laser Spectroscopy of Deformed Isomers
Partners: Dr J. Billowes, University of Manchester, United Kingdom, Professor J.A.R. Griffith, University of Birmingham, United Kingdom, and Dr P. Dendooven, University of Jyväskylä, Finland

Professor G.D. Dracoulis, Drs A.P. Byrne and G.J. Lane

Project: Realistic Shell Model Calculations for Trans-Lead Nuclei
Partner: Professor A. Covello, University of Naples, Italy

Project: Neutron Rich Trans-lead Nuclei Using Radioactive Beams
Partners: Professors P.M. Walker, University of Surrey, United Kingdom and G. de France, GANIL, Caen, France

Professor G.D. Dracoulis and Dr T. Kibédi

Project: Nuclear Structure in the N = 74 Region
Partner: Dr A.M. Bruce, University of Brighton, United Kingdom

Project: Isomers in Sb Nuclei
Partner: Dr D. Judson and Professor A. Bruce, University of Brighton, United Kingdom

Professor G.D. Dracoulis and Dr G.J. Lane

Project: Structure of Deformed Odd-odd Nuclei
Partners: Drs C. Günther, University of Bonn, Germany and F.G. Kondev, Argonne National Laboratory, United States

Professor G.D. Dracoulis, Dr G.J. Lane, Dr A.P. Byrne and Dr T. Kibédi

Project: Shape Co-Existence in Very Neutron-deficient Pb Nuclei
Partners: Drs J. Gerl, GST, Germany and A. Andreyev, University of Liverpool, United Kingdom

Project: Residual Interactions in the Pb-region
Partner: Professor K.H. Maier, Niewodniczanski, Institute of Nuclear Physics, Poland

Professor R.G. Elliman

Project: Semiconductor Nanocrystal Memory Devices
Partner: Dr S.H. Choi, Kyung Hee University, Korea

Project: The Synthesis and Properties of Nickel Silicide Nanocrystals

Partner: Professor J.H. Yoon, Kangwon National University, Korea

Project: Mechanical Properties of Silicon Nanostructures
Partners: Mr K.R. Virwani and Professor A.P. Malshe, University of Arkansas, United States, Professor D.K. Sood, Royal Melbourne Institute of Technology

Project: Silicon Based Photonic Devices and Structures
Partner: Professors J. Linnros, Royal Institute of Technology, Kista-Stockholm, Sweden and Drs J. Valenta and I. Pelant, Charles University, Prague, Czech Republic and Professor E. Krausz, Australian National University

Project: Biomedical Applications of Silicon Dioxide Nanowires
Partners: A/Professor S. Bhansali, University of South Florida, United States and Dr D.K. Sood, Royal Melbourne Institute of Technology

Project: Ion Implantation Defects in Group IV Semiconductors
Partner: Professor K. Jones, Ms D. Hickey and Ms L. Edelman, University of Florida, United States

Professor L.K. Fifield and AMS Group

Project: Dating of Marine Cores with Carbon-14
Partners: Drs P. De Deckker and B. Opdyke, Department of Earth and Marine Sciences

Project: Measurement of erosion rates at a range of scales in the Australian landscape using in situ produced 10Be
Partner: Professor J. Chappell, Research School of Earth Sciences

Project: Landscape Evolution in the Southern Highlands Region of NSW, Using ^{10}Be Deposited from the Atmosphere
Partner: Professor R. Wasson, Centre for Resource and Environmental Studies

Project: Studies of Meteorites Using Cosmogenic Isotopes
Partner: Professor G. Herzog, Rutgers University, United States

Project: Dating of Ice in Temperate-Region and Polar Glaciers with ^{32}Si
Partners: Ds U. Morgenstern and A. Zondervan, Geological and Nuclear Sciences, Lower Hutt, New Zealand

Project: Tracing Releases of Plutonium from Nuclear Processing Plants in Russia
Partners: Professor D. Oughton and Drs L. Skipperud, O. Lind, Norwegian University of Life Sciences, Norway and W. Standring, Norwegian Radiation Protection Authority, Norway

Project: Tracing of Groundwater Flow and Mixing in a Number of Australian Aquifer Systems
Partners: Drs R. Habermehl, J. Kellett, Bureau of Rural Sciences and R.G. Cresswell, CSIRO

Project: Tracing of Groundwater Flow in a Natural Analogue of a Nuclear Waste Repository Using ^{36}Cl

Partners: Drs Y. Mahara, Abiko Research Laboratory, Japan and R. Habermehl, Bureau of Rural Sciences, Dr R.G. Cresswell, CSIRO

Project: Exposure Dating of Glacial Landforms in Scotland, and lava Flows in Hawaii
Partners: Professors J. Stone, University of Washington, United States and C. Ballantyne, University of St. Andrews, United Kingdom

Project: Calibration of the Cosmic-Ray Production of Chlorine-36 on Iron in Surface Rocks
Partner: Professor J. Stone, University of Washington, United States

Project: Plutonium as a Tracer of Soil Movement
Partner: Dr G. Hancock, P.Wallbrink, R.Bartley CSIRO Land and Water

Project: Plutonium Measurements by AMS at Low Energy
Partner: Dr L. Wacker, ETH Zurich, Switzerland

Project: S.E. Australian Coastal Rock Platforms – When and How Were They Formed?
Partner: Professor J. Stone, Washington State University, United States

Mr R. Fischer

Project: Few-Cycle Pulses (pulse compression) and Non Phase-Matched Third-Harmonic-Generation in Highly Nonlinear Fibres
Partner: Professor John Dudley, Université de Franche-Comté, Besançon, France

Professor N. Fletcher

Project: The Acoustics of the Didjeridu
Partners: A/Professor L. Hollenberg, Melbourne University and Professors J. Wolfe and J. Smith, University of New South Wales

Project: Acoustics of Birdsong
Partners: Professor R.A. Suthers, Indiana University, United States, Drs T. Riede, Humboldt University, Germany and G.J.L. Beckers, Leiden University, Netherlands

Project: Flute Acoustics
Partner: Mr T. McGee, Australian Flutemaker, Canberra

Dr A. Fogden

Project: Superhydrophobic Coatings
Partners: Drs J. Vyörykkä and R. Corkery, Institute for Surface Chemistry, Sweden

Project: Acoustics of Offset Printing
Partners: Drs J. Voltaire, Institute for Surface Chemistry, Sweden and W. Batchelor, Monash University

Mr M. Fraser, Drs M. Gao, L. Fu, H.H. Tan and Professor C. Jagadish

Project: THz Spectroscopy of Compound Semiconductors
Partners: Drs M. Johnston and L. Hertz, Oxford University, United Kingdom

Dr L. Fu, Mr S. Barik, Dr H.H. Tan and Professor C. Jagadish

Project: Analysis of Semiconductor and Insulating Thin Films by XPS
Partners: Dr B. Gong and Professor R. Lamb, University of New South Wales

Professor E.G. Gamaly

Project: Ultra-high Density Permanent and/or Erasable Optical Memory in Photorefractive Media Formed by Ultrafast Laser Pulses
Partners: Professors H. Misawa and S. Juodkazis, Hokkoaido University, Sapporo, Japan and Dr O. Louchev, RIEKEN, Tokyo, Japan

Project: Formation of Novel Super-dense Materials by Femtosecond-laser-created Micro-explosion Inside the Bulk of Transparent Materials
Partners: Professors H. Misawa, S. Juodkazis, Hokkoaido University, Sapporo, Japan and D. Gomberg, National Institute for Materials Science, Tsukuba, Japan

Project: Characterization and Analysis of Ultrashort Laser-matter Interaction at Low and Medium Laser Intensities
Partners: Laboratoire d'Optique Appliquée, Palaiseau, France, Centre Lasers Intenses et Applications, Bordeaux, France, The Lasers, Plasmas, and Photonic Processes Laboratory, University Aix Marseille-II, Marseille, France

Professor E.G. Gamaly and Dr A.V. Rode

Project: Formation of Novel Super-Dense Materials by Femtosecond Laser-Created Microexplosion
Partners: Professor H. Misawa and Dr S. Joudkazis, University of Hokkaido, Japan, Professor V.T. Tikhonchuk and Dr L. Hallo, University of Bordeaux 1, France

Professor E.G. Gamaly, Dr A.V. Rode and Professor B. Luther-Davies

Project: Ultrafast Laser Excitation of Coherent Phonons
Partners: Drs D. Boschetto and A. Rousse, Ecole Polytechnique, Palaiseau, France

Dr L.R. Gasques

Project: Development of a Model of Fusion Using the Universal São Paulo Potential
Partner: Dr L. C. Chamon, University of São Paulo, Brazil

Project: Calculations of Reaction Rates of Astrophysical Interest
Partner: Dr M. Wiescher, University of Notre Dame, United States

Dr S.T. Gibson and Professor B.R. Lewis

Project: (NASA) Photoabsorption Cross Sections in the Ultraviolet for Planetary Atmospheres Applications

Partners: Professor G. Stark, Wellesley College, United States, Dr P.L. Smith, Harvard-Smithsonian Center for Astrophysics, United States

Project: Measurements of Thermospheric Molecular Oxygen
Partner: Dr J.D. Lumpe, Computational Physics Inc. Boulder, United States

Project: Remote Sensing of the Thermosphere
Partner: Professor R.R. Meier, George Washington State University, United States

Drs S.T. Gibson and S.J. Cavanagh, Professor B.R. Lewis and Dr F.P. Mills

Project: (ACCESS) Australian Centre for Enabling Molecular Sciences
Partners: Drs M. Buntine, J. Gascooke, G. Metha, University of Adelaide, M. Collins, Australian National University, M. Brunger and W. Lawrance, Flinders University, E. Bieske and R. O'Hair University of Melbourne, D. McNaughton and E. Robertson, Monash University, P. Gill, M. Jordan and S. Kable, Professor L. Radom and Dr T. Schmidt, University of Sydney, Dr B. Yates, University of Tasmania

Professor D.J. Hinde and Dr M. Dasgupta

Project: Double Folding Model Calculation of Nuclear Potentials
Partner: Dr I.I. Gontchar, Omsk State University, Russia

Project: Breakup and Fusion of Stable Weakly-Bound Nuclei
Partners: Professor J.A. Tostevin, University of Surrey, United Kingdom, Drs M. Freer, University of Birmingham, United Kingdom and K. Hagino, Tohoku University, Sendai, Japan

Professor D.J. Hinde, Drs M. Dasgupta and L.R. Gasques

Project: Complete and Incomplete Fusion of Boron Isotopes
Partner: Dr A. Mukherjee, Saha Institute of Nuclear Physics, Calcutta, India

Professor D.J. Hinde, Dr M. Dasgupta and Professor J.O. Newton

Project: Fusion and Scattering in C+Pb Reactions
Partner: Drs A. Mukherjee, Saha Institute of Nuclear Physics, Calcutta, India, K. Hagino, Tohoku University, Sendai, Japan

Professor D.J. Hinde, DrsM. Dasgupta and R.G. Thomas

Project: Fusion with Radioactive ^{14}O
Partner: Professor S. Kubono, University of Tokyo, Japan

Dr M.J. Hole

Project: Compressional Alfven Eigenmodes in MAST
Partner: Dr L.C. Appel, United Kingdom Atomic Energy Authority Fusion Division, United Kingdom

Dr J. Howard

Project: Installation of Coherence Imaging System
Partner: University of Sydney

Project: Microwave Tomography of Human Tissue
Partner: Professor M. Persson, Chalmers University, Sweden

Project: Optical Coherence Imaging for Thomson Scattering
Partner: Dr T. Hatae, Japan Atomic Energy Agency, Japan

Project: Optical Imaging Systems for Thermography and Slag/Iron Discrimination at a Molten Iron Furnace
Partners: Mr B. Scott and Dr R. Nightingale, Bluescope Steel Limited, Port Kembla

Project: Coherence Imaging Studies of the Hanbit Mirror and KSTAR Tokamak
Partner: Dr J. Chung, Korean National Fusion Research Center

Professor J. Howard, Drs M. Shats and B. Blackwell

Project: Development of Diagnostic Imaging Systems for the Sydney University High Current Pulsed Arc
Partners: Professor M. Bilek, Drs R. Tarrant and G. Warr and Professor D. Mackenzie, University of Sydney

Ms H. J. Joyce, Drs Y. Kim, Q. Gao, H. H. Tan and Professor C. Jagadish

Project: Electron Microscopy Studies of III-V Nanowires
Partner: A/Professor J. Zou, University of Queensland

Professor A. Kheifets

Project: Convergent Close-coupling Theory of Double Ionization by Photon and Electron Impact
Partner: Dr I. Bray, Murdoch University

Project: Electron Impact Double Ionization of the Helium Atom
Partner: Dr A. Dorn, Max-Planck Institute for Nuclear Physics, Heidelberg, Germany

Drs T. Kibédi and P.M. Davidson

Project: Theoretical Conversion Coefficients and EO Electronic Factors
Partners: Drs T.W. Burrows, Brookhaven National Laboratory, United States, M.T. Trzhaskovskaya, Petersburg Nuclear Physics Institute, Gatchina, Russia, C.W. Nestor, Jr., Oak Ridge National Laboratory, United States

Drs Y. Kim, Q. Gao, Ms H. J. Joyce, Dr H. H. Tan and Professor C. Jagadish

Project: Optical Spectroscopy Studies of III-V Nanowires
Partners: Professors L.M. Smith and H.E. Jackson, University of Cincinnati, United States

Professor Y. Kivshar and Dr A. Sukhorukov

Project: Stability Analysis of Solitary Waves
Partner: Professor D.E. Pelinovsky, McMaster University, Canada

Project: Discrete Solitons in Waveguide Arrays
Partners: Professors R. Morandotti, University of Quebec, Canada, S. Aitchison, University of Toronto, Canada and Y. Silberberg, Weizmann Institute of Technology, Israel

Project: Solitons in Photonic Lattices
Partner: Dr M. Johannson, Chemistry and Biology, Linkopings, Sweden

Project: Slow Light in Photonic Crystals
Partner: Dr Dmitry Chigrin, University of Bonn, Germany

Professor W. Krolikowski

Project: Nonlocal Solitons
Partners: Professors O. Bang, Technical University of Denmark, Denmark, M.Saffman, University of Wisconsin, United States, Dr S. Skupin, University of Paris, France and Professor J. Wyller, Norway Agricultural University, Norway

Project: Solitons in Periodic Systems
Partners: Professors M. Trippenbach, Warsaw University, Poland, M. Gajda, Polish Academy of Sciences, Poland

Dr G.J. Lane, Professors G.D. Dracoulis and A.P. Byrne

Project: High-spin States and Shell Model Structure of Neutron-rich Nuclei near ^{208}Pb
Partners: Professor R. Broda, Dr B. Fornal and Professor K.-H. Maier, Niewodniczanski Institute of Nuclear Physics, Poland

Project: Octupole Correlations and Particle Alignments in Neutron-Rich Uranium Nuclei
Partners: Professor R. Broda and Drs B. Fornal, Niewodniczanski Institute of Nuclear Physics, Poland and S. Zhu, Professor R.V.F. Janssens and Drs M. Carpenter, Argonne National Laboratory, United States, A.O. Macchiavelli and D. Ward, Lawrence Berkeley National Laboratory, United States

Project: Limits of K-Isomerism and Astrophysical Processes in Neutron-Rich Tungsten, Rhenium and Osmium Nuclei
Partners: Drs F.G. Kondev and R.V.F. Janssens, Professor M.P. Carpenter, Drs T. Lauritsen, D. Seweryniak and S. Zhu, Argonne National Laboratory, United States and Professor P. Chowdhury, University of Massachusetts, Lowell, United States

Dr C. Lee

Project: Enhanced Quantum Reflection of Matter-Wave Solitons
Partner: Dr J. Brand, Max Planck Institute for the Physics of Complex Systems, Germany

Drs N. Lobanov and D.C. Weisser

Project: Measurement of Magnetization of PbSn Films
Partner: Dr A.V. Pan, University of Wollongong

Project: Characterization of Superconducting Films Using Neutron Scattering

Partners: Drs S. Danilki and M.Yethiraj, ANSTO

Project: Superconductiong Sputtered Quarter Wave Cavities
Partners: Drs M. Pasinini and M. Lindroos, CERN-AB/ISOLDE, Switzerland

Professors B. Luther-Davies and W. Krolikowski

Project: Centre of Excellence for Ultrahigh Bandwidth Devices for Optical Systems
Partners: University of Sydney, Macquarie University, University of Technology, Sydney, Swinburne University of Technology, NSW Department of State and Regional Development, Osaka University, Japan, University of Central Florida, United States, Lucent Technologies, United States and Institut Fresnel, France

Professor B. Luther-Davies and Dr V. Kolev

Project: Laser Guide Star Using a High Power Synchronously Pumped Optical Parametric Oscillators
Partner: Electro Optics Systems

Professor B. Luther-Davies and Dr S.J. Madden

Project: Advanced Siloxane Waveguide Devices for Telecommunications
Partner: RPO, Canberra

Mr A. Meige

Project: Cotutelle Thesis
Partner: University Paul Sabatier Toulouse, France

Dr F.P. Mills

Project: Photochemical Modeling of the Venus Middle Atmosphere
Partners: Dr M. Allen, NASA Jet Propulsion Laboratory, United States and Professor Y.L. Yung, California Institute of Technology, United States

Project: Excited State Oxygen Chemistry in the Venus Atmosphere
Partner: Dr T. Slanger, SRI International, United States

Project: Ultraviolet Characterization and Remote Sensing of Aerosols
Partners: Drs A. Eldering, O. Kalashnikova, NASA Jet Propulsion Laboratory, United States, D. Anderson, B. Forgan, Bureau of Meteorology, Australia and R. Mitchell, CSIRO

Ms S. Mokkapati, Mr L. Lysevych, Dr H. H. Tan and Professor C. Jagadish

Project: Quantum Well and Quantum Dot Lasers
Partner: Dr M. Buda, National Institute of Material Physics, Romania

Dr D. Neshev

Project: Optical Solitons and Vortices
Partner: Professor A. Dreischuh, Sofia University, Bulgaria

Project: Infiltrated Photonic Crystal Fibres

Partner: Professor O. Bang, Technical University of Denmark, Denmark

Project: Quasi Phase Matching
Partner: Professor S. Saltiel, University of Sofia, Bulgaria

Project: Lithium Niobate Waveguide Arrays
Partner: Dr A. Mitchell, RMIT

Project: Supercontinuum Solitons
Partners: Professor B. Eggleton and Mr J. Boldger, University of Sydney

Project: Counterrpopagating Solitons in Optical Lattices
Partner: Professor C. Denz, University of Munster, Germany

Project: Pulse Compression in Highly Nonlinear Fibers
Partner: Dr J. Dudley, University of Besancon, France

Dr C. Neto

Project: Fingering Instabilities in Dewetting Thin Polymer Films
Partner: Professor K. Jacobs, Saarland University, Germany

Project: Immobilisation of Bacterial Cells on Micro-patterned Substrates
Partners: Dr R. Baker and Professor K. Matthaei, Australian National University

Project: Experiments on Liquid Boundary Slip in Newtonian Liquids
Partner: Professor R. Horn, Ian Wark Institute, Adelaide

Dr E. Ostrovskaya

Project: Nonlinear Localization of Bose-Einstein Condensates in Optical Lattices
Partner: Professor M. Oberthaler, University of Heidelberg, Germany

Drs D. Powell and I. Shadrivov

Project: Fabrication of Nonlinear and Tunable Metamaterials
Partner: Dr A. Mitchell, RMIT University, Melbourne

Project: Analytical Modelling of a Nonlinear Split Ring Resonator
Partner: Dr M. Gorkunov, University of Strathclyde, Glasgow, United Kingdom

Mr D. Ramdutt

Project: Adhesion of Proteins to Plasma Polymers Deposited in a High Density, Low Pressure, Helicon Reactor and its Application for a New Cell Array Platform
Partner: Professor C. dos Remedios, University of Sydney

Mr D. Ramdutt, Dr C. Charles and Professor R. Boswell

Project: Surface Diagnostics of Plasma Treated Fuel Cell Membranes

Partner: Professor T. Gengenback, CSIRO, Melbourne

Messrs D. Ramdutt and A. Caillard, Dr C. Charles and Professor R. Boswell

Project: Development of New Membrane Electrode Assembly
Partners: Drs A. Dicks and M. Liu, University of Queensland

Dr M.C. Ridgway

Project: Swift Heavy-Ion Irradiation of Bulk Semiconductors and Metallic Nanocrystals
Partner: Professor A.P. Byrne, Australian National University

Project: Amorphisation of Ternary Semiconductor Alloys
Partner: Professor W. Wesch, Friedrich Schiller University, Germany

Dr B.A. Robson

Project: Deuteron-Deuteron Elastic Scattering
Partner: Professor Z. Yu-shun, Institute of High Energy Physics, Academia Sinica, China

Drs A. V. Rode and K. Baldwin

Project: Laser Cleaning of Surface Contamination with Ultrashort Pulses
Partner: Dr P. Delaporte, Mediterranean University, Marseille, France

Drs A. V. Rode, A. G. Christy and Professor B. Luther-Davies

Project: Structural and Electronic Characterisation of Magnetic Carbon Nanoclusters
Partners: Dr D. Arcon, University of Ljubljana, Professor A. I. Veinger, Ioffe Physical-Technical Institute, St Petersburg, Russia and Dr D. McCulloch, RMIT University, Melbourne

Mr C. Rosberg

Project: Tunable Nonlinear Periodic Structures Based on Infiltrated Microstructured Optical Fibers
Partners: Professor O. Bang and Dr A. Bjarklev, Technical University of Denmark, Denmark

Dr A. Samoc

Project: All-Optical Poling of Polymer Films and Fibres
Partners: Professors J.-M. Nunzi and R. Barille of the University of Angers, France

Project: Nonlinear Optical Effects in Functionalized Cellulose Films
Partner: Professor J. Ulanski, Technical University of Lodz, Poland

Dr T.J. Senden

Project: Atomic Force Microscopy of Single Polymer Chain
Partner: Professor J.-M. di Meglio, Paris, France

Project: Evolution of Devonian Fish
Partner: Dr J. Long, Museum of Victoria

Project: Tomographic Imaging of Bee Brains
Partner: Professor W. Ribi, Universität für Humanwissenschaften, Liechtenstein

Dr M.G. Shats

Project: Confinement Studies in Stellarators
Partner: Professor K. Toi, National Institute for Fusion Science, Japan

Project: Non-local Transfer in Plasma Turbulence
Partner: Dr S. Nazarenko, Mathematics Research Centre, Warwick University, United Kingdom

Dr A. Sheppard

Project: Development of Integral-geometry Based Characterisation Tools for 3D Objects
Partners: Professor K. Mecke, Drs B. Breidenbach and G. Schroeder, University of Erlangen-Nürnberg, Germany

Project: Evaluating Different Segmentation and Image Processing Techniques for Tomographic Data Collected at the Advanced Photon Source
Partner: A/Professor D. Wildenschild, Oregon State University, United States

Project: In-situ Imaging of the 3D Root Structure of Wheat Plants in Diverse Soil Types
Partners: Dr J. Passioura and Mr D. Deery, CSIRO Plant Industry

Project: Analysis of Large 3D Phase-contrast Images of Biomaterials: Nut Shells, Timber, Bamboo and Crustacean Shells
Partner: Dr U. Wegst, Max Planck Institute für Metallforschung, Germany

Project: Tracking the Evolution of a Foam Using X-ray Microtomographic Imaging at the ESRF
Partners: Drs B. Breidenbach, University of Erlangen- Nürnberg, Germany, J. Lambert, Université Rennes, France and P. Cloetens, European Synchrotron Research Facility (ESRF), France

Project: Film Drainage in Wet Granulates: Quantitative Analysis of Tomographic Images
Partners: Drs M. Scheel and R. Seeman, Max Planck Institute for Dynamics and Self-Organization, Germany

Drs A. Sheppard and V. Robins

Project: 3D Image Segmentation and Shape Characterization Driven by Topological Persistence
Partner: Professor K. Mecke, University of Erlangen, Germany

Dr A. Stuchbery

Project: Nuclear g Factors and Structure of High-Spin Isomers in ^{190,192,194}Pt and ^{196,198}Hg
Partner: Professor A.I. Levon, Institute for Nuclear Research, Kiev, Ukraine

Project: Nuclear Spin Polarization Following Intermediate-Energy Heavy-Ion Reactions
Partner: Professor P.F. Mantica and J.S. Pinter, Michigan State University, United States

Project: Magnetic Moments of Radioactive Beams - an Incisive Probe of Novel Structures in Neutron-rich nuclei (ARC Discovery)
Partners: Professors P.F. Mantica, Michigan State University, United States, N. Benczer-Koller, Rutgers University, United States

Project: Single-Particle and Collective Degrees of Freedom in ^{101}Zr and ^{103,105}Mo
Partner: Dr R. Orlandi and Dr A.G. Smith, University of Manchester, United Kingdom

Project: Nuclear g-factor Measurements of the $9/2^-$ and $21/2^-$ Isomeric States in ^{173}Ta
Partners: Dr P. Thakur and Professor A. K. Bhati, Panjab University, India

Drs A. Stuchbery, A. Wilson and P. Davidson

Project: Perturbed Angular Correlations for Gd in Gadolinium: In-Beam Comparisons of Relative Magnetizations
Partner: Professor N. Benczer-Koller, Rutgers University, United States

Project: Probing Shell Structure and Shape Changes in Neutron-Rich Sulfur Isotopes Through Transient-Field g-Factor Measurements on Fast Radioactive Beams of ^{38}S and ^{40}S
Partners: Dr A.D. Davies, Professors P.F. Mantica and B.A. Brown, Michigan State University, United States

Project: Onset of Deformation at N=40 in the Fe Isotopes Studied Through Excited-State g-Factor Measurements. (Approved Experiment, NSCL 06013)
Partners: Professors P.F. Mantica, Michigan State University, United States and N. Benczer-Koller, Rutgers University, United States

Project: Measurement of the Magnetic Moments of the 2^+ States in the Neutron-Rich Radioactive ^{72}Zn and ^{74}Zn using the high-velocity transient field technique. (Approved Experiment, GANIL E535)
Partners: Drs G. Georgiev, CSNSM, Orsay, France and A. Jungclaus, Universidad Autónoma de Madrid, Spain

Project: Gyromagnetic Ratios of 4^+ States near ^{132}Sn: Further Development of the RIV Technique. (Approved Experiment, HRIBF, RIB-166)
Partners: Professor N. Benczer-Koller, , Rutgers University, United States, Dr C. Baktash, Oak Ridge, United States, Professors C.R. Bingham, University of Tennessee, United States and N.J. Stone, University of Oxford, United Kingdom

Dr J. Sullivan

Project: Lifetime-resolved Fluorescence Spectroscopy of Inner-shell Excitation Decay Processes
Partners: Drs P. Hammond, University of Western Australia, Y. Azuma, M. Lebech, Photon Factory KEK, Japan and J. Harries, Spring-8, Japan

Dr L.J. Tassie

Project: Formation of the Universe from Cosmic Superstrings
Partner: Professor P. Brosche, University of Bonn, Germany

Dr R. G. Thomas

Project: Fusion Fission Dynamics of Heavy Ion Collisions Leading to Superheavy Elements
Partners: Drs S. Kailas, R. K. Choudhury and S. S. Kapoor, Bhabha Atomic Research Centre, India, Professor G. Viesti and Dr M. Cinausero, Legnaro National Laboratory, Italy

Dr S.G. Tims

Project: Plutonium: A New Tracer of Sediment Transport into the Great Barrier Reef Lagoon
Partners: Drs G.Hancock, P.Wallbrink and R.Bartley, CSIRO

Dr D.C. Weisser

Project: Operation and Improvement of Accelerator Facilities
Partner: Dr D. Garton, ANSTO

Dr A.N. Wilson

Project: High-Spin States In Nuclei With A=120 Near The Proton Dripline
Partner: Dr J.F. Smith, Manchester University, United Kingdom

Project: Excitation Energyies of Superdeformed Bands with A≈190
Partners: Drs A. Korichi, CSNSM, Orsay, France, S. Siem, University of Oslo and J .Libert, IPN Orsay, France

Project: Search for Hyperdeformation in the Te-Ba Region
Partners: Professors H. Hübel, ISKP Bonn, Germany and B. Herskind, Niels Bohr Institute, Copenhagen, Denmark

Drs A.N. Wilson and P.M. Davidson

Project: Decay Out of Superdeformed Bands in a Two-level Mixing Model
Partner: Professor B.R. Barrett, University of Arizona, United States

Project: Decay Out of Superdeformed Bands
Partners: Dr A.J. Sargeant and Professor M.S. Hussein, Universidade de Sao Paulo, Brazil

Project: Shape Coexistence in ^{188}Hg
Partners: Professors P. Fallon, Lawrence Berkeley National Laboratory, United States and I. Ragnarsson, Lund Institute of Technology, Sweden

Drs A.N. Wilson, P.M. Davidson and P. Nieminen

Project: Superdeformation in Po Isotopes and Magnetic Rotation
Partners: Dr R.A. Bark and Professors J.F. Sharpey-Schafer, iThemba Laboratories, South Africa, H. Hubel, HISKP Bonn, Germany and Drs A.Korichi, CSNSM Orsay, France, R. .Julin and P.M. Jones, University of Yyvästytä, Finland

Dr J. Wong-Leung

Project: Ion Implantation and Defect Studies in Silicon Carbide

Partners: Professor B.G. Svensson, University of Oslo, Norway, Dr M. Linnarson, Royal Institute of Technology, Stockholm, Sweden and Professor D. Cockayne, University of Oxford, United Kingdom

Drs J. Wong-Leung, H.H. Tan and M. Gao, Ms V. Coleman, Professors J.S. Williams and C. Jagadish

Project: Electron Microscopy Study of Defects in Ion Implanted Semiconductors
Partners: Drs J. Zou, University of Queensland, J. FitzGerald, Australian National University and Professor D.J.H. Cockayne, Oxford University, United Kingdom

Dr W.S. Woolcock

Project: The Pion-Nucleon System at Low Energies
Partners: Professor G. Rasche, University of Zurich, Switzerland and Dr E. Matsinos, Varian, Baden, Switzerland

Dr C. Zha and Professor B. Luther-Davies

Project: Novel Inorganic-organic Composite Materials for Optic-electronic Applications
Partner: Professor Liu Hanxing, Wuhan University of Technology, China