

Appendix – Collaborations and Cooperative Agreements

Collaborations

Professor N. Akhmediev

Project: Soliton as Strange Attractor Nonlinear Synchronization and Chaos

Partner: Dr J. M. Soto-Crespo, Instituto de Óptica, Spain

Project: Group Interactions of Dissipative Solitons in a Laser Cavity: The Case of 2+1

Partner: Dr Ph. Grelu, Université de Bourgogne, France

Project: On the Solution of Multicomponent Nonlinear Schrödinger Equation with Mixed Nonlinearities

Partner: Dr T. Kanna, Bharathidasan University, India

Project: Dissipative Soliton of the Discrete Complex Cubic–Quintic Ginzburg–Landau Equation

Partner: Dr K.-I. Maruno, Kyushu University, Japan

Project: Dynamics and Interaction of Pulses in the Modified Manakov Model

Partner: Dr E. Tsoy, Uzbek Academy of Sciences, Uzbekistan

Dr T. Alexander

Project: Optical Vortices in Nonlinear Photonic Lattices

Partner: Professor Z. Chen, State University San Francisco, USA

Dr C.H. Arns

Project: Second-order Analysis for Curvature Measures

Partners: Professor D. Stoyan, TU Bergakademie Freiberg, Germany; Professor K.R. Mecke, University of Erlangen-Nürnberg, Germany

Project: Transport Properties from Nuclear Magnetic Resonance

Partners: Professor P.T. Callaghan and Mr M. Hunter, University of Wellington, New Zealand

Dr C.H. Arns and Dr M.A. Knackstedt

Project: Elastic Properties of Partially Saturated Rocks

Partners: Professor B. Gurevitch, Curtin University of Technology; Dr R. Ciz, CSIRO Petroleum; Professor S.A. Shapiro and Dr E. Saenger, Freie Universität Berlin, Germany

Project: Virtual Permeametry of Porous Materials

Partner: Dr N. Martys, National Institute of Standards and Technology, USA

Dr T. Aste

Project: Glasses and Granular Materials

Partner: Professor A. Coniglio, University of Naples, Italy

Project: Surface Instabilities and Granular Matter
Partner: Professor U. Valbusa, University of Genoa, Italy

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, The Netherlands

Dr R. Ball

Project: A Predictive Model for the Earth's Solar Wind Driven Magnetosphere-ionosphere System
Partner: Professor W. Horton, University of Texas at Austin, USA

Project: Hysteresis Switches as Information Carriers in Biology
Partner: Dr L. Santoso, Mathematical Sciences Institute

Project: Emergent Coherent Structures through Localized Two-dimensional Velocity Fields
Partner: Professor P. Morrison, University of Texas at Austin, USA

Dr F.C. Barker

Project: Low-lying States in ^{11}N
Partner: Dr C. Angulo, Université Catholique de Louvain, Belgium

Dr T.T. Barrows

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

Project: Glacier History of Mt Field, Tasmania
Partner: Dr A. Mackintosh, Victoria University of Wellington, New Zealand

Project: Glacier History of Mt Giluwe, Papua New Guinea
Partners: Dr M. Prentice, University of New Hampshire, UK; Professor G. Hope, Research School of Pacific and Asian Studies

Project: Dating of Landslides, Hong Kong
Partner: Dr R. Sewell, Civil Engineering and Development, Hong Kong

Project: Long Term Climate Change from Deep-sea Sediments
Partners: Professor P. De Deckker, Ms M. Spooner, Dr E. Calvo and Dr C. Pelejero, Earth and Marine Sciences; Dr S. Juggins, University of Newcastle, UK

Project: Geomorphology of the Sierra Nevada, Spain

Partners: Mr L. Reinhardt and Professor P. Bishop, University of Glasgow, UK

Professor M.T. Batchelor

Project: Quantum Spin Systems

Partners: Dr Z. Tsuboi, University of Tokyo, Japan; Dr A. Foerster, Instituto de Fysica da UFRGS, Brazil

Project: Integrable Bosons

Partners: Dr J. McGuire, Florida Atlantic University, USA; Dr C. Dunning and Dr J. Link, University of Queensland

Project: Stromatolite Morphogenesis

Partner: Dr R. Burne, Earth and Marine Sciences

Dr A. Bauer

Project: Rod Formation of Ionic Surfactants

Partners: Dr S. Woelki and Dr H.-H. Kohler, University of Regensburg, Germany

Dr B.D. Blackwell and Dr J. Howard

Project: Soft X-ray Measurements on H-1NF

Partner: A/Professor A.D. Cheetham, University of Canberra

Dr G.G. Borg and Professor J.H. Harris

Project: Plasma Antenna Concept Demonstrator

Partner: Dr N.M. Martin, Defence, Science and Technology Organisation

Project: Infrastructure for Wireless Internet Technology Development for Rural Australia

Partners: Ms H.M. Jones, A/Professor A.D. Cheetham and A/Professor J. Rayner, University of Canberra

Dr G.G. Borg and Mr P. Linardakis

Project: Plasma Switches for Mobile Phones

Partner: Dr R. Scheer, Motorola, USA

Dr G.G. Borg and Mr I. McRobert

Project: VHF Wireless Technologies for Last-mile Internet Access in Regional Australia

Partners: Standard Communications, Sydney; NJH Consulting, Newcastle

Professor R.W. Boswell and Dr C. Charles

Project: Helicon Assisted Reactive Evaporation (HARE)

Partners: Professors D. MacKenzie and M. Bilek, University of Sydney

Project: Design and Fabrication of Fuel Cells

Partner: Dr A. Dicks, University of Queensland

Professor R.W. Boswell and Mr O. Sutherland

Project: High Brightness Ion Source
Partner: FEI Company, USA

Dr J. Bradby

Project: International Partnership Program
Partner: University of Michigan, USA

Professor S.J. Buckman

Project: Low Energy Electron-molecule Scattering
Partners: Dr M.J. Brunger and Professor P.J.O. Teubner, Flinders University

Project: Electron Scattering from Molecular Radicals
Partners: Dr M.J. Brunger and Professor W. Lawrance, Flinders University

Project: Electron-molecule Scattering
Partners: Professor H. Tanaka, Sophia University, Japan; Professor H. Cho, Chungnam National University, Korea

Project: Positron Interactions
Partners: Dr A. Hill, CSIRO; Professor B. Lohmann, Griffith University; Professor P.J.O. Teubner and Dr M.J. Brunger, Flinders University; Dr J. Mitroy, Charles Darwin University

Project: Positron Scattering from Atoms and Molecules
Partner: Professor C. Surko, University of California, USA

Professor S.J. Buckman and Professor L.T. Chadderton

Project: Rainbows in Scattering of Electrons from Molecules
Partners: Professor S.A. Cruz, Metropolitan Autonomous University of Mexico, Mexico; Dr A. Tolmachev, Moscow State University, Russia

Dr M. Buda

Project: DFB Lasers
Partners: Dr T.G. van de Roer and Professor Dr G.A. Acket, Eindhoven University of Technology, The Netherlands

Professor A.P. Byrne

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

Project: Superalloyed 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, Universität Bonn, Germany

Dr S.J. Cavanagh

Project: (e,2e) Experiments on Water

Partner: Professor B. Lohmann, Griffith University

Professor L.T. Chadderton

Project: Atomic Force Microscopy of Fission Fragment Irradiated Quartz, Fullerite, Apatite and Natural Opal

Partners: Professor G. Espinosa and Professor S.A. Cruz, Metropolitan Autonomous University of Mexico, Mexico

Project: Phase Changes in Transition Metal Dichalcogenides Due to GeV Heavy Ion, and MeV Fullerene Ion Bombardments: Transmission Electron Microscopy and Surface Force Microscopy

Partner: Dr A. Dunlop, École Polytechnique, France

Project: Radiation Effects on Polymers and Semiconductors

Partner: Dr D. Fink, Hahn-Meitner Institute, Germany

Project: GeV Ion Tracks in Alkali and Alkali Earth Halides

Partner: Dr C. Trautmann, Gesellschaft für Schwerionenforschung, Germany

Project: Annealing of Fission Tracks in Apatite: Kinetics, Effects of Pressure and Applications in Geothermometry

Partners: Dr R. Jonckere, University of Freiberg, Germany; Dr A. Wendt, British Antarctic Survey, UK

Project: Studies of Plasma Effects, and Electronic and Nuclear Vicinage in the Stopping of Swift Clusters in Solids

Partner: Professor S.A. Cruz, Metropolitan Autonomous University of Mexico, Mexico

Project: Theory and Practice of Organic Radical Formation and Motion in GeV Ion-irradiated Polymers

Partner: Professor S.A. Cruz, Metropolitan Autonomous University of Mexico, Mexico

Professor L.T. Chadderton and Dr S.Y. Kun

Project: Studies of Ultrafast Coherent Dynamics of Localised Modes in Many-body Systems

Partners: Professor W. Greiner, University of Frankfurt, Germany; Professor S. Haas, University of Strasbourg, France

Professor L.T. Chadderton and Dr A. Stewart

Project: Radioactivity in the Fine Structure of Precious Opal; Exploration and Artificial Opal Synthesis

Partners: Dr B. Senior, Senior and Associates, Canberra; Dr R. Jonckere, University of Freiberg, Germany

Dr C. Charles and Professor R.W. Boswell

Project: Plasma Deposition of Palladium

Partners: Dr A.L. Thomann and Dr P. Brault, University of Orleans-CNRS, France

Project: Helicon Double Layer Thruster [i

Partners: CRC for Satellite Systems; AUSPACE Limited

Project: Computer Simulation of Low and High Pressure Plasmas

Partner: Dr J.-P. Boeuf, CNRS University of Toulouse

Dr Y. Chen

Project: Control Growth of Carbon Nanotubes

Partner: Professor L. Chadderton, Atomic and Molecular Physics Laboratories

Project: Synthesis of C and BN Nanotubes Using Mechano-thermal Process

Partner: Dr J. Fitzgerald, Research School of Earth Sciences

Project: Microanalysis of BN Nanotubes

Partner: Dr J. Zou, University of Queensland

Project: Mossbauer Analysis of Nanotubes

Partner: Professor G. Le Caer, University of Rennes, France

Project: Mossbauer Study of Metal Catalysts for Nanotube Growth

Partner: Professor S. Campbell, ADFA, University of New South Wales

Ms V. Coleman, Ms P. Lever, Ms 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, Dr H.H. Tan, Dr S.O. Kucheyev, Professor J.S. Williams and Professor C. Jagadish

Project: Ion Beam Processing of Zinc Oxide

Partners: Professor M. Yano and Professor M. Inoue, Osaka Institute of Technology, Japan

Dr V. Craig

Project: The Effect of Surfactant Adsorption on Liquid Boundary Slippage

Partner: Professor S. Biggs, University of Leeds, UK

Project: Adsorption Patterns of Mixtures of Trimethylammonium Modified Hydroxyethylcellulose and Sodium Dodecyl Sulfate at Solid-liquid Interfaces

Partners: Professor W. Kunz and Mr D. Zimin, University of Regensburg, Germany

Project: Adsorption and Desorption of Polymer Surfactant Mixtures at Solid Liquid Interfaces: Substitution Experiments

Partners: Professor W. Kunz and Mr D. Zimin, University of Regensburg, Germany

Project: Adsorbed Layer Structure of a Weak Polyelectrolyte Studied by Colloidal Probe Microscopy and QCM-D as a Function of pH and Ionic Strength

Partners: Professor L. Wågberg, Royal Institute of Technology, Sweden; Professor S. Biggs, University of Leeds, UK; Dr S. Notley, University of Newcastle

Project: A Scanning Electron Microscope Study of the Surface Structure of Paper Coating Compositions on Mylar

Partner: Dr J. Daicic, YKI Institute for Surface Chemistry, Sweden

Project: Flocculation Characterisation Technique: An Insight into Silica Flocculation and Characterising Bond Strength of Aggregates in Suspension

Partners: Professor R. Amal, Dr G. Bushell, Ms M. Hermawan, Ms C. Selomulya and Mr W. Yang Teoh, University of New South Wales

Dr T.D.M. Dall

Project: Heavy Ion Stopping in Solids

Partners: Professor H.J. Whitlow and Dr K. Stenstrom, University of Lund, Sweden; Dr H. Timmers and Mr S. Shrestha, ADFA, University of New South Wales; A. Professor D.J. O'Connor, University of Newcastle

Dr M. Dasgupta

Project: Quantum Tunneling in Nuclear Fusion

Partners: Dr K. Hagino, Kyoto University, Japan; Professor N. Rowley, Strasbourg University, France

Dr M. Dasgupta and Professor D.J. Hinde

Project: Fusion with Radioactive ^{14}O

Partner: Professor S. Kubono, University of Tokyo, Japan

Project: Double Folding Calculation of Nuclear Potentials

Partner: Dr I.I. Gontchar, Omsk State Transport University, Russia

Dr P.N.K. Deenapanray, Dr L. Fu 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 R.L. Dewar

Project: Existence and Stability of a Model for Three-dimensional Toroidal Plasma Equilibria

Partner: Dr S.R. Hudson, Princeton University, USA

Project: Quantum Chaos in the Ideal-MHD Spectrum for Stellarators

Partners: Dr C. Nührenberg, Max Planck Institute for Plasma Physics, Germany, Professor Z. Yoshida, University of Tokyo, Japan; Dr T. Tatsuno, University of Maryland, USA; Professor B. Kenny, University of Western Australia

Project: Variational Principle for Nonlinear Drift Wave Dynamics

Partners: Dr F.L. Waelbroeck and Dr P.J. Morrison, University of Texas at Austin, USA

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

Project: ARC Research Network Application – Complex Open Systems Network (COSNet)

Partners: Professor C. Grebogi, University of Sao Paulo, Brazil; Professor R. MacKay, FRS University of Warwick, UK; and 42 participants from the AUSTRALIAN NATIONAL UNIVERSITY and other Australian universities.

Dr T. Di Matteo and Dr T. Aste

Project: Characterisation of Collective Dynamics in Financial Markets and Complex Systems

Partner: Professor R. Mantegna, University of Palermo, Italy

Project: High-frequency Dynamics of Financial Markets

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. Dacorogna, Converium Ltd Zurich, Switzerland

Dr T. Di Matteo, Dr T. Aste and Professor S.T. Hyde

Project: European Union (EU) Project - COST P10 "Physics of Risk"

Partner: Professor P. Richmond, Trinity College, Ireland

Professor G.D. Dracoulis

Project: Intrinsic and Rotational Bands in ^{180}Ta

Partners: Professor G. Sletten, University of Copenhagen, Denmark; Euroball Collaboration, Strasbourg, France

Project: High-K Isomers

Partners: Professor P.M. Walker, University of Surrey, UK; Dr D.M. Cullen, University of Liverpool, UK

Project: High-K Isomers in Hafnium

Partners: Dr F.G. Kondev and Dr R. Janssens, Argonne National Laboratory, USA; Dr D. Hartley, University of Tennessee, USA

Project: Laser Spectroscopy of Deformed Isomers

Partners: Dr J. Billowes, University of Manchester, UK; Professor J.A.R. Griffith, University of Birmingham, UK; Dr P. Dendooven, University of Jyväskylä, Finland

Project: Spectroscopy of Heavy Nuclei

Partner: Professor A.R. Poletti, University of Auckland, New Zealand

Professor G.D. Dracoulis and Dr T. Kibédi

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

Professor G.D. Dracoulis, Dr A.P. Byrne and Dr 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: Professor P.M. Walker, University of Surrey; UK; Dr G. de France, GANIL, France

Professor G.D. Dracoulis, Dr G.J. Lane, Dr A.P. Byrne and Dr A.M. Baxter (Faculties)
Project: Spectroscopy of Neutron Deficient Lead and Thallium Nuclei
Partner: Dr A.O. Macchiavelli, Lawrence Berkeley National Laboratory, USA

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: Dr J. Gerl, Gesellschaft für Schwerionenforschung, Germany; Dr A. Andreyev, University of Liverpool, UK

Project: Structure of Multi-quasiparticle Isomers in ^{176}Lu and ^{177}Lu
Partners: Dr F.G. Kondev and Dr R. Janssens, Argonne National Laboratory, USA

Professor R.G. Elliman
Project: Silicon Based Photonic Devices and Structures
Partners: Professor J. Linnros, Royal Institute of Technology Kista-Stockholm, Sweden; Dr J. Valenta, Charles University, Czech Republic; Professor E. Krausz, Research School of Chemistry, Australian National University

Project: Optical and Physical Properties of Semiconductor Nanocrystals
Partner: Professor S.-H. Choi, Kyung Hee University, Korea

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

Project: Ion Beam Mixing of Metallic Thin Films on Ceramic Substrates
Partners: Dr A. Balogh and Mr W. Berkey, Darmstadt University of Technology, Germany

Project: Ion Beam Modification of Carbon Nanostructures
Partner: Dr P. Papakonstantinou, University of Ulster at Jordanstown, Northern Ireland

Professor R.G. Elliman and Dr T.D.M. Dall
Project: Heavy-ion Beam Analysis of Materials
Partner: Dr H. Timmers, ADFA, University of New South Wales

Professor R.G. Elliman and Mr N. Smith

Project: Optical Gain in Silicon Nanocrystals

Partners: Professor P. Fauchet and Mr J. Ruan, University of Rochester, USA; Professor A. Polman, FOM Institute, Netherlands.

Dr L.K. Fifield and AMS Group

Project: Dating of Marine Cores with Carbon-14

Partners: Dr P. De Deckker and Dr B. Opdyke, Earth and Marine Sciences

Project: Measurement of Erosion Rates at a Range of Scales in the Australian Landscape Using in situ Produced ^{10}Be

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, USA

Project: Dating of Ice in Temperate-region Glaciers with ^{32}Si

Partners: Dr U. Morgenstern and Dr A. Zondervan, Geological and Nuclear Sciences, New Zealand

Project: Tracing Releases of Plutonium from Nuclear Processing Plants in Russia

Partners: Dr D. Oughton, Agricultural University of Norway; Dr W. Standing, Radiation Protection Authority, Norway

Project: Tracing of Groundwater Flow and Mixing in a Number of Australian Aquifer Systems

Partners: Dr R. Habermehl and Dr J. Kellett, Bureau of Rural Sciences; Dr R.G. Cresswell, CSIRO

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

Partners: Dr Y. Mahara, Abiko Research Laboratory, Japan; Dr 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: Professor J. Stone, University of Washington, USA; Professor C. Ballantyne, University of St Andrews, Scotland

Project: Calibration of the Cosmic-ray Production of Chlorine-36 on Iron in Surface Rocks

Partner: Professor J. Stone, University of Washington, USA

Project: Plutonium as a Tracer of Soil Movement

Partner: Dr G. Hancock, CSIRO Land and Water

Project: Radiocarbon Dating

Partner: Dr N. Paterne, Laboratoire des Sciences du Climat et de l'Environnement, France

Project: Plutonium Measurements by AMS at Low Energy

Partner: Dr L. Wacker, Eidgenössische Technische Hochschule Zürich, Switzerland

Professor N. Fletcher

Project: The Acoustics of the Didjeridu

Partners: A/Professor L. Hollenberg, Melbourne University; Professor J. Wolfe and Dr J. Smith, University of New South Wales

Project: Acoustics of Birdsong

Partners: Professor R.A. Suthers, Indiana University, USA; Dr T. Riede, Humboldt University, Germany; Dr G.J.L. Beckers, Leiden University, The Netherlands

Project: Flute Acoustics

Partner: Mr T. McGee, Australian Flutemaker, Canberra

Mr M. Fraser, Dr M. Gao, Dr H.H. Tan and Professor C. Jagadish

Project: THz Spectroscopy of Compound Semiconductors

Partners: Dr M. Johnston and Dr L. Hertz, Oxford University, UK

Dr L. Fu, Dr H.H. Tan, Dr M. Buda and Professor C. Jagadish

Project: Optoelectronic Devices

Partner: Dr F. Karouta, Eindhoven University of Technology, The Netherlands

Mr Q. Gao, Ms P. Lever, Ms V. Coleman, Ms K. Stewart, Ms S. Mokkaapati, Mr S. Barik, Dr L. Fu, Dr J. Wong-Leung, Dr M. Buda, Dr H.H. Tan and Professor C. Jagadish

Project: Optical Spectroscopy of Semiconductor Quantum Structures and Devices

Partners: Mr P. Reece, Dr B.Q. Sun, Dr M. Zhang and Professor M. Gal, University of New South Wales

Dr M. Gulacsi

Project: Effects of Phonons on Magnetic Impurities

Partners: Dr A.R. Bishop, Los Alamos National Laboratory, USA; Dr A. Bussmann-Holder, Max-Planck-Institute, Stuttgart, Germany

Project: Correlation Effects in Kondo Lattice Models

Partners: Professor J. Zaanen and Dr I. McCulloch, University of Leiden, The Netherlands

Project: Stripe Formation in Two-dimensional Lattices

Partner: Professor Zs. Gulacsi, University of Debrecen, Hungary

Project: Impurity Effects in Mesoscopic Systems

Partners: Professor A. Rosengren and Mr A. Juozapavicius, Royal Institute of Technology, Sweden

Professor J.H. Harris and Mr B. Heslop

Project: VHF Wireless Technologies for Last-mile Internet Access in Regional Australia

Partner: NJH Consulting, Newcastle

Professor D.J. Hinde

Project: Fission Dynamics

Partner: Professor Y. Abe, Kyoto University, Japan

Dr J. Howard

Project: Spectroscopic Studies of the Plasma Divertor in W7-AS

Partners: Dr R. Konig and Mr J. Chung, Max Planck Institute for Plasma Physics, Germany

Project: Coherence Imaging on RFX Reversed Field Pinch

Partner: Dr M Valisa, Consorzio RFX, Padova, Italy

Project: Development of Diagnostic Imaging Systems for the Sydney University High Current Pulsed Arc

Partners: Professor M. Bilek, Dr R. Tarrant, Dr G. Warr and Professor D. Mackenzie, University of Sydney

Project: Measurement of Electric Field in H-1NF Using Laser Induced Fluorescence Techniques

Partners: Professor B.W. James and Mr D. Anduczyk, University of Sydney

Professor S. Hyde

Project: Electron Tomography of Biophotonic Crystals

Partners: Professor H. Hasegawa, Kyoto University, Japan; Dr M. Large, University of Sydney

Dr R. Jarvis

Project: e-beam Irradiation of Chalcogenide Films

Partner: Dr S. Garcia Blanco, University of Toronto, Canada

Project: Raman Spectroscopy of Chalcogenide Films

Partner: Professor K. Richardson, University of Central Florida, USA

Dr A.S. Kheifets

Project: Convergent Close-coupling Theory of Double Ionization by Photon and Electron Impact

Partner: Professor I. Bray, Murdoch University

Project: Electron Impact Double Ionization of the Helium Atom

Partners: Professor A. Lahmam-Bennani, University of Paris, France; Dr A. Dorn, University of Freiburg, Germany

Project: Theoretical and Experimental Studies of Double Photoionization of He and H₂

Partners: Dr L. Avaldi, Consiglio Nazionale delle Ricerche, Italy; Professor R. Dörner, University of Frankfurt, Germany

Dr T. Kibédi

Project: Theoretical Conversion Coefficients and EO Electronic Factors

Partners: Dr T.W. Burrows, Brookhaven National Laboratory, USA; Dr M.T. Trzhaskovskaya, Petersburg Nuclear Physics Institute, Russia; Dr C.W. Nestor, Jr., Oak Ridge National Laboratory, USA

Dr T. Kibédi and Professor G.D. Dracoulis

Project: Internal Conversion Electron Spectroscopy of 0^+ States

Partners: Dr S. Yates, University of Kentucky, USA; Dr P. Gerrett, Lawrence Livermore Laboratory, USA; Dr R. Julin, University of Jyväskylä, Finland

Professor Y. Kivshar

Project: Vector Discrete Solitons and Polarization Effects

Partner: Professor M. Molina, University of Chile, Chile

Project: The Frenkel-Kontova Model and its Applications

Partner: Professor O. Braun, Institute of Physics, Ukraine

Project: Nonlinear Photonic Crystals

Partner: Dr S. Mingaleev, University of Central Florida, USA

Professor Y. Kivshar and Dr A. Miroschnichenko

Project: Fano Resonances in Nonlinear Chains

Partner: Dr S. Flach, Max-Planck-Institute for Complex Systems, Germany

Professor Y. Kivshar and Dr A. Sukhorukov

Project: Parametric Optical Conversion due to Cascaded Nonlinearities

Partner: Professor S.M. Saltiel, University of Sofia, Bulgaria

Project: Self-written Optical Waveguides in Polymerized Materials

Partner: Professor S. Kawata, Osaka University, Japan

Project: Stability Analysis of Solitary Waves

Partner: Professor D.E. Pelinovsky, McMaster University, Canada

Project: Discrete Solitons in Waveguide Arrays

Partners: Professor R. Morandotti, University of Quebec, Canada; Professor S. Aitchison, University of Toronto, Canada; Professor Y. Silberberg, Weizmann Institute of Technology, Israel

Project: Incoherent Gap Solitons

Partners: Mr K. Motzek and Professor F. Kaiser, Darmstadt University of Technology, Germany

Project: Coherence-controlled Soliton Interactions

Partners: Professor D. Anderson and Professor M. Lisak, Chalmers University of Technology, Sweden

Project: Incoherent Optical Solitons and their Interaction

Partner: Professor M.-F. Shih, University of Taiwan, Taiwan

Professor Y. Kivshar and Dr I. Shadrivov

Project: Nonlinear Surface Waves in Left-handed Metamaterials

Partner: Professor A. Boardman, University of Salford, UK

Project: Goos-Haenchen Effect in Slabs of Metamaterials

Partner: Professor R. Ziolkowski, University of Arizona, USA

Dr P. Kluth and Dr S. Kluth

Project: Defects and Diffusion in Si-Nanostructures

Partners: Professor S. Mantl, Dr J. Moers and Dr Q.-T. Zhao, Forschungszentrum Jülich, Germany

Dr M. Knackstedt and Mr A. Jones

Project: Characterisation of Scaffolds and Scaffold Implants

Partners: Professor B. Milthorpe; University of New South Wales; Dr D. Hutmacher, National University, Singapore; Dr K. Gross, Monash University

Project: Bone Structure and Degradation of Mid-femoral Necks

Partners: Professor E. Seeman and Dr R. Zezabe, Melbourne University

Dr M. Knackstedt, Dr C.H. Arns and Dr A. Goel

Project: Tomography and Analysis of Paper Structure

Partners: Professor O. Gregersen and Dr R. Holmstad, Norwegian University of Science and Technology, Norway

Dr M. Knackstedt, Dr C.H. Arns and Mr M. Saadatfar

Project: Characterisation of Grain Structures in Sedimentary Rocks

Partners: Professor W.V. Pinczewski, University of New South Wales; Dr J. Kelly, Woodside Petroleum

Dr M. Knackstedt, Dr F. Bauget and Mr A. Ghous

Project: Formation Evaluation in Thinly Bedded Sands

Partners: Mr R. Harris, Conoco-Phillips, UK; Mr G. Beck, EOG Resources Houston, USA

Dr M. Knackstedt, Dr C.H. Arns, Dr F. Bauget, Dr A.P. Sheppard, Dr R.M. Sok, Dr A. Sakellariou and Mr H. Averdunk

Project: Pore Scale Characterisation of Sedimentary Core Material

Partners: Professor W.V. Pinczewski, University of New South Wales; Mr D. Watkins and Dr J. Kelly, Woodside Petroleum; Mr G. Bunn, BHP Billiton Petroleum; Dr P.E. Oren and Dr S. Bakke, Statoil Research, Dr E. Fjaer, Sintef Research; Mr P. Hogarty, Petroleum Development Oman

Dr W. Krolikowski

Project: Optical Beams in Nonlocal Nonlinear Media

Partners: Professor O. Bang, Technical University, Denmark; Professor J. Wyller, Norway Agricultural University, Norway; Professor J. Rasmussen, Risø National Laboratory, Denmark

Project: Localised Structure in Second Harmonic Generation
Partner: Professor M. Saffman, University of Wisconsin, USA

Project: Modulational Instability in Photorefractive Media
Partner: Professor M. Saffman, University of Wisconsin, USA

Project: Photorefractive Solitons
Partner: Professor C. Denz, University of Münster, Germany

Project: Discrete Solitons
Partner: Professor F. Lederer, University of Jena, Germany

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

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

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

Ms P. Lever, Dr H.H. Tan and Professor C. Jagadish

Project: Optical Spectroscopy of Quantum Dots
Partner: Professor J. Wolter, Eindhoven University of Technology, The Netherlands

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

Project: Coupled-channel Calculations of Linewidths for the b State of N_2
Partners: Professor H. Lefebvre-Brion, Université de Paris-Sud, France; Professor J.-M. Robbe, Université de Lille, France

Project: Review of Molecular Oxygen

Partners: Professor M.L. Ginter, University of Maryland, USA; Dr J.S. Morrill, Washington Naval Research Laboratory, USA

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

Project: High Resolution XUV Laser Spectroscopy of Isotopic Nitrogen
Partners: Professor W. Ubachs and Professor W. Hogervorst, Vrije Universiteit Amsterdam, The Netherlands

Professor B.R. Lewis, Dr K.G.H. Baldwin and Dr M. Kono

Project: Development of Ultra-high Resolution VUV Laser Sources
Partner: Professor B.J. Orr, Macquarie University

Professor J.D. Love

Project: Scanning Near-field Optical Microscopy

Partners: Dr S. Huntington and Dr B. Gibson, University of Melbourne; Dr V. Steblina, VA FutureTech Consulting Pty Ltd, Sydney

Project: Propagation in Practical Multimode Fibres and Devices

Partners: Professor D. Abrahams and Dr E. Perrey-Debain, University of Manchester, UK

Project: Undergraduate Text Book on Optical Fibres, Waveguides and Devices

Partners: A/Professor F. Ladouceur, University of New South Wales; Dr F.P. Payne, University of Oxford, UK

Professor J.D. Love and Dr A. Ankiewicz

Project: Multimode Waveguides and Devices

Partner: Redfern Polymer Optics

Dr J.C.A. Lower

Project: Investigation into (e,3e) and (e,2e) Processing Using Time-of-flight Techniques and Toroidal Electrostatic Analysers

Partner: Dr A. Dorn, Max-Planck-Institute for Nuclear Physics, Germany

Professor B. Luther-Davies

Project: Highly Oriented Nanostructures of Nonlinear Optical Materials for Applications in Polarized Light Emitting Diodes and Optical Devices.

Partner: Dr H. Burkhard Schulz, Potsdam University, Germany

Professor B. Luther-Davies and Professor 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 State Government through Department of State and Regional Development; CSIRO; Osaka University, Japan; University of Central Florida, USA; Lucent Technologies, USA; Institute Fresnel, France

Professor B. Luther-Davies and Ms A. Smith

Project: Production of Bulk Samples of Novel Chalcogenide Glasses

Partner: Professor K. Richardson, University of Central Florida, USA

Professor N.B. Manson and Dr M. Sellars

Project: Quantum Computing Using the Nitrogen-vacancy Centre in Diamond

Partners: Professor M. Scully and Professor P. Hemmer, T & M University, USA; Dr D. Pulford, Defence Science and Technology Organisation; Professor S. Prawer, University of Melbourne

Professor R.P. McEachran

Project: Absorption Effects in Elastic Scattering

Partners: Professor H. Cho, Chungnam National University, Korea; Professor H. Tanaka, Sophia University, Japan

Project: Positron Excitation of Krypton and Xenon

Partners: Professor A.D. Stauffer, York University, Canada; Dr L.A. Parcell, MacQuarie University

Project: Low Energy Transport Properties in Zinc

Partners: Dr R. White, James Cook University; Professor K. Bartschat, Drake University, USA

Dr F.P. Mills

Project: Analysis and Modeling of OH Column Abundances

Partners: Dr S.P. Sander, Dr R.P. Cageao, and Dr M. Allen, NASA Jet Propulsion Laboratory, USA

Project: Excited State Oxygen Chemistry in the Venus Atmosphere

Partners: Dr M. Allen, NASA Jet Propulsion Laboratory, USA; Professor Y.L. Yung, California Institute of Technology, USA

Project: Photochemical Modeling of the Venus Middle Atmosphere

Partners: Dr M. Allen, NASA Jet Propulsion Laboratory, USA; Professor Y.L. Yung, California Institute of Technology, USA

Project: Ultraviolet Characterization and Remote Sensing of Aerosols

Partner: Dr A. Eldering, NASA Jet Propulsion Laboratory, USA

Project: UV and Temperature Effects on Grape Cultivation

Partners: A/Professor S.R. Wilson, University of Wollongong; Dr L. Lemus-Deschamps, Bureau of Meteorology Research Center, Melbourne; Mr J. Moody, Multiflex Inc., Melbourne

Dr D. Neshev

Project: Transfer of Angular Momentum to Nonlinear Periodic Structures

Partner: Professor Z. Chen, San Francisco State University, USA

Project: Narrow-band Tunable Radiation for Laser Spectroscopy in the Extreme Ultra-violet Region

Partner: Professor W. Ubachs, Vrije Universiteit Amsterdam, The Netherlands

Project: Attraction of Nonlocal Dark Optical Solitons

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

Dr D. Neshev and Dr A. Desyatnikov

Project: Generation of Nonlinear Two-dimensional Periodic Structures

Partner: Professor C. Denz, Westfälische Wilhelms-Universität Münster, Germany

Project: Dynamics of Phase Singularities in Nonlinear Systems

Partner: Dr A. Dreischuh, Sofia University, Bulgaria

Dr C. Neto

Project: Dewetting of Thin Liquid Films

Partner: Professor K. Jacobs, Saarland University, Germany

Project: Characterisation of Magnetic Nanoparticles

Partners: Dr M. Bonini and Professor P. Baglioni, University of Florence, Italy

Professor B.W. Ninham

Project: Physical, Colloid and Surface Chemistry

Partners: Professor W. Kunz, University of Regensburg, Germany; Professor P. Baglioni, Dr P. Lo Nostro, Dr R. Giorgi and Dr E. Fratini, University of Florence, Italy; Professor M. Monduzzi, University of Cagliari, Italy; Dr M. Bostrom, Linkoping University, Sweden; Dr T. Nylander and Dr V. Alfredsson, University of Lund, Sweden; Professor O. Manuel, University of Rolla-Missouri, USA; Professor K. Larsson and Professor S. Andersson, University of Lund and Sandvik, Sweden

Dr M. Ridgway

Project: Formation of Dilute GaAs_xN_{1-x} and Ga_xMn_{1-x}As Alloys by Ion Implantation

Partners: Dr O. Dubon, University of California at Berkeley, USA; Dr K.M. Yu, Lawrence Berkeley National Laboratory, USA

Project: Laser Annealing of Ion-implanted Semiconductors

Partner: Professor M. Rao, George Mason University, USA

Dr M. Ridgway and Professor J.S. Williams

Project: Nanocavity Evolution in Si under Ion Irradiation

Partners: Professor H. Bernas, Dr M.-O. Ruault and Dr F. Fortuna, CNRS, France

Dr M. Ridgway, Dr R. Dogra and Professor A.P. Byrne

Project: Pd-defect and Pd-dopant Characterisation with Perturbed Angular Correlation

Partner: Dr R. Vianden, University of Bonn, Germany

Dr M. Ridgway, Dr C.J. Glover and Dr S. Kluth

Project: EXAFS Characterisation of Amorphous Semiconductors

Partners: Dr G. Azevedo, Laboratorio Nacional de Luz Sincrotron, Brazil; Dr K.M. Yu, Lawrence Berkeley National Laboratory, USA; Dr G.J. Foran, ANSTO

Project: EXAFS Characterisation of Semiconducting and Metallic Nanocrystals

Partners: Dr G. Azevedo, Laboratorio Nacional de Luz Sincrotron, Brazil; Dr G.J. Foran, ANSTO

Project: Implantation-induced Amorphisation of Ternary Semiconductors

Partner: Professor W. Wesch, Friedrich-Schiller University, Germany

Dr V. Robins

Project: Signatures of Spatial Morphology in Ordered and Disordered Media

Partner: Dr K.R. Mecke, Max-Planck-Institut für Metallforschung, Germany

Dr B.A. Robson

Project: Antiproton Scattering

Partner: Professor Y.-S. Zhang, Institute of High Energy Physics, P.R. China

Project: Deuteron-deuteron Elastic Scattering

Partner: Professor Y.-S. Zhang, Institute of High Energy Physics, P.R. China

Project: Fusion

Partners: Dr B. Giraud, CEA Saclay, France; Dr K.A. Amos and Dr S. Karataglidis, University of Melbourne

Dr R.E. Robson

Project: The Electron-hydrogen Vibrational Excitation Cross Section

Partners: Professor M.A. Morrison, University of Oklahoma, USA; Dr R. White, James Cook University

Project: Fluid Equations for Weakly Ionised Plasmas

Partner: Professor Z. Petrovic, Belgrade Institute of Physics, Serbia

Project: Transport Processes in Amorphous Semiconductors and Polymers

Partners: Professor A. Blumen, Institut für Theoretische Polymerphysik, Germany; Dr P. Meredith, University of Queensland

Project: Transport Processes in Weakly Ionised Gases and Plasmas

Partners: Dr R.D. White, James Cook University; Professor M.A. Morrison, University of Oklahoma, USA; Professor Z. Petrovic, Belgrade Institute of Physics, Serbia

Dr A. Rode

Project: 100-W Laser System for Ultra-fast Pulsed Laser Deposition

Partners: Dr J. Gieseckus and Mr M. Duering, Fraunhofer Institute for Laser Technique Aachen, Germany

Project: Boron Nitride Nanostructures Formed by the High Repetition-rate Laser Ablation

Partners: Dr D. Golberg and Professor Y. Bando, National Institute for Material Science, Japan

Project: Magnetic Properties of Laser-deposited Carbon Nanofoam

Partners: Dr J. Giapintzakis, Institute of Electronic Structure and Lasers, Greece; Dr D. Tomanek, Michigan State University, USA

Project: Sub-picosecond Laser Deposition of Optical Films

Partner: Professor B.N. Chickov, Laser Zentrum Hannover e.V., Germany

Project: Recording and Reading of Three-dimensional Memory in Glasses

Partners: Professor H. Mizawa and Dr S. Juodkazis, University of Tokyushina, Japan

Dr A. Samoc and Dr M. Samoc

Project: Crystal Structure of the Second Order Nonlinear Optical Addition Complex $AsI_3 \cdot 3S_8$

Partners: Dr E.R. Krausz and Dr A.C. Willis, Research School of Chemistry

Dr A. Samoc, Dr M. Samoc and Professor B. Luther-Davies

Project: Third-order Optical Nonlinearities of Oligomers, Dendrimers and Polymers Derived from Solution Z-scan Studies

Partner: Dr M. Humphrey, Department of Chemistry

Project: Synthesis and Third-order Nonlinear Optical Properties of End-functionalized Oligophenylenevinylenes

Partner: Dr M.S. Wong, Baptist University, HongKong

Project: Nonlinear Optical Properties of Soluble Oligomers of PPV

Partner: Dr M.S. Wong, Baptist University, HongKong

Dr M. Samoc

Project: Nonlinear Optics and Nanophotonics

Partner: Professor P.N. Prasad, New York State University at Buffalo, USA

Project: Nonlinear Properties of Evaporated Films of Disperse Red

Partner: Professor M.O. Tjia, Bandung Institute of Technology, Indonesia

Dr M. Sellars and Dr J. Longdell

Project: Investigation of EIT and Slow Light

Partner: Professor P. Hemmer, Texas A & M University, USA

Dr T.J. Senden

Project: Nanoscopic Manipulation of Molecular Assemblies

Partner: Professor J.-M. di Meglio, Université Paris VI, France

Dr M.G. Shats

Project: Electron Cyclotron Heating of Plasma in Stellarators

Partner: Dr K. Nagasaki, Kyoto University, Japan

Project: Confinement Studies in Stellarators

Partner: Professor K. Toi, National Institute for Fusion Science, Japan

Project: Turbulent Structures and Transport in Plasmas

Partners: Professor P.H. Diamond and Dr D. Rudakov, University of California, USA

Dr A. Sheppard

Project: Morphometry of Nutshells, Analysis of Foam Dynamics from Tomographic Image Sequences

Partners: Dr K. Mecke, Dr U. Wegst and Mr B. Briedenbach, Max-Planck-Institut für Metallforschung, Germany

Ms K. Stewart, Dr L. Fu, Dr M. Buda, Dr H.H. Tan and Professor C. Jagadish

Project: Tuning of Detection Wavelength of Quantum Dot Infrared Photodetectors

Partners: Dr A. Stiff-Roberts and Professor P. Bhattacharya, University of Michigan, USA

Dr A.E. Stuchbery

Project: γ - γ Angular Correlations from Reactions with Intermediate-energy Beams

Partners: Ms H. Olliver and Professor T. Glasmacher, Michigan State University, USA

Project: Gyromagnetic Ratios and Octupole Collectivity in the Structure of the $^{90-96}\text{Zr}$ Isotopes

Partners: Professor N. Benczer-Koller and Dr G. Kumbartzki, Rutgers University, USA; Dr T.J. Mertzimekis, Michigan State University, USA

Project: Radioactive Ion Beams in the Region of ^{100}Sn and ^{78}Ni at the NSCL

Partners: Dr A. Stolz et al., Michigan State University, USA

Project: Shell Model Configurations in the 2^+_1 State in ^{46}Ca from a g-factor Measurement

Partners: Dr M.J. Taylor, University of Brighton, UK; Professor N. Benczer-Koller, Rutgers University, USA; Dr L. Bernstein, Lawrence Livermore National Laboratory, USA; Dr M.A. McMahan, Lawrence Berkeley National Laboratory, USA; Professor K.-H. Speidel, Universität Bonn, Germany

Project: g-factor Measurements of First 2^+ States of Heavy Te Isotopes Based on Nuclear Spin Deorientation for Nuclei Recoiling in Vacuum

Partners: Dr M. Danchev and Professor C.R. Bingham, University of Tennessee, USA; Professor N. J. Stone, Dr J.R. Stone and Ms C.L. Timlin, University of Oxford, UK; Dr J. Pavan, Dr C. Baktash, Dr J. Beene, Dr A. Galindo-Uribarri, Dr C.J. Gross and Dr D.C. Radford, Oak Ridge National Laboratory, USA; Professor N. Benczer-Koller and Dr G. Kumbartzki, Rutgers University, USA; Professor N.V. Zamfir, Yale University, USA

Dr A.E. Stuchbery and Professor A.P. Byrne

Project: Hyperfine Interactions Spectrometer

Partners: A/Professor D.H. Chaplin, ADFA, University of New South Wales; Professor H.H. Bolotin, University of Melbourne

Dr A.E. Stuchbery, Dr A.N. Wilson and Dr P.M. Davidson

Project: Transient Fields for Mg Ions Traversing Gadolinium Hosts at Velocities above and below the K-shell Electron Velocity

Partners: Professor P.F. Mantica, Dr T.J. Mertzimekis, Mr A.D. Davies, Mr S.N. Liddick and Mr B.E. Tomlin, Michigan State University, USA

Project: Excited-state Configurations in ^{38}S and ^{40}S through Transient-field g-factor Measurements on Fast Fragments (NSCL Experiment 02020)

Partners: Professor P.F. Mantica, Mr A.D. Davies and the NSCL Beta-NMR and Gamma Groups, Michigan State University, USA

Dr A.E. Stuchbery, Dr A.N. Wilson, Professor G.D. Dracoulis, Professor A.P. Byrne and Dr G.J. Lane

Project: Electromagnetic Properties of Pseudo-Nilsson Bands in ^{185}Os

Partners: Dr C. Wheldon, University of Surrey, UK; Dr A.M. Bruce, University of Brighton, UK; Professor C.B. Moon, Hoseo University, Republic of Korea

Dr H.H. Tan and Professor C. Jagadish

Project: Growth of InP-based Photodiodes and Photodetectors

Partner: Professor J. Campbell, University of Texas at Austin, USA

Project: Thermionic Cooling in Semiconductors

Partner: Professor R. Lewis, University of Wollongong

Dr A.G. Truscott, Dr K.G.H. Baldwin and Centre for Quantum-Atom Optics

Project: Metastable Helium Bose-Einstein Condensation

Partners: Professor M. Leduc, École Normale Supérieure, France; Dr W. Vassen, Vrije Universiteit Amsterdam, The Netherlands

Dr M. Vos

Project: Elastic Scattering of Electrons and Neutrons at High Momentum Transfer

Partners: Dr T. Abdul-Redah, ISIS and University of Kent, UK; Professor Dr C.A. Chatzidimitriou-Dreismann, Professor A. Hitchcock and Dr G. Cooper, McMaster University, Canada

Dr M. Vos and Dr A.S. Kheifets

Project: Electron Correlations in Solids

Partner: Dr F. Aryasetiawan, National Institute of Advanced Industrial Science and Technology, Japan

Dr A.N. Wilson

Project: High-Spin States in Nuclei with $A=120$ near the Proton Dripline

Partners: Dr J.F. Smith, Manchester University, UK; Dr C.J. Chiara, Washington University at St Louis, USA; Dr E.S. Paul, Liverpool University, UK

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

Project: Decay out of Superdeformed Bands in a Two-level Mixing Model

Partners: Professor B.R. Barrett, Professor C. Stafford and Mr D.M. Cardamone, University of Arizona, USA

Project: Decay out of Superdeformed Bands

Partners: Dr A.J. Sargeant and Professor M.S. Hussein, Universidade de Sao Paulo, Brazil

Dr A.N. Wilson, Dr P.M. Davidson, Professor G.D. Dracoulis and Professor A.P. Byrne

Project: Superdeformation in Po Isotopes

Partners: Dr R.A. Bark and Professor J.F. Sharpey-Schafer, iThemba Laboratories, South Africa; Professor H. Hubel and Ms C. Englehardt, Helmholtz Institut für Strahlen- und Kern-Physik, Germany; Dr A. Korichi, Centre de Spectrométrie Nucléaire et de Spectrométrie de Masse, France

Dr A.N. Wilson, Professor G.D. Dracoulis, Dr P.M. Davidson, Professor A.P. Byrne and Dr G.J. Lane

Project: Superdeformation in Light Pb Isotopes

Partners: Dr R.M. Clark, Dr P. Fallon, Dr A.O. Macchiavelli and Dr D. Ward, Lawrence Berkeley National Laboratory, USA; Dr A. Görgen, Commissariat à l'Energie Atomique, France

Dr A.N. Wilson, Dr P.M. Davidson, Professor G.D. Dracoulis, Professor A.P. Byrne and Dr G.J. Lane

Project: Superdeformed ^{196}Pb

Partners: Professor H. Hubel and Dr A.K. Singh, ISKP Bonn, Germany; Dr A. Korichi, CSNSM Orsay, France

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, Sweden; Professor D. Cockayne, University of Oxford, UK

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

Project: Electron Microscopy Study of Defects in Ion Implanted Semiconductors

Partners: Dr J. Zou, University of Queensland; Dr J. FitzGerald, Research School of Earth Sciences; Professor D.J.H. Cockayne, Oxford University, UK

Dr W.S. Woolcock

Project: The Pion-Nucleon System at Low Energies

Partners: Dr E. Matsinos, Varian Medical Systems, Switzerland; Professor G.C. Oades, Aarhus University, Denmark; Professor G. Rasche, University of Zurich, Switzerland

International Collaborative/Cooperative Agreements

The School holds collaborative/cooperative agreements and/or memoranda of understanding with the following institutions and organizations:

- Institute of Nuclear Physics, Belgium
- Department of Communications, Canada
- Beijing University, China
- Shanghai Institute of Technical Physics (SITP), Chinese Academy of Sciences, China
- National Laboratory for Infrared Physics, Shanghai Institute of Technical Physics, Chinese Academy of Sciences, China
- Tsinghua University, China
- Institute of Mathematics Modelling, Technical University of Denmark, Denmark
- Physics Department, University of Jyväskylä, Finland
- GANIL IN2P3, France
- L'Ecole Polytechnique, France
- University of Augsburg, Germany
- Hahn-Meitner Institute, Germany
- Institute of Advanced Energy, Kyoto University, Japan
- National Institute for Fusion Science, Japan
- RCNP, Japan

- Samsung Electronics Co. Ltd, Korea
- Telecom Korea, Seoul, Korea
- Agrigenesis Biosciences Ltd, Auckland, New Zealand
- National Accelerator Facility and FRD, South Africa
- The Physics Department, University of Pretoria, South Africa
- Ericsson Components AB, Sweden
- Ericsson Fibre Optic Research Centre, Sweden
- Royal Institute of Technology, Sweden
- COBRA Inter-University Research Institute on Communication Technology, Eindhoven University of Technology, The Netherlands
- ANU-Engineering & Physical Sciences Research Council Agreement (ANU-EPSRC), UK (The ANU-EPSRC agreement in effect covers a range of UK universities)
- Cambridge University, UK
- Oxford University, UK
- ATLAS Accelerator Facility, Argonne National Laboratory, USA
- Bell Laboratories, USA
- Intel Corporation, USA
- Physics Division, Lawrence Berkeley Laboratory, USA
- Lightwave Microsystems Corporation, USA
- Lucent Technologies, USA
- Motorola, USA
- HHRIF, Oak Ridge National Laboratory, USA
- Lockheed Martin Energy Research Corporation, Oak Ridge National Laboratory, USA
- OFT Associates, USA
- Princeton Plasma Physics Laboratory, Princeton University, USA
- Stanford University, USA
- Stanford Linear Accelerator Center, Stanford Synchrotron Radiation Laboratory, USA

- The European Union-Australia Science & Technology Agreement, DIST
- Deutscher Akademischer Austauschdienst (DAAD) Exchange Service

National Collaborative Agreements

The School holds the following collaborative agreements under the IAS/Other Australian University Collaboration Scheme and has various independent agreements with Australian industries:

- ACTEWAGL, Canberra
- ADC Australia, Canberra
- AGEN Pty Ltd, Brisbane
- Allen & Buckridge Partners
- Canberra Institute of Technology
- Central Queensland University
- Curtin University of Technology
- Ericsson Australia Pty Ltd, Melbourne
- Flinders University

- Griffith University
- Hypatia Analytic Thought Pty Ltd, Melbourne
- James Cook University
- JDS/Uniphase, Sydney
- La Trobe University
- Macquarie University
- Monash University
- Photonic Technologies Pty Ltd, Sydney
- Royal Melbourne Institute of Technology
- Siemens Ltd, Sydney
- University College, Canberra,
- University of Canberra
- University of Melbourne
- University of New England
- University of New South Wales
- University of Newcastle
- University of Queensland
- University of South Australia
- University of Sydney
- University of Western Australia
- University of Western Sydney – Faculty of Business and Technology
- University of Wollongong
- The Powerhouse Museum of Applied Arts & Sciences, Sydney