



Filip G. Kondev

Program Manager, Argonne Nuclear Data Program



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Curriculum Vitae

Name: Filip G. Kondev
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Education

Ph.D. Research School of Physical Science and Engineering,
Australian National University, Canberra, Australia
Thesis title: "Interplay between intrinsic and Collective Motion in Tantalum Nuclei"
Diploma (MSc) Plovdiv University, Plovdiv Bulgaria
Thesis title: "Study of (γ, α) Photonuclear Reactions in the Giant Dipole Resonance Region"

Employment

Feb. 2004 – present **Physicist**, Nuclear Engineering Division,
Argonne National Laboratory, Argonne, Illinois, USA
Dec. 2001 – Feb. 2004 **Assistant Physicist**, Nuclear Engineering Division,
Argonne National Laboratory, Argonne, Illinois, USA
Feb. 2001 – Dec. 2001 **Research Associate**, Nuclear Engineering Division
Feb. 1999 – Feb. 2001 **Research Associate**, Physics Division,
Argonne National Laboratory, Argonne, Illinois, USA
Feb 1997 – Jan. 1999 **Research Associate**, Department of Physics,

Aug. 1993 – Dec. 1996	Florida State University, Tallahassee, Florida, USA Graduate (Ph.D.) Student , Department of Nuclear Physics, Australian National University, Canberra, Australia
March 1995 – Dec. 1995	Tutor and Laboratory Demonstrator , Australian Defense Force Academy, University of New South Wales, Canberra, Australia
Nov. 1988 – May 1993	Junior Research Fellow , Joint Institute for Nuclear Research, Dubna, Russia

Areas of Expertise

Experimental Nuclear Physics: Nuclear Structure and Decay; Interplay between Nuclear Structure and Nuclear Astrophysics; Time-correlated Gamma-ray and Conversion Electron Spectroscopy Techniques; Charged Particles and Heavy-ion Recoils Detection Techniques; Physics of Nuclear Isomers; Nuclear Fusion and Fission; Physics with Radioactive Beams; Reactions Induced by Neutrons and Heavy Ions; Photonuclear Reactions

Radiation Physics and Detectors: Detector Modeling and Development; Highly segmented Ge CLOVER Detectors; High-purity Ge Double-Sided Strip Detectors (HpGeDSSD); Position-sensitive Si DSSD; Scintillation Detectors (LaBr₃(Ce), BGO, NaI, CsI); Total Absorption Gamma-ray Spectrometer, PIPS charged particle detectors; He-3 and fission chambers detectors for neutron measurements

Applied Nuclear Physics: Non-destructive Nuclear Interrogation Techniques; Gamma-ray Imaging and Tracking; Gamma-ray and Neutron Activation Analyses; Reactivity Measurements for Accelerator Driven Nuclear Systems

Nuclear Data: Nuclear Structure and Decay Data Evaluation – ENSDF, XUNDL, DDEP, AME and NuBase databases; Nuclear Data Measurements; Nuclear Data for Astrophysics and Nuclear Energy Applications (both analytical and experimental)

Membership, Refereeing Journals and Conference Organization

Membership and Affiliations

International collaborations International Nuclear Structure and Decay Data Network, coordinated by IAEA
International Decay Data Evaluation Project
IAEA-CRP on “Updated Decay Library for Actinides”
FRIB and GRETINA User Groups

User facility ATLAS, FRIB, HIBRF, NSCL, TRIUMF & GAMMASPHERE

Professional activities Australian Institute of Physics (1996); American Physical Society (since 1997); Division of Nuclear Physics (since 1997); American Nuclear Society (since 2001), Division of Accelerator Applications (since 2001), Division of Isotopes & Radiations (since 2001); U.S. Nuclear Data Program Coordinating Committee (since 2002); GAMMASPHERE User Executive Committee (since 2009)

Reviewer

Journals Physical Review C, Physical Review Letters, Nuclear Physics A, Physics Letters B, Journal of Physics G, Nuclear Data Sheets, Applied Radiation and Isotopes, Review of Scientific Instruments

Sponsoring Agencies U.S. Department of Energy, Office of Science, Office of Nuclear Physics; U.S. National Science Foundation, Physics Division; U.S. Department of Energy, Office of Nuclear Energy, Nuclear Energy University Initiative; U.S. Department of Air Force, Office of Scientific Research

PhD Thesis Reviewer Dr. Steffen Ketelhut, University of Jyväskylä, December 2010
Dr. Suresh Kumar, Indian Institute of Technology, March 2008
Dr. T.R. McGoram, Australian National University, Dec. 2002

Conference Organization

Organizing committee International Conference on “Nuclei at the Limits”, Argonne National Laboratory, August 2004

Advisory and Program committees Workshop on “Radioactive Decay Data Evaluation”, Madrid, Spain, June 2010
Workshop on “Nuclear Structure and Decay Data Evaluators” (ENSDF-2009), Bucharest, Romania, March 2009
Second Workshop for Radioactive Decay Data Evaluators, Bucharest, Romania, May 2008

Teaching Experience

- Lecturer at the 7th Balkan Nuclear Physics School, September 2010, Adrasan, Turkey
- Lecturer at the ENSDF-2009 training workshop, March 2009, Bucharest, Romania
- Lecturer at the 6th Balkan Nuclear Physics School, September 2008, Trojan, Bulgaria
- Lecturer at the IAEA/ICTP organized training workshop on “Nuclear Structure & Decay Data: Theory and Evaluation”, May 2008, Trieste, Italy
- Lecturer at the Second Workshop for Radioactive Decay Data Evaluators, May 2008, Bucharest, Romania
- Lecturer at the IAEA/ICTP organized training workshop on “Nuclear Structure & Decay Data: Theory and Evaluation”, February 2006, Trieste, Italy
- Lecturer at the LNHB/CEA organized training workshop on “Nuclear Decay Data”, March 2006, Saclay, France
- Lecturer at the IAEA/ICTP organized training workshop on “Nuclear Structure & Decay Data: Theory and Evaluation”, April 2005, Trieste, Italy
- Demonstrator at RIA Summer School, Argonne National Laboratory, August 2003
- Scientific mentor of graduate students at Florida State University, University of Tennessee, Illinois Institute of Technology and Argonne National Laboratory
- Undergraduate level physics and laboratory classes at the Australian Defense Force Academy, University of New South Wales, Canberra, Australia

Committees & Honors

since June 2010	Coordinator	International DDEP collaboration
since April 2009	Committee Member	GAMMASPHERE User Executive Committee
since Oct. 2008	Committee Member	ANL Director Post-doctoral Committee
since Oct. 2006	Committee Member	ANL Library Committee
2005 - 2008	Chair	IAEA-CRP “Updated Decay Data Library for Actinides”
since 2002	Committee Member	U.S. Nuclear Data Program Coordination Committee
since Oct. 2001	Principal Investigator	Argonne National Laboratory Nuclear Data Program

Awards, Fellowships and Grants

Oct. 2009 – Oct. 2012	\$2M	Office of Nuclear Physics, U.S. DOE competitive ARRA grant “Beta-decay Studies of Neutron-rich Fission Products for Advanced Fuel Cycle Applications” (Co-PI)
Oct. 2009-Oct. 2011	\$244K	Office of Nuclear Physics, U.S. DOE ARRA grant “Nuclear Data Initiative” (PI)
Oct. 2009 – Oct. 2012	\$2M	Office of Nuclear Physics, U.S. DOE competitive ARRA grant “Measurement and Evaluation of Actinide Neutron Cross Sections Relevant to Advanced Fuel Cycles via Accelerator Mass Spectroscopy” (Co-PI)
Oct. 2007 – Oct. 2009	\$300K	Director Competitive LDRD Grant awarded by the Director of the Argonne National Laboratory “Development of Total Absorption Gamma-ray Spectrometer for Advanced Fuel Cycles Applications” (Co-PI)
Since Oct. 2001	~\$370K per year	Office of Nuclear Physics, U.S. DOE/Principal Investigator of the Argonne Nuclear Data Program (PI)
Oct. 2003 – Oct. 2005	\$240K	Director Competitive LDRD Grant awarded by the Director of the Argonne National Laboratory “Development of GeDSSD for Nuclear Imaging Applications” (Co-PI)
Aug. 1993 – Dec. 1996	A\$20K per year	Overseas Postgraduate Research Fellowship awarded by the Australian Government
Aug. 1993 – Dec. 1996	A\$15K per year	Australian National University Scholarship awarded by the Australian National University

Professional Staff Supported

Dr. Chithra Nair	Post-doctoral Associate	2010-present
Dr. Gulhan Gurdal	Post-doctoral Associate	2009-present
Mr. Michael Smith	Visiting Student	2010
Dr. Yuri Khazov	Visiting Professor	2009
Dr. Alan Nichols	Visiting Professor	2009
Dr. Stefan Lalkovski	Visiting Professor	2009
Dr. Christopher Chiara	Post-doctoral Associate	2008-2009
Dr. Gopal Mukherjee	Visiting Professor	2008
Dr. Tsanka Venkova	Visiting Professor	2008
Mr. Michael Smith	Visiting Student	2008
Dr. Shaofei Zhu	Post-doctoral Associate	2006-2007
Dr. Ken Leszczynski	Visiting Professor	2007
Dr. Stefan Lalkovski	Visiting Professor	2005
Dr. Alan B. Smith	STA appointee	2004-present

Publications and Presentations

More than **550** publications in peer-reviewed scientific journals, conference proceedings and technical reports. More than **75** invited talks given at domestic and international scientific conferences, workshops and technical meetings.