CURRICULUM VITAE

Dr. Dimiter Loukanov BALABANSKI

Nationality: Bulgarian

Education:

1975 – 1980: St. Kliment Ohridski University of Sofia, Physics Engineering, Bulgaria

1968 – 1973: English Language Secondary School, Sofia, Bulgaria

Scientific degrees:

2014: Professor and PhD Thesis Adviser, University Politehnica, Bucharest, Romania

2014: Head of Research: Nuclear Physics and Applications with High-Brilliance Gamma Beams, ELI-NP, IFIN-HH. Magurele. Romania

2013: Senior Researcher CS I, ELI-NP, IFIN-HH, Magurele, Romania

2007: Senior Researcher II, INRNE, Bulgarian Academy of Sciences

1997: Associate Professor of Physics, St. Kliment Ohridsky University of Sofia, Bulgaria

1993: Ph.D. in Physics, St. Kliment Ohridsky University of Sofia, Bulgaria 1980: Nuclear Engineer, St. Kliment Ohridsky University of Sofia, Bulgaria

Positions:

since 2013: ELI-NP, IFIN-HH, Senior Researcher CS I, Head of Research Activity, Magurele, Romania

2007 – 2013: INRNE, Bulgarian Academy of Sciences, Senior Researcher II

2003 – 2007: University of Camerino, Italy, Professor (4 years position of the Italian Ministry of Education)

1997 – 2003: Faculty of Physics, St. Kliment Ohridsky University of Sofia, Bulgaria, Associate Professor

1985 – 1996: Faculty of Physics, St. Kliment Ohridsky University of Sofia, Bulgaria, Assistant Professor

1980 – 1985: Faculty of Physics, St. Kliment Ohridsky University of Sofia, Bulgaria, Researcher

Positions as visiting scientist:

2009 – 2015: University Paris-Sud, France, Visiting Professor (in total ½ year)

2007: CSNSM, Orsay, France, CNRS Visiting Research Professor (three months)

1999 – 2002: University of Tennessee, Knoxville and ORNL, Oak Ridge, TN, USA, Guest Professor (in total 1 ½ years)

1995 – 2003: University of Leuven, Belgium, Visiting Scholar (fellowships of EC: HPRI-1999-CT50001,

NATO, the Ministry of Science and Technologies of Belgium and the Flemish Science Foundation; in total 5 years)

1994 – 1996: University of Milano and INFN-Milano, Italy, Visiting Scientist (INFN fellowships, total ½ year)

1987 – 1993: Visiting Scientist, Forschungszentrum Juelich, Germany (fellowships of IAEA, Vienna and FZ-Juelich, in total 3 ½ years)

Research activities:

Photofission

IGISOL technique

Photonuclear processes and nuclear photonics

Structure of atomic nuclei at high angular momenta

Structure of atomic nuclei away from the stability line

Dynamic symmetries in atomic nuclei

Design of multidetector systems for nuclear spectroscopy

Isotope glaciology (1988 – 2000)

Moessbauer spectroscopy (1980 – 1987)

Applied nuclear physics (1980 – 1987)

Scientific projects:

- 2011 2013: coordinator of bilateral projects with the Bulgarian National Science Fund (France DRILA-01/8 and Germany DNTS/GERMANY-01/7)
- 2010 2014: FP7 I3 ENSAR (262010) project (European Nuclear Science and Applications Research), coordinator of the Bulgarian team, work package leader (JRA06 EWIRA East-West Integrated Research Activity), member of the Scientific Council and of the Program Coordination Committee
- 2009 2013: projects with the Bulgarian National Science Fund (DRNF-02/5 coordinator, DID-02/16 and DNTS-02/21 team member)
- 2007 2011: Spriral2 Preparatory Phase project: EC FP7 Spiral2PP (212692); head of the Bulgarian team and member of the Steering Committee of the PARIS project to construct a 4π scintillator array
- 2003 2009: nuclear data evaluation; IAEA Research Contract No. 12482 (2005 2008)
- 2003 2012: leader of the Bulgarian team and member of the Steering Committee of the AGATA project to construct an European gamma-ray tracking array; EC FP6 project RII3 EURONS: 506065
- 2002 2004: co-chair of a NATO CLG "New dynamic symmetries in atomic nuclei" (joint research project of the Istanbul and the Bosphoros Universities, Istanbul, Turkey, Yale University, New Haven, USA, NCSR" Demokritos", Athens, Greece and IFIN-HH, Bucharest, Romania
- since 1995: team leader of *more than 25* experimental projects to study the structure and the symmetries in atomic nuclei: at the INFN LNL laboratory in Legnaro, Italy (three), the National Accelerator Center iThemba lab, Cape Town, South Africa (three), Yale University, New Haven, USA (four), the ORNL National Laboratory, Oak Ridge, USA (one), the State University of Florida, Thalahassee, USA (one), the CYCLONE accelerator laboratory, Louvain-le-Neuve, Belgium (two), the Australian National University, Canberra, (one), the Tandem laboratory, Orsay, France (six), GSI, Darmstadt, Germany (one), ILL, Grenoble, France (five), GANIL, France (three), the Institute of Modern Physics, Lanzhou, China (one), the Tandem Laboratory, Bucharest, Romania (three), ATOMKI, Debrecen, Hungary (one) and ISOLDE at CERN (one).
- 1995 1998: head of the Bulgarian Antarctic Glaciological Program, field work during the 1995, 1996 and 1998 polar campaigns
- 1993 1994: projects for computerization of the Physics Library of the University of Sofia and setting of a LAN and internet connection of the Faculty of Physics of the University of Sofia, projects with the Open Society Fund (Soros Foundation), Sofia, Bulgaria

Scientific papers and conference reports:

Papers in refereed international journals: >120

Conference papers in refereed international journals: >60

Papers in conference proceedings: >75

Papers in Bulgarian journals: >10

Papers in Laboratory Annual Reports: >50

Invited seminars: >20

Invited talks at conferences: >50

Plenary talks at conferences and workshops: >60

Citations (SCI): > 2000

h-index: 33

Lecture courses:

(a) St. Kliment Ohridsky University of Sofia

1995/96: Atomic and Nuclear Physics (for Physics students)

1994/95, 1995/96: Atomic and Nuclear Physics (for Geology students)

1995/96, 1996/97, 1997/98, 2002/03: Nuclear structure (for M.S. students in Nuclear Physics)

(b) University of Camerino, Italy

2003/04, 2004/05: Nuclear spectroscopy

(c) University Politehnica Bucharest

2015/16, 2016/17, 2017/2018, 2018/2019: Research Opportunities at ELI-NP (M.S. students in Laser and Accelerator Technologies)

Diploma and Ph.D students:

- since 2015: adviser of eight students at SDIALA, University Politehnica Bucharest
- 2005 2010: consultant of *three* Ph.D. students at the University of Sofia (two), at the University of Istanbul (one).
 - 2018: defended Liliya Atanasova (U. Sofia) at present Assist. Professor, Medical University Sofia 2009: defended Lidya Susam (University of Istanbul) at present Assoc. Professor, U. Istanbul
- 1996 2006: adviser of seven Ph.D. students at the University of Sofia
 - 2001: defended Georgi Rainovski, at present Professor and Dean of Physics, U. Sofia
 - 2003: defended Miroslav Danchev, Assoc. Professor, U. Sofia (2009-2015), now in IT company
 - 2004: defended Kalin Gladnishki, at present Assoc. Professor, U. Sofia
 - 2005: defended Andrej Blazhev, at present Lecturer, U. Koeln
 - 2005: defended Radomira Lozeva, at present Researcher at CSNSM, Orsay
- 1996 2018: referee (jury member) of 9 Ph.D. theses in Bulgaria, Belgium, Germany, Australia and India
- 1991 2013: adviser of 12 M.S. theses at the University of Sofia, one at the University of Camerino and one at the Southwestern University of Blagoevgrad

Serving the scientific community:

- 2011 2014: member of the Board of the Bulgarian Union of Physicists
- 2010 2017: member of the International PAC of the Tandem-ALTO Laboratory at Orsay, Paris, France
- 2009 2015: member of the Nuclear Physics Board of the European Physical Society
- 2009 2016: member of the International PAC of the Heavy Ion Laboratory, Warsaw University, Poland
- 2009: member of the International PAC of the Tandem Laboratory, IFIN-HH, Bucharest, Romania
- 2008 2013: member of the International PAC of the FP7-REGPOT-2008-1 LIBRA 210123 project at NCSR "Demokritos", Athens, Greece
- 2008 2012: chair of the South-Eastern European Nuclear Physics Network (2002 2008 vice-chair)
- 2008 2012: co-chair of the European Network of NSDD evaluators (since 2002 NSDD expert)
- 2007 2014: member of the Steering Committee of the PARIS project for the construction of a 4π spectrometer of LaBr₃:Ce detectors
- 2006 2012: co-chair of an Working Party to study nuclear electromagnetic moments within the SPIRAL2 project, Caen, France
- 2004 2012: coordinator of an Working Group to study nuclear electromagnetic moments and member of the Technical Board of the HiSpec/DeSpec project within the NUSTAR collaboration (project FAIR)
- 2003 2012: member of the Steering Committee of the AGATA project for the construction of a 4π spectrometer of segmented HPGe detectors
- since 2002: referee of Physical Review Letters, Physical Review C, Journal of Physics G, European Physical Journal A, Physics Letters A and B, New Journal of Physics, Review of Scientific Instruments, Europhysics Letters and Annals of Nuclear Energy
- 2000 2003: coordinator of an Working Group for ground-state properties and fundamental interactions within the EURISOL preliminary design study, EC FP5 project HPRI-1999-CT50001
- 1999 2011: Bulgarian correspondent of Nuclear Physics News Magazine of NuPECC
- 1998 2008: chair or member of the Organizing/Program Committee of more than *ten* international conferences and workshops
- 1998 2002: founder and chair/member of the Organizing Committee of the Balkan workshop on Nuclear Physics and Applications (Tsigov Chark, Bulgaria 1999, Edirne, Turkey 2001, Tirgoviste, Romania 2002); now Balkan Workshop on Applied Physics which is held annually in Constanta, Romania
- 1997: co-founder and member of the Board of Directors of the Balkan School on Nuclear Physics (Istanbul, Turkey 1998, Bodrum, Turkey 2000, Thessaloniki, Greece 2002, Bodrum, Turkey 2004, Brasov, Romania 2006, Troyan, Bulgaria 2008; Adrasan, Antalya, Turkey 2010; Blagoevgrad,

Bulgaria – 2012)

Membership in scientific organizations

European Physical Society – individual member Bulgarian Union of Physicists Bulgarian Antarctic Institute

Prizes and Awards

2009: Pythagoras Prize of the Bulgarian Ministry of Education, Youth and Science for an Established Scientist in the field of Natural Sciences and Mathematics

1997: NATO Research Fellow 1987: IAEA Research Fellow

Languages:

Bulgarian – mother tongue English – written and spoken Russian, German – use at working level Italian, Dutch, Serbian – use with dictionary