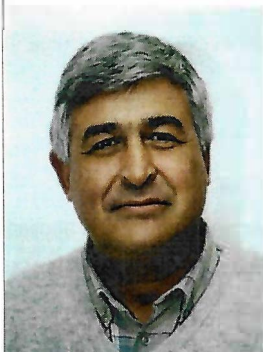




## Europass Curriculum Vitae



### Personal information

Surname(s) / First name(s) **BALABANSKI Dimiter Loukanov**

Address(es)

Telephone(s) +40755090971 (mobile, work)

E-mail [dimiter.balabanski@eli-np.ro](mailto:dimiter.balabanski@eli-np.ro)

Nationality Bulgarian

Date of birth

Gender Male

### Work experience

Dates 2013 – present

Occupation or position held Senior Researcher I, Head of Research Activity

Main activities and responsibilities nuclear physics and applications,  $\gamma$ -ray spectroscopy, nuclear fission

Name and address of employer Extreme Light Infrastructure – Nuclear Physics, IFIN-HH,  
30 Reactorului Str., 077125 Magurele, Romania

Type of business or sector Research Institute

Dates 2007 – 2013

Occupation or position held Senior Researcher, Group Leader

Main activities and responsibilities  $\gamma$ -ray spectroscopy, nuclear physics and applications

Name and address of employer Institute for Nuclear Research and Nuclear Energy  
72 Tsarigradsko Chaussee Blvd., 1415 Sofia, Bulgaria

Type of business or sector Research Institute

Dates 2004 – 2007

Occupation or position held Professor

Main activities and responsibilities  $\gamma$ -ray spectroscopy, nuclear physics and applications

Name and address of employer	University of Camerino Via Madonna delle Carceri, 62032 Camerino (MC), Italy
Type of business or sector	State University
Dates	1996 – 2004
Occupation or position held	Associate Professor
Main activities and responsibilities	$\gamma$ -ray spectroscopy, nuclear physics and applications
Name and address of employer	St. Kliment Ohridski University of Sofia, Bulgaria
Type of business or sector	State University
Dates	1999 – 2000
Occupation or position held	Visiting Associate Professor
Main activities and responsibilities	$\gamma$ -ray spectroscopy, nuclear physics and applications
Name and address of employer	University of Tennessee Knoxville, TN, USA
Type of business or sector	State University
Dates	1995 – 2003
Occupation or position held	Visiting Scientist (in total five years)
Main activities and responsibilities	$\gamma$ -ray spectroscopy, nuclear physics and applications
Name and address of employer	University of Leuven, Belgium
Type of business or sector	State University
Dates	1985 – 1996
Occupation or position held	Assistant Professor
Main activities and responsibilities	$\gamma$ -ray spectroscopy, nuclear physics and applications
Name and address of employer	St. Kliment Ohridski University of Sofia, Bulgaria
Type of business or sector	State University
Dates	1987 – 1990
Occupation or position held	Visiting Scientist
Main activities and responsibilities	$\gamma$ -ray spectroscopy, nuclear physics and applications
Name and address of employer	Forschungszentrum Juelich, Germany
Type of business or sector	National Research Center
Dates	1980 – 1985
Occupation or position held	Research Associate
Main activities and responsibilities	$\gamma$ -ray spectroscopy, nuclear physics and applications
Name and address of employer	St. Kliment Ohridski University of Sofia, Bulgaria
Type of business or sector	State University

### **Education and training**

Dates	1996
Title of qualification awarded	Habilitation
Principal subjects/occupational skills covered	nuclear physics
Name and type of organisation providing education and training	St. Kliment Ohridski University of Sofia, Bulgaria State University
Dates	1993

Title of qualification awarded | PhD in Physics  
Principal subjects/occupational skills covered |  $\gamma$ -ray spectroscopy, nuclear structure physics  
Name and type of organisation providing education and training | St. Kliment Ohridski University of Sofia, Bulgaria State University  
Dates | 1975 – 1980  
Title of qualification awarded | MS in Physics Engineering  
Principal subjects/occupational skills covered | Nuclear Engineering  
Name and type of organisation providing education and training | St. Kliment Ohridski University of Sofia, Bulgaria State University

**Personal skills and competences**

Mother tongue(s) | **Bulgarian**

Other language(s) | **English, German, Russian, Italian**

Self-assessment  
European level (\*)

**English**

**German**

**Russian**

**Italian**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
C1	Proficient user	C1	Proficient user	B2	Independent user	A2	Basic user	A2	Basic user
C2	Proficient user	C2	Proficient user	C1	Proficient user	B2	Independent user	B2	Independent user
B2	Independent user	B1	Independent user	A2	Basic user	A2	Basic user	A1	Basic user

(\*) *Common European Framework of Reference for Languages*

Social skills and competences

- team spirit;
- good ability to adapt to multicultural environments, gained through my work experience abroad.

Organisational skills and competences

- leadership (currently responsible for a team of more than 40 people);
- sense of organization (experience in leading different research projects);
- good experience in project management.

Technical skills and competences

- excellent experience with nuclear spectroscopic equipment

Computer skills and competences

- good experience with different operational systems;
- programming skills in C++ and FORTRAN;
- good command with different applications (text, graphic and data base handling).

Driving licence

Category B

**References**

Prof. Muhsin Harakeh, University of Groningen, The Netherlands  
Prof. Gerda Neyens, University of Leuven, Belgium and ISOLDE, CERN  
Prof. Rick Casten, Yale University, New Haven, CT, USA  
Prof. Nicolae Victor Zamfir, IFIN-HH, Magurele, Romania

## Additional information

### 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)  
Mössbauer 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: Spiral2 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  $4\pi$  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 4 $\pi$  spectrometer of LaBr<sub>3</sub>: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 4 $\pi$  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