






PERSONAL INFORMATION

Sabin Stoica



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 www.theory.nipne.ro/~stoica/

Sex M | Date of birth 01/07/1953 | Romania | Romanian

WORK EXPERIENCE

Replace with dates (from - to)

Horia Hulubei National Institute of Phys. and Nuclear Engineering Bucharest 1999-present
 Researcher rank 1

- Management of research projects in nuclear physics and high energy physics
- Head of the Department of Theoretical Physics

Horia Hulubei Foundation, Bucharest-Magurele 1997-present: Researcher rk 1, Professor

- Management of educational and research projects in physics
- Chair holder of the UNESCO Chair on “Sustainable Development through Research and Education in Modern Physics”

University of Bucharest: 2001-present: professor at the Doctoral school
 Faculty of Physics PhD adviser in atomic, nuclear and high energyphysics

EDUCATION AND TRAINING

Replace with dates (from - to)

- PhD in nuclear Physics (1985 – 1988), at Central Institute of Physics, Bucharest, Romania Replace with EQF (or other) level if relevant
- Faculty of Physics, Bucharest University (major nuclear physics) – (1972-1977)
- Carol I National College Craiova – 1968-1972 (baccalaureate, 1972)

PERSONAL SKILLS
 organizational

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C2
Replace with name of language certificate. Enter level if known.					
French	C2	C1	C2	C1	B2
Replace with name of language certificate. Enter level if known.					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Communication skills

good communication skills gained through my experience as: projects manager, team leader, head of department, lecturer

Organisational / managerial skills

Leadership:

- Head of the theoretical physics department (70 people, 50 PhD) – 6.5 years
- Romanian team leader in LHCb international collaboration (16 people) – CERN-Geneva (4.5 years)
- UNESCO Chair holder (10 people) (5 years)
- Director Centre of excellence in Nuclear physics (3 years)
- Director of the UNESCO cat. II International Centre for Advanced Training and Research in physics (CIFRA)

Computer skills

Good knowledge of Microsoft Office tools, Linux, Fortran, Mathematica, Latex, Revtex, etc.

Driving licence

Driving licence category B

ADDITIONAL INFORMATION

Domains of interest: nuclear: Nuclear physics and astrophysics, high energy physics, astroparticle physics, neutrino physics

Scientific contributions in: Double-beta decay, high energy physics, neutrino physics, astrophysics, atomic physics

Publications

> 400 articles in peer review journals, ~ 2,800 citations without self-citations; Hirsh index ~ 34;
> 50 presentations in international seminars and conferences

Projects

Director of ~ 20 national and international projects in research and education

Working stages:

I worked as invited researcher and professor in research centers and universities from abroad. A selected list includes: University of Tuebingen, University Marie Curie Sklodowska-Liublin, MPI-Heidelberg, L.A.L-Orsay, Centre de Rech. Nucl.-Strasbourg, Tokyo Institute of Technology, Observatoire de la Cote d'Azur-Nice, University of Jyväskylä, CERN-Geneva; Iowa University; Institute of Nuclear Theory-Seattle; LLNL-Livermore, CMU-Michigan, IAG-University of Sao Paulo, etc.

Invited talks (selection, >2002):

“Int. Conf. on Theoretical Physics (TH2002)”, Paris, July 22-27, 2002. “Nuclear Structure and Nuclear Reactions” (NSNR03), Dubna, Russia, September 2-6, 2003. “Microscopic Nuclear Structure Calculations”, Seattle, SUA, September 27 – October 3, 2004. Exotic Nuclei and Nuclear/Particle Astrophysics (I, II, III, IV)”, Mamaia, 2005, Sinaia, 2007, 2010, 2012. 3rd Joint Meeting of American Physical Society and Physical Society of Japan, October 13-17, 2009, Waikoloa, Hawaii, MEDEX, Praga-2013, MEDEX, Praga-2015. MANPP, Beijing-Aug. 2013. Int. Symp. on Phys. of Unstable Nuclei (ISPUN14), HoChiMinh-Vietnam-2014. 11th Int. Spring Conf. on Nucl. Phys., Ischia-May 2014. Int. Conf. on Topics in Astroparticle and Underground Phys. (TAUP2014), Torino-Sept. 2015.

Invited seminars (selection):

JINR-Dubna (1990); Institute of Physics, Univ. M. Curie-Sklodowska, Poland (1991, 1992); LEGNARO, Padova, Italy (1991); I. P. N., Orsay, France, (1992); CEA, Saclay, Div. Phys. Theorique (1992); C.E.A., Centre d'Etudes Bruyeres le Chatel, France (1992); C.R.N., IN2P3, Bordeaux, France (1993); Max-Planck-Institut, Heidelberg, Germany, (1993, 1994, 1995, 1998, 1999, 2000); GSI-Darmstadt (Germany) (1994); ECT*, Trento, Italy (dec. 1992); Nucl. Research Center, Osaka and Tokyo Institute of Technology, Japan (1995); Observatoire de la Cote d'Azur, Nice (1996, 1998, 2000, 2001, 2002, 2003, 2016); Univ. Jyväskylä (1996); Institute of Astronomy and Geophysics, Univ. of Sao Paulo, Brasil (2000, 2004); Federal University of Rio de Janeiro, Brasil (2000); Univ. Iowa, SUA (2001, 2003); Centre de Physique des Particules, Marseille (2003); Cyclotron Institute, Univ. Texas A&M (2004), Lawrence Livermore National Laboratory, US, July 2006; LAL-Orsay-2012; CERN-Jan. 2013; Inst. of Phys, Hanoi-Nov. 2014.

Honours, awards, memberships

- Award of the Romanian Academy for physics, for the year 1996
- Founding member of Horia Hulubei Foundation (member of the Directorate Committee) (1997-present)
- Member of the LHCb collaboration
- Member of the DUNE collaboration (Deep Underground Neutrino Experiment), Fermilab, US
- Member associate of the SuperNEMO collaboration (a double beta decay international experiment)

Professional responsibilities during the time:

- Head of the Theoretical Physics Department of IFIN-HH (2001 - 2008)
- Romanian team leader in the LHCb experiment at CERN (2004 – 2009)
- Head of the Centre for Nuclear Physics and Related Domains (2008 - 2009)
- link person for Romania with ECT* Trento, Italy (1995 – 2009)
- *Member of the Scientific Council of IFIN-HH (2002 - 2007)*
- Member of Directorate Committee of IFIN-HH (2001 - 2009)
- Chair holder of the UNESCO chair on „ *Sustainable Development through Research and Education in Modern Physics*” (2010-present)
- Member of the LHCb collaboration Board - CERN, Geneva (2004-2009)
- Member of the Scientific Board of the International Basic Science Program of UNESCO (2015-present)
- Member of the DUNE collaboration Board – Fermilab, US (2015–present)
- Director of the International Centre for Advanced Training and Research in physics(UNESCO cat. II centre) (2016-present)

ANNEXES Publication lists

Sabin Stoica - List of publications

Publications in Peer-review journals

- Short-range correlation energy of the electron gas, Rev. Roum. Phys. **22** (1977) 489, M. Apostol, L. Ixaru, **S. Stoica** and N. Stanica.
- Inelastic diffraction scattering of alpha particles. Blair's phase rule, St. Cerc. Fiz. **32** (1980) 871, N. Grama and **S. Stoica**.
- Density excitation spectrum of the one-dimensional Fermi gas, Phys. Stat. Sol.(b) **103** (1981) 411, M. Apostol, A. Corciovei and **S. Stoica**.
- Upon the treatment of the interaction of one particle and a quadrupole vibrational core, Rev. Roum. Phys. **27** (1982) 897, A.A. Raduta, C. Sabac and **S. Stoica**.
- The influence of three quasiparticles on the yrast bands of the transitional odd-mass nuclei, Rev. Roum. Phys. **28** (1983) 211, A.A. Raduta and **S. Stoica**.
- The phenomenological description of the rotational spectra of ^{189;191;193}Pt, Rev. Roum. Phys. **28** (1983) 867, A.A. Raduta, **S. Stoica** and N. Sandulescu.
- The energy predicted by the Coherent State Model for near vibrational nuclei, Rev. Roum. Phys. **29** (1984) 55, A. Raduta, C. Sabac and **S. Stoica**.
- Two asymptotic expansion of the $d_{lm}^l(\theta)$ for high values of l , Rev. Roum. Phys. **29** (1984) 289, N. Grama and **S. Stoica**.
- Coupling of one and three quasiparticles to a collective core projected from quadrupole coherent states, Z. Phys. **A 327** (1987) 275, A.A. Raduta and **S. Stoica**.
- Group theoretical methods for the description of nuclear molecular excitations, St. Cerc. Fiz. **40** (1988) 693, **S. Stoica**.
- Nucleon-nucleon potentials, St. Cerc. Fiz. **40** (1988) 747, **S. Stoica**.
- Spectroscopic properties of medium and heavy nuclei, **S. Stoica** (teza de doctorat).
- The $2\nu\beta\beta$ decay rate within a higher-pnQRPA approach, Phys. Lett. **B 254** (1991) 7, A.A. Raduta, A. Faessler **S. Stoica** and W.A. Kaminski.
- The $2\nu\beta\beta$ decay rate within a boson expansion formalism, Nucl. Phys. **A534** (1991) 149, A.A. Raduta, A. Faessler and **S. Stoica**.
- Gamow-Teller matrix elements for $2\nu\beta\beta$ decay within a second-QRPA approach, Phys. Rev. **C 47** (1993) 897, **S. Stoica** and W.A. Kaminski.
- Double-beta decay rates within a second QRPA approach, Nuovo Cimento, **106** (1993) 723, **S. Stoica** and W.A. Kaminski.
- Half-lives for two-neutrino double-beta-decay transitions to first 2^+ excited states, Phys. Rev. **C 49** (1994) 2240, **S. Stoica**.
- Two neutrino double-beta decay half-lives of ⁹⁶Zr and ¹⁰⁰Mo to excited states of ⁹⁶Mo and ¹⁰⁰Ru,

- Phys. Lett. **B 350** (1995) 152, **S. Stoica**.
- Half-lives for double-beta decay transitions to excited states, Balkan Phys. Lett. **41** (1995) 175, **S. Stoica**
 - Higher-Order QRPA for Charge-Changing Processes, Rom. J. Phys. **41** (1996) 481, **S. Stoica** and I. Mihut.
 - Nuclear structure calculations of the two-neutrino double-beta decay transitions to excited states, Nucl. Phys. **A 602** (1996) 197, **S. Stoica** and I. Mihut.
 - K-shell photoionization of atomic boron, J. Phys. **B 30** (1997) L1, N.R. Badnell, D. Petrini and **S. Stoica**.
 - Inner-shell photoionization of boron isoelectronic series, Astronomy & Astrophysics **334** (1998) L26, **S. Stoica**, D. Petrini and F. Bely-Dubau.
 - An extended Lipkin-type model with residual proton-neutron interaction, Nucl. Phys. **A 620** (1997)16, **S. Stoica**, J. Suhonen and I. Mihut,.
 - Charge-changing transitions in an extended Lipkin-type model, Eur. Phys. J. **A 3** (1998) 319, **S. Stoica**, I. Mihut and J. Suhonen,.
 - H-Dibaryons and the Big-Bang chrisis, Phys. Rev. **D 59** (1999) 27303, J.de Freitas Pacheco, **S. Stoica**, F. Thevenin and J. Horvath.
 - Neutrinoless double-beta decay matrix elements within the second QRPA, Phys. Rev. **C 63** (2001) 05436, **S. Stoica** and H.V. Klapdor-Kleingrothaus.
 - Double-beta decay matrix elements for ^{76}Ge , Eur. Phys. J. **A 9** (2001)345., **S. Stoica** and H.V. Klapdor-Kleingrothaus.
 - Test of pnRPA method within an extended Lipkin model, Phys. Rev. **C 64** (2001) 017303, **S. Stoica**, I. Mihut and J. Suhonen.
 - Critical view on double-beta decay matrix elements within QRPA-based methods, Nucl. Phys. **A 694** (2001) 269, **S. Stoica** and H.V. Klapdor-Kleingrothaus.
 - Nuclear effects in bremsstrahlung neutrino production, Phys. Rev. **C 65**(2002) 022154, **S. Stoica** and J. Horvath.
 - Neutrino masses from double beta decay calculations, Rom. J. Phys. **47**(2002) 243, **S. Stoica** and V. Paun
 - Neutrino mass from double beta decay, Rom. J. Phys. **47** (2002) 497, **S. Stoica** and V. Paun.
 - Neutrino masses from double beta-decay, Rom. J. Phys. **48** (2003) 771, **S. Stoica** and H.V. Klapdor-Kleingrothaus.
 - Double beta decay, nuclear physics and neutrino mass, Rom. Rep. Phys. **55** (2003) 737, **S. Stoica**.
 - $\beta\beta^-$, $\beta^+\beta^+$, β^+/EC and EC/EC half-lives for Cd106 within a secondQRPA method, Eur. Phys. J., **17** (2003) 529, **S. Stoica** and H.V. Klapdor-Kleingrothaus.
 - Double beta decay process and neutrino mass, Yadernaia Fizica, Volume 67 (2004) C1, **S. Stoica**

- Nuclear effects on neutrino emissivities from NN bremsstrahlung, Phys. Rev. C **69** (2004) 068801, **S. Stoica**, V. Paun and A. Negoita.
- Nuclear double beta decay process and the neutrino mass, Mod. Phys. Lett. A **19** (2004) 165, **S. Stoica**.
- Ab-initio no-core Shell Model calculations, Eur. Phys. J. A **25** (2005) 475, J. P. Vary, ..., **S. Stoica**, J. Phys. G **37** 055109.
- No core shell model calculations for 48-Ca, J. Phys. G: Nucl. Part. Phys. **36**, 2009 085103 , J.P. Vary, S. Popescu, **S. Stoica**, P. Navratilov.
- No-Core shell model for A = 47 and A = 49, nucl-th/0612022, J.P. Vary, A.G. Negoita, **S. Stoica**, J. Phys. G **37** 055109 (2010) .
- Axion emissivities from neutron stars, Nucl. Phys. A **828**, 439 (2009), **S. Stoica**, B. Pastrav, J. E. Horvath and A. Allen.
- Shell model calculations of double-beta decay lifetimes of ^{48}Ca , Bull. Am. Phys. Soc. **Vol 50**, (10), GD.0002 (2009), **S. Stoica**, A. Neacsu and M. Horoi.
- Shell model analysis of neutrinoless double beta decay of Ca48, Phys. Rev. C **81**, 024321 (2010), M. Horoi and **S. Stoica**.
- Shell model calculations of double-beta decay lifetimes of ^{76}Ge and ^{82}Se , Bull. Am. Phys. Soc. **Vol 55**, (14), GD.0002 (2010), **S. Stoica**, A. Neacsu and M. Horoi.
- Fast, efficient calculations of the Two-Body Matrix Elements of the transition Operators for $0\nu\beta\beta$ Decay, A. Neacsu, **S. Stoica** and M. Horoi, Phys. Rev. C **86**, 067304 (2012).
- Short-range nuclear effects on axion emissivities by nucleon–nucleon bremsstrahlung, J. Phys. G **39**, 085102 (2012), **S. Stoica**, B. Pastrav and A.C. Scafes.
- New Calculations for Phase Space Factors Involved in Double Beta Decay, **S. Stoica** and M. Mirea, Phys. Rev. C **88**, 037303, (2013).
- Neutrino properties probed by lepton number violating processes at low and high energies, S. Stoica, Rom. J. Phys., 58, nos. 5-6, (2013).
- Neutrino properties probed by lepton number violating processes, **S. Stoica**, Open Journal of Microphysics, ISSN 2162-2450, DOI:10.4236. OJM vol. 3-4, (2013).
- Study of nuclear effects in the computation of the $0\nu\beta\beta$ decay matrix elements, A. Neacsu and **S. Stoica**, J. Phys. G: Nucl. Part. Phys. **41**, 015201 (2014).
- Shell model calculations for neutrinoless DBD through exchange of heavy neutrinos, A. Neacsu and S. Stoica, Rom. Rep. Phys., **59**, no. 2 (2014).
- Phase space calculations for β - β - decays to final excited 2+1 states, T. Pahomi, A. Neacsu, M. Mirea, **S. Stoica**, Rom. Rep. Phys., **59**, no.2 (2014).
- First forbidden β -decay rates for neutron-rich nickel isotopes in stellar matter, J. Un-Nabi and **S. Stoica**,

Astrophys. & Space Science, **349**, 843 (2014).

- Constraints on Heavy Neutrino and SUSY Parameters Derived from the Study of Neutrinoless Double Beta Decay, Andrei Neacsu and **Sabin Stoica**, Adv. High Energy Phys., Volume 2014 (2014), **Article ID 724315**.

- Constraints on Light Neutrino Parameters Derived from the Study of Neutrinoless Double Beta Decay, **Sabin Stoica** and Andrei Neacsu, Adv. High Energy Phys., Volume 2014 (2014), **Article ID 745082**.

- J. Un Nabi, N. Cakmak, S. Stoica and Z. Iftikhar, First forbidden transitions and stellar beta decay rates of Zn and Ge isotopes, Physica Scripta **90**, 115301 (2015).

- M. Mirea, T. Pahomi, S. Stoica, Values of the Phase Space Factors Involved in Double Beta Decay, Romanian Reports in Physics, **67**, nr. 3, 872 (2015).

Invited lectures and oral contributions at conferences.

- Higher-order QRPA calculations for the $2\nu\beta\beta$ decay rate,

S. Stoica, at Int. School "New Trends in Theoretical and Experimental Nuclear Physics", Predeal, 1991.

- Possible choice of a double-beta emitter (invited lecture), **S. Stoica**, at NEMO Workshop on "Double Beta Decay", Le Mont St. Odille (Strasbourg), 22-25 March, 1993.

- Nuclear structure calculations for double-beta decay (invited lecture),

S. Stoica at the NEMO Workshop on "Double Beta Decay", Le Mont St. Odille (Strasbourg), 22-25 March 1993.

- Nuclear aspects of double-beta decay (invited lecture), **S. Stoica**, Proceedings of the ASI-NATO Int. Summer School "Frontier Topics in Nuclear Physics", Predeal, 24 August - 4 September, 1993, eds. A. Sandulescu and W. Scheid, Pergamon, p 343.

- Nuclear structure calculations for charge-changing processes to excited state, **S. Stoica**,

Proceedings of the Conference "Nuclear shapes and nuclear structure phenomena at low energies", Antibes (France), 20-25 June, 1994, p. 92.

- Calculations for $2\nu\beta\beta$ transitions to the first 2^+ excited states (invited lecture), **S.**

Stoica, Balkan Physics Conference, Izmir (Turcia), September, 1994.

- Second-QRPA calculations for double-beta decay (invited lecture),

S. Stoica, Proceedings of the Workshop on "Double-beta Decay and Related Topics", World Scientific, 1994, Eds. H.V. Klapdor-Kleingrothaus and **S. Stoica**, p. 382.

- Nuclear structure calculations for double-beta decay to excited states (invited lecture),

S. Stoica, Proceedings of the IV Int. Symposium on WEIN, Osaka, June 12-16, 1995, Eds. H. Ejiri, T. Kishimoto and T. Sato, World Scientific, 1996, p. 265.

- Weak Interaction Processes and Applications in Astrophysics (invited lecture), **S. Stoica**, at the Workshop on " Abundances and chemical production of the elements", Goutelas

(France), 15-22 April, 1996.

- Higher QRPA calculations for charge-changing processes (invited lecture),
S. Stoica, at the Workshop "Annual meeting between astrophysicists and nuclear physicists", 2-4 December, 1996, ULB, Brussels (Belgium).
- Test of charge-changing processes in generalized Lipkin-type models, **S. Stoica**,
INPC98, Paris, August 24-28, 1998.
- Extended Lipkin-type models with Residual Proton-Neutron Interaction
(invited lecture), **S. Stoica**, Proc. of the Int. Summer School "Structure and
Stability of Nucleon and Nuclear Systems", World Scientific, 1999, p 456.
- Nuclear structure calculations for double beta decay, Proc. of the Int. Conf. "Advanced in Nuclear Physics",
World Scientific, 2000, p. 282, **S. Stoica** (invited lecture).
- Influence of the OPEP-type potential on bremsstrahlung neutrino production
in neutron stars, Conf. on Critical phenomena in compact objects, Santa Barbara,
August 3-7, 2000, **S. Stoica** and J. Horvath.
- Neutrino masses from double beta decay, Int. Conf. on Theor. Phys. (TH02), 22-27 iulie, 2002, Paris,
S. Stoica.
- Neutrino masses from double beta decay, Conferinta Nat. Conf. of Theor. Phys., Bucharest, 2002,
S. Stoica and V. Paun.
- Aspects of double beta decay, Nat. Conf. of Theor. Phys., 24-25 January, 2002, **S. Stoica** (invited lecture).
- New limits on neutrino masses from double beta decay, IDRANAP workshop,
2-6 September, 2002, Neptun, Romania, **S. Stoica** (invited lecture).
- Double beta decay and the neutrino mass, NSRT03, 2-6 Septembrie, Dubna,
Russia, **S. Stoica** (invited lecture).
- Nuclear structure calculations for double beta decay, Workshop on
Microscopic Nuclear Structure Theory, 27 September - 3 December, 2004, Seattle, USA,
S. Stoica (invited lecture).
- Recent results in neutrino physics, Exotic nuclei and nuclear/particle astrophysics, June 13-24, 2005, Mamaia,
Romania, **S. Stoica** (invited lecture).
- Double-beta decay process and derivation of neutrino mass, Exotic nuclei and nuclear/particle astrophysics,
August 20-30, 2005, Sinaia, Romania, **S. Stoica** (invited lecture)
- Recent results in double-beta decay, Gheorghe Titeica Int. Conf. Theor. Phys., Busteni, June 10-13, 2008, **S. Stoica**.
- Axion emission from neutron stars, Workshop on Nuclear Reactions with Exotic Nuclei for Astrophysics, June
23-27, Sinaia, 2008, B. Pastrav and **S. Stoica**.
- Nuclear structure calculations for double-beta decay of ^{48}Ca with Shell model,
Nat. Conf. Phys., September 10 - 13, 2008 - Magurele (Bucharest), Romania, A. Neacsu and

S. Stoica.

- Axion emission from neutron stars by NN bremsstrahlung processes, Nat. Conf. Phys., September 10-13, 2008, Magurele (Bucharest), Romania, B. Pastrav and **S. Stoica**
- RICH calibration with Λ , Physics at LHC, September 29 - October 4, 2008, Split, Croatia, B. Popovici and **S. Stoica**
- Introduction to double-beta decay, CSSP10, 20 June – 3 July, 2010, Sinaia, Romania, **S. Stoica**
- Neutrino properties deduced from LNV processes at low and high energies, CSSP12, 25 June – 7 July, Sinaia, Romania
- Search for LNV processes at low and high energies, Workshop on Double Beta Decay, 3-7 September, 2012, ECT*-Trento, Italy, **S. Stoica**
- Theoretical Overview on Double Beta Decay, NEMO3&SuperNEMO collaboration meeting, Prague, 18-21 March, 2013, **S. Stoica** (invited lecture).
- New calculations of the phase-space factors for double beta decay, MEDEX13, Prague, 11 – 14 June, 2013, **S. Stoica** (invited lecture).
- Shell model calculations for neutrinoless double beta decay, Ischia-Napoli, 12-16 May, 2014, **S. Stoica** (invited lecture). S. Stoica, appeared in J. Phys.: Conference series **vol. 580** (2015).
- **S. Stoica** and M. Mirea, Values of the phase space factors for double beta decay, WORKSHOP ON CALCULATION OF DOUBLE-BETA-DECAY MATRIX ELEMENTS (MEDEX'15), Prague, 9-12 June. 2015.
- **S. Stoica**, Theoretical aspects of double beta decay, XIV International Conference on Topics in Astroparticles and Underground Physics (TAUP15), Torino, 7-11 September, 2015.

Articles in Books

- Half lives for two neutrino double beta decay transitions to excited states, **S. Stoica** in Sixty Years of Double Beta Decay, author H.V. Klapdor-Kleingrothaus, World Scientific, 2001.
- Two neutrino double beta decay half-lives of Zr^{96} and Mo^{100} to excited states of Mo^{96} and Ru^{100} , **S. Stoica** in Sixty Years of Double Beta Decay, author H.V. Klapdor-Kleingrothaus, World Scientific, 2001.
- Nuclear structure calculations for double beta decay, **S. Stoica** and I. Mihut, in Sixty Years of Double Beta Decay, author H.V. Klapdor-Kleingrothaus, World Scientific, 2001.

Proceedings

- Proceedings of the Workshop on "Double-Beta Decay and Related Topics", Trento (Italy), April 24-May 5, 1995, Eds. H.V. Klapdor-Kleingrothaus and **S. Stoica**.
- Proceedings of the Int. Summer School "Structure and Stability of Nucleon and Nuclear Systems", August 24 - September 5, Predeal, 1998, Eds. A.A.

Raduta, **S. Stoica** and I.I. Ursu, World Scientific, 1999.

- Proceedings of the Internat. Symposium "Advances in Nuclear Physics", Bucharest, December 9 - 10, 1999, Eds. D.N. Poenaru and **S. Stoica**, World Scientific, 2000.
- Proceedings of the Carpathian Summer School " Exotic Nuclei and Nuclear/Particle Astrophysics", June 13-24, 2005, Mamaia, Romania, Eds. **S. Stoica**, L. Trache and R.E. Tribble, World Scientific, 2006.
- Proceedings of the Carpathian Summer School " Exotic Nuclei and Nuclear/Particle Astrophysics", August 20-30, 2007, Sinaia, Romania, Eds. L. Trache and **S. Stoica**, American Institute of Physics (AIP), 2008.
- Proceedings of the Carpathian Summer School " Exotic Nuclei and Nuclear/Particle Astrophysics", 20 June – 3 July, 2010, Sinaia, Romania, Eds. L. Trache, **S. Stoica**, A.Yu. Smirnov, AIP, 2010.

Publications within LAGUNA collaboration

- The mass-hierarchy and CP-violation discovery reach of the LBNO long-baseline neutrino experiment
By: Agarwalla, S. K.; Agostino, L.; Aittola, M.; et al.
Group Author(s): LAGUNA-LBNO Collaboration
JOURNAL OF HIGH ENERGY PHYSICS Issue: 5 Article Number: 094 Published: MAY 21 2014
- PRELIMINARY RESULTS OF NEUTRINO INTERACTIONS STUDY USING GENIE EVENT GENERATOR
By: Chesneanu, D.; Jipa, A.; Lazanu, I.; et al.
ROMANIAN REPORTS IN PHYSICS Volume: 64 Issue: 3 Pages: 695-701 Published: 2012
- ABOUT THE POSSIBILITY TO MEASURE SOME STANDARD MODEL PARAMETERS AND SEARCH FOR NEW PHYSICS WITH LOW ENERGY NEUTRINOS
By: Lazanu, I.; Apostu, A.; Brancus, I.; et al.
ROMANIAN REPORTS IN PHYSICS Volume: 64 Issue: 1 Pages: 24-32 Published: 2012
- A mobile detector for measurements of the atmospheric muon flux in underground sites
..., S Stoica, ...
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 654 Issue: 1 Pages: 176-183 Published: OCT 21 2011
- STABILITY STUDY FOR A LARGE CAVERN IN SALT ROCK FROM SLANIC PRAHOVA
..., S Stoica, ...
Conference: Cracow Epiphany Conference on Physics in Underground Laboratories and Its Connection with LHC Location: Cracow, POLAND Date: JAN 05-08, 2010
ACTA PHYSICA POLONICA B Volume: 41 Issue: 7 Pages: 1789-1802 Published: JUL 2010
- Estimation of m.w.e (meter water equivalent) depth of the salt mine of Slanic Prahova, Romania
..., S. Stoica, ..., Carpathian Summer School of Physics Conference, Sinaia, ROMANIA Date: JUN 20-JUL 3, AIP Conference Proceedings Volume: 1304, p331 (2010), Eds. Trache, L; Stoica, S; Smirnov, A

Publications within LHCb collaboration (2013-2015)

1. A study of the Z production cross-section in pp collisions at $\sqrt{s} = 7$ TeV using tau final states, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1301 (2013) (citari: 35)
2. Amplitude analysis and the branching fraction measurement of $\bar{B}^0_s \rightarrow J/\psi K^+ K^-$, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D87 (2013) (citari: 36)
3. Branching fraction and CP asymmetry of the decays $B^{*+} \rightarrow K_{\text{S}}^0 \pi^+$ and $B^{*+} \rightarrow K_{\text{S}}^0 K^+$, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B726 (2013) (citari: 4)
4. Determination of the X(3872) meson quantum numbers, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 110 (2013) (citari: 192)
5. Differential branching fraction and angular analysis of the $B^{*+} \rightarrow K^{*+} \mu^+ \mu^-$ decay, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1302 (2013) (citari: 60)
6. Differential branching fraction and angular analysis of the decay $B^0 \rightarrow K^{*0} \mu^+ \mu^-$, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1308 (2013) (citari: 133)
7. Differential branching fraction and angular analysis of the decay $B_s^0 \rightarrow \phi \mu^+ \mu^-$, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1307 (2013) (citari: 54)
8. Evidence for the decay $B^0 \rightarrow J/\psi \omega$ and measurement of the relative branching fractions of B^0_s meson decays to $J/\psi \eta$ and $J/\psi \eta'$, LHCb Collaboration, ..., S. Stoica, ... , NUCL PHYS B B867 (2013) (citari: 29)
9. Exclusive J/ψ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV, LHCb Collaboration, ..., S. Stoica, ... , J PHYS G NUCL PARTIC G40 (2013) (citari: 72)
10. First Evidence for the Decay $B_s^0 \rightarrow \mu^+ \mu^-$, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 110 (2013) (citari: 363)
11. First evidence for the annihilation decay mode $B^{*+} \rightarrow D_{s1}^+ \phi$, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1302 (2013) (citari: 10)
12. First evidence for the two-body charmless baryonic decay $B^0 \rightarrow p \bar{p}$, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1310 (2013) (citari: 6)
13. First measurement of the CP-violating phase in $B_s^0 \rightarrow \phi \phi$ decays, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 110 (2013) (citari: 34)
14. First measurement of time-dependent CP violation in $B^0_s \rightarrow K^+ K^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1310 (2013) (citari: 33)
15. First observation of CP violation in the decays of B^0_s mesons, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 110 (2013) (citari: 90)
16. First observation of $\bar{B}^0 \rightarrow J/\psi K^+ K^-$ and search for $\bar{B}^0 \rightarrow J/\psi \phi$ decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D88 (2013) (citari: 20)
17. First observation of the decay $B_s^0 \rightarrow \phi \bar{K}^{*0}$, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1311 (2013) (citari: 11)
18. First observation of the decay $B_{c1}^+ \rightarrow J/\psi K^+$, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1309 (2013) (citari: 31)
19. First observation of the decay $B_{s2}^{*+} \rightarrow B^{*+} K^-$ and studies of excited B^0_s mesons, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 110 (2013) (citari: 18)
20. First observations of $\bar{B}^0_s \rightarrow D^+ D^-$, $D_s^+ D^-$ and $D^0 \bar{D}^0$ decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D87 (2013) (citari: 18)
21. Implications of LHCb measurements and future prospects, LHCb Collaboration, ..., S. Stoica, ... , EUR PHYS J C C73 (2013) (citari: 165)
22. Limits on neutral Higgs boson production in the forward region in pp collisions at $\sqrt{s} = 7$ TeV, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1305 (2013) (citari: 21)
23. Measurement of J/ψ polarization in pp collisions at $\sqrt{s} = 7$ TeV, LHCb Collaboration, ..., S. Stoica, ... , EUR PHYS J C C73 (2013) (citari: 63)
24. Measurement of J/ψ production in pp collisions at $\sqrt{s} = 2.76$ TeV, LHCb Collaboration, ..., S.

- Stoica, ... , JHEP 1302 (2013) (citari: 41)
25. Measurement of B meson production cross-sections in proton-proton collisions at $\sqrt{s} = 7$ TeV, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1308 (2013) (citari: 32)
 26. Measurement of CP observables in $B^0 \rightarrow D K^{*0}$ with $D \rightarrow K^+ K^-$, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1303 (2013) (citari: 14)
 27. Measurement of CP violation in the phase space of $B^{\pm} \rightarrow K^{\pm} \pi^+ \pi^-$ and $B^{\pm} \rightarrow K^{\pm} K^+ K^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 111 (2013) (citari: 67)
 28. Measurement of Form-Factor-Independent Observables in the Decay $B^0 \rightarrow K^{*0} \mu^+ \mu^-$, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 111 (2013) (citari: 198)
 29. Measurement of the $B^0 \rightarrow K^{*0} e^+ e^-$ branching fraction at low dilepton mass, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1305 (2013) (citari: 25)
 30. Measurement of the $B^0 \rightarrow \bar{B}^0$ oscillation frequency Δm_d with the decays $B^0 \rightarrow D^+ \pi^-$ and $B^0 \rightarrow J/\psi K^{*0}$, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B719 (2013) (citari: 28)
 31. Measurement of the $B^0 \rightarrow \mu^+ \mu^-$ branching fraction and search for $B^0 \rightarrow \mu^+ \mu^-$ decays at the LHCb experiment, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 111 (2013) (citari: 258)
 32. Measurement of the CP asymmetry in $B^+ \rightarrow K^+ \mu^+ \mu^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 111 (2013) (citari: 11)
 33. Measurement of the CP asymmetry in $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 110 (2013) (citari: 36)
 34. Measurement of the Λ_b^0 , Ξ_b^- and Ω_b^- baryon masses, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 110 (2013) (citari: 43)
 35. Measurement of the CKM angle γ from a combination of $B^{\pm} \rightarrow D h^{\pm}$ analyses, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B726 (2013) (citari: 46)
 36. Measurement of the D^{\pm} production asymmetry in 7 TeV pp collisions, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B718 (2013) (citari: 29)
 37. Measurement of the cross-section for $Z \rightarrow e^+ e^-$ production in pp collisions at $\sqrt{s} = 7$ TeV, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1302 (2013) (citari: 69)
 38. Measurement of the differential branching fraction of the decay $\Lambda_b^0 \rightarrow \Lambda \mu^+ \mu^-$, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B725 (2013) (citari: 25)
 39. Measurement of the effective $B_{s^0} \rightarrow J/\psi K_S^0$ lifetime, LHCb Collaboration, ..., S. Stoica, ... , NUCL PHYS B B873 (2013) (citari: 21)
 40. Measurement of the forward energy flow in pp collisions at $\sqrt{s} = 7$ TeV, LHCb Collaboration, ..., S. Stoica, ... , EUR PHYS J C C73 (2013) (citari: 13)
 41. Measurement of the fragmentation fraction ratio f_s/f_d and its dependence on B meson kinematics, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1304 (2013) (citari: 90)
 42. Measurement of the polarization amplitudes in $B^0 \rightarrow J/\psi K^{*0} (892)^0$ decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D88 (2013) (citari: 12)
 43. Measurement of the ratio of branching fractions $BR(B^0 \rightarrow K^{*0} \gamma)/BR(B_s^0 \rightarrow \phi \gamma)$ and the direct CP asymmetry in $B^0 \rightarrow K^{*0} \gamma$, LHCb Collaboration, ..., S. Stoica, ... , NUCL PHYS B B867 (2013) (citari: 32)
 44. Measurement of the relative rate of prompt χ_{c0} , χ_{c1} and χ_{c2} production at $\sqrt{s} = 7$ TeV, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1310 (2013) (citari: 32)
 45. Measurement of the time-dependent CP asymmetry in $B^0 \rightarrow J/\psi K^0_{\text{rm S}}$ decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B721 (2013) (citari: 26)
 46. Measurements of the $\Lambda_b^0 \rightarrow J/\psi \Lambda$ decay amplitudes and the Λ_b^0 polarisation in pp collisions at $\sqrt{s} = 7$ TeV, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B724 (2013) (citari: 31)
 47. Measurements of the branching fractions of $B^{\pm} \rightarrow p \bar{p} K^{\pm}$ decays, LHCb Collaboration, ..., S. Stoica, ... , EUR PHYS J C C73 (2013) (citari: 18)
 48. Model-independent search for CP violation in $D^0 \rightarrow K^{\pm} K^{\mp} \pi^{\pm} \pi^{\mp}$ and $D^0 \rightarrow \pi^{\pm} \pi^{\mp} \pi^{\pm} \pi^{\mp}$ decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B726 (2013)

(citari: 25)

49. Observation of $B^+ \rightarrow J/\psi D_s^+$ and $B^+ \rightarrow J/\psi D_s^{*+}$ decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D87 (2013) (citari: 50)
50. Observation of $B^0 \rightarrow \bar{B}^0$ mixing and measurement of mixing frequencies using semileptonic B decays, LHCb Collaboration, ..., S. Stoica, ... , EUR PHYS J C C73 (2013) (citari: 14)
51. Observation of $B^0 \rightarrow \chi_{c1} \phi$ decay and study of $B^0 \rightarrow \chi_{c1,2} K^{*0}$ decays, LHCb Collaboration, ..., S. Stoica, ... , NUCL PHYS B B874 (2013) (citari: 10)
52. Observation of $D^0 - \overline{D}^0$ oscillations, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 110 (2013) (citari: 85)
53. Observation of a resonance in $B^+ \rightarrow K^+ \mu^+ \mu^-$ decays at low recoil, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 111 (2013) (citari: 44)
54. Observation of the decay $B_c \rightarrow J/\psi K^+ K^- \pi^+$, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1311 (2013) (citari: 21)
55. Observation of the decay $B_c^+ \rightarrow \psi(2S) \pi^+$, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D87 (2013) (citari: 37)
56. Observation of the decay $B_s^0 \rightarrow \bar{D}^0 \phi$, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B727 (2013) (citari: 6)
57. Observation of the suppressed ADS modes $B^{\pm} \rightarrow [\pi^{\pm} K^{\mp} \pi^{\pm} \pi^{\mp}]_D K^{\pm}$ and $B^{\pm} \rightarrow [\pi^{\pm} K^{\mp} \pi^{\pm} \pi^{\mp}]_D \pi^{\pm}$, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B723 (2013) (citari: 33)
58. Observations of $B^0 \rightarrow \psi(2S) \eta$ and $B^0 \rightarrow (s) \rightarrow \psi(2S) \pi^+ \pi^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , NUCL PHYS B B871 (2013) (citari: 9)
59. Precision measurement of D meson mass differences, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1306 (2013) (citari: 32)
60. Precision measurement of the $B^0 \rightarrow \bar{B}^0$ oscillation frequency with the decay $B^0 \rightarrow D^{\pm} \pi^{\mp}$, LHCb Collaboration, ..., S. Stoica, ... , New J.Phys. 15 (2013) (citari: 74)
61. Precision measurement of the Λ_b^0 baryon lifetime, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 111 (2013) (citari: 46)
62. Production of J/ψ and Υ mesons in pp collisions at $\sqrt{s} = 8$ TeV, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1306 (2013) (citari: 64)
63. Prompt charm production in pp collisions at $\sqrt{s}=7$ TeV, LHCb Collaboration, ..., S. Stoica, ... , NUCL PHYS B B871 (2013) (citari: 100)
64. Search for CP violation in $D^+ \rightarrow \phi \pi^+$ and $D_s^+ \rightarrow K^0_S \pi^+$ decays, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1306 (2013) (citari: 23)
65. Search for $D^+(s) \rightarrow \pi^+ \mu^+ \mu^-$ and $D^+(s) \rightarrow \pi^- \mu^+ \mu^+$ decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B724 (2013) (citari: 35)
66. Search for direct CP violation in $D^0 \rightarrow h^- h^+$ modes using semileptonic B decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B723 (2013) (citari: 66)
67. Search for rare $B^0 \rightarrow (s) \rightarrow \mu^+ \mu^- \mu^+ \mu^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 110 (2013) (citari: 11)
68. Search for the decay $B_s^0 \rightarrow D^{* \mp} \pi^{\pm}$, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D87 (2013) (citari: 8)
69. Search for the doubly charmed baryon Ξ_{cc}^+ , LHCb Collaboration, ..., S. Stoica, ... , JHEP 1312 (2013) (citari: 21)
70. Search for the lepton-flavor violating decays $B^0 \rightarrow e^{\pm} \mu^{\mp}$ and $B^0 \rightarrow e^{\pm} \mu^{\mp}$, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 111 (2013) (citari: 19)
71. Search for the rare decay $D^0 \rightarrow \mu^+ \mu^-$, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B725 (2013) (citari: 34)
72. Search for the rare decay $K_S \rightarrow \mu^+ \mu^-$, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1301 (2013) (citari: 20)
73. Searches for $B^0 \rightarrow (s) \rightarrow J/\psi p \bar{p}$ and $B^+ \rightarrow J/\psi p \bar{p} \pi^+$ decays, LHCb

Collaboration, ..., S. Stoica, ... , JHEP 1309 (2013) (citari: 5)

74. Searches for violation of lepton flavour and baryon number in tau lepton decays at LHCb, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B724 (2013) (citari: 41)

75. Studies of the decays $B^+ \rightarrow p \bar{p} h^+$ and observation of $B^+ \rightarrow \bar{\Lambda}(1520)p$, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D88 (2013) (citari: 16)

76. Study of $B_{(s)}^0 \rightarrow K_{(s)}^0 h^+ h^{\prime -}$ decays with first observation of $B_{(s)}^0 \rightarrow K_{(s)}^0 K^{\pm} \pi^{\mp}$ and $B_{(s)}^0 \rightarrow K_{(s)}^0 \pi^+ \pi^-$, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1310 (2013) (citari: 20)

77. Study of D_J meson decays to $D^+ \pi^-$, $D^0 \pi^+$ and $D^{*+} \pi^-$ final states in pp collision, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1309 (2013) (citari: 39)

78. A study of CP violation in $B^{\pm} \rightarrow DK^{\pm}$ and $B^{\pm} \rightarrow D \pi^{\pm}$ decays with $D \rightarrow K_S^0 K^{\pm} \pi^{\mp}$ final states, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B733 (2014) (citari: 17)

79. Angular analysis of charged and neutral $B \rightarrow K \mu^+ \mu^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1405 (2014) (citari: 20)

80. Dalitz plot analysis of $B_{(s)}^0 \rightarrow \bar{D}^0 K^{\pm} \pi^{\pm}$ decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D90 (2014) (citari: 38)

81. Differential branching fractions and isospin asymmetries of $B \rightarrow K^{(*)} \mu^+ \mu^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1406 (2014) (citari: 67)

82. Evidence for CP Violation in $B^+ \rightarrow p \bar{p} K^+$ Decays, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 113 (2014) (citari: 16)

83. Evidence for the decay $B_c^+ \rightarrow J/\psi 3\pi^+ 2\pi^-$, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1405 (2014) (citari: 16)

84. Evidence for the decay $X(3872) \rightarrow \psi(2S)\gamma$, LHCb Collaboration, ..., S. Stoica, ... , NUCL PHYS B B886 (2014) (citari: 44)

85. First measurement of the charge asymmetry in beauty-quark pair production, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 113 (2014) (citari: 15)

86. First observation of a baryonic B_c^+ decay, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 113 (2014) (citari: 9)

87. First observations of the rare decays $B^+ \rightarrow K^+ \pi^+ \pi^- \mu^+ \mu^-$ and $B^+ \rightarrow \phi K^+ \mu^+ \mu^-$, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1410 (2014) (citari: 2)

88. Measurement of \mathcal{CP} asymmetry in $D^0 \rightarrow K^{\pm} K^{\mp}$ and $D^0 \rightarrow \pi^{\pm} \pi^{\mp}$ decays, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1407 (2014) (citari: 48)

89. Measurement of \mathcal{CP} violation and constraints on the CKM angle γ in $B^{\pm} \rightarrow D K^{\pm}$ with $D \rightarrow K_S^0 \pi^+ \pi^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , NUCL PHYS B B888 (2014) (citari: 15)

90. Measurement of $\mathcal{C}\mathcal{P}$ asymmetries in the decays $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ and $B^+ \rightarrow K^{*+} \mu^+ \mu^-$, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1409 (2014) (citari: 14)

91. Measurement of Υ production in pp collisions at $\sqrt{s}=2.76$ TeV, LHCb Collaboration, ..., S. Stoica, ... , EUR PHYS J C C74 (2014) (citari: 21)

92. Measurement of $\psi(2S)$ polarisation in pp collisions at $\sqrt{s}=7$ TeV, LHCb Collaboration, ..., S. Stoica, ... , EUR PHYS J C C74 (2014) (citari: 19)

93. Measurement of CP asymmetry in $B_{(s)}^0 \rightarrow D^{\pm} K^{\pm}$ decays, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1411 (2014) (citari: 22)

94. Measurement of CP violation in $B_{(s)}^0 \rightarrow \phi \pi$ decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D90 (2014) (citari: 16)

95. Measurement of CP violation in the phase space of $B^{\pm} \rightarrow K^{\pm} K^{\mp} \pi^{\pm}$ and $B^{\pm} \rightarrow \pi^{\pm} \pi^{\mp} \pi^{\pm}$ decays, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 112 (2014) (citari: 47)

96. Measurement of CP violation parameters in $B^0 \rightarrow DK^{*0}$ decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D90 (2014) (citari: 19)

97. Measurement of charged particle multiplicities and densities in pp collisions at $\sqrt{s}=7$ TeV in the forward region, LHCb Collaboration, ..., S. Stoica, ... , EUR PHYS J C C74 (2014) (citari: 12)

98. Measurement of polarization amplitudes and CP asymmetries in $B^0 \rightarrow \psi K^{*(892)0}$, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1405 (2014) (citari: 20)
99. Measurement of resonant and CP components in $\bar{B}_s^0 \rightarrow J/\psi \pi^+ \pi^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D89 (2014) (citari: 37)
100. Measurement of the B_c^+ meson lifetime using $B_c^+ \rightarrow J/\psi \mu^+ \nu_{\mu}$ X decays, LHCb Collaboration, ..., S. Stoica, ... , EUR PHYS J C C74 (2014) (citari: 28)
101. Measurement of the CP-violating phase ϕ_s in $\bar{B}^0 \rightarrow D_s^+ D_s^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 113 (2014) (citari: 11)
102. Measurement of the Ξ_b^- and Ω_b^- baryon lifetimes, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B736 (2014) (citari: 14)
103. Measurement of the \bar{B}_s^0 meson lifetime in $D_s^+ \pi^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 113 (2014) (citari: 10)
104. Measurement of the \bar{B}^0 and \bar{B}_s^0 production asymmetries in pp collisions at $\sqrt{s} = 7$ TeV, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B739 (2014) (cit.13)
105. Measurement of the $\bar{B}_s^0 \rightarrow D_s^- D_s^+$ and $\bar{B}_s^0 \rightarrow D^- D_s^+$ effective lifetimes, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 112 (2014) (citari: 15)
106. Measurement of the $\chi_{b(3P)}$ mass and of the relative rate of $\chi_{b1}(1P)$ and $\chi_{b2}(1P)$ production, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1410 (2014) (citari: 14)
107. Measurement of the CKM angle γ using $B^{\pm} \rightarrow D K^{\pm}$ with $D \rightarrow K^0_{\text{rm}} S \pi^+ \pi^-$, $K^0_{\text{rm}} S K^+ K^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1410 (2014) (citari: 20)
108. Measurement of the CP-violating phase ϕ_s in $\overline{B}^0_s \rightarrow J/\psi \pi^+ \pi^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B736 (2014) (citari: 29)
109. Measurement of the charge asymmetry in $B^{\pm} \rightarrow \psi K^{\pm}$ and search for $B^{\pm} \rightarrow \psi \pi^{\pm}$ decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B728 (2014) (citari: 10)
110. Measurement of the flavour-specific CP-violating asymmetry a_{sl}^s in B_s^0 decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B728 (2014) (citari: 50)
111. Measurement of the forward W boson cross-section in pp collisions at $\sqrt{s} = 7$ TeV, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1412 (2014) (citari: 25)
112. Measurement of the ratio of B_c^+ branching fractions to $J/\psi \pi^+$ and $J/\psi \mu^+ \nu_{\mu}$, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D90 (2014) (citari: 9)
113. Measurement of the resonant and CP components in $\overline{B}^0 \rightarrow J/\psi \pi^+ \pi^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D90 (2014) (citari: 42)
114. Measurements of CP violation in the three-body phase space of charmless $B^{\pm} \rightarrow \psi$ decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D90 (2014) (citari: 24)
115. Measurements of indirect CP asymmetries in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \pi^+ \pi^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 112 (2014) (citari: 40)
116. Measurements of the B^+ , B^0 , B_s^0 meson and Λ_b^0 baryon lifetimes, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1404 (2014) (citari: 41)
117. Observation of $B_s^0 \rightarrow K^{*\pm} K^{\mp}$ and evidence for $B_s^0 \rightarrow K^{*-} \pi^+$ decays, LHCb Collaboration, ..., S. Stoica, ... , New J.Phys. 16 (2014) (citari: 7)
118. Observation of Z production in proton-lead collisions at LHCb, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1409 (2014) (citari: 18)
119. Observation of $\bar{B}_{(s)} \rightarrow J/\psi f_1(1285)$ Decays and Measurement of the $f_1(1285)$ Mixing Angle, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 112 (2014) (citari: 13)
120. Observation of associated production of a Z boson with a D meson in the forward region, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1404 (2014) (citari: 13)
121. Observation of charmonium pairs produced exclusively in pp collisions, LHCb Collaboration, ..., S. Stoica, ... , J PHYS G NUCL PARTIC G41 (2014) (citari: 11)
122. Observation of overlapping spin-1 and spin-3 $\bar{D}^0 K^-$ resonances at mass $2.86 \text{ GeV}/c^2$, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 113 (2014) (citari: 34)
123. Observation of the $B_s^0 \rightarrow J/\psi K_s^0 K^{\pm} \pi^{\mp}$ decay, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1407 (2014) (citari: 4)

124. Observation of the $\Lambda_b^0 \rightarrow J/\psi p \pi^0$ decay, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1407 (2014) (citari: 15)
125. Observation of the resonant character of the $Z(4430)^-$ state, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 112 (2014) (citari: 137)
126. Precision Measurement of the Mass and Lifetime of the Ξ_b^- Baryon, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 113 (2014) (citari: 14)
127. Precision luminosity measurements at LHCb, LHCb Collaboration, ..., S. Stoica, ... , JINST 9 (2014) (citari: 29)
128. Precision measurement of the mass and lifetime of the Ξ_b^0 baryon, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 113 (2014) (citari: 18)
129. Precision measurement of the ratio of the Λ_b^0 to \overline{B}^0 lifetimes, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B734 (2014) (citari: 37)
130. Search for CP violation using T -odd correlations in $D^0 \rightarrow K^+ K^- \pi^+ \pi^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1410 (2014) (citari: 18)
131. Search for CP violation in $D^{\pm} \rightarrow K^0_{\text{S}} K^{\pm}$ and $D^{\pm} \rightarrow K^0_{\text{S}} \pi^{\pm}$ decays, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1410 (2014) (citari: 10)
132. Search for CP violation in the decay $D^+ \rightarrow \pi^+ \pi^+ \pi^0$, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B728 (2014) (citari: 17)
133. Search for Majorana neutrinos in $B^- \rightarrow \pi^+ \mu^- \mu^-$ decays, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 112 (2014) (citari: 33)
134. Search for the decay $D^0 \rightarrow \pi^+ \pi^- \mu^+ \mu^-$, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B728 (2014) (citari: 11)
135. Searches for Λ_b^0 and Ξ_b^0 decays to $K^0_{\text{S}} p \pi^-$ and $K^0_{\text{S}} p K^-$ final states with first observation of the $\Lambda_b^0 \rightarrow K^0_{\text{S}} p \pi^-$ decay, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1404 (2014) (citari: 13)
136. Studies of beauty baryon decays to $D^0 p h^-$ and $\Lambda_c^+ h^-$ final states, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D89 (2014) (citari: 24)
137. Study of J/ψ production and cold nuclear matter effects in PbPb collisions at $\sqrt{s_{\text{NN}}} = 5$ TeV, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1402 (2014) (citari: 70)
138. Study of Υ production and cold nuclear matter effects in PbPb collisions at $\sqrt{s_{\text{NN}}} = 5$ TeV, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1407 (2014) (citari: 24)
139. Study of χ_{b} meson production in pp collisions at $\sqrt{s} = 7$ and 8 TeV and observation of the decay $\chi_{\text{b}} \rightarrow \Upsilon \gamma$, LHCb Collaboration, ..., S. Stoica, ... , EUR PHYS J C C74 (2014) (citari: 16)
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141. Study of forward Z + jet production in pp collisions at $\sqrt{s} = 7$ TeV, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1401 (2014) (citari: 28)
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