

## 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 <sup>189;191;193</sup>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  $d_{mn}^l(\theta)$  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 <sup>96</sup>Zr and <sup>100</sup>Mo to excited states of <sup>96</sup>Mo and <sup>100</sup>Ru, 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  $^{76}\text{Ge}$ , 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**.
  - $\beta\beta^-$ ,  $\beta^+\beta^+$ ,  $\beta^+/\text{EC}$  and  $\text{EC}/\text{EC}$  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  $^{48}\text{Ca}$ , 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  $^{76}\text{Ge}$  and  $^{82}\text{Se}$ ,

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  $\beta$ -  $\beta$ - decays to final excited 2+1 states, T. Pahomi, A. Neacsu, M. Mirea, **S. Stoica**, Rom. Rep. Phys., **59**, no.2 (2014).
- First forbidden  $\beta$ -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).
- **S. Stoica**, M. Mirea, O. Nutescu, J. Un Nabi and Z. Iftikhar, New phase space calculations for beta decay half-lives, AHEP **2016**, ID8729893 (2016).
- **S. Stoica**, Computation of products of phase space factors and nuclear matrix elements for the Double Beta Decay, Chinese Phys. C **43**, 064108 (2019) .

- **S. Stoica**, Double-beta decay and its potential to explore beyond SM physics, *Int. J. Mod. Phys.* **33**, 1845012 (2018).
- J. -U. Nabi, M. Ishfaq, O. Nutescu, M. Mirea, **S. Stoica**, *Adv. High Energy Phys.* 2019, ID:5783618.
- M. Mirea and **S. Stoica** Phase space factors for Double-beta decay, *Frontiers in Physics* **7**, 12 (2019).
- Jameel-Un Nabi, Mavra Ishfaq, Ovidiu Nițescu, Mihail Mirea and **Sabin Stoica**,  $\beta^-$ -Decay Half-Lives of Even-Even Nuclei Using the Recently Introduced Phase Space Recipe, *Universe* **2020**, 6(1), 5; <https://doi.org/10.3390/universe6010005>
- O. Nutescu, St. Ghinescu and **S. Stoica**, Lorentz violation effects in two-neutrino double-beta decay, *J. Phys. G* **47**, 055112 (2020), (SS corresponding author).
- O.V. Nutescu, S.A. Ghinescu and **S. Stoica** Probing Lorentz violation in  $2\nu\beta\beta$  decay using single electron spectra and angular correlations, *Phys. Rev. D* **103**, L031701 (2021), (SS corresponding author).
- O Nițescu, R Dvornický, **S Stoica**, F Šimkovic, Angular Distributions of Emitted Electrons in  $2\nu\beta\beta$  decay, *Universe* **7**, 147 (2021)
- A. Neacsu, V.A. Sevestrean and **S. Stoica**, Brief Review of the Results Regarding the Possible Underlying Mechanisms Driving the  $0\nu\beta\beta$  DBD, *Front. Phys.*, 2021, <https://doi.org/10.3389/fphy.2021.666591>.
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- S. A. Ghinescu, O. Nițescu, **S. Stoica**, Investigation of the Lorentz invariance violation in twoneutrino double-beta decay, *Phys. Rev. D* **105** 055032, 2022.
- A. Addazi, ..., **S. Stoica**, ... et al, Quantum gravity phenomenology at the dawn of the multi-messenger era—A review, *Progress in Particle and Nuclear Physics* 125 (103948), 2022.
- M. Horoi, A. Neacșu, **S. Stoica**, Statistical analysis for the neutrinoless double- $\beta$ -decay matrix element of Ca 48, *Phys. Rev. C* **106** (054302) 2022.

#### **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, 2003, 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  $^{48}\text{Ca}$  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  $\Lambda$ , 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; TAUP, Valencia, 2022.
- **S. Stoica**, Theoretical challenges in DBD, Obs. De la Cote d'Azur, Nice, June, 2016, Nice, France.
- **S. Stoica**, Theoretical challenges in neutrinoless double-beta decay, I. Nucl. Phys. Conf. Adelaide, Australia, September 12-16, 2016.
- **S. Stoica**, New Calculations for DBD, MEDEX, Prague (editions:2013,2015,2017,2022).
- **S. Stoica**, Challenges in double-beta decay, Havana, Cuba, October 23 – 27, 2017.
- **S. Stoica**, Double Beta Decay and its potential to investigate BSM physics, TESNAT, Antalya, Turkey, April 20 -23, 2018.
- **S. Stoica**, Double-beta decay and its potential to explore beyond SM physics, BW2018, Nis, Serbia, June 10-14, 2018.
- **S. Stoica**, Neutrino properties deduced from the neutrinoless double beta decay study, NDM2018, Daejeon, June 29 – July 4, 2018.
- **S. Stoica**, Neutrino properties deduced from the double beta decay study, ICHEP2018, Seoul, July 4 -11, 2018.
- S. Ghinescu, O. Nitorescu and **S. Stoica**, Investigation of Lorentz symmetry violation in Double Beta Decay, MEDEX'19, Prague, Czech, May 27-31, 2019 (invited lecture). Published in AIP Conference Proceedings **2165**, 020025 (2019); <https://doi.org/10.1063/1.5130986>.
- S. Stoica, 'Lorentz symmetry violation in double-beta decay' Workshop on Physics of fundamental Symmetries and Interactions, Villigen PSI Switzerland;
- S. Stoica, Study of kinematic effects in DBD, Conference on Nuclear and Neutrino Physics February, 2020, Cape Town;
- S. Stoica, "Double-beta decay and test of fundamental symmetries, "Symposium on Symmetries in subatomic Physics, Vienna 2022.

### 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.

- **S. Stoica**, O. Civitarese and A. Barabash, Eds., Double-beta decay and its potential to explore beyond Standard Model physics, Frontiers in Physics 2019 (research topics) <https://www.frontiersin.org/research-topics/7668/double-beta-decay-and-its-potential-to-explorebeyond-standard-model-physics#overview>

### 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 (selection)

- 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,...

- 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 (selection)

1. A study of the  $Z\bar{Z}$  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  $\bar{B}^0 \rightarrow J/\psi K^+ K^-$ , LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D87 (2013) (citari: 36)
3. Branching fraction and CP asymmetry of the decays  $B^+ \rightarrow K_S^0 \pi^+$  and  $B^+ \rightarrow K_S^0 K^+$ , 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  $B^0 \rightarrow J/\psi \eta$  and  $J/\psi \eta'$ , LHCb Collaboration, ..., S. Stoica, ... , NUCL PHYS B 867 (2013) (citari: 29)
9. Exclusive  $J/\psi$  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  $B^+ \rightarrow D_s^+ \phi$ , 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  $B^0 \rightarrow K^+ K^-$  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  $B_{c}^{+} \rightarrow J/\psi K^+$ , LHCb Collaboration, ..., S. Stoica, ... , JHEP 1309 (2013) (citari: 31)
  19. First observation of the decay  $B_{s2}^{*}(5840)^0 \rightarrow B^{*+} K^-$  and studies of excited  $B^0_s$  mesons, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 110 (2013) (citari: 18)
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  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)
  23. Measurement of  $J/\psi$  polarization in  $pp$  collisions at  $\sqrt{s}=7$  TeV, LHCb Collaboration, ..., S. Stoica, ... , EUR PHYS J C C73 (2013).
  24. Measurement of  $J/\psi$  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  $\Delta m_d$  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  $B^0_s \rightarrow \mu^+ \mu^-$  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  $\Lambda_b^0$ ,  $\Xi_b^-$  and  $\Omega_b^-$  baryon masses, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 110 (2013) (citari: 43)
  35. Measurement of the CKM angle  $\gamma$  from a combination of  $B^{\pm} \rightarrow D h^{\pm}$  analyses, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B 726 (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 873 (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  $B^0 \rightarrow J/\psi K^{*0}$  decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D88 (2013) (citari: 12)
43. Measurement of the ratio of branching fractions  $BR(B^0 \rightarrow K^{*0} \gamma)/BR(B^0 \rightarrow \phi \gamma)$  and the direct CP asymmetry in  $B^0 \rightarrow K^{*0} \gamma$ , LHCb Collaboration, ..., S. Stoica, ... , NUCL PHYS B 867 (2013) (citari: 32)
44. Measurement of the relative rate of prompt  $\chi_{c0}$ ,  $\chi_{c1}$  and  $\chi_{c2}$  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  $\Lambda_b^0$  polarisation in  $pp$  collisions at  $\sqrt{s} = 7$  TeV, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B 724 (2013) (citari: 31)
47. Measurements of the branching fractions of  $B^{*+} \rightarrow p \bar{p} K^{*+}$  decays, LHCb Collaboration, ..., S. Stoica, ... , EUR PHYS J C C73 (2013) (citari: 18)
48. Model-independent search for CP violation in  $D^0 \rightarrow K^+ K^+ \pi^- \pi^+$  and  $D^0 \rightarrow \pi^+ \pi^+ \pi^- \pi^+$  decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B726 (2013) (citari: 25)
49. Observation of  $B^+_{c1} \rightarrow J/\psi D^+_{s1}$  and  $B^+_{c1} \rightarrow J/\psi D^{*+}_s$  decays, LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D87 (2013) (citari: 50)
50. Observation of  $B^0_{s1} \rightarrow \bar{B}^0_{s1}$  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  $B^0_{s1} \rightarrow \chi_{c1} \phi$  decay and study of  $B^0_{s1} \rightarrow \chi_{c1,2} K^{*0}$  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)
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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  $B^{\pm} \rightarrow [\pi^{\pm} K^{\pm} \pi^{\pm} \pi^{\mp}]_D K^{\pm}$  and  $B^{\pm} \rightarrow$

- $\Lambda_c^+ \rightarrow \Lambda_c^0 \pi^+ \pi^-$ , LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B723 (2013) (citari: 33)
58. Observations of  $B^0 \rightarrow \psi(2S) \eta$  and  $B^0 \rightarrow \psi(2S) \pi^+ \pi^-$  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  $B^0 \rightarrow D^+ \pi^-$ , LHCb Collaboration, ..., S. Stoica, ... , New J.Phys. 15 (2013) (citari: 74)
61. Precision measurement of the  $\Lambda_b$  baryon lifetime, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 111 (2013) (citari: 46)
62. Production of  $J/\psi$  and  $\Upsilon$  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  $D^+ \rightarrow K^0_S \pi^+$  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)
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67. Search for rare  $B^0 \rightarrow \mu^+ \mu^- \mu^+ \mu^-$  decays, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 110 (2013) (citari: 11)
68. Search for the decay  $B^0 \rightarrow D^{*+} \pi^-$ , LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D87 (2013) (citari: 8)
69. Search for the doubly charmed baryon  $\Xi_{cc}^+$ , LHCb Collaboration, ..., S. Stoica, ... , JHEP 1312 (2013) (citari: 21)
70. Search for the lepton-flavor violating decays  $B^0 \rightarrow e^+ \mu^-$  and  $B^0 \rightarrow e^- \mu^+$ , 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  $B^0 \rightarrow J/\psi p \bar{p}$  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  $B^+ \rightarrow \Lambda(1520) p$ , LHCb Collaboration, ..., S. Stoica, ... , PHYS REV D D88 (2013) (citari: 16)
76. Study of  $B_{(s)}^0 \rightarrow K_{(S)} h^+ h^{\prime -}$  decays with first observation of  $B_{(s)}^0 \rightarrow K_{(S)} K^+ \pi^-$  and  $B_{(s)}^0 \rightarrow K_{(S)} \pi^+ \pi^-$ , 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  $B^+ \rightarrow DK^+$  and  $B^+ \rightarrow D \pi^+$  decays with  $D \rightarrow K^0 K^+ \pi^-$  final states, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B733 (2014)

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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  $B_s^0 \rightarrow \bar{D}^0 K^- \pi^+$  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)
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88. Measurement of CP asymmetry in  $D^0 \rightarrow K^- K^+$  and  $D^0 \rightarrow \pi^- \pi^+$  decays, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1407 (2014) (citari: 48)
89. Measurement of CP violation and constraints on the CKM angle  $\gamma$  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 CP 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  $\Upsilon$  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  $B^0_s \rightarrow D^{\pm} K^{\pm}$  decays, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1411 (2014) (citari: 22)
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95. Measurement of CP violation in the phase space of  $B^{\pm} \rightarrow K^+ K^- \pi^{\pm}$  and  $B^{\pm} \rightarrow \pi^+ \pi^- \pi^{\pm}$  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)
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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  $\phi_s$  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  $\chi_{b^0}$  and  $\Omega_{b^0}$  baryon lifetimes, LHCb Collaboration, ..., S. Stoica, ... , PHYS LETT B B736 (2014) (citari: 14)
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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  $\gamma$  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  $\phi_s$  in  $\overline{B}^0 \rightarrow J/\psi \pi^+ \pi^-$  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  $a_{\text{sl}}^s$  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  $\sqrt{s} = 7$  {rm \ , TeV}, LHCb Collaboration, ..., S. Stoica, ... , JHEP 1412 (2014) (citari: 25)
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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)
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116. Measurements of the  $B^+$ ,  $B^0$ ,  $B_s^0$  meson and  $\Lambda_b^0$  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)
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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)
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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  $\Xi_b^-$  Baryon, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 113 (2014) (citari: 14)
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128. Precision measurement of the mass and lifetime of the  $\Xi_b^0$  baryon, LHCb Collaboration, ..., S. Stoica, ... , Phys.Rev.Lett. 113 (2014) (citari: 18)
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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)
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Group Author(s): LHCb Collaboration

PHYSICAL REVIEW LETTERS Volume: 117 Issue: 6 Article Number: 061803 Published: AUG 5 2016

A precise measurement of the  $B^0$  meson oscillation frequency

By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

EUROPEAN PHYSICAL JOURNAL C Volume: 76 Issue: 7 Article Number: 412 Published: JUL 21 2016

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By: Aaij, R.; Beteta, C. Abellan; Adinolfi, M.; et al.

JOURNAL OF HIGH ENERGY PHYSICS Issue: 7 Article Number: 052 Published: JUL 11 2016

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By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

PHYSICAL REVIEW D Volume: 93 Issue: 11 Article Number: 112018 Published: JUN 30 2016

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By: Aaij, R.; Abellan Beteta, C.; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

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By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

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By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

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By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

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By: Aaij, R.; Abellan Beteta, C.; Adeva, B.; et al.

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Measurement of forward W and Z boson production in association with jets in proton-proton collisions at  $\sqrt{s}=8$  TeV

By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

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By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

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By: Aaij, R.; Abellan Beteta, C.; Adeva, B.; et al.

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Group Author(s): LHCb Collaboration

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Group Author(s): LHCb Collaboration

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Group Author(s): LHCb Collaboration

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Group Author(s): LHCb Collaboration

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By: Aaij, R.; Beteta, C. Abelian; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

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By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

PHYSICAL REVIEW D Volume: 93 Issue: 5 Article Number: 052018 Published: MAR 31 2016

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By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

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Group Author(s): LHCb Collaboration

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Group Author(s): LHCb Collaboratio

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Group Author(s): LHCb Collaboration

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By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

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By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 2 Article Number: 104 Published: FEB 16 2016

Measurement of forward W and Z boson production in pp collisions at  $\sqrt{s}=8\text{TeV}$

By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 1 Article Number: 155 Published: JAN 26 2016

First observation of the decay  $B_s(0) \rightarrow (KSK)-K-0^{*}(892)(0)$  at LHCb

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

JOURNAL OF HIGH ENERGY PHYSICS Issue: 1 Article Number: 012 Published: JAN 4 2016

Study of the production of  $A(b)(0)$  and  $(B)\text{over-bar}(0)$  hadrons in pp collisions and first measurement of the  $A(b)(0) \rightarrow J/\psi pK(-)$  branching fraction

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): The LHcb Collaboration

CHINESE PHYSICS C Volume: 40 Issue: 1 Article Number: 011001 Published: JAN 2016

Search for Higgs-like bosons decaying into long-lived exotic particles

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

EUROPEAN PHYSICAL JOURNAL C Volume: 76 Issue: 12 Article Number: 664 Published: DEC 2 2016

Measurements of long-range near-side angular correlations in  $\sqrt{s_{NN}}=5\text{TeV}$  proton-lead collisions in the forward region

By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

PHYSICS LETTERS B Volume: 762 Pages: 473-483 Published: NOV 10 2016

Measurement of the  $B_s(0) \rightarrow J/\psi \eta$  lifetime

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHcb Collaboration

PHYSICS LETTERS B Volume: 762 Pages: 484-492 Published: NOV 10 2016

Measurements of the S-wave fraction in  $B^0 \rightarrow K^+ \pi^{-} \mu^{+} \mu^{-}$  decays and the  $B^0 \rightarrow K^{*}(892)(0) \mu^{+} \mu^{-}$  differential branching fraction

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 11 Article Number: 047 Published: NOV 8 2016

Measurement of forward W  $\rightarrow e \nu$  production in pp collisions at  $\sqrt{s}=8\text{ TeV}$

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 10 Article Number: 030 Published: OCT 7 2016

Measurement of the ratio of branching fractions  $B(B\text{-}c(+)\text{-}\rightarrow J/\psi K^+)/B(B\text{-}c(+)\text{-}\rightarrow J/\psi \pi^+)$

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 9 Article Number: 153 Published: SEP 27 2016

Measurement of the forward Z boson production cross-section in pp collisions at  $\sqrt{s}=13$  TeV

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 9 Article Number: 136 Published: SEP 21 2016

Observation of the  $\Lambda(0)(b)\text{-}\rightarrow \Lambda \phi$  decay

By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

PHYSICS LETTERS B Volume: 759 Pages: 282-292 Published: AUG 10 2016

A precise measurement of the B-0 meson oscillation frequency

By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

EUROPEAN PHYSICAL JOURNAL C Volume: 76 Issue: 7 Article Number: 412 Published: JUL 21 2016

Search for Violations of Lorentz Invariance and CPT Symmetry in B-(s)(0) Mixing

By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

PHYSICAL REVIEW LETTERS Volume: 116 Issue: 24 Article Number: 241601 Published: JUN 15 2016

Observation of  $\Lambda(0)(b)\text{-}\rightarrow \psi(2S)pK^-$  and  $\Lambda(0)(b)\text{-}\rightarrow J/\psi \pi^+\pi^-\rho K^-$  decays and a measurement of the  $\Lambda(b)(0)$  baryon mass

By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 5 Article Number: 132 Published: MAY 23 2016

Measurement of the B-s(0)  $\rightarrow$  D-s(0)\*D-(s)(\*-) branching fractions

By: Aaij, R.; Abellan Beteta, C.; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

PHYSICAL REVIEW D Volume: 93 Issue: 9 Article Number: 092008 Published: MAY 20 2016

Model-independent measurement of mixing parameters in D-0  $\rightarrow$  K-S(0) $\pi^+\pi^-$  decays

By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 4 Article Number: 033 Published: APR 6 2016

First observation of the decay B-s(0)  $\rightarrow$  (KSK)-K-0\*(892)(0) at LHCb

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Observation of the Annihilation Decay Mode  $B^0 \rightarrow K^+K^-$

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

PHYSICAL REVIEW LETTERS Volume: 118 Issue: 8 Article Number: 081801 Published: FEB 21 2017

Observation of the Decay  $\Xi^0(b) \rightarrow pK^0K^0$

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

PHYSICAL REVIEW LETTERS Volume: 118 Issue: 7 Article Number: 071801 Published: FEB 16 2017

Measurement of the  $b$ -Quark Production Cross Section in 7 and 13 TeV pp Collisions

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

PHYSICAL REVIEW LETTERS Volume: 118 Issue: 5 Article Number: 052002 Published: FEB 3 2017

LHCb-Collab. Aaij, R.,...,**Stoica S.**,...: Measurement of the  $b$ -Quark Production Cross Section in 7 and 13 TeV pp Collisions, PHYSICAL REVIEW LETTERS **118**, 052002 (2017)

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LHCb-Collab. Aaij, R.,...,**Stoica S.**,...: Observation of the Decay  $\Xi^0(b) \rightarrow pK^0K^0$   
PHYSICAL REVIEW LETTERS **118**, 071801 (2017)

Observation of charmless baryonic decays  $B^0 \rightarrow p \bar{p} + h^0$

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

PHYSICAL REVIEW D Volume: 96 Issue: 5 Article Number: 051103 Published: SEP 27 2017



Study of charmonium production in b-hadron decays and first evidence for the decay  $B_s(0) \rightarrow \phi \phi \phi$

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

EUROPEAN PHYSICAL JOURNAL C Volume: 77 Issue: 9 Article Number: 609 Published: SEP 14 2017

Measurement of  $B_s(0)$  and  $D_s(-)$  Meson Lifetimes

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

PHYSICAL REVIEW LETTERS Volume: 119 Issue: 10 Article Number: 101801 Published: SEP 8 2017



Measurement of CP asymmetries in  $D_{+/-} \rightarrow \eta \pi_{+/-}$  and  $D_S^{+/-} \rightarrow \eta \pi_{+/-}$  decays

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

PHYSICS LETTERS B Volume: 771 Pages: 21-30 Published: AUG 10 2017

Resonances and CP violation in  $B_s(0)$  and  $(B)\overline{s}(0) \rightarrow j \psi K+K-$  decays in the mass region above the  $I$  center dot(1020)

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 8 Article Number: 037 Published: AUG 9 2017

Observation of the Decays  $\alpha(0)(b) \rightarrow \chi(c1)pK(-)$  and  $\alpha(0)(b) \rightarrow \chi(c2)pK(-)$

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

PHYSICAL REVIEW LETTERS Volume: 119 Issue: 6 Article Number: 062001 Published: AUG 8 2017

First Observation of a Baryonic  $B_s(0)$  Decay

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

PHYSICAL REVIEW LETTERS Volume: 119 Issue: 4 Article Number: 041802 Published: JUL 25 2017

Observation of the  $B^+ \rightarrow D^* K^{-(+)} \pi^+$  decay

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

PHYSICAL REVIEW D Volume: 96 Issue: 1 Article Number: 011101 Published: JUL 19 2017

Observation of the decay  $B_s(0) \rightarrow \eta(c)\phi$  and evidence for  $B_s(0) \rightarrow \eta(c)\pi^+\pi^-$

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 7 Article Number: 021 Published: JUL 5 2017

Measurements of prompt charm production cross-sections in pp collisions at  $\sqrt{s}=5\text{TeV}$

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 6 Article Number: 147 Published: JUN 28 2017

Measurement of the CP Violation Parameter  $A(\Gamma)$  in  $D^0 \rightarrow K^+K^-$  and  $D^0 \rightarrow \pi^+\pi^-$  Decays

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

PHYSICAL REVIEW LETTERS Volume: 118 Issue: 26 Article Number: 261803 Published: JUN 28, 2017

Observation of the decay  $\Lambda_b(0) \rightarrow pK^-\mu^+\mu^-$  and a search for CP violation

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 6 Article Number: 108 Published: JUN 21 2017

Search for the Decays  $B^0 \rightarrow \tau^+\tau^-$  and  $B^0 \rightarrow \tau^+\tau^-$

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

PHYSICAL REVIEW LETTERS Volume: 118 Issue: 25 Article Number: 251802 Published: JUN 21, 2017

Observation of  $\eta_c(2S) \rightarrow p\bar{p}$  and search for  $X(3872) \rightarrow p\bar{p}$  decays

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

PHYSICS LETTERS B Volume: 769 Pages: 305-313 Published: JUN 10 2017

Search for CP violation in the phase space of  $D^0 \rightarrow \pi^+\pi^-\pi^+\pi^-$  decays

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

PHYSICS LETTERS B Volume: 769 Pages: 345-356 Published: JUN 10 2017



Measurement of the  $J/\psi$  pair production cross-section in pp collisions at  $\sqrt{s}=13\text{TeV}$

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 6 Article Number: 047 Published: JUN 9 2017

Search for the  $B^0 \rightarrow \eta\phi$  decay

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 5 Article Number: 158 Published: MAY 31 2017

Measurements of prompt charm production cross-sections in pp collisions at  $\sqrt{s} = 13 \text{ TeV}$  (vol 03, 159, 2016)

By: Aaij, R.; Beteta, C. Abellan; Adeva, B.; et al.

Group Author(s): LHCb Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 5 Article Number: 074 Published: MAY 15 2017

Measurement of forward  $J/\psi$  production cross-sections in pp collisions at  $\sqrt{s} = 13 \text{ TeV}$  (vol 10, pg 172, 2015)

By: Aaij, H.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHCb Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 5 Article Number: 063 Published: MAY 11 2017

Measurement of the  $B_s(0) \rightarrow \mu^+ \mu^-$  Branching Fraction and Effective Lifetime and Search for  $B-0 \rightarrow \mu^+ \mu^-$  Decays

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHcb Collaboration

PHYSICAL REVIEW LETTERS Volume: 118 Issue: 19 Article Number: 191801 Published: MAY 11 2017

Study of  $J/\psi$  Production in Jets

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHcb Collaboration

PHYSICAL REVIEW LETTERS Volume: 118 Issue: 19 Article Number: 192001 Published: MAY 8, 2017

Study of the  $D(0)p$  amplitude in  $\Lambda(0)(b) \rightarrow D(0)p \pi^-$  decays

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHcb collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 5 Article Number: 030 Published: MAY 5 2017

Observation of Five New Narrow  $\Omega(0)(c)$  States Decaying to  $\Xi K^{-(c)}$

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHcb Collaboration

PHYSICAL REVIEW LETTERS Volume: 118 Issue: 18 Article Number: 182001 Published: MAY 2 2017

Evidence for the two-body charmless baryonic decay  $B^+ \rightarrow p \bar{\Lambda}$

By: Aaij, R.; Adeva, B.; Adinolfi, M.; et al.

Group Author(s): LHcb Collaboration

JOURNAL OF HIGH ENERGY PHYSICS Issue: 4 Article Number: 162 Published: APR 28 2017