VU Teorinės fizikos ir astronomijos instituto 2015 m. publikacijų

SĄRAŠAS

Knygos, knygų dalys ir kiti leidiniai

1. G. Juzeliūnas and P. Öhberg, 2015, Optical Control of Cold Atoms and Artificial Electromagnetism, in *Photonics, Volume II: Scientific Foundations, Technology and Applications,* ed. D. L. Andrews (John Wiley & Sons, Inc., Hoboken, NJ, USA, 2015), pp. 371-399; doi: 10.1002/9781119011750.ch11 (pžvalginis straipsnis tarptautinės leidyklos knygos skyriuje)

2. A. Snegursky, J. Tamulienė, L. G. Romanova, V. S. Vukstich, A. V. Papp. *Tryptophan molecule fragmentation in collisions with low-energy electrons*. *New developments in trypthophan research* / Editors: Victoria Hayes, Nova science publishers, 105-142 (2015) (knygos skyrius)

3. Baltic Astronomy, 25, Nr. 1-4 (2015), ats. red. V. Straižys, ISSN 139-0049.

4. Lietuvos dangus 2016 (ats. red. G. Tautvaišienė) 152 psl., ISSN 1392-0987.

Straipsniai ISI žurnaluose

1. Koposov, S.E., Casey, A.R., Belokurov, V., Lewis, J.R., Gilmore, G., Worley, C., Hourihane, A., Randich, S., Bensby, T., Bragaglia, A., Bergemann, M., Carraro, G., Costado, M.T., Flaccomio, E., Francois, P., Heiter, U., Hill, V., Jofre, P., Lando, C., Lanzafame, A.C., de Laverny, P., Monaco, L., Morbidelli, L., Sbordone, L., **Mikolaitis, Š.,** and Ryde, N., Kinematics and Chemistry of Recently Discovered Reticulum 2 and Horologium 1 Dwarf Galaxies, 2015, The Astrophysical Journal, 811, 62

2. **Ženovienė, R., Tautvaišienė, G.,** Nordström, B., **Stonkutė, E.,** and **Barisevičius, G.,** Stellar substructures in the solar neighbourhood . IV. Kinematic Group 1 in the Geneva-Copenhagen survey, 2015, Astronomy and Astrophysics, 576, A113

3. **Tautvaišienė, G., Drazdauskas, A., Mikolaitis, Š., Barisevičius, G., Puzeras, E., Stonkutė, E., Chorniy, Y.,** Magrini, L., Romano, D., Smiljanic, R., Bragaglia, A., Carraro, G., Friel, E., Morel, T., Pancino, E., Donati, P., Jiménez-Esteban, F., Gilmore, G., Randich, S., Jeffries, R.D., Vallenari, A., Bensby, T., Flaccomio, E., Recio-Blanco, A., Costado, M.T., Hill, V., Jofré, P., Lardo, C., de Laverny, P., Masseron, T., Moribelli, L., Sousa, S.G., and Zaggia, S., The Gaia-ESO Survey: CNO abundances in the open clusters Trumpler 20, NGC 4815, and NGC 6705, 2015, Astronomy and Astrophysics, 573, A55

4. S. Blanco-Cuaresma, C. Soubiran, U. Heiter, M. Asplund, G. Carraro, M. T. Costado, S. Feltzing, J. I. Gonzalez-Hernandez, F. Jimenez-Esteban, A. J. Korn, A. F. Marino, D. Montes, I. San Roman, H. M. Tabernero, and **G. Tautvaisiene**: Testing the chemical tagging technique with open clusters, Astronomy and Astrophysics, 577, A47, (2015)

5. San Roman, I., C. Munoz, D. Geisler, S. Villanova, N. Kacharov, A. Koch, G. Carraro, **G. Tautvaisiene,** A. Vallenari, E. J. Alfaro, T. Bensby, E. Flaccomio, P. Francois, A. J. Korn, E. Pancino, A. Recio-Blanco, R. Smiljanic, M. Bergemann, M. T. Costado, F. Damiani, U.

Heiter, A. Hourihane, P. Jofre, C. Lardo, P. de Laverny, T. Masseron, L. Morbidelli, L. Sbordone, S. G. Sousa, C. C. Worley, and S. Zaggia: The Gaia-ESO Survey: Detailed abundances in the metal-poor globular cluster NGC 4372, Astronomy and Astrophysics, 579, A6, (2015)

6. L. Magrini, S. Randich, P. Donati, A. Bragaglia, V. Adibekyan, D. Romano, R. Smiljanic, S. Blanco-Cuaresma, **G. Tautvaisiene,** E. Friel, J. Overbeek, H. Jacobson, T. Cantat-Gaudin, A. Vallenari, R. Sordo, E. Pancino, D. Geisler, I. San Roman, S. Villanova, A. Casey, A. Hourihane, C. C. Worley, P. Francois, G. Gilmore, T. Bensby, E. Flaccomio, A. J. Korn, A. Recio-Blanco, G. Carraro, M. T. Costado, E. Franciosini, U. Heiter, P. Jofre;, C. Lardo, P. de Laverny, L. Monaco, L. Morbidelli, G. Sacco, S. G. Sousa, and S. Zaggia: The Gaia-ESO Survey: Insights into the inner-disc evolution from open clusters, Astronomy and Astrophysics, 580, A85, (2015)

7. L. Spina, F. Palla, S. Randich, G. Sacco, R. Jeffries, L. Magrini, E. Franciosini, M. R. Meyer, **G. Tautvaisiene**, G. Gilmore, E. J. Alfaro, C. Allende Prieto, T. Bensby, A. Bragaglia, E. Flaccomio, S. E. Koposov, A. C. Lanzafame, M. T. Costado, A. Hourihane, C. Lardo, J. Lewis, L. Monaco, L. Morbidelli, S. G. Sousa, C. C. Worley, and S. Zaggia: The Gaia-ESO Survey: chemical signatures of rocky accretion in a young solar-type star, Astronomy and Astrophysics, 582, L6, (2015)

8. Jofré, P., Heiter, U., Soubiran, C., Blanco-Cuaresma, S., Masseron, T., Nordlander, T., Chemin, L., Worley, C.C., Van Eck, S., Hourihane, A., Gilmore, G., Adibekyan, V., Bergemann, M., Cantat-Gaudin, T., Delgado-Mena, E., González Hernández, J.I., Guiglion, G., Lardo, C., de Laverny, P., Lind, K., Magrini, L., **Mikolaitis, S.,** Montes, D., Pancino, E., Recio-Blanco, A., Sordo, R., Sousa, S., Tabernero, H.M., and Vallenari, A., Gaia FGK benchmark stars: abundances of α and iron-peak elements, 2015, Astronomy and Astrophysics, 582, A81

9. Guiglion, G., Recio-Blanco, A., de Laverny, P., Kordopatis, G., Hill, V., **Mikolaitis, Š.,** Minchev, I., Chiappini, C., Wyse, R.F.G., Gilmore, G., Randich, S., Feltzing, S., Bensby, T., Flaccomio, E., Koposov, S.E., Pancino, E., Bayo, A., Costado, M.T., Franciosini, E., Hourihane, A., Jofré, P., Lardo, C., Lewis, J., Lind, K., Magrini, L., Morbidelli, L., Sacco, G.G., Ruchti, G., Worley, C.C., and Zaggia, S., The Gaia-ESO Survey: New constraints on the Galactic disc velocity dispersion and its chemical dependencies, 2015, Astronomy and Astrophysics, 583, A91

10. Heiter, U., Lind, K., Asplund, M., Barklem, P.S., Bergemann, M., Magrini, L., Masseron, T., **Mikolaitis, Š.,** Pickering, J.C., and Ruffoni, M.P., Atomic and molecular data for optical stellar spectroscopy, 2015, Physica Scripta, 90, 054010

11. Kordopatis, G., Wyse, R.F.G., Gilmore, G., Recio-Blanco, A., de Laverny, P., Hill, V., Adibekyan, V., Heiter, U., Minchev, I., Famaey, B., Bensby, T., Feltzing, S., Guiglion, G., Korn, A.J., **Mikolaitis, Š.,** Schultheis, M., Vallenari, A., Bayo, A., Carraro, G., Flaccomio, E., Franciosini, E., Hourihane, A., Jofré, P., Koposov, S.E., Lardo, C., Lewis, J., Lind, K., Magrini, L., Morbidelli, L., Pancino, E., Randich, S., Sacco, G.G., Worley, C.C., and Zaggia, S., The Gaia-ESO Survey: characterisation of the [α/Fe] sequences in the Milky Way discs, 2015, Astronomy and Astrophysics, 582, A122

12. Dobrovolskas, V., Kučinskas, A., Bonifacio, P., Caffau, E., Ludwig, H.-G., Steffen, M. ir Spite, M., "Three-dimensional hydrodynamical CO5BOLD model atmospheres of red

giant stars IV. Oxygen diagnostics in extremely metal-poor red giants with infrared OH lines", Astronomy & Astrophysics, 576, A128

13. Steffen, M., Prakapavičius, D., Caffau, E., Ludwig, H.-G., Bonifacio, P., Cayrel, R., Kučinskas, A., ir Livingston, W.C., „The photospheric solar oxygen project IV. 3D-NLTE investigation of the 777 nm triplet lines", Astronomy & Astrophysics, 583, A57

14. Straižys, V.; Vrba, F. J.; Boyle, R. P.; Milašius, K.; Černis, K.; Zdanavičius, K.; Zdanavičius, J.; Kazlauskas, A.; Macijauskas, M.; Janusz, R.; Interstellar Extinction in the Direction of the Open Cluster M29, 2015, Astronomical Journal 149, id. 161, 9 p.

15. K. Cernis, I. Wlodarczyk, I. Eglitis. Observational data and orbits of the asteroids discovered at the Baldone observatory in 2008–2013. Baltic Astronomy, 24, 251 (2015).

16. S. Kučas, A. Momkauskaitė, R. Karazija. Cascades after K-vacancy production and additional ionization or excitation in atoms of light elements. Astrophys. J. 810, 26 (2015). [doi: 10.1088/0004-637X/810/1/26]
17. R. Kisielius, V. P. Kulkarni, G. J. Ferland, P. Bogdanovich, D. Som, M. L. Lykins. Atomic data for Zn II: improving spectral diagnostics of chemical evolution in high-redshift galaxies. Astrophys. J. 804, 76 (2015). [doi: 10.1088/0004-637X/804/1/76]
18. K. Werner, T. Rauch, S. Kučas, J. W. Kruk. The prospective search for highly ionized technetium in hot (pre-) white dwarfs. Astron. Astrophys. 574, A29 (2015). [doi: 10.1051/0004-6361/201424199]
19. M. L. Lykins, G. J. Ferland, R. Kisielius, M. Chatzikos, R. L. Porter, P. A. M. van Hoof, R. J. R. Williams, F. P. Keenan, P. C. Stancil. Stout: Cloudy's atomic and molecular database. Astrophys. J. 807, 118 (2015). [doi: 10.1088/0004-637X/807/2/118]
20. R. Juršėnas. Series expansion for the Fourier transform of a rational function in three-dimensions. Rep. Math. Phys. 75, 1 (2015). [doi: 10.1016/S0034-4877(15)00004-X]
21. L. Radžiūtė, J. Ekman, P. Jönsson, G. Gaigalas. Extended calculations of level and transition properties in the nitrogen isoelectronic sequence: Cr XVIII, Fe XX, Ni XXII, and Zn XXIV. Astron. Astrophys. 582, A61 (2015). [doi: 10.1051/0004-6361/201526708]
22. A. Kynienė, Š. Masys, V. Jonauskas. *Influence of excitations to high-nl shells for the ionization process in the W26+ ion*. Phys. Rev. A **91**, 062707 (2015). [doi: 10.1103/PhysRevA.91.062707]
23. V. Jonauskas, A. Kynienė, G. Merkelis, G. Gaigalas, R. Kisielius, S. Kučas, Š. Masys, L. Radžiūtė, P. Rynkun. Contribution of high-nl shells to electron-impact ionization processes. Phys. Rev. A 91, 012715 (2015). [doi: 10.1103/PhysRevA.91.012715]
24. G. Gaigalas, P. Rynkun, C. F. Fischer. Lifetimes of 4p54d levels in highly ionized atoms. Phys. Rev. A 91, 022509 (2015). [doi: 10.1103/PhysRevA.91.022509]
25. L. Radžiūtė, G. Gaigalas, D. Kato, P. Jönsson, P. Rynkun, S. Kučas, V. Jonauskas, R. Matulianec. Energy levels structure of Er3+. J. Quant. Spectrosc. Radiat. Transfer 152, 94 (2015). [doi: 10.1016/j.jqsrt.2014.11.007]

26. V. Jonauskas, T. Puetterich, S. Kučas, Š. Masys, A. Kynienė, G. Gaigalas, R. Kisielius, L. Radžiūtė, P. Rynkun, G. Merkelis. Cascade emission in electron beam ion trap plasma of W25+ ion. J. Quant. Spectrosc. Radiat. Transfer 160, 22 (2015). [doi: 10.1016/j.jqsrt.2015.03.013]
27. L. Radžiūtė, D. Kato, G. Gaigalas, P. Jönsson, P. Rynkun, V. Jonauskas, S. Kučas. Energy level structure of the ground configuration in the E3+ free ion. Phys. Scripta 90, 054001 (2015). [doi: 10.1088/0031-8949/90/5/054001]
28. V. Jonauskas, A. Kynienė, P. Rynkun, S. Kučas, G. Gaigalas, R. Kisielius, Š. Masys, G. Merkelis, L. Radžiūtė. Theoretical investigation of spectroscopic properties of W26+ in EBIT plasma. J. Phys. B: At. Mol. Opt. Phys. 48, 135003 (2015). [doi: 10.1088/0953-4075/48/13/135003]
29. J. Bieron, C. F. Fischer, S. Fritzsche, G. Gaigalas, I. P. Grant, P. Indelicato, P. Jönsson, P. Pyykkö. Ab initio MCDHF calculations of electron-nucleus interactions. Phys. Scripta 90, 054011 (2015). [doi: 10.1088/0031-8949/90/5/054011]
30. L. Radžiūtė, E. Gaidamauskas, G. Gaigalas, J. Li, C. Dong, P. Jönsson. Weak- and hyperfine interaction induced 1s2s 1S0 → 1s2 1S0 E1 transition rates of He-like ions. Chinese Phys. B 24, 043103 (2015). [doi: 10.1088/1674-1056/24/4/043103]
31. P. Bogdanovich, R. Karpuškienė, R. Kisielius. Quasirelativistic calculation of 4s24p5, 4s24p44d and 4s4p6 configuration spectroscopic parameters for the W39+ ion. Phys. Scripta 90, 035401 (2015). [doi: 10.1088/0031-8949/90/3/035401]
32. L. G. Romanova, J. Tamulienė, V. S. Vukstich, T. A. Snegurskaya, A. V. Papp, A. V. Snegursky. Production of similar fragments from the glycine, alanine, and methionine amino acid molecules under low-energy electron impact, Acta Phys. Pol. A, 128, 15 (2015). [doi: 10.12693/APhysPolA.128.15]
33. J. Tamulienė, L. G. Romanova, V. S. Vukstich, A. V. Papp, A. V. Snegursky. Electron-impact-induced tryptophan molecule fragmentation. Eur. Phys. J. D 69, 1 (2015). [doi: 10.1140/epjd/e2014-50551-2]
34. Š. Masys, V. Jonauskas. Elastic properties of rhombohedral, cubic, and monoclinic phases of LaNiO3 by first principles calculations. Comput. Mater. Sci. **108**, 153 (2015). [doi: 10.1016/j.commatsci.2015.06.034]
35. V. Roman, A. Kupliauskienė, A. Borovik. Excitation and ionization of outer shells in Rb by electron impact. J. Phys. B: At. Mol. Opt. Phys. 48, 205204 (2015). [doi: 10.1088/0953-4075/48/20/205204]
36. G. Kerevičius, A. Kupliauskienė. Classification of the 5p5nln'l' LSJ energy levels of Cs excited by 30 eV electrons. Lith. J. Phys. 55, 84 (2015). [doi: 10.3952/physics.v55i2.3098]
37. R. Karpuškienė, P. Bogdanovich, R. Kisielius. Metastable level properties of the excited configuration 4p64d84f. Lith. J. Phys. 55, 73 (2015). [doi: 10.3952/physics.v55i2.3097]
38. P. Bogdanovich, R. Karpuskienė, R. Kisielius. Energy spectra of the tungsten ion 4s24pN, 4s24pN-14d and 4s4pN+1 congurations. Lith. J. Phys. 55, 162 (2015). [doi: 10.3952/physics.v55i3.3145]
39. W. Han, G. Juzeliūnas, W. Zhang and W.-M. Liu, *Supersolid with nontrivial topological spin textures in spin-orbit coupled Bose gases*, Phys. Rev. A 91, 013607 (2015).
40. S.-W. Su, S.-C. Gou, I.-K. Liu, I. B. Spielman, L. Santos, A. Acus, A. Mekys, J. Ruseckas, and G. Juzeliūnas, *Position-dependent spin-orbit coupling for ultracold atoms*, New. J. Phys. 17, 033045 (2015).

41. E. Anisimovas, G. Žlabys, B. M. Anderson, G. Juzeliūnas, and A. Eckardt, *Role of real-space micromotion for bosonic and fermionic Floquet fractional Chern insulators*, Phys. Rev. B 91, 245135 (2015).
42. J.-H. Zheng, B. Xiong, G. Juzeliūnas, and D.-W. Wang, *Topological condensate in an interaction-induced gauge potential*, Phys. Rev. A 92, 013604 (2015).
43. A. Eckardt and E. Anisimovas, *High-frequency approximation for periodically driven quantum systems from a Floquet-space perspective*, New J. Phys. 17, 093039 (2015).
44. V. Novičenko, *Delayed feedback control of synchronization in weakly coupled oscillator networks*, Physical Review E 92, 013025 (2015).
45. T. Andrijauskas, E. Anisimovas, M. Račiūnas, A. Mekys, V. Kudriašov, I. B. Spielman, G. Juzeliūnas, *Three-level Haldane-like model on a dice optical lattice*, Phys. Rev. A 92, 033617 (2015).
46. J. Ruseckas, *Probabilistic model of N correlated binary random variables and non-extensive statistical mechanics*, Phys. Lett. A 379, 654 (2015).
47. A. Kononovicius, J. Ruseckas, *Nonlinear GARCH model and 1/f noise*, Physica A 427, 74 (2015).
48. R. Kazakevičius, J. Ruseckas, *Power law statistics in the velocity fluctuations of Brownian particle in inhomogeneous media and driven by colored noise*, J. Stat. Mech. 2015, P02021 (2015).
49. R. Kazakevičius, J. Ruseckas, *Anomalous diffusion in nonhomogeneous media: Power spectral density of signals generated by time-subordinated nonlinear Langevin equations*, Physica A 438, 210 (2015).
50. R. Kazakevičius, J. Ruseckas, *Power-law statistics from nonlinear stochastic differential equations driven by Lévy stable noise*, Chaos, Solitons & Fractals 81, Part B, 432-442 (2015).
51. B. Kaulakys, M. Alaburda and J. Ruseckas, *1/f noise from the nonlinear transformations of the variables*, Mod. Phys. Lett. B 29, 1550223 (2015).
52. A. Kononovicius, V. Gontis, *Herding interactions as an opportunity to prevent extreme events in financial markets*, European Physical Journal B 88, 189 (2015).
53. Janciene R., Javorskis T., Mikulskiene G., Vektariene A., Vektaris G., Klimavicius K.A. *Novel synthesis of quinazolino[3,2-a][1,5]benzodiazepines: an experimental and computational study*. ARKIVOC 5, 366-382 (2015).
54. Janciene R., Javorskis T., Mikulskiene G., Vektariene A., Vektaris G., Kosychova L. *Dihydroquinazolino[3,2-a][1,5] benzodiazepines: Synthesis and Computational Study of Reductive N-Heterocyclization of N-(2-Nitrobenzoyl)-1,5-benzodiazepin-2-ones.* J. Heterocycl. Chem. 52(1) 243-250, (2015).
55. H.R. Hamedi, Hadi Afshari, Realization of Position- Dependent Absorption Based on Biexciton Coherence in a Quantum Dot Nanostructure, Physica E 75, 181–187 (2015).
56. H. R. Hamedi ,M. R. Mehmannavaz. H. Afshari, Control over hysteresis curve and threshold of optical bistability in different semiconductor double quantum wells, Chin. Phys. B 24, 084211(2015).
57. H. R. Hamedi, Perfect precision detecting probability of an atom via SGC mechanism, Intern. J. Theoret. Phys. 54, 2012-202 (2015).

58. H. R. Hamedi and S. H. Asadpour, Realization of optical bistability and multistability in Landau-quantized grapheme, J. Appl. Phys. 117, 183101 (2015).
59. H. R. Hamedi ,M. R. Mehmannavaz, Behavior of Optical Bistability in Multifold Quantum Dot Molecules, Laser Phys. 25, 025403 (2015).
60. Ali Raheli, H. R. Hamedi and M Sahrai, Efficient 2D probe absorption spectrum in nanodiamond nitrogen- vacancy centers, Laser Phys. Lett. 12, 095201 (2015).
61. Ali Raheli, H. R. Hamedi and M Sahrai, 2D spatial distribution of probe absorption in a triple semiconductor quantum well, Laser Phys. Lett. 12, 105201 (2015).
62. S. H. Asadpour, H. R. Hamedi and H. R. Soleimani, Slow light propagation and bistable switching in a graphene under an external magnetic field, Laser Phys. Lett. 12, 045202 (2015).
63. H. R. Hamedi, Transient absorption and lasing without inversion in an artificial molecule via Josephson coupling energy, Laser Phys. Lett. 12, 035201 (2015).
64. Ali Raheli, M. Sahrai, H. R. Hamedi, Atom position measurement in a four- level Lambda-shaped scheme with twofold lower-levels, Opt. Quant Electronics 47, 3221-3236 (2015).
65. H. R. Hamedi, Subluminal and superluminal light propagation in a superconducting quantum circuit via Josephson coupling energy, Physica B: Condensed Matter 465, 7–12 (2015).
66. Seyyed Hossein Asadpoura, H.R. Hamedi, H. Rahimpour Soleimani, Role of incoherent pumping field on absorption–dispersion properties of probe pulse in a graphene nanostructure under external magnetic field, Physica E 71, 123–129 (2015).
67. H. R. Hamedi, M. R. Mehmannavaz, Switching feature of EIT-based slow light giant phase-sensitive Kerr nonlinearity in a semiconductor quantum well, Physica E 66, 309–316 (2015).
68. H. R. Hamedi and G. Juzeliūnas, Phase-sensitive Kerrr Nonlinearity for closed loop Quantum systems, Phys. Rev. A 91, 053823, (2015).
69. H.R. Hamedi, M. R. Mehmannavaz, Manipulation of tunneling induced transparency windows and optical switching features in fivefold quantum dot molecules, Physica E 73, 189–197 (2015).
70. Ali Golestani, H.R. Hamedi, Ahad Darkhosh, Size effects in quantum well nanostructures on propagation of light pulse, Physica B 456, 129–133 (2015).
71. A. Raheli, H. Afshari, H. R. Hamedi, Coherent control of optical bistability and multistability in a triple semiconductor quantum well nanostructure, Pis'ma v ZhETF (JETP Letters) 102, 558–564 (2015).
72. Ali Raheli, H. R. Hamedi and M Sahrai, Atom localization in two dimensions for five-level atomic schemes in X- configuration, *Laser Phys.* 25, 095202 (2015).
73. A. Deltuva, A. C. Fonseca, *Deuteron-deuteron scattering above four-nucleon breakup threshold,* Physics Letters B 742, 285 (2015).
74. A. Deltuva, *Core excitation in three-body nuclear reactions: Improved nucleon-core potential,* Physical Review C 91, 024607 (2015).
75. A. Deltuva, A. C. Fonseca, *Proton-^{3}H scattering calculation: Elastic and charge-exchange reactions up to 30 MeV,* Physical Review C 91, 034001 (2015).
76. A. Deltuva, P. U. Sauer, *Three-nucleon system: Irreducible and reducible contributions*

of the three-nucleon force, Physical Review C 91, 034002 (2015).
77. A. Deltuva, A. C. Fonseca, *Four-body calculation of elastic deuteron-deuteron scattering,* Physical Review C 92, 024001 (2015).
78. A. Deltuva, *Momentum-space calculation of ^{4}He triatomic system with realistic potential,* Few-Body Systems 56, 897 (2015).
79. I. Ciepał, B. Kłos, St. Kistryn, E. Stephan, A. Biegun, K. Bodek, A. Deltuva, E. Epelbaum, M. Eslami-Kalantari, A. C. Fonseca, J. Golak, N. Kalantar-Nayestanaki, H. Kamada, G. Khatri, Da. Kirillov, Di. Kirillov, St. Kliczewski, A. Kozela, M. Kravcikova, H. Machner, A. Magiera, G. Martinska, J. Messchendorp, A. Nogga, W. Parol, A. Ramazani-Moghaddam-Arani, B. J. Roy, H. Sakai, P. U. Sauer, K. Sekiguchi, I. Sitnik, R. Siudak, R. Skibinski, R. Sworst, J. Urban, H. Witała, J. Zejma, *Investigation of the deuteron breakup on proton target in the forward angular region at 130 MeV,* Few-Body Systems 56, 665 (2015).
80. G. Laskaris, X. Yan, J.M. Mueller, W.R. Zimmerman, W. Xiong, M.W. Ahmed, T. Averett, P.-H. Chu, A. Deltuva, C. Flower, A.C. Fonseca, H. Gao, J. Golak, J.N. Heideman, H.J. Karwowski, M. Meziane, P.U. Sauer, R. Skibinski, I.I. Strakovsky, H.R. Weller, H. Witała, and Y.K. Wu, *Measurement of the doubly-polarized ^{3}He(γ, n)pp reaction at 16.5 MeV and its implications for the GDH sum rule,* Physics Letters B 750, 547 (2015).
81. A. Acus, E. Norvaišas, Ya. Shnir. Interaction of hopfions of charge 1 and 2 from product ansatz. EPL (Europhysics Letters) 110 1, 2015, psl. 10007. http://stacks.iop.org/0295-5075/110/i=1/a=10007
82. A. Deltuva, Faddeev-type calculation of (d,n) transfer reactions in three-body nuclear systems, Physical Review C 92, 064613 (2015).
83. S-W Su, S-C Gou, I-K Liu, I B Spielman, L Santos, A Acus, A Mekys, J Ruseckas, G Juzeliūnas. Position-dependent spin–orbit coupling for ultracold atoms. New Journal of Physics 17 3, 2015, psl. 033045. http://stacks.iop.org/1367-2630/17/i=3/a=033045
84. T. Gajdosik, A. Juodagalvis, D. Jurčiukonis, T. Sabonis, Constrains on the Higgs sector from radiative mass generation on neutrinos, Acta Phys. Polon. B46, 11, 2323 (2015).

Publikacijos ISI konferencijų darbuose

1. J. Tamulienė, M. Zelenina. *Ab initio studies of silver precursor for FEBID: Ag(1,1,1,5,5,5 hexafluoropentanedionato)(PMe3)*. Intelligent technologies in logistics and mechatronics systems, ITELMS'2015: proceedings of the 10th international conference, May 21-22, 2015, Panevezys, Lithuania / Edited by Z. Bazaras, V. Kleiza, 286-289 (2015).
2. J. Tamulienė, J. Šarlauskas, S. Bekešienė. *Influence of substitutes to the stability and energetic properties of N-(2,4,6-trinitrophenyl)-1H-1,2,4-triazol-3-amine*. Intelligent technologies in logistics and mechatronics systems, ITELMS'2015: proceedings of the 10th international conference, May 21-22, 2015, Panevezys, Lithuania / Edited by Z. Bazaras, V. Kleiza, 266-269, (2015).
3. G. Kerevičiaus, A. Kupliauskienė. *Classification of the $5p^5nln'l'$ LSJ energy levels of Cs excited by 30 eV electron-impact*. J. Phys.: Conf. Ser. **635**, 052005 (2015).
4. A. Kupliauskienė, P. Bogdanovich, R. Karpuškienė, R. Kisielius, Š. Mikolaitis. *Database of atomic parameters for plasma radiation modeling*. J. Phys.: Conf. Ser. **635**, 052006 (2015).
5. V. Hrytsko, A. Kupliauskienė, A. Borovik. *Ejected-electron spectra of Ba close to*

the $5p^6$ excitation threshold. J. Phys.: Conf. Ser. **635**, 052007 (2015).

6. V. Hrytsko, A. Kupliauskienė, A. Borovik. *Spectoscopic classification of the $5p^5n_1l_1n_2l_2n_3l_3$ autoionizing states in Ba atoms*. J. Phys.: Conf. Ser. **635**, 052008 (2015).
7. V. Jonauskas, A. Kynienė, Š. Masys. *Electron-impact ionization of W^{26+} ion.* J. Phys.: Conf. Ser. **635**, 052058 (2015).
8. V. Jonauskas, A. Kynienė, P. Rynkun, L. Radžiūtė, G. Gaigalas, R. Kisielius, S. Kučas, Š. Masys, G. Merkelis. *Theoretical investigation of spectroscopic properties of W^{27+} ion*. J. Phys.: Conf. Ser. **635**, 052059 (2015).
9. V. Jonauskas, A. Kynienė, Š. Masys, R. Kisielius, S. Kučas, P. Rynkun, L. Radžiūtė, G. Gaigalas, G. Merkelis. *Theoretical study of W^{27+} spectra in EBIT plasma*. J. Phys.: Conf. Ser. **635**, 052090 (2015).

Straipsniai kituose tarptautiniuose žurnaluose ir leidiniuose

1. V.I. Roman, A.V. Kupliauskiene, A.A. Borovik. *Partial ionization cross-sections of rubidium atom by electron impact*. Dopobidi HAH Ukraini, No. 8, 79-83 (2015).

2. Ženovienė, R., Tautvaišienė, G., Nordström, B., and Stonkutė, E., Chemical analysis of a new kinematically identified stellar group, 2015, Memorie della Societa Astronomica Italiana, 86, 362

3. Kupliauskienė, A., Bogdanovich, P., Karpuškiene, R., Kisielius, R., and Mikolaitis, Š., Database of atomic parameters for plasma radiation modeling, 2015, Journal of Physics Conference Series, 635, 052006

4. Kučinskas, A., Dobrovolskas, V., ir Bonifacio, P., „Cool stars as tracers of multiple stellar populations in the Galactic globular cluster 47 Tuc“, Proc. Cool Stars, Stellar Systems & the Sun 18, 321 (2015)

5. Kučinskas, A., Dobrovolskas, V., Bonifacio, P., Caffau, E., Ludwig, H.-G., Steffen, M., ir Spite, M., „Oxygen in the early Galaxy: OH lines as tacers of oxygen abundance in extremelly metal-poor giant stars“, Proc. Cool Stars, Stellar Systems & the Sun 18, 327 (2015)

6. I. Eglitis, K. Černis. Astrometric observations of 5 asteroids (17 positions) in Baldone Astrophysical Observatory (Code 069). M.P.C. 90967 (2015 Jan. 5).

7. K. Černis. Astrometric observations of 66 asteroids (243 positions) in Moletai Astronomical Observatory (Code 152). M.P.C. 90968 (2015 Jan. 5).

8. C. W. Hergenrother, R. P. Boyle, K. Černis. Astrometric observations of 36 asteroids (274 positions) and discovery of 6 new asteroids in Mt. Graham Observatory (Code 290). M.P.C. 90970 (2015 Jan. 5).

9. V. Gineityte, *On Relative Stabilities of Distinct Polyenes. An Extension of the Concept of Conjugated Paths*, arXiv (2015); http://arxiv.org/abs/1501.04734 .

10. V. Juknevičius, *Scaling properties of generalized two-dimensional Kuramoto-Sivashinsky equations*, arXiv (2015) http://arxiv.org/abs/1505.02254 .

11. K. Černis, H. Selevicius. Astrometric observations of four comets (30 positions): C/2014 Q2 (Lovejoy), C/2014 Q3 (Borisov), 201P (LONEOS) and C/2014 R1 (Borisov) in Moletai Astronomical Observatory (Code 152). M.P.E.C. 2015-B177 (Jan.31).

12. T. Gajdosik, D. Jurčiukonis, A. Juodagalvis, Impact of Majorana Neutrinos to Hadronic Tau Decays, 13th International Workshop on Tau Lepton Physics (Tau2014), Nuclear and Particle Physics Proceedings Supplement 260, 257–259 (2015).
13. D. Jurčiukonis, Th. Gajdosik and A. Juodagalvis, A minimal seesaw model with the mu-tau symmetry, PoS(EPS-HEP2015)081 (2015).
14. A Acus, A. Dargys. „Kodėl geometrinė algebra pranašesnė už įprastą vektorinį skaičiavimą“, Gamtamokslinis, matematinis ir technologinis ugdymas: studijos ir mokymas, konferencijos straipsnių rinkinys, LEU leidykla, 2015, psl. 29-38.

15. R. Boyle, K. Černis. Astrometric observations of four comets (10 positions): C/2014 Q2 (Lovejoy) in Mt. Graham Observatory (Code 290). M.P.E.C. 2015-B177 (Jan.31).

16. K. Černis, H. Selevicius. Astrometric observations of four comets in Moletai Astronomical Observatory (Code 152). M.P.C. 91799 (2015 Feb. 3).

17. R. Boyle, K. Černis. Astrometric observations of comets in Mt. Graham Observatory (Code 290). M.P.C. 91799 (2015 Feb. 3).

18. I. Eglitis, K. Černis. Astrometric observations of 4 asteroids (14 positions) in Baldone Astrophysical Observatory (Code 069). M.P.C. 91854 (2015 Feb. 3).

19. K. Černis, H. Selevicius. Astrometric observations of 42 asteroids (160 positions) in Moletai Astronomical Observatory (Code 152). M.P.C. 91855 (2015 Feb. 3).

20. R. Boyle, K. Černis. Astrometric observations of 33 asteroids (212 positions) and discovery of 5 new asteroids in Mt. Graham Observatory (Code 290). M.P.C. 91856 (2015 Feb. 3).

21. K. Černis, H. Selevicius. Astrometric observations of comet C/2014 Q2 (Lovejoy) (16 positions) in Moletai Astronomical Observatory (Code 152). M.P.E.C. 2015-E14 (Mar.3).

22. K. Černis, H. Selevicius. Astrometric observations of comets in Moletai Astronomical Observatory (Code 152). M.P.C. 92402 (2015 Mar. 5).

23. I. Eglitis, K. Černis. Astrometric observations of 6 asteroids (12 positions) in Baldone Astrophysical Observatory (Code 069). M.P.C. 92474 (2015 Mar. 5).

24. K. Černis, J. Zdanavicius, H. Selevicius. Astrometric observations of 110 asteroids (372 positions) in Moletai Astronomical Observatory (Code 152). M.P.C. 92475 (2015 Mar. 5).

25. R. Boyle, K. Černis. Astrometric observations of 12 asteroids (71 positions) in Mt. Graham Observatory (Code 290). M.P.C. 92476 (2015 Mar. 5).

26. K. Černis, H. Selevicius. Astrometric observations of comet C/2015 F3 (SWAN) (5 positions) in Moletai Astronomical Observatory (Code 152). M.P.E.C. 2015-F122 (Mar.27).

27. K. Černis, H. Selevicius. Astrometric observations of comet C/2014 Q2 (Lovejoy and C/2015 F3 (SWAN) (18 positions) in Moletai Astronomical Observatory (Code 152). M.P.E.C. 2015-G03 (Apr.1).

28. K. Černis, H. Selevicius. Astrometric observations of comets in Moletai Astronomical Observatory (Code 152). M.P.C. 93073 (2015 Apr. 4).

29. I. Eglitis, K. Černis. Astrometric observations of 6 asteroids (12 positions) in Baldone Astrophysical Observatory (Code 069). M.P.C. 93114 (2015 Apr. 4).

30. K. Černis, H. Selevicius. Astrometric observations of 45 asteroids (206 positions) in Moletai Astronomical Observatory (Code 152). M.P.C. 93115 (2015 Apr. 4).

31. R. Boyle, K. Černis. Astrometric observations of 17 asteroids (159 positions) and discovery of 2 new asteroids (2015 FN289 and 2015 FO289) in Mt. Graham Observatory (Code 290). M.P.C. 93117 (2015 Apr. 4).

32. T. Lovejoy, K. Černis, B. Zhou. Astrometric observations of comet C/2003 R5 (SOHO) in Moletai Astronomical Observatory (Code 152). M.P.E.C. 2015-K01 (May 16).

33. K. Černis, H. Selevicius. Astrometric observations of comet C/2014 Q2 (Lovejoy) in Moletai Astronomical Observatory (Code 152). M.P.E.C. 2015-K84 (May.24).

34. K. Černis, H. Selevicius. Astrometric observations of comets in Moletai Astronomical Observatory (Code 152). M.P.C. 93678 (2015 Jun. 2).

35. I. Eglitis, K. Černis. Astrometric observations of 14 asteroids (37 positions) in Baldone Astrophysical Observatory (Code 069). M.P.C. 93768 (2015 Jun. 2).

36. K. Černis, H. Selevicius. Astrometric observations of 105 asteroids (360 positions) in Moletai Astronomical Observatory (Code 152). M.P.C. 93769 (2015 Jun. 2).

37. R. Boyle, K. Černis. Astrometric observations of 17 asteroids (110 positions) in Mt. Graham Observatory (Code 290). M.P.C. 93771 (2015 Jun. 2).

38. I. Eglitis, K. Černis. Astrometric observations of 2 asteroids (7 positions) in Baldone Astrophysical Observatory (Code 069). M.P.C. 94439 (2015 Jul. 2).

39. K. Černis. Astrometric observations of 38 asteroids (149 positions) in Moletai Astronomical Observatory (Code 152). M.P.C. 94439 (2015 Jul. 2).

40. R. Boyle, K. Černis. Astrometric observations of 11 asteroids (81 positions) in Mt. Graham Observatory (Code 290). M.P.C. 94440 (2015 Jul. 2).

41. K. Černis. Astrometric observations of comets 67P (Churyumov-Gerasimenko) and C/2014 Q2 (Lovejoy) in Moletai Astronomical Observatory (Code 152). M.P.C. 94747 (2015 Aug. 29).

42. K. Černis. Astrometric observations of 50 asteroids (173 positions) in Moletai Astronomical Observatory (Code 152). M.P.C. 94831 (2015 Aug. 29).

43. K. Černis, H. Selevicius. Astrometric observations of comets 67P (Churyumov-Gerasimenko), C/2015 F4 (Jacques) and C/2014 Q2 (Lovejoy) in Moletai Astronomical Observatory (Code 152). M.P.C. 95316 (2015 Sep. 28).

44. I. Eglitis, K. Černis. Astrometric observations of 8 asteroids (21 positions) in Baldone Astrophysical Observatory (Code 069). M.P.C. 95374 (2015 Sep. 28).

45. K. Černis. Astrometric observations of 41 asteroids (153 positions) in Moletai Astronomical Observatory (Code 152). M.P.C. 95375 (2015 Sep. 28).

46. R. Boyle, K. Černis. Astrometric observations of the asteroid 2015 RZ105 (5 positions) in Mt. Graham Observatory (Code 290). M.P.C. 95376 (2015 Sep. 28).

47. K. Černis. Astrometric observations of comet C/2014 Q2 (Lovejoy) in Moletai Astronomical Observatory (Code 152). M.P.E.C. 2015-N31 (Jul.11).

48. K. Černis. Astrometric observations of comet C/2014 Q2 (Lovejoy) in Moletai Astronomical Observatory (Code 152). M.P.E.C. 2015-Q71 (Aug.27).

49. K. Černis, Selevicius, H. Astrometric observations of comet C/2015 F4 (Jacques), C/2014 Q2 (Lovejoy) and 67P (Churyumov-Gerasimenko) in Moletai Astronomical Observatory (Code 152). M.P.E.C. 2015-S97 (Sep.28).

50. I. Eglitis, K. Černis. Astrometric observations of 25 asteroids (116 positions) and discovery of 5 new asteroids in Baldone Astrophysical Observatory (Code 069). M.P.C. 95856 (2015 Oct. 28).

51.

52. K. Černis. Astrometric observations of 33 asteroids (116 positions) in Moletai Astronomical Observatory (Code 152). M.P.C. 95857 (2015 Oct. 28).

53. R. Boyle, K. Černis. Astrometric observations of the asteroid 2006 QP116 (2 positions) in Mt. Graham Observatory (Code 290). M.P.C. 95858 (2015 Oct. 28).

54. I. Eglitis, K. Černis. Astrometric observations of 11 asteroids (44 positions) and discovery of new asteroid 2015 TG350 in Baldone Astrophysical Observatory (Code 069). M.P.C. 96415 (2015 Nov. 25).

55. K. Černis. Astrometric observations of 50 asteroids (140 positions) in Moletai Astronomical Observatory (Code 152). M.P.C. 96417 (2015 Nov. 25).

56. R. Boyle, M. Trueblood, A. Kazlauskas, L. Lebofsky, K. Černis, R. Crawford. Astrometric observations of 19 asteroids (72 positions) in Mt. Graham Observatory (Code 290). M.P.C. 96418 (2015 Nov. 25).

57. K. Černis, J. Zdanavičius, H. Selevicius. Astrometric observations of comet C/2015 X4 (Elenin), C/2013 US10 (Catalina) and 81P (Wild) in Moletai Astronomical Observatory (Code 152). M.P.E.C. 2015-Y73 (Dec.23).

58. K. Černis, J. Zdanavičius, H. Selevicius. Astrometric observations of comet C/2015 X4 (Elenin), C/2013 US10 (Catalina) and 81P (Wild) in Moletai Astronomical Observatory (Code 152). M.P.C. 96941 (Dec.25).

59. I. Eglitis, K. Černis. Astrometric observations of 11 asteroids (35 positions) in Baldone Astrophysical Observatory (Code 069). M.P.C. 97002 (2015 Dec. 25).

60. K. Černis, J. Zdanavicius, H. Selevicius. Astrometric observations of 35 asteroids (117 positions) in Moletai Astronomical Observatory (Code 152). M.P.C. 97003-97004 (2015 Dec. 25).

61. R. Boyle, M. Trueblood, L. Lebofsky, K. Černis, R. Crawford. Astrometric observations of 6 asteroids (47 positions) in Mt. Graham Observatory (Code 290). M.P.C. 96418 (2015 Dec. 25).

Pranešimų konferencijose tezės ir abstraktai

1. G. Tautvaisiene, A. Drazdauskas, C. Lardo, S. Martell, E. Pancino, and E. Stonkute: The Gaia-ESO Spectroscopic Survey: CNO abundances in giants of the multiple-population globular cluster NGC 1851, IAU General Assembly, 22, 51626, (2015)

2. G. Tautvaisiene, A. Drazdauskas, S. Randich, R. Smiljanic, and S. Mikolaitis: Diagnostics of mixing processes in atmospheres of low-mass stars, IAU General Assembly, 22, 51584, (2015)

3. Kazlauskas, A., Straižys, V., Milašius, K., Černis, K., Boyle, R. P., Zdanavičius, J. Red Clump Giants in the Region of Open Cluster M29, American Astronomical Society, AAS Meeting #225, 2015.01.04-09, Seattle, USA, id.#141.08

4. K. Milašius, V. Straižys, F. J. Vrba, R. P. Boyle, K. Černis, K. Zdanavičius, J. Zdanavičius, A. Kazlauskas, M. Macijauskas, R. Janusz. Tarpžvaigždinės ekstinkcijos tyrimas padrikojo žvaigždžių spiečiaus NGC6913 (M29) kryptimi. Lietuvos nacionalinė fizikos konferencija, 2015.06.17-19, Vilnius.

5. V. Čepas, R. P. Boyle, J. Zdanavičius, V. Straižys, K. Zdanavičius, U. Munari, A. S. Kazlauskas, M. Maskoliūnas. Daugiaspalvė žvaigždžių fotometrija ir spektroskopija dulkių debesų LDN1399, LDN1400 ir LDN1402, esančių Žirafos žvaigždyne kryptimi. Lietuvos nacionalinė fizikos konferencija, 2015.06.17-19, Vilnius.

6. J. Zdanavičius, R.P. Boyle, K. Zdanavičius, M. Maskoliūnas, A. Kazlauskas, K. Černis, K. Milašius. Interstellar extinction in the vicinity of the dark cloud LDN183 in Serpens. Gaia-ESO Survey Third Science Meeting (GES2015) 1-4 December 2015, Vilnius, Lithuania.

7. M. Macijauskas, V. Straižys, R. P. Boyle, F. J. Vrba, J. Zdanavičius, K. Zdanavičius, M. Maskoliūnas, Interstellar Extinction in the Direction of the Open Cluster NGC 2244. Gaia-ESO Survey Third Science Meeting (GES2015) 1-4 December 2015, Vilnius, Lithuania.

8. V. Čepas, R.P. Boyle, J. Zdanavičius, V. Straižys, K. Zdanavičius, U. Munari, A.S. Kazlauskas, M. Maskoliūnas The dark cloud TGU H994 P1 (LDN 1399, LDN 1400 and LDN 1402): interstellar extinction and distance. Gaia-ESO Survey Third Science Meeting (GES2015) 1-4 December 2015, Vilnius, Lithuania.

9. K. Werner, T. Rauch, J. R. Crespo Lopez-Urrutia, J. W. Kruk, S. Kučas, P. Quinet. Trans-iron elements in the hot DO-type white dwarf RE0503−289 and the prospective search for technetium. 19th European White Dwarf Workshop, Astrophysical Society of the Pacific Con. Ser. 493, 27 (2015).
10. P. Bogdanovičius, G. Gaigalas, A. Kupliauskienė. Atomų teorijos plėtra ir taikymai. Lietuvos nacionalinė fizikos konferencija, (2015 m. birželio 17-19, Vilnius), Programa ir pranešimų tezės, p. 20 (2015).
11. V. Jonauskas, A. Kynienė, J. Koncevičiūtė, Š. Masys, R. Kisielius, S. Kučas, G. Merkelis, G. Gaigalas, P. Rynkun, L. Radžiūtė. Vienelektronė ir dvielektronė jonizacija elektronais. 41-oji Lietuvos nacionalinė fizikos konferencija: programa ir pranešimų tezės, Vilnius, 2015 m. birželio 17-19 d., p. 39.
12. Š. Masys, V. Jonauskas. Elastic properties of LaNiO3: an employment of PBE-based functionals. 15th European Conference on Solid State Chemistry, Vienna, Austria, 23-26 August 2015. Program, book of abstracts, p. 207.
13. Š. Masys, V. Jonauskas. On the identification of processes that impact the electronic structure of SrRuO3. Advanced materials and technologies 2015: 17th international conference-school, Palanga, Lithuania, 27-31 August 2015. Book of abstracts, p. 85.
14. V. Jonauskas, A. Kynienė, Š. Masys, R. Kisielius, G. Gaigalas, S. Kučas, G. Merkelis, L. Radžiūtė, P. Rynkun. Emission of W27+ ion in EBIT plasma. 1st EPS Conference on Plasma Diagnostics, Frascati, Italy, 14-17 April 2015. Book of abstracts, p.138.
15. Š. Masys, V. Jonauskas. PBE šeimos tankio funkcionalų taikymas SrRuO3 kristalinės sandaros tyrimui. 41-oji Lietuvos nacionalinė fizikos konferencija: programa ir pranešimų tezės, Vilnius, 2015 m. birželio 17-19 d., p. 245.
16. A. Kynienė, V. Jonauskas, Š. Masys. Sužadinimų į aukštesnius W26+ jono sluoksnius įtaka jonizacijos elektronais skerspjūviams. 41-oji Lietuvos nacionalinė fizikos konferencija: programa ir pranešimų tezės, Vilnius, 2015 m. birželio 17-19 d., p. 368.
17. R. Karpuškienė, P. Bogdanovičius, R. Kisielius. Properties of metastable levels in Rh-like ions. 41-oji Lietuvos nacionalinė fizikos konferencija: programa ir pranešimų tezės, Vilnius, 2015 m. birželio 17-19 d., p. 370.
18. P. Bogdanovičius, R. Karpuškienė, R. Kisielius. The radiative lifetimes for the levels of W38+ - W43+ ions. 41-oji Lietuvos nacionalinė fizikos konferencija: programa ir pranešimų tezės, Vilnius, 2015 m. birželio 17-19 d., p. 371.
19. R. Kisielius, P. Bogdanovich, G.J. Ferland, V.P. Kulkarni. Atomic data need for astrophysical spectra modeling. 41-oji Lietuvos nacionalinė fizikos konferencija:

programa ir pranešimų tezės, Vilnius, 2015 m. birželio 17-19 d., p. 378.
20. L. Baliulytė, J. Tamulienė. Quantum mechanical study of the proline molecule fragmentation by low energy electrons. Naujametė fizikos konferencija, 2015 m. sausio 2-3 d. : pranešimų tezės, p. 30, 2015.
21. L. Baliulytė, J. Tamulienė. Prolino fragmentacijos dėl lėtų elektronų poveikio tyrimas. Chemistry and chemical technology 2015: international conference of Lithuanian Chemical Society, dedicated to Professor Vitas Daukšas on his 80th birth anniversary, Vilnius, Lithuania, January 23, 2015 : programme and proceedings of the international conference, p. 34-35, 2015.
22. L. Baliulytė, J. Tamulienė. Production of m=28 a.m.u. fragments from the tryptophan, proline and valine molecules by low energy electrons. Open readings 2015: 58th scientific conference for students of physics and natural sciences, Vilnius, March 24-27: programme and abstracts, p. 254, 2015.
23. J. Tamulienė, M. Zelenina. Ab initio studies of silver precursor for FEBID: Ag(1,1,1,5,5,5 hexafluoropentanedionato)(PMe3) and Ag(PMe3)2. Chemistry for Electron-Induced Nanofabrication: 2nd Annual meeting of COST Action CM 1301, CELINA, 6-9 May, 2015, Bratislava, Slovakia: book of abstracts, p. 14, 2015.
24. L. Baliulytė, J. Tamulienė. Valino fragmentacijos dėl lėtų elektronų poveikio tyrimas. 41-oji Lietuvos nacionalinė fizikos konferencija: programa ir pranešimų tezės, Vilnius, 2015 m. birželio 17-19 d., p. 132.
25. J. Tamulienė, N. Karalius, A. Kulbickas, V. Lapeika, L. Rastenienė, D. R. Vaišnoras. Nanodeimantoidų su įvestais defektais magnetinių savybių tyrimas kvantinės chemijos metodais. 41-oji Lietuvos nacionalinė fizikos konferencija: programa ir pranešimų tezės, Vilnius, 2015 m. birželio 17-19 d., p. 219.
26. V. Skachkova, J. Tamulienė, V. Stemitsky. Quantum mechanic investigations stability of the Co18On (n=1, 2...10) nanoparticles. Нано-дизайн, технологии, компьютерное моделирование = Nano-design, technology, computer, simulations: тезисы докладов XVI международной научной конференции, p. 42-43, 2015.
27. T. Breczko, J. Tamulienė, R. Grechiskin. Investigation of geometric and electronic structures of Heusler alloys: cubic and tetragonal lattice. Нано-дизайн, технологии, компьютерное моделирование = Nano-design, technology, computer, simulations: тезисы докладов XVI международной научной конференции, p. 67, 2015.
28. V. Hrytsko, G. Kerevičius, O. Borovik, A. Kupliauskienė. Elektronais sužadintų Ba atomų 5p5n1l1n2l2n3l3 LSJ būsenų energijos spektro tyrimas. 41-oji Lietuvos nacionalinė fizikos konferencija: programa ir pranešimų tezės, Vilnius, 2015 m. birželio 17-19 d., p. 150 (2015).
29. L. Radžiūtė, G. Gaigalas, P. Jönsson, J. Ekman. Multiconfiguration Dirac-Hartree-Fock computation of energy spectrum of ions: Cu XV, Zn XVI, Ga XVII, and Ge XVIII. 41-oji Lietuvos nacionalinė fizikos konferencija: programa ir pranešimų tezės, Vilnius, 2015 m. birželio 17-19 d., p. 147 (2015).
30. G. Gaigalas, D. Kato, L. Radžiūtė, P. Rynkun, P. Jönsson. Crystal-field splitting of Er3+ ion in the Er2O3 compound. 41-oji Lietuvos nacionalinė fizikos konferencija: programa ir pranešimų tezės, Vilnius, 2015 m. birželio 17-19 d., p. 148 (2015).
31. P. Rynkun, G. Gaigalas, P. Jönsson. Hyperfine structure calculations for the 1s22s22p2 3P term in neutral Carbon. 41-oji Lietuvos nacionalinė fizikos konferencija: programa ir pranešimų tezės, Vilnius, 2015 m. birželio 17-19 d., p. 150 (2015).
32. P. Rynkun, G. Gaigalas, P. Jönsson, C. F. Fischer, M. Godefroid. Theoretical study of hyperfine structure of ground state in neutral Carbon. 47th EGAS (European group on atomic systems) Conference, Book of abstracts, July 14–17, 2015, Riga, Latvia,

vol. 39D, p. 112.

33. P. Rynkun, G. Gaigalas, D. Kato, L. Radžiūtė, P. Jönsson. Stark splitting effects for Er3+ in Er2O3. EGAS: 47th conference of the European Group on Atomic Systems, Riga, Latvia, July 14-17, 2015: book of abstracts. Ser.: Europhysics Conference Abstracts. Riga: University of Latvia Press, 2015, vol. 39D p. 113.

Pranešimai konferencijose

1. Ženovienė R., Stonkutė E., Tautvaišienė G., Nordström B., Stellar substructures in the Geneva-Copenhagen survey, „41-oji Lietuvos Nacionalinė Fizikos konferencija“, Vilnius, Lietuva, 2015 birželio 17-19 d., žodinis pranešimas.

2. Ženovienė R., Stonkutė E., Tautvaišienė G., Nordström B., Chemical imprints of the Galctic disc formation, „Gaia-ESO Survey Third Science Meeting“, Vilnius, Lietuva, 2015 gruodžio 1-4 d., žodinis pranešimas.

3. Tautvaišienė G. The peculiar globular cluster NGC 1851: high-resolution spectroscopy of 45 red giants, „Gaia-ESO Survey Third Science Meeting“, Vilnius, Lietuva, 2015 gruodžio 1-4 d., žodinis pranešimas.

4. E. Stonkutė ir kt., “The Gaia-ESO Survey: the selection function of the Milky Way field stars”, “Gaia-ESO Survey Third Science Meeting, Vilnius, Lietuva, 2015 m. gruodžio 1 – 4 d., žodinis pranešimas.

5. Mikolaitis Š., Tautvaišienė G., Kordopatis G., Stonkutė E., Drazdauskas A, Smiljanic R., Valentini M, Puzeras E., CNO elemental distribution in the Galactic discs, „Gaia-ESO Survey Third Science Meeting“, Vilnius, Lietuva, 2015 gruodžio 1-4 d., stendinis pranešimas.

6. Tautvaišienė G., Mikolaitis Š., Kordopatis G., Stonkutė E., Drazdauskas A, Smiljanic R., Valentini M, Puzeras E., Magrini L. CNO elemental distribution in the Galactic discs, EWASS, Tenerifė, Ispanija, 2015 m. liepos 22-26 d., stendinis pranešimas.

7. Tautvaišienė G., Smiljanic R., Bagdonas V., Drazdauskas A., Mikolaitis Š., Magrini L., The role of asymptotic giant branch stars in the chemical evolution of the Galaxy, EWASS, Tenerifė, Ispanija, 2015 m. liepos 22-26 d., stendinis pranešimas.

8. Tautvaišienė G., Nordstrom B., Stonkute E., Ženovienė R., Kinematic substructures in the solar neigbourhood // EWASS, Tenerifė, Ispanija, 2015 m. liepos 22-26 d., stendinis pranešimas.

9. Puzeras E., DESSE+SAGE: a new software for a spectral line measurement // GAIA-ESO Survey Third Science Meeting, Vilnius (Lietuva), 2015 m. gruodžio 1-4 d., stendinis pranešimas.

10. Tautvaišienė G., Drazdauskas A., Randich S., , Smiljanic R., Mikolaitis Š., Diagnostics of mixing processes in atmospheres of low-mass stars, IAU XXIX General Assembly, 2015, Honolulu, JAV, 2015 rugpjūčio 3-14 d., stendinis pranešimas.

11. V. Čepas, Progress report of investigation of dark clouds and star formation activity in Camelopardalis dust ring:The dark cloud TGU H994 P1, Vatican Observatory Photometry Workshop „Science Results from Vilnius Calibrated Photometry, 2015 m. rugsėjo 8 – 10 d., Castel Gandolfo, Italija.

12. A. Kazlauskas, On the accuracy of photometric spectral classification, Vatican Observatory Photometry Workshop „Science Results from Vilnius Calibrated Photometry, 2015 m. rugsėjo 8 – 10 d., Castel Gandolfo, Italija.

13. M. Macijauskas, Investigation of star-forming regions in Monoceros, Vatican Observatory Photometry Workshop „Science Results from Vilnius Calibrated Photometry, 2015 m. rugsėjo 8 – 10 d., Castel Gandolfo, Italija.

14. M. Maskoliūnas, Identification of red clump giants based on the data of 2MASS and WISE photometry: the determination of their extinctions and distances in the direction of the clouds LDN 1399, LDN 1400, LDN 1402, Vatican Observatory Photometry Workshop „Science Results from Vilnius Calibrated Photometry, 2015 m. rugsėjo 8 – 10 d., Castel Gandolfo, Italija.

15. K. Milašius, K. Černis: Interstellar extinction in the direction to the open cluster IC 4996, Vatican Observatory Photometry Workshop „Science Results from Vilnius Calibrated Photometry, 2015 m. rugsėjo 8 – 10 d., Castel Gandolfo, Italija.

16. J. Zdanavičius, Serpens dark cloud L183, Vatican Observatory Photometry Workshop „Science Results from Vilnius Calibrated Photometry, 2015 m. rugsėjo 8 – 10 d., Castel Gandolfo, Italija.

17. E. Stonkutė ir kt., The Gaia-ESO Survey: the selection function of the Milky Way field stars", konferencijoje "Rainbows on the Southern Sky: science and legacy value of the ESO Public Surveys and Large Programmes", 2015 m. spalio 5 – 9 d., European Southern Observatory, Garching, Vokietija, stendinis pranešimas.

18. A. Drazdauskas, G. Tautvaišienė, Š. Mikolaitis, G. Barisevičius, E. Puzeras, E. Stonkutė, Y. Chorniy and GES colaborators, The Gaia-ESO Survey: CNO abundances in open clusters of our Galaxy, "Multi-Object Spectroscopy in the Next Decade: Big Questions, Large Surveys and Wide Fields", Santa Cruz de La Palma (Ispanija), 2015 m. kovo 2-6 d., stendinis pranešimas

19. A. Drazdauskas, G. Tautvaišienė, S. Randich, Š. Mikolaitis, Cheminio maišymosi procesų tyrimas mažos masės padrikųjų spiečių žvaigždėse, "41-oji Lietuvos Nacionalinė Fizikos Konferencija", Vilnius, 2015 m. birželio 17-19 d., stendinis pranešimas

20. V. Bagdonas, G. Tautvaišienė, R. Smiljanic, A. Drazdauskas, Š. Mikolaitis, Sunkiųjų cheminių elementų gausa padrikųjų spiečių raudonosiose milžinėse, "41-oji Lietuvos Nacionalinė Fizikos Konferencija", Vilnius, 2015 m. birželio 17-19 d., stendinis pranešimas

21. A. Drazdauskas, R. Smiljanic, G. Tautvaišienė and V. Bagdonas, CNO abundances in low mass stars of open clusters, "Gaia-ESO Survey Third Science Meeting", Vilnius,

2015 m. gruodžio 1-4 d., stendinis pranešimas.

22. V. Bagdonas, R. Smiljanic, G. Tautvaišienė, and Š. Mikolaitis, Abundances of neutron-capture elements in open clusters, "Gaia-ESO Survey Third Science Meeting", Vilnius, 2015 m. gruodžio 1-4 d., stendinis pranešimas.

23. E. Stonkutė ir kt., "Stellar multiplicity in high-resolution spectroscopic surveys", "The Milky Way's History: 592. WE-Heraeus-Seminar", Bad Honnef, Vokietija, 2015 m. birželio 1 – 5d., stendinis pranešimas.

24. E. Stonkutė ir kt., "Stellar multiplicity in high-resolution spectroscopic surveys", "Astronomdagarna 2015", Upsala, Švedija, 2015 m. spalio 22 – 24 d., stendinis pranešimas.
25. R. Kisielius. *ADAMANT: a platform for data users and producers*. Tarptautinė konferencija „*23rd Meeting of the Atomic and Molecular Data Centres*", IAEA, Viena, Austrija.
26. A. Deltuva, Reactions in the four-nucleon system above breakup threshold, 21st International Conference on Few-Body Problems in Physics, Čikaga,(JAV), 2015.05.18-22.
27. A. Deltuva, Four-nucleon reactions, 41-oji Lietuvos nacionalinė fizikos konferencija, 2015.06.17-19.
28. D. Jurčiukonis, T. Gajdosik ir A. Juodagalvis, Lengvųjų neutrinų masių ir osciliacinių kampų įvertinimas modelyje su vienu papildomu sunkiuoju neutrinu, 41-oji Lietuvos nacionalinė fizikos konferencija, Vilnius (Lietuva), 2015.06.17-19.
29. D. Jurčiukonis, Th. Gajdosik ir A. Juodagalvis, A minimal seesaw model with the mu-tau symmetry, aukštųjų energijų fizikos konferencijoje HEP 2015, Viena (Austrija), 2015.07.22 – 29.
30. D. Jurčiukonis, E. Norvaišas, Nukleonų magnetiniai formos faktoriai SU(3) Skyrme modelyje. 41-oji Lietuvos nacionalinė fizikos konferencija, Vilnius (Lietuva), 2015.06.17-19.
31. A.Juodagalvis on behalf of the Lithuanian Team and other enthusiasts, „CMS TV as an outreach tool in Lithuania („Particle fever" and other activities included)", CMS Week Communications session #2, https://indico.cern.ch/event/441165/.
32. A.Juodagalvis, „Protono partonų pasiskirstymo funkcijų tikslinimas tiriant Drell-Yan procesą", (angl. „Improved precision of proton partonic functions due to the Drell-Yan process measurement"), Lietuvos nacionalinė fizikos konferencija LNFK41, Vilnius, 2015.06.17-19, Programa ir pranešimų tezės, p.140.
33. T.Sabonis and T.Gajdosik, „One loop contributions to the light neutrino masses", Lietuvos nacionalinė fizikos konferencija LNFK41, Vilnius, 2015.06.17-19, Programa ir pranešimų tezės, p.145.
34. J.R.Umaras, P.Juodsnukis ir A.Juodagalvis, „Calibration of the hadron calorimeter of the CERN CMS detector", 58th International conference for students of physics and natural sciences „Open Readings 2015", Vilnius, 2015.03.15-18. Book of abstracts, p.191.

Mokslo populiarinimo straipsniai, knygos

1. E. Pakštienė, Astronomijos ir astronautikos įdomybės, „Lietuvos Dangus 2016" p. p.

3-43;
2. E. Pakštienė, Plutono tyrimų su „New Horizons“ siurprizai, „Lietuvos Dangus 2016” p. p. 45-51;
3. G. Tautvaišienė, Tarptautinės astronomų sąjungos suvažiavimas, „Lietuvos Dangus 2016” p. p. 52-53;
4. K. Černis, 2015 metais atrasti asteroidai, „Lietuvos Dangus 2016” p. p. 66-72;
5. G. Tautvaišienė, Molėtų astronomijos observatorijoje pradeda darbą modernus spektrografas, „Lietuvos Dangus 2016” p. p. 73-77;
6. G. Tautvaišienė, Molėtų observatorijoje vasaros mokykla astrobiologams, „Lietuvos Dangus 2016” p. p. 88-89;
7. R. Ženovienė, 11-oji tarptautinė Tyrėjų naktis, „Lietuvos Dangus 2016” p. 90;
8. A. Kazlauskas, Datos ir jubiliejai 2016 metais, „Lietuvos Dangus 2016” p. p. 99-113;
9. V. Straižys, Prieš 50 metų (tęsinys), „Lietuvos Dangus 2016” p. p. 114-119;
10. A. Kazlauskas, Saulės ir Mėnulio užtemimai, „Lietuvos Dangus 2016” p. p. 120-124;
11. A. Kazlauskas, Planetų stebėjimo sąlygos, „Lietuvos Dangus 2016” p. p. 125-150;
12. A. Kazlauskas, Saulės ir Mėnulio tekos ir laidos momentai bei pusiaujinės koordinatės – http://mao.tfai.vu.lt/mao/
13. E. Pakštienės straipsnis „Kiek dar staigmenų pateiks Saulė?“, spausdintas lrt.lt
14. E. Pakštienės interviu „Kaip atrodytų žmogus, traukiamas juodosios skylės“, spausdintas delfi.lt.
15. G. Tautvaišienė, Spektriniai žvaigždžių stebėjimai bus vykdomi ir Lietuvoje // Spectrum – 2015 m. Nr. 2, p. 11-13.
16. G. Tautvaišienė, Stebėsime didžiausią per 16 metų dalinį Saulės užtemimą // Balsas.lt. – 2015 m. kovo 9 d.
17. G. Tautvaišienė, Stebėsime didžiausią per 16 metų dalinį Saulės užtemimą // BNS Spaudos centras – 2015 m. kovo 9 d.
18. G. Tautvaišienė, Saulės užtemimas – įspūdingas, tačiau pavojingas reginys // it.lrytas.lt – 2015 m. kovo 18 d.
19. G. Tautvaišienė, Kaip nustatomas laikas, kada teka ir leidžiasi Saulė ? // LRT radijo laida „Ryto garsai“, LRT.lt
20. G. Tautvaišienės interviu, “KTU viešėjusi tarptautinės fundamentinės ir taikomosios fizikos sąjungos viceprezidentė: svarbu atrasti gyvybei tinkamas planetas”// KTU naujienos, 2015 m. kovo 17 d.
21. G. Tautvaišienės interviu, Penktadienį stebėsime dalinį Saulės užtemimą // bernardinai.lt, 2015 m. kovo 19 d.
22. G. Tautvaišienės interviu, Per kiek laiko apsisuka Saulė // kasdien.lt, 2015 m. kovo 16 d.
23. G. Tautvaišienė, Saulės pašvaistė ryškiai nuspalvino Lietuvos dangų // BNS Spaudos centras, 2015 m. kovo 21 d.
24. R. Karazija, A. Bernotas. *Akademiko Zenono Rokaus Rudziko jubiliejaus renginiai*. Lietuvos mokslų akademijos žinios 2015, Nr. 4, p. 17-19. [Kartu su A. Bernotu];
25. R. Karazija. *Adolfas Jucys*. Enciklopedija Lietuvai ir pasauliui, 2015 m.
26. R. Karazija. *Adolfo Jucio teorinės fizikos mokykla*. Enciklopedija Lietuvai ir pasauliui, 2015 m.

Mokslinių publikacijų sąrašas CERN tyrimų tematika

Ataskaitos data: 2016-03-01

Laikotarpis: 2015-09-01 - 2016-03-01

Objekto tipas:

Pasirinktos publikacijų rūšys *:

Pasirinktos mokslo kryptys: 02P

Pasirinktos mokslo sritys:

Institucija: Vilniaus universitetas (įmonės kodas: 211950810)

Padalinys:

Autorius: Andrius Juodagalvis

1. STRAIPSNIAI

1.1. Mokslinės informacijos instituto (ISI) pagrindinio sąrašo leidiniuose

1 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Combined measurement of the Higgs Boson mass in pp collisions at sqrt(s)=7 and 8 TeV with the ATLAS and CMS experiments // Physical review letters. College Park: American Physical Society. ISSN: 0031-9007, eISSN: 1079-7114. 2015, Vol. 114, No. 19 [žiūrėta 2015 m. gruodžio 10 d.], Art. No. 191803. Prieiga per internetą: <http://journals.aps.org/prl/pdf/10.1103/PhysRevLett.114.191803>.

2 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Search for third-generation scalar leptoquarks in the tτ channel in proton-proton collisions at √s = 8 TeV // Journal of high energy physics. New York: Springer. ISSN: 1126-6708. 2015, Vol. 7 [žiūrėta 2016 m. vasario 23 d.], Art.No. 42 [1-44]. Prieiga per internetą: <http://dx.doi.org/10.1007/JHEP07(2015)042>.

3 CMS Collaboration [A.Juodagalvis]. Angular coefficients of Z bosons produced in pp collisions at √s = 8 TeV and decaying to μ+μ− as a function of transverse momentum and rapidity // Physics letters. B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693. 2015, Vol. 750 [žiūrėta 2016 m. vasario 23 d.], p. 154-175. Prieiga per internetą: <http://dx.doi.org/10.1016/j.physletb.2015.08.061>.

4 CMS Collaboration [A.Juodagalvis]. Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at √s = 7 TeV // European physical journal. C. Berlin: Springer Berlin Heidelberg. ISSN: 1434-6044, eISSN: 1434-6052. 2015, Vol. 75 [žiūrėta 2016 m. vasario 22 d.], Art. No. 288. Prieiga per internetą: <http://link.springer.com/article/10.1140%2Fepjc%2Fs10052-015-3499-1>.

5 CMS Collaboration [A.Juodagalvis]. Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at √s = 8 TeV // European physical journal. C. Berlin: Springer Berlin Heidelberg. ISSN: 1434-6044, eISSN: 1434-6052. 2015, Vol. 75 [žiūrėta 2016 m. vasario 24 d.], Art. No. 325. Prieiga per internetą: <http://link.springer.com/article/10.1140%2Fepjc%2Fs10052-015-3533-3>.

6 CMS Collaboration [A.Juodagalvis]. Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV // Physical review. D. College Park: American Physical Society. ISSN: 1550-7998, eISSN: 1550-2368. 2015, Vol. 92, No. 1 [žiūrėta 2016 m. vasario 23 d.], Art. No. 012004. Prieiga per internetą: <http://journals.aps.org/prd/pdf/10.1103/PhysRevD.92.012004>.

7 CMS Collaboration [A.Juodagalvis]. Differential cross section measurements for the production of a W boson in association with jets in proton-proton collisions at √s = 7 TeV // Physics Letters B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 741 [žiūrėta 2016 m. sausio 19 d.], p. 12-37. Prieiga per internetą: <http://www.sciencedirect.com/science/article/pii/S0370269314008740>.

8 CMS Collaboration [A.Juodagalvis]. Distributions of topological observables in inclusive three- and four-jet events in pp collisions at √s = 7 TeV // European Physical Journal C. Berlin: Springer. ISSN: 1434-6044, eISSN: 1434-6052. 2015, Vol. 75 [žiūrėta 2016 m. vasario 24 d.], Art.No. 302 [1-26]. Prieiga per internetą: <http://dx.doi.org/10.1140/epjc/s10052-015-3491-9>.

9 CMS Collaboration [A.Juodagalvis]. Evidence for collective multi-particle correlations in pPb collisions // Physical review letters. College Park: American Physical Society. ISSN: 0031-9007, eISSN: 1079-7114. 2015, Vol. 115 [žiūrėta 2016 m. vasario 24 d.], Art.No. 012301 [1-17]. Prieiga per internetą:

10 CMS Collaboration [A.Juodagalvis]. Identification techniques for highly boosted W bosons that decay into hadrons // Journal of high energy physics. New York: Springer. ISSN: 1126-6708. 2014, Vol.2014, no 12 [žiūrėta 2016 m. sausio 11 d.], ar. no 017 [1-45]. Prieiga per internetą: <http://dx.doi.org/10.1007/JHEP12(2014)017>.

11 CMS Collaboration [A.Juodagalvis]. Long-range two-particle correlations of strange hadrons with charged particles in pPb and PbPb collisions at LHC energies // Physics letters. B. Amsterdam: Elsevier BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 742 [žiūrėta 2016 m. sausio 19 d.], p. 200-224. Prieiga per internetą: <http://dx.doi.org/10.1016/j.physletb.2015.01.034>.

12 CMS Collaboration [A.Juodagalvis]. Measurement of diffractive dissociation cross sections in pp collisions at √s =7 TeV // Physical Review. D. College Park: American Physical Society. ISSN: 1550-7998. 2015, Vol. 92 [žiūrėta 2016 m. vasario 23 d.], Art.No. 012003 [1-32]. Prieiga per internetą: <http://dx.doi.org/10.1103/PhysRevD.92.012003>.

13 CMS Collaboration [A.Juodagalvis]. Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at √s=8 TeV // European physical journal. C. Berlin , Heidelberg: Springer. ISSN: 1434-6044, eISSN: 1434-6052. 2015, Vol. 75 [žiūrėta 2016 m. sausio 19 d.], Art. No. 66 [1-35]. Prieiga per internetą: <http://dx.doi.org/10.1140/epjc/s10052-014-3232-5>.

14 CMS Collaboration [A.Juodagalvis]. Measurement of jet multiplicity distributions in tt¯ production in pp collisions at √s = 7 TeV // European Physical Journal C. Berlin: Springer Berlin Heidelberg. ISSN: 1434-6044, eISSN: 1434-6052. 2014, Vol. 74, Iss. 10 [žiūrėta 2016 m. sausio 18 d.], Art. No. 3014. Prieiga per internetą: <http://dx.doi.org/10.1140/epjc/s10052-014-3014-0>.

15 CMS Collaboration [A.Juodagalvis]. Measurement of J/ψ and ψ(2S) prompt double-differential cross sections in pp collisions at √s = 7 TeV // Physical review letters. College Park: American Physical Society. ISSN: 0031-9007, eISSN: 1079-7114. 2015, Vol. 114, No. 19 [žiūrėta 2016 m. vasario 24 d.], Art.No. 191802. Prieiga per internetą: <http://journals.aps.org/prl/pdf/10.1103/PhysRevLett.114.191802>.

16 CMS Collaboration [A.Juodagalvis]. Measurement of prompt ψ(2S) to J/ψ yield ratios in PbPb and pp collisions at √sNN=2.76 TeV // Physical Review Letters. College Park: American Physical Society. ISSN: 0031-9007, eISSN: 1079-7114. 2014, Vol. 113, No. 26 [žiūrėta 2016 m. sausio 18 d.], Art. No. 262301. Prieiga per internetą: <http://dx.doi.org/10.1103/PhysRevLett.113.262301>.

17 CMS Collaboration [A.Juodagalvis]. Measurement of the cross section ratio σ(tt¯bb¯)/σ(tt¯jj) in pp collisions at √s = 8 TeV // Physics letters. B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 746 [žiūrėta 2016 m. vasario 23 d.], p. 132-153. Prieiga per internetą: <http://www.sciencedirect.com/science/article/pii/S0370269315003263>.

18 CMS Collaboration [A.Juodagalvis]. Measurement of the differential cross section for top quark pair production in pp collisions at √s = 8 TeV // European physical journal. C. New York: Springer. ISSN: 1434-6044. 2015, Vol. 75 [žiūrėta 2016 m. vasario 23 d.], Art.No. 542 [1-39]. Prieiga per internetą: <http://dx.doi.org/10.1140/epjc/s10052-015-3709-x>.

19 CMS Collaboration [A.Juodagalvis]. Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range // European Physical Journal C. Berlin: Springer Berlin Heidelberg. ISSN: 1434-6044, eISSN: 1434-6052. 2015, Vol. 75 [žiūrėta 2016 m. vasario 23 d.], Art. No. 186. Prieiga per internetą: <http://link.springer.com/article/10.1140%2Fepjc%2Fs10052-015-3376-y>.

20 CMS Collaboration [A.Juodagalvis]. Measurement of the pp→ZZ production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at √s=8TeV // Physics Letters B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 740 [žiūrėta 2016 m. sausio 19 d.], p. 250-272. Prieiga per internetą: <http://www.sciencedirect.com/science/article/pii/S0370269314008697>.

21 CMS Collaboration [A.Juodagalvis]. Measurement of the production cross section ratio σ(χb2(1P))/σ(χb1(1P)) in pp collisions at √s = 8 TeV // Physics letters. B. Amsterdam: Elsevier BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 743 [žiūrėta 2016 m. sausio 19 d.], p. 383-402. Prieiga per internetą: <http://dx.doi.org/10.1016/j.physletb.2015.02.048>.

22 CMS Collaboration [A.Juodagalvis]. Measurement of the ratio of the production cross sections times branching fractions of B c ± → J/ψπ ± and B± → J/ψK ± and B(B±c→J/ψπ±π±π□)/B(B±c→J/ψπ±) in pp collisions at s√=7 TeV // Journal of high energy physics. New York: Springer New York LLC. ISSN: 1126-6708. 2015, Iss. 1 [žiūrėta 2016 m. vasario 22 d.], Art. No. 63. Prieiga per internetą: <http://link.springer.com/article/10.1007%2FJHEP01%282015%29063>.

23 CMS Collaboration [A.Juodagalvis]. Measurement of the $t\bar{t}$ production cross section in pp collisions at √s =8 TeV in dilepton final states containing one τ lepton // Physics Letters B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693, eISSN: 1873-2445. 2014, Vol. 739 [žiūrėta 2016 m. sausio 18 d.], p. 23-43. Prieiga per internetą: <http://www.sciencedirect.com/science/article/pii/S0370269314007552>.

24 CMS Collaboration [A.Juodagalvis]. Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at √s = 8 TeV // Journal of high energy physics. Berlin, Heidelberg: Springer. ISSN: 1029-8479, eISSN: 1029-8479. 2015, Vol. 1 [žiūrėta 2016 m. sausio 19 d.], Art. No. 053 [1-35]. Prieiga per internetą: <http://dx.doi.org/10.1007/JHEP01(2015)053>.

25 CMS Collaboration [A.Juodagalvis]. Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton-proton collisions at 8 TeV // Physics letters. B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693. 2015, Vol. 749 [žiūrėta 2016 m. vasario 23 d.], p. 187-209. Prieiga per internetą: <http://dx.doi.org/10.1016/j.physletb.2015.07.065>.

26 CMS Collaboration [A.Juodagalvis]. Measurement of the Zγ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings // Journal of high energy physics. New York: Springer. ISSN: 1126-6708. 2015, Vol. 4 [žiūrėta 2016 m. vasario 23 d.], Art.No. 164 [1-40]. Prieiga per internetą: <http://dx.doi.org/10.1007/JHEP04(2015)164>.

27 CMS Collaboration [A.Juodagalvis]. Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at √s = 8 TeV // European physical journal. C.. Berlin: Springer Berlin Heidelberg. ISSN: 1434-6044, eISSN: 1434-6052. 2015, Vol. 75 [žiūrėta 2016 m. vasario 23 d.], Art. No. 147. Prieiga per internetą: <http://link.springer.com/article/10.1140%2Fepjc%2Fs10052-015-3364-2>.

28 CMS Collaboration [A.Juodagalvis]. Measurements of jet multiplicity and differential production cross sections of Z+jets events in proton-proton collisions at √s =7 TeV // Physical Review D. College Park: American Physical Society. ISSN: 1550-7998, eISSN: 1550-2368. 2015, Vol. 91 [žiūrėta 2016 m. sausio 19 d.], Art. No. 052008 [1-26]. Prieiga per internetą: <http://dx.doi.org/10.1103/PhysRevD.91.052008>.

29 CMS Collaboration [A.Juodagalvis]. Measurements of the ZZ production cross sections in the 2ℓ2ν channel in proton-proton collisions at √s = 7 and 8 TeV and combined constraints on triple gauge couplings // European physical journal. C. New York: Springer. 2015, Vol. 75 [žiūrėta 2016 m. vasario 23 d.], Art.No. 511 [1-26]. Prieiga per internetą: <http://dx.doi.org/10.1140/epjc/s10052-015-3706-0>.

30 CMS Collaboration [A.Juodagalvis]. Measurements of the Υ(1S), Υ(2S), and Υ(3S) differential cross sections in pp collisions at √s = 7 TeV // Physics letters. B.. Amsterdam: Elsevier Science BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 749 [žiūrėta 2016 m. vasario 24 d.], p. 14-34. Prieiga per internetą: <http://www.sciencedirect.com/science/article/pii/S037026931500547X>.

31 CMS Collaboration [A.Juodagalvis]. Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at √sNN = 5.02 TeV // European Physical Journal C. Berlin: Springer. ISSN: 1434-6044, eISSN: 1434-6052. 2015, Vol. 75 [žiūrėta 2016 m. vasario 24 d.], Art.No. 237 [1-25]. Prieiga per internetą: <http://dx.doi.org/10.1140/epjc/s10052-015-3435-4>.

32 CMS Collaboration [A.Juodagalvis]. Observation of the rare B0s→μ+μ− decay from the combined analysis of CMS and LHCb data // Nature. London: Nature Publishing Group. ISSN: 0028-0836, eISSN: 1476-4687. 2015, Vol. 522 [žiūrėta 2016 m. vasario 23 d.], p. 68-72. Prieiga per internetą: <http://www.nature.com/nature/journal/v522/n7554/full/nature14474.html>.

33 CMS Collaboration [A.Juodagalvis]. Performance of electron reconstruction and selection with the CMS detector in proton-proton collisions at √s = 8 TeV // Journal of Instrumentation. Bristol: IOP Publishing Ltd.. ISSN: 1748-0221. 2015, Vol. 10, No. 6 [žiūrėta 2016 m. vasario 24 d.], Art.No. P06005. Prieiga per internetą: <http://iopscience.iop.org/article/10.1088/1748-0221/10/06/P06005/pdf>.

34 CMS Collaboration [A.Juodagalvis]. Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at √s =8 TeV // Journal of Instrumentation. Bristol: IOP Publishing Ltd.. ISSN: 1748-0221. 2015, Vol. 10, No. 8 [žiūrėta 2016 m. vasario 24 d.], Art.No. P08010. Prieiga per internetą: <http://iopscience.iop.org/article/10.1088/1748-0221/10/08/P08010/pdf>.

35 CMS Collaboration [A.Juodagalvis]. Performance of the CMS missing transverse momentum reconstruction in pp data at √s = 8 TeV // Journal of Instrumentation. Bristol: IOP Publishing Ltd.. ISSN: 1748-0221. 2015, Vol. 10 [žiūrėta 2016 m. vasario 22 d.], Art. No. P02006. Prieiga per internetą: <http://iopscience.iop.org/article/10.1088/1748-0221/10/02/P02006/pdf>.

36 CMS Collaboration [A.Juodagalvis]. Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV // European physical journal. C.. Berlin: Springer Berlin Heidelberg. ISSN: 1434-6044, eISSN: 1434-6052. 2015, Vol. 75 [žiūrėta 2016 m. vasario 23 d.], Art. No. 212. Prieiga per internetą: <http://link.springer.com/article/10.1140%2Fepjc%2Fs10052-015-3351-7>.

37 CMS Collaboration [A.Juodagalvis]. Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at √s = 8 TeV // Physical Review. D. College Park: American Physical Society. ISSN: 1550-7998, eISSN: 1550-2368. 2015, Vol. 92 [žiūrėta 2016 m. vasario 22 d.], Art.No. 112001 [1-17]. Prieiga per internetą: <http://dx.doi.org/10.1103/PhysRevD.92.112001>.

38 CMS Collaboration [A.Juodagalvis]. Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV // Physical Review D. College Park: American Physical Society. ISSN: 1550-7998, eISSN: 1550-2368. 2014, Vol. 90, Iss. 9 [žiūrėta 2016 m. sausio 18 d.], Art. No. 092007. Prieiga per internetą: <http://dx.doi.org/10.1103/PhysRevD.90.092007>.

39 CMS Collaboration [A.Juodagalvis]. Searches for heavy Higgs bosons in two-Higgs-doublet models and for t→ch decay using multilepton and diphoton final states in pp collisions at 8 TeV // Physical Review D. College Park: American Physical Society. ISSN: 1550-7998, eISSN: 1550-2368. 2014, Vol. 90, No. 11 [žiūrėta 2016 m. sausio 18 d.], Art. No. 112013. Prieiga per internetą: <http://dx.doi.org/10.1103/PhysRevD.90.112013>.

40 CMS Collaboration [A.Juodagalvis]. Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV // Physics letters B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 745 [žiūrėta 2016 m. vasario 23 d.], p. 5-28. Prieiga per internetą: <http://www.sciencedirect.com/science/article/pii/S0370269315002452>.

41 CMS Collaboration [A.Juodagalvis]. Searches for supersymmetry using the MT2 variable in hadronic events produced in pp collisions at 8 TeV // Journal of high energy physics. Berlin: Springer Berlin Heidelberg. ISSN: 1029-8479. 2015, Vol. 5 [žiūrėta 2016 m. vasario 24 d.], Art. No. 78. Prieiga per internetą: <http://link.springer.com/article/10.1007%2FJHEP05%282015%29078>.

42 CMS Collaboration [A.Juodagalvis]. Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method // European physical journal. C.. Berlin: Springer Berlin Heidelberg. ISSN: 1434-6044, eISSN: 1434-6052. 2015, Vol. 75 [žiūrėta 2016 m. vasario 24 d.], Art. No. 251. Prieiga per internetą: <http://link.springer.com/article/10.1140%2Fepjc%2Fs10052-015-3454-1>.

43 CMS Collaboration [A.Juodagalvis]. Search for a standard model-like Higgs boson in the μ+μ− and e+e− decay channels at the LHC // Physics Letters B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 744 [žiūrėta 2016 m. vasario 22 d.], p. 184-207. Prieiga per internetą: <http://www.sciencedirect.com/science/article/pii/S0370269315002117>.

44 CMS Collaboration [A.Juodagalvis]. Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at √s = 8 TeV // European physical journal. C. Berlin, Heidelberg: Springer. ISSN: 1434-6044, eISSN: 1434-6052. 2015, Vol. 75 [žiūrėta 2016 m. sausio 19 d.], Art. No. 235 [1-25]. Prieiga per internetą: <http://dx.doi.org/10.1140/epjc/s10052-015-3451-4>.

45 CMS Collaboration [A.Juodagalvis]. Search for decays of stopped long-lived particles produced in proton-proton collisions at √s = 8 TeV // European physical journal. C.. Berlin: Springer Berlin Heidelberg. ISSN: 1434-6044, eISSN: 1434-6052. 2015, Vol. 75 [žiūrėta 2016 m. vasario 24 d.], Art. No. 151. Prieiga per internetą: <http://link.springer.com/article/10.1140%2Fepjc%2Fs10052-015-3367-z>.

46 CMS Collaboration [A.Juodagalvis]. Search for disappearing tracks in proton-proton collisions at √s = 8 TeV // Journal of high energy physics. Heidelberg: Springer. ISSN: 1029-8479. 2015, Vol.1 [žiūrėta 2016 m. vasario 23 d.], Art. No. 96. Prieiga per internetą: <http://link.springer.com/article/10.1007%2FJHEP01%282015%29096>.

47 CMS Collaboration [A.Juodagalvis]. Search for displaced supersymmetry in events with an electron and a muon with large impact parameters // Physical review letters. College Park: American Physical Society. ISSN: 0031-9007, eISSN: 1079-7114. 2015, Vol.114 [žiūrėta 2016 m. sausio 19 d.], Art. No. 061801 [1-15]. Prieiga per internetą: <http://dx.doi.org/10.1103/PhysRevLett.114.061801>.

48 CMS Collaboration [A.Juodagalvis]. Search for heavy Majorana neutrinos in μ±μ±+jets events in proton-proton collisions at √s = 8 TeV // Physics Letters B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693, eISSN: 1873-

[žiūrėta 2016 m. vasario 23 d.], p. 144-166. Prieiga per internetą: <http://www.sciencedirect.com/science/article/pii/S0370269315005006>.

49 CMS Collaboration [A.Juodagalvis]. Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at √s = 8 TeV // European Physical Journal C. Berlin: Springer Berlin Heidelberg. ISSN: 1434-6044, eISSN: 1434-6052. 2014, Vol. 74, Iss. 11 [žiūrėta 2016 m. sausio 18 d.], Art. No. 3149. Prieiga per internetą: <http://dx.doi.org/10.1140/epjc/s10052-014-3149-z>.

50 CMS Collaboration [A.Juodagalvis]. Search for lepton-flavour-violating decays of the Higgs boson // Physics letters. B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 749 [žiūrėta 2016 m. vasario 24 d.], p. 337-362. Prieiga per internetą: <http://dx.doi.org/10.1016/j.physletb.2015.07.053>.

51 CMS Collaboration [A.Juodagalvis]. Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at √s = 8 TeV // Physical Review D. College Park: American Physical Society. ISSN: 1550-7998, eISSN: 1550-2368. 2015, Vol. 91, No. 1 [žiūrėta 2016 m. vasario 23 d.], Art. No. 012007. Prieiga per internetą: <http://journals.aps.org/prd/pdf/10.1103/PhysRevD.91.012007>.

52 CMS Collaboration [A.Juodagalvis]. Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at √s = 8 TeV // Physical Review D. College Park: American Physical Society. ISSN: 1550-7998, eISSN: 1550-2368. 2015, Vol. 91, No. 5 [žiūrėta 2016 m. vasario 23 d.], Art. No. 052012. Prieiga per internetą: <http://journals.aps.org/prd/pdf/10.1103/PhysRevD.91.052012>.

53 CMS Collaboration [A.Juodagalvis]. Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at √s= 8 TeV // Journal of high energy physics. Berlin: Springer Berlin Heidelberg. ISSN: 1029-8479, eISSN: 1029-8479. 2014, Vol. 2014, Iss. 8 [žiūrėta 2016 m. sausio 18 d.], Art. No. 173. Prieiga per internetą: <http://dx.doi.org/10.1007/JHEP08(2014)173>.

54 CMS Collaboration [A.Juodagalvis]. Search for monotop signatures in proton-proton collisions at √s =8 TeV // Physical review letters. College Park: American Physical Society. ISSN: 0031-9007, eISSN: 1079-7114. 2015, Vol. 114 [žiūrėta 2016 m. sausio 19 d.], Art.No. 101801 [1-16]. Prieiga per internetą: <http://journals.aps.org/prl/pdf/10.1103/PhysRevLett.114.101801>.

55 CMS Collaboration [A.Juodagalvis]. Search for narrow high-mass resonances in proton-proton collisions at √s = 8 TeV decaying to Z and Higgs bosons // Physics letters B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 748 [žiūrėta 2016 m. vasario 24 d.], p. 255-277. Prieiga per internetą: <http://dx.doi.org/10.1016/j.physletb.2015.07.011>.

56 CMS Collaboration [A.Juodagalvis]. Search for new resonances decaying via WZ to leptons in proton-proton collisions at √s=8 TeV // Physics letters. B. Amsterdam: Elsevier BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 740 [žiūrėta 2016 m. sausio 19 d.], p. 83-104. Prieiga per internetą: <http://dx.doi.org/10.1016/j.physletb.2014.11.026>.

57 CMS Collaboration [A.Juodagalvis]. Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at √s = 8 TeV // Physics Letters B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 747 [žiūrėta 2016 m. vasario 23 d.], p. 98-119. Prieiga per internetą: <http://www.sciencedirect.com/science/article/pii/S0370269315002889>.

58 CMS Collaboration [A.Juodagalvis]. Search for pair production of third-generation scalar leptoquarks and top squarks in proton-proton collisions at √s = 8 TeV // Physics Letters B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693, eISSN: 1873-2445. 2014, Vol. 739 [žiūrėta 2016 m. sausio 18 d.], p. 229-249. Prieiga per internetą: <http://www.sciencedirect.com/science/article/pii/S0370269314007965>.

59 CMS Collaboration [A.Juodagalvis]. Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at √s = 8 TeV // Journal of high energy physics. Berlin: Springer Berlin Heidelberg. ISSN: 1126-6708. 2015, Vol. 4 [žiūrėta 2016 m. vasario 23 d.], Art. No. 25. Prieiga per internetą: <http://link.springer.com/article/10.1007%2FJHEP04%282015%29025>.

60 CMS Collaboration [A.Juodagalvis]. Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at √s = 8 TeV // Journal of high energy physics. New York: Springer. ISSN: 1126-6708. 2015, Vol.4 [žiūrėta 2016 m. vasario 23 d.], Art.No. 124 [1-41]. Prieiga per internetą: <http://dx.doi.org/10.1007/JHEP04(2015)124>.

61 CMS Collaboration [A.Juodagalvis]. Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at √s = 8 TeV // Physical review. D. College Park: American Physical Society. ISSN: 1550-7998, eISSN: 1550-2368. 2015, Vol. 91 [žiūrėta 2016 m. sausio 19 d.], Art.No. 092005

Prieiga per internetą: <http://dx.doi.org/10.1103/PhysRevD.91.092005>.

62 CMS Collaboration [A.Juodagalvis]. Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton-proton collisions at √s = 8 TeV // Physics Letters B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 746 [žiūrėta 2016 m. vasario 22 d.], p. 79-99. Prieiga per internetą: <http://www.sciencedirect.com/science/article/pii/S0370269315002853>.

63 CMS Collaboration [A.Juodagalvis]. Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at √s = 8 TeV // Physical Review D. College Park: American Physical Society. ISSN: 1550-7998, eISSN: 1550-2368. 2015, Vol. 91, No. 5 [žiūrėta 2016 m. vasario 23 d.], Art.No. 052009. Prieiga per internetą: <http://journals.aps.org/prd/pdf/10.1103/PhysRevD.91.052009>.

64 CMS Collaboration [A.Juodagalvis]. Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8 TeV // Physics letters. B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693. 2015, Vol. 749 [žiūrėta 2016 m. vasario 23 d.], p. 560-582. Prieiga per internetą: <http://dx.doi.org/10.1016/j.physletb.2015.08.047>.

65 CMS Collaboration [A.Juodagalvis]. Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV // Physics letters. B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 743 [žiūrėta 2016 m. vasario 23 d.], p. 503-525. Prieiga per internetą: <http://www.sciencedirect.com/science/article/pii/S037026931500180X>.

66 CMS Collaboration [A.Juodagalvis]. Search for supersymmetry using razor variables in events with b-tagged jets in pp collisions at √s = 8 TeV // Physical review. D.. College Park: American Physical Society. ISSN: 1550-7998, eISSN: 1550-2368. 2015, Vol. 91, No. 5 [žiūrėta 2016 m. vasario 24 d.], Art. No. 052018. Prieiga per internetą: <http://journals.aps.org/prd/abstract/10.1103/PhysRevD.91.052018>.

67 CMS Collaboration [A.Juodagalvis]. Search for supersymmetry with razor variables in pp collisions at √s = 7 TeV // Physical Review D. College Park: American Physical Society. ISSN: 1550-7998, eISSN: 1550-2368. 2014, Vol. 90, No. 11 [žiūrėta 2016 m. sausio 18 d.], Art. No. 112001. Prieiga per internetą: <http://dx.doi.org/10.1103/PhysRevD.90.112001>.

68 CMS Collaboration [A.Juodagalvis]. Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at √s = 8 TeV // Journal of high energy physics. New York: Springer. ISSN: 1126-6708. 2015, Vol. 6 [žiūrėta 2016 m. vasario 23 d.], Art.No. 121 [1-39]. Prieiga per internetą: <http://dx.doi.org/10.1007/JHEP06(2015)121>.

69 CMS Collaboration [A.Juodagalvis]. Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure // Journal of high energy physics. New York: Springer. ISSN: 1126-6708. 2015, Vol. 6 [žiūrėta 2016 m. vasario 23 d.], Art.No. 080 [1-48]. Prieiga per internetą: <http://dx.doi.org/10.1007/JHEP06(2015)080>.

70 CMS Collaboration [A.Juodagalvis]. Study of final-state radiation in decays of Z bosons produced in pp collisions at 7 TeV // Physical Review D. College Park: American Physical Society. ISSN: 1550-7998, eISSN: 1550-2368. 2015, Vol. 91 [žiūrėta 2016 m. vasario 24 d.], Art.No. 092012 [1-24]. Prieiga per internetą: <http://dx.doi.org/10.1103/PhysRevD.91.092012>.

71 CMS Collaboration [A.Juodagalvis]. Study of vector boson scattering and search for new physics in events with two same-sign leptons and two jets // Physical Review Letters. College Park: American Physical Society. ISSN: 0031-9007, eISSN: 1079-7114. 2015, Vol. 114, No. 5 [žiūrėta 2016 m. vasario 22 d.], Art. No. 051801. Prieiga per internetą: <http://dx.doi.org/10.1103/PhysRevLett.114.051801>.

72 CMS Collaboration [A.Juodagalvis]. Study of W boson production in pPb collisions at √sNN =5.02 TeV // Physics letters. B. Amsterdam: Elsevier Science BV. ISSN: 0370-2693. 2015, Vol. 750 [žiūrėta 2016 m. vasario 23 d.], p. 565-586. Prieiga per internetą: <http://dx.doi.org/10.1016/j.physletb.2015.09.057>.

73 CMS Collaboration [A.Juodagalvis]. Study of Z production in PbPb and pp collisions at √sNN = 2.76 TeV in the dimuon and dielectron decay channels // Journal of high energy physics. Berlin, Heidelberg: Springer. ISSN: 1029-8479, eISSN: 1029-8479. 2015, Vol.3 [žiūrėta 2016 m. sausio 19 d.], Art. No. 022 [1-40]. Prieiga per internetą: <http://dx.doi.org/10.1007/JHEP03(2015)022>.

74 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Comparison of the Z/γ*+jets to γ+jets cross sections in pp collisions at √s = 8 TeV // Journal of high energy physics. New York: Springer. ISSN: 1126-6708. 2015, Vol. 10 [žiūrėta 2016 m. vasario 23 d.], Art.No. 128 [1-46]. Prieiga per internetą:

75 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Evidence for transverse momentum and pseudorapidity dependent event plane fluctuations in PbPb and pPb collisions // Physical review C (Nuclear physics). College Park: American Physical Society. ISSN: 0556-2813, eISSN: 1089-490X. 2015, Vol. 92 [žiūrėta 2016 m. vasario 24 d.], Art.No. 034911 [1-26]. Prieiga per internetą: <http://dx.doi.org/10.1103/PhysRevC.92.034911>.

76 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Limits on the Higgs boson lifetime and width from its decay to four charged leptons // Physical Review. D. College Park: American Physical Society. ISSN: 1550-7998, eISSN: 1550-2368. 2015, Vol. 92 [žiūrėta 2016 m. vasario 22 d.], Art.No. 072010 [1-28]. Prieiga per internetą: <http://dx.doi.org/10.1103/PhysRevD.92.072010>.

77 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at √s= 2.76 TeV // Journal of high energy physics. New York: Springer. ISSN: 1126-6708. 2015, Vol. 9 [žiūrėta 2016 m. vasario 22 d.], Art.No. 137 [1-33]. Prieiga per internetą: <http://dx.doi.org/10.1007/JHEP09(2015)137>.

78 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Pseudorapidity distribution of charged hadrons in proton-proton collisions at √s= 13 TeV // Physics Letters B. Amsterdam: Elsevier BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 751 [žiūrėta 2016 m. vasario 22 d.], p. 143-163. Prieiga per internetą: <http://dx.doi.org/10.1016/j.physletb.2015.10.004>.

79 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus] Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at sqrt(s)= 8 TeV // Journal of high energy physics. New York: Springer. eISSN: 1029-8479. 2015, Iss. 6 [žiūrėta 2015 m. gruodžio 10 d.], Art. No. 116. Prieiga per internetą: <http://link.springer.com/article/10.1007%2FJHEP06%282015%29116>.

80 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Search for a charged Higgs boson in pp collisions at √s= 8 TeV // Journal of high energy physics. New York: Springer. ISSN: 1126-6708. 2015, Vol. 11 [žiūrėta 2016 m. vasario 22 d.], Art. No. 18 [1-64]. Prieiga per internetą: <http://dx.doi.org/10.1007/JHEP11(2015)018>.

81 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons // Journal of high energy physics. New York: Springer. ISSN: 1126-6708. 2015, Vol. 10 [žiūrėta 2016 m. vasario 23 d.], Art.No. 144 [1-52]. Prieiga per internetą: <http://dx.doi.org/10.1007/JHEP10(2015)144>.

82 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Search for a light charged Higgs boson decaying to $c\bar{s}$ in pp collisions at √s= 8 TeV // Journal of high energy physics. New York: Springer. ISSN: 1126-6708. 2015, Vol. 12 [žiūrėta 2016 m. vasario 22 d.], Art. No. 178 [1-37]. Prieiga per internetą: <http://dx.doi.org/10.1007/JHEP12(2015)178>.

83 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Search for a pseudoscalar boson decaying into a Z boson and the 125GeV Higgs boson in l+l-b-b final states // Physics Letters B. Amsterdam: Elsevier BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 748 [žiūrėta 2015 m. gruodžio 10 d.], p. 221-243. Prieiga per internetą: <http://www.sciencedirect.com/science/article/pii/S0370269315005201>.

84 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at √s = 8 TeV // Physics Letters B. Amsterdam: Elsevier BV. ISSN: 0370-2693, eISSN: 1873-2445. 2015, Vol. 750 [žiūrėta 2016 m. vasario 22 d.], p. 494-519. Prieiga per internetą: <http://dx.doi.org/10.1016/j.physletb.2015.09.062>.

85 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at √s = 8 TeV // Journal of high energy physics. New York: Springer. ISSN: 1126-6708. 2015, Vol. 9 [žiūrėta 2016 m. vasario 23 d.], Art.No. 201 [1-37]. Prieiga per internetą: <http://dx.doi.org/10.1007/JHEP09(2015)201>.

86 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks // Journal of high energy physics. New York: Springer. eISSN: 1029-8479. 2015, Vol. 11 [žiūrėta 2016 m. vasario 22 d.], Art.No. 71 [1-43]. Prieiga per internetą: <http://dx.doi.org/10.1007/JHEP11(2015)071>.

87 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at √s= 8 TeV // Journal of high energy physics. New York: Springer. ISSN: 1126-6708. 2015, Vol. 11 [žiūrėta 2016 m. vasario 02 d.], Art. No. 189 [1-42]. Prieiga per internetą: <http://dx.doi.org/10.1007/JHEP11(2015)189>.

88 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Search for supersymmetry with photons in pp collisions at √s = 8 TeV // Physical Review. D. College Park: American Physical Society. ISSN: 1550-7998, eISSN: 1550-2368. 2015, Vol. 92 [žiūrėta 2016 m. vasario 22 d.], Art.No. 072006 [1-23]. Prieiga per internetą: <http://dx.doi.org/10.1103/PhysRevD.92.072006>.

89 CMS Collaboration [A.Juodagalvis, J.V.Vaitkus]. Search for the standard model Higgs boson produced through vector boson fusion and decaying to $b\bar{b}$ // Physical Review. D. College Park: American Physical Society. ISSN: 1550-7998, eISSN: 1550-2368. 2015, Vol. 92 [žiūrėta 0206 m. vasario 22 d.], Art.No. 032008 [1-26]. Prieiga per internetą: <http://dx.doi.org/10.1103/PhysRevD.92.032008>.

90 Th.Gajdosik, A.Juodagalvis, D.Jurčiukonis, T.Sabonis. Constraints on the Higgs sector from radiative mass generation on neutrinos // Acta physica Polonica B. Krakow: Jagiellonian University. ISSN: 0587-4254, eISSN: 1509-5770. 2015, Vol. 46, No. 11 [žiūrėta 2016 m. sausio 05 d.], p. 2323-2327. Prieiga per internetą: <http://www.actaphys.uj.edu.pl/_cur/store/vol46/pdf/v46p2323.pdf>.