

Steven Duplij's publications 2008-2012

1. S. Duplij, Polyadic Systems, Representations And Quantum Groups, **Journal of Kharkov National University**, ser. Nuclei, Particles and Fields. - 2012. - V. 1017.- № 3(55).- P. 28–59.
2. S. Duplij, A new Hamiltonian formalism for singular Lagrangian theories, **Journal of Kharkov National University**, ser. Nuclei, Particles and Fields. - 2011. - V. 969.- № 3(51).- P. 34–39.
3. 4. S. Duplij and G.Ch. Kurinnoj, Representations, quivers and their supersymmetric generalizations, *Journal of Kharkov National University*, ser. Nuclei, Particles and Fields. - 2011. - V. 969.- № 3(51).- P. 81–93.
4. S. Duplij, On super Cuntz algebras, in “**Quantum electrodynamics and statistical physics**”, 2011, KIPT, Kharkov, Ukraine, p. 21.
5. S. Duplij and G.Ch. Kurinnoj, On quivers, Hopf quivers, their representations and supersymmetric generalizations, in “**Quantum electrodynamics and statistical physics**”, 2011, KIPT, Kharkov, Ukraine, p. 40.
6. S.A. Duplij, G.A. Goldin, V.M. Shtelen, On an approach to generalizing classical nonlinear conformal electrodynamics, in “**Quantum electrodynamics and statistical physics**”, KIPT, Kharkov, Ukraine, p. 47.
7. S. Duplij, Generalized duality, Hamiltonian formalism and new brackets, preprint Los Alamos, arXiv: 1002.1565v5, 2010, 24 pp.
8. S. Duplij, S. Sinel'shchikov, *Classification of $U_q(sl_2)$ -module algebra structures on the quantum plane*, **Journal of Mathematical Physics, Analysis, Geometry**, 2010.-V. 6.- №4.- P. 21-46.
9. S.A. Duplij, A. T. Kotvytskiy, D.V. Kryuchkov, *Problem of cosmology: dark energy or modified gravity*, in Humboldt-Kolleg “**Philosophy of Science**” September 8-11, 2010, Odessa, Ukraine, P. 15-16.
10. S. Duplij, S. Sinel'shchikov, *On $U_q(sl_2)$ -actions on the quantum plane*, **Acta Polytechnica**, 2010, V. 4.- P. 21-38.
11. S. Duplij, S. Sinel'shchikov, *Quantum enveloping algebras with von Neumann regular Cartan-like generators and the Pierce decomposition*, **Communications in Mathematical Physics**, - 2009. - V. 287. - № 4. - P. 769-785.
12. S. Duplij, *Analysis of constrained systems using the Clairaut equation*. - In Proceedings of **5th Mathematical Physics Meeting: Summer School in Modern Mathematical Physics**, 6 - 17 July 2008, Belgrade, Ed. B. Dragovich, Z. Rakic, Institute of Physics, Belgrade, 2009, p. 217-225.
13. S. Duplij, S. Sinel'shchikov, *Quantum universal enveloping algebras with idempotents and the Pierce decomposition*, **Journal of Kharkov National**

- University, ser. Nuclei, Particles and Fields. - 2009. - V. **845**.- № 1(41).- P. 3–15.
- 14.S. Duplij, S. Sinel'shchikov, *Quantum enveloping algebras, von Neumann regularity and the Pierce decomposition*. - In Proceedings of **5th Mathematical Physics Meeting: Summer School in Modern Mathematical Physics**, 6 - 17 July 2008, Belgrade, Ed. B. Dragovich, Z. Rakic, Institute of Physics, Belgrade, 2009, p. 241-265.
 - 15.S. Duplij, A. Kotvitskiy, On generalized interaction term and Pauli-Fierz models in multigravity, In: Humboldt-Kolleg "**Humboldt Cosmos: Science and Society**", November, 2009, Kiev, p.17-18.
 - 16.S.A. Duplij, G.A. Goldin, V.M. Shtelen, Generalizations of nonlinear and supersymmetric classical electrodynamics, **J. Phys. A: Math. Theor.** – 2008. – V.41.- P. 304007.
 - 17.D. Duplij, S. Duplij, Determinative degree, trianders and physical properties of nucleotides, In: Humboldt-Kolleg "**Actual Science in Ukraine: Humboldt-Club Ukraine General Assembly**", January 11-12, 2008, Kiev, p.8-10.
 - 18.S. Duplij, G.A. Goldin, V. Shtelen, Nonlinear classical electrodynamics and supersymmetry, In: Humboldt-Kolleg "**Actual Science in Ukraine: Humboldt-Club Ukraine General Assembly**", January 11-12, 2008, Kiev, p.11-12.
 - 19.S. Duplij, A. Kotvitskiy, Interaction term structure in multigravity, In: Humboldt-Kolleg "**Actual Science in Ukraine: Humboldt-Club Ukraine General Assembly**", January 11-12, 2008, Kiev, p.13-14.
 - 20.S. Duplij, I.I. Shapoval, Fundamentals of quantum computations, In: Humboldt-Kolleg "**Actual Science in Ukraine: Humboldt-Club Ukraine General Assembly**", January 11-12, 2008, Kiev, p.15.

<http://homepages.spa.umn.edu/~duplij>