Grigori Olshanski. Publications

(unitary representations of p-adic and real reductive groups; Lie group and Lie algebra theory; unitary representations of infinite-dimensional groups; algebraic combinatorics; random point processes; infinite-dimensional Markov processes)

- 1. Topology of the space of unitary representations of a nilpotent Lie group. Funct. Anal. Appl. 3, no. 4 (1969), 340-342.
- 2. On the Frobenius reciprocity theorem. Funct. Anal. Appl. 3, no. 4 (1969), 295-302.
- 3. On intertwining operators for induced representations of reductive *p*-adic groups. Russian Math. Surveys 27, no. 6 (1972), 243-244.
- 4. On unitary representations of the groups GL(2) and GU(2) over a totally disconnected locally compact quaternion field. Funct. Anal. Appl. 7, no. 1 (1973), 73-75.
- 5. Intertwining operators and complementary series in the class of representations of the general linear group over a locally compact division algebra induced from parabolic subgroups. Math. USSR–Sbornik 22 (1974), 217–255.
- 6. On representations of the group of automorphisms of a tree. Uspehi Mat. Nauk. 30, no. 3 (1975), 169-170 (Russian).
- 7. Classification of irreducible representations of groups of automorphisms of Bruhat–Tits trees. Funct. Anal. Appl. 11, no. 1 (1977), 26-34.
- 8. Unitary representations of the infinite-dimensional classical groups $U(p, \infty)$, $SO(p, \infty)$, $Sp(p, \infty)$ and the corresponding motion groups. Soviet Math. Doklady 19 (1978), 220-224.
- 9. Unitary representations of the infinite-dimensional classical groups $U(p, \infty)$, $SO(p, \infty)$, $Sp(p, \infty)$ and the corresponding motion groups. Funct. Anal. Appl. 12 (1979), 185-195.
- 10. Construction of unitary representations of infinite-dimensional classical groups. Soviet Math. Doklady 21 (1980), 66-70.
- 11. Description of unitary representations with highest weight for the groups $U(p,q)^{\sim}$. Funct. Anal. Appl. 14 (1981), 190-200.
- 12. Invariant cones in Lie algebras, Lie semigroups, and the holomorphic discrete series. Funct. Anal. Appl. 15 (1982), 275-285.
- 13. Invariant orderings in simple Lie groups: the solution to E.B. Vinberg's problem. Funct. Anal. Appl. 16 (1983), 80-81.
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- 15. Convex cones in symmetric Lie algebras, Lie semigroups, and invariant causal (order) structures on pseudo-Riemannian symmetric spaces. Soviet Math. Dokl. 26 (1982), 97-101.
- 16. Complex Lie semigroups, Hardy spaces, and the Gelfand- Gindikin program. In: Topics in group theory and homological algebra. Yaroslavl University Press,

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- 17. Spherical functions and characters on the group $U(\infty)^X$. Russian Math. Surveys 37, no. 2 (1982), 233-234.
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- 19. Infinite-dimensional classical groups of finite **R**-rank: description of representations and asymptotic theory. Funct. Anal. Appl. 18, no. 1 (1984), 22-34.
- 20. (with M. C. Prati) Extremal weights of finite-dimensional representations of the Lie superalgebra $gl_{n/m}$. Il Nuovo Cimento 85A, no. 1 (1985), 1-18.
- 21. Unitary representations of the infinite symmetric group: a semigroup approach. In: Representations of Lie groups and Lie algebras (A.A. Kirillov, ed.). Budapest, Akad. Kiado, 1985, 181-198.
- 22. Unitary representations of the group $SO(\infty, \infty)$ as limits of unitary representations of the groups $SO(n, \infty)$ as $n \to \infty$. Funct. Anal. Appl. 20, no. 4 (1987), 292-301.
- 23. Yangians and universal enveloping algebras. Zapiski Nauchn. Semin. LOMI, vol. 164 (1987), 142-150 (Russian); English translation: J. Soviet Math. 47, no. 2 (1989), 2466-2473.
- 24. Extension of the algebra U(g) for infinite-dimensional classical Lie algebras g, and the Yangians Y(gl(m)). Soviet Math. Dokl. 36, no. 3 (1988), 569-573.
- 25. Determinism of Lévy random fields and unitary representations of infinite-dimensional groups. Russian Math. Surveys 43, no. 2 (1988), 183-184.
- 26. Method of holomorphic extensions in the representation theory of infinite-dimensional classical groups. Funct. Anal. Appl. 22, no. 4 (1989), 273-285.
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- 29. (with M. L. Nazarov and Yu. A. Neretin) Semi-groupes engendrés par la représentation de Weil du groupe symplectique de dimension infinie. Comptes Rendus Acad. Sci. Paris. Sér. 1, 309, no. 7 (1989), 443-446.
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- 53. (with Alexander Molev) Centralizer construction for twisted Yangians, Selecta Mathematica 6 (2000), no. 3, 269–317.
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