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Research interest: Mathematical physics; integrable systems, noncommutative spaces, Lie algebras.

Recent publications:

- [1] S. Meljanac, S. Kresic-Juric, "Generalized kappa-deformed spaces, star-products and thier realizations", **J. Phys. A: Math. Theor.** **41**, 235203 (2008).
- [2] T. Fukuyama, K. Kamimura, S. Kresic-Juric, S. Meljanac, "Gauge transformations and symmetries of integrable systems", **J. Phys. A: Math. Theor.** **40**, 12227-12241 (2007).
- [3] S. Meljanac, M. Stojic, S. Kresic-Juric, "Covariant realizations of kapa-deformed Euclidean space", **Eur. Phys. J. C** **51**, 229-240 (2007).
- [4] S. Kresic-Juric, "On the Birkhoff factorization problem for the Heisenberg magnet and nonlinear Schroedinger equaitons", **J. Math. Phys.** **47**, 063501 (2006).
- [5] S. Kresic-Juric, D. Madej, F. Santosa, "Applications of hidden Markov models in bar code decoding", **Pattern Rec. Lett.** **27**, 1665-1672 (2006).

Selected publications:

- [1] S. Meljanac, S. Kresic-Juric, "Generalized kappa-deformed spaces, star-products and thier realizations", **J. Phys. A: Math. Theor.** **41**, 235203 (2008).
- [2] T. Fukuyama, K. Kamimura, S. Kresic-Juric, S. Meljanac, "Gauge transformations and symmetries of integrable systems", **J. Phys. A: Math. Theor.** **40**, 12227-12241 (2007).
- [3] S. Kresic-Juric, "On the Birkhoff factorization problem for the Heisenberg magnet and nonlinear Schroedinger equaitons", **J. Math. Phys.** **47**, 063501 (2006).
- [4] M.R. Adams, S. Kresic-Juric, "Hamiltonians and zero-curvature equations for integrable partial differential equations", **J. Math. Phys.** **42** (1), 213-224 (2001).
- [5] S. Kresic-Juric, "A loop group approach to the C. Neumann problem and Moser- Veselov factorization", **J. Math. Phys.** **40** (10), 5014-5025 (1999).