Zoran Škoda

Associate Professor, Department of Teachers' Education, University of Zadar
Associate Professor, Faculty of Natural Sciences, University of Hradec Králové
External Associate, Theoretical Physics Division, Institute Ruđer Bošković
PhD, University of Wisconsin-Madison, 2002

Research interest: Mathematical physics. Quantum groups and noncommutative algebraic geometry. Descent theory, sheaves and cohomology.

Recent publications:

[1] S. Meljanac, Z. Škoda, M. Stojić, *„Lie algebra type noncommutative phase spaces are Hopf algebroids“,* **Lett. Math. Phys. 107**:3, 475–503 (2017) (arXiv:1409.8188)
[2] S. Meljanac, Z. Škoda, *„Hopf algebroid twists for deformation quantization of linear Poisson structures“*, **SIGMA 14** (2018) 026; 23 pages (arXiv:1605.01376)
[3] J. Lukierski, Z. Škoda, M. Woronowicz, *„Deformed covariant quantum phase spaces as Hopf algebroids“*, **Physics Letters B 750**, 401-406 (2015) (arXiv/1507.02612)
[4] Z. Škoda *„Some equivariant constructions in noncommutative algebraic geometry“,* **Georgian Mathematical Journal 16** (2009), No. 1, 183–202 (arXiv:0811.4770)
[5] S. Meljanac, D. Svrtan, Z. Škoda *„Exponential formulas and Lie algebra type star products“,* **Symmetry, Integrability and Geometry: Methods and Applications (SIGMA) 8** (2012) , 013; 1-15, (arXiv:1006.0478).

Selected publications:

[1] Z. Škoda *„Coherent states for Hopf algebras“,* **Letters in Mathematical Physics 81**, (2007) N.1, 1 – 17.
[2] Z. Škoda *„Localizations for construction of quantum coset spaces“,* in: Noncommutative geometry and Quantum groups, W.Pusz, P.M. Hajac, eds. **Banach Center Publications 61**, 265 – 298, Warszawa 2003 (math.QA/0301090).
[3] N. Durov, S. Meljanac, A. Samsarov, Z. Škoda *„A universal formula for representing Lie algebra generators as formal power series with coefficients in the Weyl algebra“,* **Journal of Algebra 309** (2007) Issue 1, 318 – 359 (math.RT/0604096).
[4] Z. Škoda *„Every quantum minor generates an Ore set“,* **International Math. Res. Notices** (2008), rnn063-8 (math.QA/0604610).
[5] Z. Škoda *„Noncommutative localization in noncommutative geometry“,* **London Math. Society Lecture Note Series 330** (2006) ed. A. Ranicki; 220 – 313 (math.QA/0403276).