# G – Personální zabezpečení – přednášející (školitel, člen ob. r.) v hl. prac. pom. na VŠ

**Název VŠ / součásti VŠ:**    Slezská univerzita v Opavě / Matematický ústav v Opavě

**Název SP:**    Matematika

**Jméno a příjmení:**    Artur Sergyeyev

**Tituly:**    RNDr., Ph.D.

**Rok narození:**    1975

**Rozsah pr. vzt. na VŠ:**    100%

**Přednášející:**    ano

**Školitel:**    ne

**Člen oborové rady:**    ne

**Přednášky v předmětech**

Globální analýza I, II.

**Údaje o praxi od VŠ**

1999 – 2000    Junior Research Associate, Institute of Mathematics of the National Academy of Sciences of Ukraine, Kyiv, Ukraine,

2001    Postdoctoral Fellow na Humboldt-Universität zu Berlin,

2000 – dosud    odborný asistent, MÚ SU v Opavě.

**Přehled o publ. a další tvůrčí činnosti za posl. 5 let**

*Refereed Journal Publications*

1. A. Sergyeyev, On homogeneous symmetries for evolution systems with constraints, accepted for publication in *Rendiconti del Circolo Matematico di Palermo*.
2. A. Sergyeyev, Symmetries and integrability: Bakirov system revisited, *J. Phys. A: Math. Gen.*, 2001, **34**, no. 23, 4983–4990.
3. A. Sergyeyev, On symmetries of KdV-like evolution equations, *Rep. Math. Phys.*, 1999, **44**, no. 1/2, 183–190.
4. A. Sergheyev, Generalized symmetries of partial differential equations and quasiexact solvability, *Rep. Math. Phys.*, 1998, **41**, no. 3, 279–286.
5. A.G. Sergheyev, A relativistic Coulomb problem for the modified Stueckelberg equation, *Ukr. J. Phys.*, 1997, **42**, no. 10, 1171–1174.

*Articles in Refereed Proceedings*

1. A. Sergyeyev and J.A. Sanders, The Complete Set of Generalized Symmetries for the Calogero-Degasperis-Ibragimov-Shabat Equation, accepted for publication in *Proc. 4th Int. Conf. "Symmetry in Nonlinear Mathematical Physics"*.
2. A. Sergyeyev, On local time-dependent symmetries of integrable evolution equations, *Proc. 3rd Int. Conference "Symmetry in Nonlinear Mathematical Physics" (Kyiv, July 13-18, 1999)*, published in *Proceedings of Institute of Mathematics of NAS of Ukraine*, 2000, **30**, Part 1, p. 196–203.
3. A. Sergyeyev, Nonlocal symmetries and formal symmetries for evolution equations, *Group and Analytic Methods in Mathematical Physics*, Proceedings of Institute of Mathematics of NAS of Ukraine, 2001, **35**, p. 227–236.
4. A. Sergyeyev, On time-dependent symmetries and formal symmetries of evolution equations, in *Symmetry and Perturbation Theory*, A. Degasperis and G. Gaeta eds., Singapore, World Scientific, 1999, p. 303–308.

*Other papers*

1. A. Sergyeyev, Time dependence and (non)commutativity of symmetries of evolution equations, in *"Noncommutative Structures in Mathematics in Physics"* (Proc. NATO ARW), S. Duplij and J. Wess eds., Kluwer, 2001, p. 379-390.

2. A. Sergyeyev, On recursion operators and nonlocal symmetries of evolution equations, *Proc. Sem. Diff. Geom.*, D. Krupka ed., Mathematical Publications, Silesian University in Opava, Opava, Czech Republic, 2000, **2**, p. 159-173.
3. A.G. Sergyeyev, Higher Symmetries and Parasupersymmetries of Evolution Equations, Ph.D. thesis, Kyiv, Institute of Mathematics of NAS of Ukraine, 2000, 130 p. (in Ukrainian).
4. A.G. Sergyeyev, On the structure of generalized symmetries for nonlinear evolution equations, *Visnyk Kyivs'kogo Universytetu (Bulletin of the University of Kiev), Series: Physical and mathematical Sciences*, 1999, no.3, p.61-70 (in Ukrainian).
5. A.G. Sergheyev, On time-dependent symmetries of evolution equations, *Symmetry and Analytic Methods in Mathematical Physics*, Proceedings of Institute of Mathematics of NAS of Ukraine, 1998, **19**, p. 216-220.
6. A.G. Sergeyev, On parasupersymmetries in a relativistic Coulomb problem for the modified Stueckelberg equation, in *Proc. 2nd Int. Conference "Symmetry in Nonlinear Mathematical Physics" (Kyiv, July 713, 1997)*, Kyiv, 1997, **2**, p. 331-335.

*Submitted Articles and preprints*

1. A. Sergyeyev, On integrability of a class of block-triangular evolution systems, Preprint No. 520, *SFB 288 Preprint series*, Berlin, 2001, submitted for publication in *Proceedings of 8th Int. Conf. on Diff. Geom. and Its Appl.*
2. A. Sergyeyev, On sufficient conditions of locality for hierachies of symmetries of evolution systems, submitted to *Rep. Math. Phys*.
3. A. Sergyeyev, Towards classification of conditionally integrable evolution systems, Preprint No. 528, *SFB 288 Preprint series*, Berlin, 2001.

**Anotace nejvýznam. publikací, projektů, děl nebo další tvůrčí činnosti**

Local and nonlocal generalized symmetries, master symmetries, recursion operators and formal symmetries for partial differential equations, and their applications.
Conditional integrability and exact solutions of partial differential equations, classification of conditionally integrable partial differential equations.

**Působení v zahraničí**

Dlouhodobé pobyty:
Postdoctoral Fellow at Graduiertenkolleg "Geometrie und Nichtlineare Analysis", Institut für Mathematik, Humboldt-Universität zu Berlin (April 1 – December 31, 2001)
Krátkodobé pobyty:
Vrije Universiteit van Amsterdam (Amsterdam, Nizozemsko, 18.2.2001 – 4.3.2001)
10 přednášek a 1 poster na konferencích v Německu, Polsku a na Ukrajině.

**Obor habilitačního nebo jmenovacího řízení nebo vědecké hodnosti**

2000    Ph.D. (Národní akademie věd Ukrajiny, Ústav matematiky).
2001    RNDr. (Matematický ústav v Opavě)

**Ohlasy publikací (zahraniční/tuzemské):** 1/0

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　　　　Podpis přednášejícího,　　　　　　　　　　　　　　　Datum:
　　　　školitele nebo člena ob. r.