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Department of Mathematics,
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Education

Dec. 2005	Habilitation (HDR) « Representations of conformal Lie groups and Quantization of symmetric spaces ». University of Reims. Reporters: A. Alekseev, T. Kobayashi, B. Ørsted.
Juin 1998	Ph. D. Thesis « Conformal analysis on Jordan algebras ». University of Paris 6. Thesis advisor: Jacques Faraut, Committee: M.Vergne, J. Hilgert, B.Ørsted, H.Rubenthaler.
1989-1994	Master Degree from the Moscow State University (Lomonossov), Scientific advisor: Alexandre Kirillov.

Déroulement de carrière :

Sept. 09-Feb. 10	CNRS Researcher (Délégation) at UMI 2615 J.-V. Poncelet, Moscow.
Sept. 07-Jan. 08	Invited Professor, Tokyo university (JSPS Grant).
Depuis Sept. 06	Professor (2 cl), Université of Reims.
Sept. – Déc. 05	Invited researcher, Institute for Math. Physics E. Schrödinger, Vienna.
2003-2006	Maître de conférence (associate professor), University of Reims.
2002-2003	Post-doctoral fellow, Ecole Normale Supérieure de Paris. M. Curie grant.
2000-2002	Post-doctoral fellow, Brussels University.
Sept – Oct. 2001	General member, Mathematical Sciences Research Institute MSRI, Berkeley.
1999-2000	Post-doctoral fellow, Leyden university.
1998-1999	Post-doctoral fellow, Padova university.
1996-1998	ATER (lecturer) university of Paris 10.

Research fields :

Non-commutative harmonic analysis, representation theory, quantization of symmetric spaces, Lie groups, Jordan algebra.

Publications :

Articles :

1. Geometric analysis on small representations of GL(N, R), (with T. Kobayashi, B. Ørsted) submitted to *J. Funct. Anal*., (2009).
2. Generalized Bernstein-Reznikov integrals, (with J.-L. Clerc, T. Kobayashi, B. Ørsted) submitted to *Math. Annalen* (2009). E-print: arXiv:0906.2874.
3. Composition formulas in the Weyl calculus (with T. Kobayashi, B. Ørsted, A. Unterberger), *J. Funct. Anal*. **257**, (2009), pp. 948-991.
4. Covariant quantization: symbolic calculus versus deformation quantization. *Japan. J. Math*. **3**. (2008), pp. 247-290.
5. Rankin-Cohen brackets and associativity. *Lett. Math. Physics*, **85**, (2008), pp. 195–202.
6. H*-algebras and quantization of para-Hermitian spaces, (with G. van Dijk) *Proc. Amer. Math. Soc.* **136,** (2008), pp. 2253-2260.
7. Projective pseudo-differential analysis and harmonic analysis, (with A. Unterberger), *J.Funct. Anal*. **242**, (2007), pp. 442--485.
8. Ring structures for holomorphic discrete series and Rankin-Cohen brackets, (with G. van Dijk), *J. Lie Theory*, **17**, (2007), pp. 283-305.
9. Berezin kernels and analysis on Makarevich spaces (with J.Faraut), *Indag. Mathem*., (N.S.) **16**, (2005), no. 3-4, pp. 461-–486.
10. Berezin kernels and maximal degenerate representations associated with Riemannian symmetric spaces of Hermitian type. *J. Math. Sci.*, **126**, (2005) pp. 1046-1052.
11. Isomorphisme de Duflo et la cohomologie tangentielle (with Ch.Torossian), *J. Geom. Phys.* **51,** (2004), pp. 487--506.
12. Invariant Hilbert subspaces of the oscillator representation (with G. van Dijk, S. Aparicio) *Indag. Math.* (N.S.) **14**, (2003), pp. 309–318.
13. 1 Star-representations and invariant quantization of the upper half-plane, (with P.Bieliavsky) *Non commutative harmonic analysis*, Progress in Mathematics, Vol.**220,** (2003), Birkhauser.
14. Symmetric spaces and star-representations, (with P.Bieliavsky) *J. Geom. Phys.*, **41 (**2002), pp.224-234.
15. Matrix-valued Berezin Kernels (with G. van Dijk), *Geometry and analysis on Lie groups* Banach Center Publications, vol. **55**, Warszawa (2002), pp. 269–288.
16. Berezin kernels and maximal degenerate representations associated with Riemannian symmetric spaces of Hermitian type. *J. Math. Sci., New York* **126**, (2002), pp. 1046-1052.
17. Berezin Kernels on Tube domains, (with G. van Dijk) *J. Funct. Anal.* **181**, (2001), pp. 189-209.
18. Analyse conforme sur les algèbres de Jordan. *J. Aust. Math. Soc.* **73** (2002), pp. 279–299.
19. Représentation de Weil associée à une représentation d'algèbre de Jordan, *C.R. Acad. Sci. Paris*, t.**328**, (1999), pp. 463-468.
20. Espace de Bergman d'un semi-groupe complexe, *C. R. Acad. Sci. Paris*, t.**322**, (1996), pp.635-640.

Reports :

1. Hilbert algebras and symmetric spaces. *Proceedings of 2007 Symposium on Representation theory*, Edt. N. Shimeno, Okayama University, 2007, Okayama.
2. Kontsevich Quantization and Duflo Isomorphism, dans *Quantization and Analysis on symmetric spaces*, Proceedings of Schrödinger Institute, Editor H. Upmeier, 2005.
3. Berezin Transform and Quantization, Annual Report of Leiden University, 2001.