





Publications and communications of Martin Schlichenmaier [martin.schlichenmaier@uni.lu]

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Peer reviewed (verified by ORBi^{lu}) : the information is available in the ORBi^{lu} journals database

Dissertations and Theses

Post-doctoral Thesis

-  Schlichenmaier, M. (1996). *Zwei Anwendungen algebraisch-geometrischer Methoden in der Physik: Berezin-Toeplitz quantisierung und globale Algebren der konformen Feldtheorie, Habilitationsschrift*. Unpublished post doctoral thesis (Agrégation de l'enseignement supérieur), University of Mannheim, Mannheim, Germany.
<http://hdl.handle.net/10993/11941>





Doctoral Thesis










-  Schlichenmaier, M. (1990). *Verallgemeinerte Krichever - Novikov Algebren und deren Darstellungen Dissertation, University of Mannheim, June 1990*. Unpublished doctoral thesis, University of Mannheim, Mannheim, Germany.
<http://hdl.handle.net/10993/10473>

Publications

1. Articles in Academic Journals

With peer reviewing

-  Ecker, J. M.-A., & Schlichenmaier, M. (2021). The low-dimensional algebraic cohomology of the Witt and the Virasoro algebra with values in natural modules. *Banach Center Publications*, 123, 141-174.
<http://hdl.handle.net/10993/41417>
Peer reviewed ✓
-  Schlichenmaier, M. (2018). Berezin-Toeplitz quantization and naturally defined star products for Kähler manifolds. *Analysis and Mathematical Physics*, 8(4), 691-710.
<http://hdl.handle.net/10993/37353>
Peer reviewed (verified by ORBi^{lu}) ✓
-  Ecker, J. M.-A., & Schlichenmaier, M. (2018). The low-dimensional algebraic cohomology of the Witt and the Virasoro algebra. *Journal of Physics. Conference Series*.
<http://hdl.handle.net/10993/37271>
Peer reviewed (verified by ORBi^{lu}) ✓
-  Schlichenmaier, M. (2017). N-point Virasoro algebras are multipoint Krichever-Novikov-type algebras. *Communications in Algebra*, 45, 776-821.
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Peer reviewed (verified by ORBi^{lu}) ✓

-  Schlichenmaier, M. (2014). An elementary proof of the vanishing of the second cohomology of the Witt and Virasoro algebra with values in the adjoint module. *Forum Mathematicum*, 26(3), 913-929.
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Peer reviewed (verified by ORBi^{lu}) ✓
-  Schlichenmaier, M. (2014). Multipoint Lax operator algebras. Almost-graded structure and central extensions. *Sbornik: Mathematics*, 205(5), 117-160.
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Peer reviewed ✓
-  Schlichenmaier, M. (2013). Lie superalgebras of Krichever-Novikov type and their central extensions. *Analysis and Mathematical Physics*, 3(3), 235--261.
<http://hdl.handle.net/10993/10509>
Peer reviewed (verified by ORBi^{lu}) ✓
-  Schlichenmaier, M. (2012). Krichever-Novikov type algebras - personal recollections of Julius Wess. *International Journal of Modern Physics Conference Series*, 13, 158-173.
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Peer reviewed ✓
-  Schlichenmaier, M. (2012). Some naturally defined star products for Kähler manifolds. *Travaux Mathématiques*, 187--204.
<http://hdl.handle.net/10993/10498>
Peer reviewed (verified by ORBi^{lu}) ✓
-  Schlichenmaier, M. (2011). Almost-Graded Central Extensions of Lax Operator Algebras. *Banach Center Publications*, 93, 129-144.
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Peer reviewed ✓
-  Schlichenmaier, M. (2011). Berezin - Toeplitz quantization for compact Kähler manifolds. An introduction. *Travaux Mathématiques*, 19, 97-124.
<http://hdl.handle.net/10993/10491>
Peer reviewed (verified by ORBi^{lu}) ✓
-  Schlichenmaier, M. (2010). Berezin-Toeplitz quantization for compact Kähler manifolds. A review of results. *Advances in Mathematical Physics*, 1(203), 38.
<http://hdl.handle.net/10993/10484>
Peer reviewed (verified by ORBi^{lu}) ✓
- Schlichenmaier, M., & Sheinman, O. K. (2008). Central extensions of Lax operator algebras. *Russian Mathematical Surveys*, 63(4), 131-172.
<http://hdl.handle.net/10993/7401>
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- Fialowski, A., & Schlichenmaier, M. (2007). Global Geometric Deformations of the Virasoro algebra, current and affine algebras by Krichever-Novikov type algebras. *Communications in Mathematical Physics*, 46(11), 2708-2724.
<http://hdl.handle.net/10993/10463>
Peer reviewed (verified by ORBi^{lu}) ✓
- Schlichenmaier, M. (2007). Berezin-Toeplitz quantization of the moduli space of flat SU(N) connections. *Journal of Geometry and Symmetry in Physics*, 9, 33-34.
<http://hdl.handle.net/10993/10462>
Peer reviewed (verified by ORBi^{lu}) ✓
-  Schlichenmaier, M., & Fialowski, A. (2007). Global Deformations of the Virasoro algebra, current and affine algebra by Krichever-Novikov type algebras. *International Journal of Theoretical Physics*, 46, 2708-2724.
<http://hdl.handle.net/10993/12082>
Peer reviewed (verified by ORBi^{lu}) ✓
- Schlichenmaier, M. (2006). Deformations of the Virasoro algebra of Krichever-Novikov type. *Journal of Geometry and Symmetry in Physics*, 5, 95--105.
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- Schlichenmaier, M. (2006). Higher genus affine Lie algebras of Krichever-Novikov type. *Journal of Geometry and Symmetry in Physics*, 5, 103-113.
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- Fialowski, A., & Schlichenmaier, M. (2005). Global geometric deformations of current algebras as Krichever-Novikov type algebras. *Communications in Mathematical Physics*, 260(3), 579-612.
<http://hdl.handle.net/10993/10476>
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- Schlichenmaier, M. (2004). Deformation quantization for almost-Kähler manifolds. *Journal of Nonlinear Mathematical Physics*, 11(Supplement), 49-54.
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- Schlichenmaier, M., & Sheinman, O. K. (2004). Knizhnik-Zamolodchikov equations for positive genus and Krichever-Novikov algebras. *Russian Mathematical Surveys*, 59(4), 737-770.
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- Fialowski, A., & Schlichenmaier, M. (2003). Global deformations of the Witt algebra of Krichever-Novikov type. *Communications in Contemporary Mathematics*, 5(6), 921-946.
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- Schlichenmaier, M. (2003). Higher genus affine Lie algebras of Krichever-Novikov type. *Moscow Mathematical Journal*, 3, 1395-1427.
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- Karabegov, A., & Schlichenmaier, M. (2001). Almost Kähler deformation quantization. *Letters in Mathematical Physics*, 57(2), 135-148.
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- Berceanu, S., & Schlichenmaier, M. (2000). Coherent state embeddings, polar divisors and Cauchy formulas. *Journal of Geometry and Physics*, 34, 336-358.
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- Schlichenmaier, M., & Sheinman, O. K. (1999). Wess-Zumino-Witten-Novikov theory, Knizhnik-Zamolodchikov equations, and Krichever-Novikov algebras, I. *Russian Mathematical Surveys*, 54(1), 213-250.
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- Schlichenmaier, M., & Sheinman, O. K. (1998). Sugawara construction and Casimir operators for Krichever-Novikov algebras. *Journal of Mathematical Sciences*, 92(2), 3807-3834.
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Schlichenmaier, M. (1990). Krichever-Novikov algebras for more than two points. *Letters in Mathematical Physics*, 19(2), 151-165.

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<http://hdl.handle.net/10993/10490>

Peer reviewed (verified by ORBi^{lu}) ✓

Without peer reviewing

Fialowski, A. E., Fröhlich, J. M. E., & Schlichenmaier, M. (2010). Deformation methods in mathematics and physics. Abstracts from the workshop held September 25th--October 1st, 2010. *Oberwolfach Rep*, 7(3), 2503-2560.

<http://hdl.handle.net/10993/11922>

Schlichenmaier, M., Fialowski, A., Montigny, M., & Novikov, S. (2006). Deformations and contractions in mathematics and physics. *Oberwolfach Reports*, 3(1), 119-186.

<http://hdl.handle.net/10993/12088>

2. Books

Written as unique author

Schlichenmaier, M. (2014). *Krichever-Novikov type algebras. Theory and Applications*. deGruyter.

<http://hdl.handle.net/10993/18126>




Schlichenmaier, M. (2007). *An Introduction to Riemann Surfaces, Algebraic Curves and Moduli Spaces 2nd enlarged edition*. Berlin: Springer.

<http://hdl.handle.net/10993/10464>

Schlichenmaier, M. (1989). *An Introduction to Riemann Surfaces, Algebraic Curves and Moduli Spaces*. New York: Springer.

<http://hdl.handle.net/10993/10474>

Director and/or editor of collective works

-  Schlichenmaier, M., Molina, G., Grong, E., Gumenyuk, P., & Takhtajan, L. (Eds.). (2018). ICAMI 2017: International Conference on Applied Mathematics and Informatics: Forum on Analysis, Geometry, and Mathematical Physics. *Analysis and Mathematical Physics*, 8, 250.
<http://hdl.handle.net/10993/37507>
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-  Schlichenmaier, M. (Ed.). (2017). *Travaux mathématiques, Scientific contributions of the Centre for Quantum Geometry of Moduli Spaces, AQM Aarhus Denmark*. Luxembourg: University of Luxembourg.
<http://hdl.handle.net/10993/30243>
-  Schlichenmaier, M. (Ed.). (2016). *Travaux mathématiques, Geoquant 2015*. University of Luxembourg.
<http://hdl.handle.net/10993/28865>
- Schlichenmaier, M., Kielanowski, P., Ali, S. T., Bieliavsky, P., Odziejewicz, A., & Voronov, T. (Eds.). (2016). *Geometric Methods in Physics, Bialowieza 2015*. Birkhaeuser.
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- Kielanowski, P., Ali, S. T., Odesskii, A., Odziejewicz, A., Schlichenmaier, M., & Voronov, T. (Eds.). (2013). *Geometric methods in physics. XXXI workshop, Bialowieza, Poland June 24--30, 2012. Selected papers based on the presentations at the workshop*. Basel: Birkhäuser/Springer.
<http://hdl.handle.net/10993/11918>
- Kielanowski, P., Ali, S. T., Odziejewicz, A., Schlichenmaier, M., & Voronov, T. (Eds.). (2013). *Geometric methods in physics. XXX workshop, Bialowieza, Poland June 26 --July 2, 2011. Selected papers based on the presentations at the workshop*. Basel: Birkhäuser.
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-  Bordemann, M., Ebrahimi-Fard, K., Abdenacer, M., Schlichenmaier, M., & Waldmann, S. (Eds.). (2012). *Nikolai Neumaier*. Fac. Sci. Technol. Commun. Univ. Luxemb., Luxembourg.
<http://hdl.handle.net/10993/11916>
-  Schlichenmaier, M., Sergeev, A. E., & Sheinman, O. E. (Eds.). (2011). *Geometry and quantization. Lectures presented at the 3rd international school and conference, Geoquant, Luxembourg City, Luxembourg, August 31--September 5, 2009*. Travaux Mathématiques 19. Luxembourg: University of Luxembourg Faculty of Science, Technology and Communication. 277~p.
<http://hdl.handle.net/10993/10458>
- Kielanowski, P., Buchstaber, V., Anatol, O., Schlichenmaier, M., & Voronov, T. (Eds.). (2010). *XXIX workshop on geometric methods in physics, Bialowieza Poland, June 27 -- July 3, 2010. Selected papers based on the presentations at the workshop*. AIP Conference Proceedings 1307. Melville, NY: American Institute of Physics (AIP). ix, 220~p. EUR~129.95/net; SFR~151.00; \sterling~95.00 \\$/~142.00.
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- Kielanowski, P., Odziejewicz, A., & Schlichenmaier, M. (Eds.). (2009). *XXVIII Workshop on Geometrical Methods in Physics, Bialowieza, Poland, 28 June - 4 July 2009*. AIP.
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- Kielanowski, P., Odziejewicz, A., Schlichenmaier, M., & Voronov, T. (Eds.). (2007). *Proceedings of the XXVI Workshop on Geometrical Methods in Physics AIP Conference Proceedings / Mathematical and Statistical Physics*. American Institute of Physics.
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- Schlichenmaier, M., Kielanowski, P., Odziejewicz, A., Voronov, T., Bohm, A., & Mladenov, I. (Eds.). (2007). *Proceedings of the XXV Workshop on Geometric Methods in Physics, Bialowieza July 2006*. Bulgarian Academy of Science.
<http://hdl.handle.net/10993/12500>

Ali, S. T., Gazeau, J.-P., Goldin, G. A., Neeb, K.-H., Odziejewicz, A., & Schlichenmaier, M. (Eds.). (2006). *XXIV Workshop on Geometric Methods in Physics, Bialowieza, Poland, June 26 - July 2, 2005, Proceedings Special issue of the Journal of Geometry and Symmetry in Physics, containing vol. 5 and 6*. Institute of Biophysics, Bulgarian Academy of Sciences.
<http://hdl.handle.net/10993/10469>

Ali, S. T., Emch, G., Odziejewicz, A., Schlichenmaier, M., & Woronowicz, S. L. (Eds.). (2005). *Twenty Years of Bialowieza: A Mathematical Anthology Aspects of differential geometric methods in physics*. World Scientific.
<http://hdl.handle.net/10993/10470>

Molitor-Braun, C., Poncin, N., & Schlichenmaier, M. (Eds.). (2005). *Proceedings of the 4th Conference on Poisson Geometry 2004 Travaux mathématiques, Vol. XVI*. Luxembourg: University of Luxembourg.
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Schlichenmaier, M., Ali, S. T., Strasburger, A., & Odziejewicz, A. (Eds.). (2001). *Coherent states, quantization and Gravity, Proceedings of Bialowieza workshop on Geometric Methods in Physics XVII, July, 1998*. Warsaw University Press.
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<http://hdl.handle.net/10993/12363>

3. Chapters of Collective Works (including conference proceedings published in collective works)

Contribution to Collective Works

Schlichenmaier, M. (2022). Les algebres de type Krichever - Novikov.: Definitions et resultats. In A., Makhlof (Ed.), *Algebre et applications 1* (pp. 205-252). London: ISTE.

<http://hdl.handle.net/10993/52994>

Peer reviewed ✓

Schlichenmaier, M. (2022). Krichever-Novikov type algebras. A general review and the Genus Zero case. In S., Hervig, B., Kruglikov, I., Markina, & D., The (Eds.), *Geometry, Lie theory and applications* (pp. 279-330). Springer.

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Peer reviewed ✓



Schlichenmaier, M. (2018). Krichever-Novikov Type Algebras and Wess-Zumino-Novikov-Witten Models. *Uniformization, Riemann-Hilbert Correspondence, Calabi-Yau Manifolds, and Picard-Fuchs Equations* (pp. 327-368). International Press.

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Schlichenmaier, M. (2016). Krichever-Novikov type algebras. An introduction. In K., Misra, D., Nakano, & B., Parsall (Eds.), *Lie Algebras, Lie Superalgebras, Vertex Algebras and Related Topics* (pp. 40). AMS.



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-  Schlichenmaier, M. (2015). Lie Superalgebras of Krichever-Novikov type. In P., Kleianowski, P., Bieliavsky, A., Odziejewicz, M., Schlichenmaier, & T., Voronov (Eds.), *Geometric Methods in Physics, Bialowieza XXXIII* (pp. 213-226). Birkhaeuser.
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<http://hdl.handle.net/10993/18125>
- Schlichenmaier, M. (2013). Berezin's coherent states, symbols and transform for compact Kähler manifolds. *Geometric Methods in Physics, XXX Workshop 2011* (pp. 101-116). Springer.
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- Schlichenmaier, M. (2013). An elementary proof of the formal rigidity of the Witt and Virasoro Algebra. In P., Kielanowski, T., Ali, A. E., Odesskii, A., Odziejewicz, M., Schlichenmaier, & T., Voronov (Eds.), *Geometric Methods in Physics, XXXI Workshop 2012* (pp. 143--153). Springer.
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-  Schlichenmaier, M. (2013). Symmetries and infinite dimensional Lie algebras. In C., Bartholmé, T., Connor, Y., Dominicy, L., Kidzinski, N., Richard, & Y., Swan (Eds.), *Notes de la cinquième BSSM* (pp. 67-97). Bruxelles, Belgium: ULB.
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-  Schlichenmaier, M. (2009). Classification of central extensions of Lax operator algebras. *Proceedings of the XXVII Workshop on Geometric Methods in Physics* (pp. 227-234). AIP (American Institute of Physics).
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- Schlichenmaier, M. (1998). Berezin-Toeplitz quantization and Berezin symbols for arbitrary compact Kähler manifolds. *Quantization, Coherent States and Poisson Structures. Proceedings of the XIV'th Workshop on Geometric Methods in Physics, Bialowieza, Poland, 9-15 July 1995* (pp. 101-115).
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