

Martin Schlichenmaier: List of Publications**Books:**

1. Schlichenmaier, M., *Krichever–Novikov Type Algebras. Theory and Applications*. Studies in Mathematics 53, de Gruyter, 2014, 360p.
2. Schlichenmaier, M., *An Introduction to Riemann Surfaces, Algebraic Curves and Moduli Spaces, 2nd enlarged edition*, Theoretical and Mathematical Physics, Springer, 2007, 218p.
3. Schlichenmaier, M., *An Introduction to Riemann Surfaces, Algebraic Curves and Moduli Spaces*, Springer Lecture Notes in Physics, Vol. 322, Springer, New York, 1989, 148p.

Refereed Publications in Scientific Journals, Collections and Proceedings

4. Schlichenmaier, Martin, *Krichever–Novikov type algebras. A general review and the genus zero case*, In Hervig, Krugliov, Markina *Geometry, Lie theory and applications*, Springer (2022), 279–330.
5. Schlichenmaier, Martin, *Les algèbres de type Krichever–Novikov: Définitions et résultats*. in Makhlouf, A., *Algebre et applications*, ISTE London (2022), 205–252 (French translation of [6]).
6. Schlichenmaier, Martin, *Krichever – Novikov type algebras: Definitions and results*, in Makhlouf A., *Nonassociative Algebras and Categories*, ISTE London (2021), 199–244.
7. Ecker, Jill, and Schlichenmaier, Martin, *The low-dimensional algebraic cohomology of the Witt and Virasoro algebra with values in natural modules*, Banach Center Publications 123, 141–174 (2021)
8. Ecker, Jill, and Schlichenmaier, Martin, *The low-dimensional algebraic cohomology of the Witt and Virasoro algebra*, Journal of Physics, Conference Series 1194 (2019)012032,
9. Schlichenmaier, M., *Berezin–Toeplitz quantization and naturally defined star products for Kähler manifolds*, Analysis and Mathematical Physics, 8(4), 691–710, (2018).
10. Schlichenmaier, M., *Krichever–Novikov type algebras and Wess–Zumino–Novikov–Witten models*, Uniformization, Riemann–Hilbert Correspondence, Calabi–Yau Manifolds, and Picard–Fuchs Equations ALM42, pp. 329–370 (2018).
11. Schlichenmaier, M., *N point Virasoro algebras are multi-point Krichever Novikov type algebras*, Communications of Algebra, 45, 776–821 (2017)
12. Schlichenmaier, M., *N point Virasoro algebras considered as Krichever Novikov type algebras*, Białowieża volume 2015, Trends in Mathematics, 295308 (2016), Springer International Publishing
13. Schlichenmaier, M., *Krichever–Novikov type algebras. An Introduction*, Proceedings of Symposia in Pure Math., Vol. 92, 2016 <http://dx.doi.org/10.1090/pspum/092/01581>.
14. Schlichenmaier, M., *Lie Superalgebras of Krichever–Novikov Type*, (in) Geometric Methods in Physics, Białowieża, 2014, eds. Piotr Kielanowski, et. al., Birkhäuser, 213–226, (2015)
15. Schlichenmaier, M., *Multipoint Lax operator algebras. Almost-graded structure and central extensions*. Sbornik Mathematics, 205(5) (2014) 117–160.
16. Schlichenmaier, M., *From the Virasoro algebra to Krichever–Novikov type algebras and beyond*. (in) Vasiliev, A. (ed), Harmonic and Complex Analysis and its Applications, pp. 325–358, Springer 2014
17. Schlichenmaier, M., *Lie superalgebras of Krichever–Novikov type and their central extensions*. Anal. Math. Phys. 3(3), 235–261 (2013).

18. Schlichenmaier, M., *An elementary proof of the formal rigidity of the Witt and Virasoro algebra.* (in) Geometric methods in physics, Bialowieza XXXI (2012), pp. 143 - 153, Springer (2013)
19. Schlichenmaier, M., *Berezin's coherent states, symbols and transform for compact Kähler manifolds.* (in) Geometric methods in physics, Bialowieza XXX (2011), pp. 101 - 116, Springer (2013)
20. Schlichenmaier, M., *Symmetries and infinite dimensional Lie algebra.* (in) C. Bartholmé, T. Connor, Y. Dominicy, L. Kidzinski, N. Richard, Y. Swan (eds), Notes de la cinquieme BSSM, 67 - 97, ULB Bruxelles. (2013)
21. Schlichenmaier, M., *An elementary proof of the vanishing of the second cohomology of the Witt and Virasoro algebra with values in the adjoint module,* Forum Mathematicum. DOI: 10.1515/forum-2012-0143, February 2012, print version: volume 26(3), 913–929 (2014).
22. Schlichenmaier, M., *Some naturally defined star products for Kähler manifolds,* Trav. math. 20(2012), 187–204.
23. Schlichenmaier, M., *Berezin-Toeplitz quantization and star products for compact Kähler manifolds,* Contemp. Math. 583, (2012), 257–294, <http://dx.doi.org/10.1090/conm/583/11573>
24. Schlichenmaier, M., *Krichever-Novikov type algebras – personal recollections of Julius Wess.* Scientific and human legacy of Julius Wess, Internat. Jour. of Mod. Phys: Conference Series. Vol. 13(2012), 158–173
25. Schlichenmaier, M., *Berezin-Toeplitz quantization for compact Kähler manifolds. An introduction.* Travaux mathématiques, 19(2011), 97-124.
26. Schlichenmaier, M., *Almost-graded central extensions of Lax operator algebras.* Banach Center Publications 93(2011), 129 -144, doi:10.4064/bc93-0-11.
27. Martin Schlichenmaier, *Berezin-Toeplitz Quantization for Compact Kähler Manifolds. A Review of Results,* Advances in Mathematical Physics, Vol. 2010, 38 pages, doi:10.1155/2010/927280.
28. Martin Schlichenmaier, *Deformations of the Witt, Virasoro, and Current Algebra,* (in) Silvestrov, et. al., Generalized Lie theory in Mathematics, Physics and Beyond, pp. 219–234, Springer 2009
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30. Martin Schlichenmaier, *Classification of central extensions of Lax operator algebras* (in) Proceedings of the XXVII Workshop on Geometrical Methods in Physics, Bialowieza, Poland 29 June – 5 July 2008, AIP 2008, 227–234
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34. Martin Schlichenmaier *Berezin-Toeplitz quantization of the moduli space of flat $SU(N)$ connections,* Journ. of Symmetry in Physics, Vol. 9 (2007) 33-34

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45. Stefan Berceanu, and Martin Schlichenmaier, *Coherent state embeddings, polar divisors and Cauchy formulas*, Journal of Geometry and Physics, **34**(2000), 336–358.
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63. Martin Schlichenmaier, *Algebra*, in: Faszination Mathematik (ed. G. Walz), Spektrum Verlag Heidelberg, 2003, pp. 58-69.
64. Martin Schlichenmaier, contributing author to “Concise Encyclopedia on supersymmetry and noncommutative structures in mathematics and physics”, (eds. J. Bagger, St. Duplij, and W. Siegel), Kluwer 2003.
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