

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 algebres de type Krichever–Novikov: Definitions et resultats*. 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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31. Alice Fialowski, Martin Schlichenmaier, *Global Geometric Deformations of the Virasoro algebra, current and affine algebras by Krichever-Novikov type algebras*, International Journal of Theoretical Physics. Vol. 46, No. 11 (2007) pp.2708 - 2724
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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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60. Martin Schlichenmaier, *Central extensions and semi-infinite wedge representations of Krichever-Novikov algebras for more than two points*, Letters in Mathematical Physics **20**(1990), 33-46.
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Contributions to encyclopedic works:

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.
65. Martin Schlichenmaier, contributing author to the "Lexikon der Mathematik" concerning entries from the field of algebra, algebraic topology, homological algebra, and the theory of categories, 6 Volumes, Spektrum-Verlag, Heidelberg, Vol.1 (2000), Vol.2 (2001), Vol.3 (2001), Vol.4 (2002), Vol.5 (2002), Vol.6 (2003).
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Editorial Work

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73. Kielanowski, P., Ali, S.T., Odesskij, A., Odziejewicz, A., Schlichenmaier, M., Voronov, Th. (eds) *Geometric Methods in Physics, XXXI workshop Białowieża, Poland 2012*. Trends in Mathematics, Springer, 2013, 238p
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93. Mortini, R., Schlichenmaier, M., *Abel Preis für Mathematiker Mischa Gromov*, Luxemburger Wort 19.6.2009, p.16
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