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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 Unpublished post doctoral thesis (Agrégation de l'enseignement supérieur), University of Mannheim, Mannheim, Germany.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 Unpublished doctoral thesis, University of Mannheim, Mannheim, Germany.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. (2020). The low-dimensional algebraic cohomology of the Witt and the Virasoro algebra with values in natural modules. *Banach Center Publications*.
<http://hdl.handle.net/10993/41417>
-  Schlichenmaier, M. (2018). Berezin-Toeplitz quantization and naturally defined star products for Kähler manifolds. *Analysis and Mathematical Physics*, 8(4), 691-710.
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-  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>
-  Schlichenmaier, M. (2017). N-point Virasoro algebras are multipoint Krichever-Novikov-type algebras. *Communications in Algebra*, 45, 776-821.
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<http://hdl.handle.net/10993/10509>
-  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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-  Schlichenmaier, M. (2011). Almost-Graded Central Extensions of Lax Operator Algebras. *Banach Center Publications*, 93, 129-144.
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-  Schlichenmaier, M. (2010). Berezin-Toeplitz quantization for compact Kähler manifolds. A review of results. *Advances in Mathematical Physics*, 1(203), 38.
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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>
- 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.
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- 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.
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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>
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<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.
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-  Schlichenmaier, M. (Ed.). (2016). *Travaux mathématiques, Geoquant 2015*. University of Luxembourg.
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<http://hdl.handle.net/10993/11919>
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3. Chapters of Collective Works (including conference proceedings published in collective works)

Contribution to Collective Works

 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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Contribution to Encyclopaedias, Dictionaries, etc.

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8. Learning Materials


 Schlichenmaier, M. (2017). *Algebraic Curves* (University of Luxembourg, Algebraic Curves - BASI - track mathematics).
<http://hdl.handle.net/10993/29845>

 Schlichenmaier, M. (2017). *Basic Algebraic Structures - Lecture notes for the MICS* (University of Luxembourg, Basic Algebraic Structures MICS).

<http://hdl.handle.net/10993/12460>

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<http://hdl.handle.net/10993/12485>

 Schlichenmaier, M. (1997). *Vertexalgebren eine Einführung* (University of Mannheim, University of Heidelberg, Arbeitsgemeinschaft Mannheim-Heidelberg).

<http://hdl.handle.net/10993/12484>

Communications (excluding conference proceedings)

Symposia and Conferences

By invitation

Schlichenmaier, M. (2020, February 04). *N point Virasoro algebras considered as Krichever - Novikov type algebras*. Paper presented at III International workshop on Nonassociative Algebras, Malaga, Spain.

<http://hdl.handle.net/10993/42619>

Schlichenmaier, M. (2019, September 10). *Some naturally defined star products for Kaehler manifolds*. Paper presented at Geoquant, Jinshan, Taiwan.

<http://hdl.handle.net/10993/40500>

Schlichenmaier, M. (2019, June 28). *N point Virasoro algebras are multi-point Krichever Novikov type algebras*. Paper presented at The Abel Symposium 2019, Geometry, Lie theory and applications, Alesund, Norway.

<http://hdl.handle.net/10993/39836>

Schlichenmaier, M. (2019, May 02). *Canonical quantization for compact quantizable Kaehler manifolds*. Paper presented at Algebra, deformation and quantization, Mulhouse, France.

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Schlichenmaier, M. (2019, March 19). *N point Virasoro algebras are multi-point Krichever Novikov type algebras*. Paper presented at Complex Analysis and Mathematical Physics dedicated to the 70th birthday of A.G. Sergeev, Moscow, Russia.

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