

List of Publications

Alexander Schenkel

Preprints

- [P-2] M. Benini, A. Schenkel and B. Vicedo,
“The homological algebra of 2d integrable field theories,”
arXiv:2601.19993 [hep-th].
- [P-1] S. Bunk, J. MacManus and A. Schenkel,
“An equivalence theorem for algebraic and functorial QFT,”
arXiv:2504.15759 [math-ph].
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Articles in peer reviewed journals

- [J-65] M. Benini, V. Carmona, P. Naaijken and A. Schenkel,
“ C^* -categorical prefactorization algebras for superselection sectors and topological order,”
Commun. Math. Phys. **407**, 20 (2026) [arXiv:2505.07960 [math-ph]].
- [J-64] C. Kemp, R. Laugwitz and A. Schenkel,
“Shifted Poisson structures on higher Chevalley-Eilenberg algebras,”
Lett. Math. Phys. **116**, 19 (2026) [arXiv:2412.12804 [math.QA]].
- [J-63] M. Benini, V. Carmona, A. Grant-Stuart and A. Schenkel,
“On the equivalence of AQFTs and prefactorization algebras,”
Lett. Math. Phys. **116**, 13 (2026) [arXiv:2412.07318 [math-ph]].
- [J-62] M. Benini, T. Fernández and A. Schenkel,
“Derived algebraic geometry of 2d lattice Yang-Mills theory,”
to appear in Selecta Mathematica [arXiv:2409.06873 [math-ph]].
- [J-61] C. Kemp, R. Laugwitz and A. Schenkel,
“Infinitesimal 2-braidings from 2-shifted Poisson structures,”
J. Geom. Phys. **212**, 105456 (2025) [arXiv:2408.00391 [math.QA]].
- [J-60] A. Schenkel and B. Vicedo,
“5d 2-Chern-Simons theory and 3d integrable field theories,”
Commun. Math. Phys. **405**, 293 (2024) [arXiv:2405.08083 [hep-th]].
- [J-59] M. Benini, A. Grant-Stuart and A. Schenkel,
“Haag-Kastler stacks,”
to appear in Communications in Contemporary Mathematics [arXiv:2404.14510 [math-ph]].
- [J-58] M. Benini, A. Grant-Stuart, G. Musante and A. Schenkel,
“Obstructions to the existence of Møller maps,”
Adv. Theor. Math. Phys. **29**, no. 7, 1945–1989 (2025) [arXiv:2311.00070 [math-ph]].
- [J-57] S. Bunk, J. MacManus and A. Schenkel,
“Lorentzian bordisms in algebraic quantum field theory,”
Lett. Math. Phys. **115**, 16 (2025) [arXiv:2308.01026 [math-ph]].
- [J-56] S. Bruinsma, A. Schenkel and B. Vicedo,
“Universal first-order Massey product of a prefactorization algebra,”
Commun. Math. Phys. **405**, 206 (2024) [arXiv:2307.04856 [math-ph]].

- [J-55] M. Benini, A. Grant-Stuart and A. Schenkel,
 “The linear CS/WZW bulk/boundary system in AQFT,”
Annales Henri Poincaré **25**, 2251–2294 (2024) [arXiv:2302.06990 [math-ph]].
- [J-54] M. Benini, G. Musante and A. Schenkel,
 “Quantization of Lorentzian free BV theories: factorization algebra vs algebraic quantum field theory,”
Lett. Math. Phys. **114**, 36 (2024) [arXiv:2212.02546 [math-ph]].
- [J-53] M. Benini, V. Carmona and A. Schenkel,
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J. Phys. A **55**, 474004 (2022) [arXiv:2203.04817 [hep-th]].
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Adv. Theor. Math. Phys. **27**, no. 5, 1275–1332 (2023) [arXiv:2201.10225 [math-ph]].
- [J-49] M. Benini, L. Giorgetti and A. Schenkel,
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Commun. Math. Phys. **395**, 269–298 (2022) [arXiv:2111.01837 [math-ph]].
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Lett. Math. Phys. **111**, 149 (2021) [arXiv:2107.02532 [hep-th]].
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Commun. Contemp. Math. **25**(1), 2150094 (2023) [arXiv:2104.14886 [math-ph]].
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- [J-43] H. Nguyen and A. Schenkel,
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- [J-32] M. Benini, A. Schenkel and U. Schreiber,
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- [C-9] M. Benini and A. Schenkel,
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Trento, February 18, 2026