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Publication list

Metrics

- Research publications ▶▶ **Overview** 41 papers in total, 34 published papers, 7 submitted preprints, 1912 published pages, 16 open access publications
- Research reach ▶▶ **Citations** 747 with h-index 17 on Google Scholar, 313 on MathSciNet, 637 on Research Gate; Stats from April 16, 2024
- Research fields ▶▶ **ArXiv identifier** 36 papers listed on arXiv in math.RT, 32 in math.QA, 19 in math.GT, 9 in math.CT, 10 in math.RA, 2 in math.GR, 2 in math.CO, 1 in cs.CR
- Journals ▶▶ **My papers are published in** Algebr. Geom. Topol., Algebr. Represent. Theory, Ark. Mat., Canad. J. Math., Contemp. Math., Comm. Algebra, Doc. Math., Forum Math., Fund. Math., Glasg. Math. J., Int. Math. Res. Not. (IMRN), J. Algebraic Combin., J. Aust. Math. Soc., J. Comb. Algebra, J. Knot Theory Ramifications (twice), J. Lond. Math. Soc., Math. Ann., Math. Z., Pacific J. Math., Proc. Amer. Math. Soc. Ser. B, Proc. Lond. Math. Soc. (twice), Quantum Topol., Represent. Theory, Rev. Mat. Iberoam, Rocky Mountain J. Math., Selecta Math. (N.S.), Trans. Amer. Math. Soc. Ser. A, Trans. Amer. Math. Soc. Ser. B, Transform. Groups (twice)
- Coauthors ▶▶ **23 coauthors** from Australia, Belgium, China, Denmark, France, Germany, India, Japan, Portugal, Sweden, Switzerland, United Kingdom, United States
- Before 2011 ▶▶ **Eprints etc.** see <http://www.dtubbenhauer.com/preprint.html>
- Comment ▶▶ **Open access** All my papers (latest versions) are freely available on arXiv; 16 are published via the Creative Commons Attribution licence (CC BY)

Publication list

- Paper #41 Apr.2024 ▶▶ **Asymptotics in infinite monoidal categories**
Abel Lacabanne, Daniel Tubbenhauer, Pedro Vaz
Preprint
<https://arxiv.org/abs/2404.09513>
- Paper #40 Jan.2024 ▶▶ **Orthogonal webs and semisimplification**
Elijah Bodish, Daniel Tubbenhauer
Preprint
<https://arxiv.org/abs/2401.00704>

Publication list (continued)

- Paper #39 Sep.2023 ▶▶ **Cellularity of KLR and weighted KLRW algebras via crystals**
Andrew Mathas, Daniel Tubbenhauer
Preprint
<https://arxiv.org/abs/2309.13867>
- Paper #38 Jul.2023, 2 ▶▶ **Asymptotics in finite monoidal categories**
Abel Lacabanne, Daniel Tubbenhauer, Pedro Vaz
Proc. Amer. Math. Soc. Ser. B 10 (2023), 398–412
<https://arxiv.org/abs/2307.03044>
- Paper #37 Jul.2023 ▶▶ **On rank one 2-representations of web categories**
Daniel Tubbenhauer
Preprint
<http://arxiv.org/abs/2307.00785>
- Paper #36 Mar.2023 ▶▶ **On a symplectic Howe duality**
Elijah Bodish, Daniel Tubbenhauer
Preprint
<https://arxiv.org/abs/2303.04264>
- Paper #35 Jan.2023 ▶▶ **Growth rates of the number of indecomposable summands in tensor powers**
Kevin Coulembier, Victor Ostrik, Daniel Tubbenhauer
To appear in Algebr. Represent. Theory
<https://arxiv.org/abs/2301.00885>
- Paper #34 Sep.2022 ▶▶ **A formula to evaluate type A webs and link polynomials**
Abel Lacabanne, Daniel Tubbenhauer, Pedro Vaz
To appear in Ark. Mat.
<https://arxiv.org/abs/2209.12169>
- Paper #33 Jul.2022 ▶▶ **Verma Howe duality and LKB representations**
Abel Lacabanne, Daniel Tubbenhauer, Pedro Vaz
Preprint
<https://arxiv.org/abs/2207.09124>
- Paper #32 Jun.2022 ▶▶ **Sandwich cellularity and a version of cell theory**
Daniel Tubbenhauer
To appear in Rocky Mountain J. Math.
<https://arxiv.org/abs/2206.06678>
- Paper #31 Apr.2022 ▶▶ **Annular webs and Levi subalgebras**
Abel Lacabanne, Daniel Tubbenhauer, Pedro Vaz
J. Comb. Algebra 7 (2023), no. 3/4, pp. 283–326
<https://arxiv.org/abs/2204.00947>

Publication list (continued)

- Paper #30 Jan.2022, 2 ▶▶ **Cellularity for weighted KLRW algebras of types $B, A^{(2)}, D^{(2)}$**
Andrew Mathas, Daniel Tubbenhauer
J. Lond. Math. Soc. (2) 107 (2023), no. 3, 1002–1044
<https://arxiv.org/abs/2201.01998>
- Paper #29 Jan.2022 ▶▶ **Monoidal categories, representation gap and cryptography**
Mikhail Khovanov, Maithreya Sitaraman, Daniel Tubbenhauer
Trans. Amer. Math. Soc. Ser. B 11 (2024), 329–395
<https://arxiv.org/abs/2201.01805>
- Paper #28 Dec.2021 ▶▶ **Minimal presentations of gl_n -web categories**
Genta Latifi, Daniel Tubbenhauer
This is part of my student Genta's Ph.D. thesis – Genta should get all the credit.
I am only on the paper because Genta insisted that I am. So here we are...
Preprint
<https://arxiv.org/abs/2112.12688>
- Paper #27 Nov.2021 ▶▶ **Cellularity and subdivision of KLR and weighted KLRW algebras**
Andrew Mathas, Daniel Tubbenhauer
To appear in Math. Ann.
<https://arxiv.org/abs/2111.12949>
- Paper #26 May.2021, 2 ▶▶ **SL_2 tilting modules in the mixed case**
Louise Sutton, Daniel Tubbenhauer, Paul Wedrich, Jieru Zhu
Selecta Math. (N.S.) 29 (2023), no. 3, 39
<https://arxiv.org/abs/2105.07724>
- Paper #25 May.2021 ▶▶ **Handlebody diagram algebras**
Daniel Tubbenhauer, Pedro Vaz
Rev. Mat. Iberoam. 39 (2023), no. 3, pp. 845–896
<https://arxiv.org/abs/2105.07049>
- Paper #24 Aug.2020 ▶▶ **Finitary birepresentations of finitary bicategories**
Marco Mackaay, Volodymyr Mazorchuk, Vanessa Miemietz, Daniel Tubbenhauer, Xiaoting Zhang
Forum Math. 33 (2021), no. 5, 1261–1320
<https://arxiv.org/abs/2008.01658>
- Paper #23 Apr.2020 ▶▶ **The center of SL_2 tilting modules**
Daniel Tubbenhauer, Paul Wedrich
Glasg. Math. J. 64 (2022), no. 1, 165–184
<https://arxiv.org/abs/2004.10146>
- Paper #22 Aug.2019 ▶▶ **HOMFLYPT homology for links in handlebodies via type A Soergel bimodules**
David E.V. Rose, Daniel Tubbenhauer
Quantum Topol. 12 (2021), no. 2, 373–410
<https://arxiv.org/abs/1908.06878>

Publication list (continued)

- Paper #21 Jul.2019 ▶▶ **Quivers for SL_2 tilting modules**
Daniel Tubbenhauer, Paul Wedrich
Represent. Theory 25 (2021), 440–480
<https://arxiv.org/abs/1907.11560>
- Paper #20 Jun.2019 ▶▶ **2-representations of Soergel bimodules for finite Coxeter types**
Marco Mackaay, Volodymyr Mazorchuk, Vanessa Miemietz, Daniel Tubbenhauer, Xiaoting Zhang
Proc. Lond. Math. Soc. (3) 126 (2023), no. 5, 1585–1655
<https://arxiv.org/abs/1906.11468>
- Paper #19 Jul.2018 ▶▶ **Algebraic properties of zigzag algebras**
Michael Ehrig, Daniel Tubbenhauer
Comm. Algebra 48 (2020), no.1, 11–36
<https://arxiv.org/abs/1807.11173>
- Paper #18 Apr.2018 ▶▶ **Trihedral Soergel bimodules**
Marco Mackaay, Volodymyr Mazorchuk, Vanessa Miemietz, Daniel Tubbenhauer
Fund. Math. 248 (2020), no. 3, 219–300
<https://arxiv.org/abs/1804.08920>
- Paper #17 Oct.2017 ▶▶ **Relative cellular algebras**
Michael Ehrig, Daniel Tubbenhauer
Transform. Groups 26 (2021), no. 1, 229–277
<https://arxiv.org/abs/1710.02851>
- Paper #16 Mar.2017 ▶▶ **Functoriality of colored link homologies**
Michael Ehrig, Daniel Tubbenhauer, Paul Wedrich
Proc. Lond. Math. Soc. (3) 117 (2018), no. 5, 996–1040
<https://arxiv.org/abs/1703.06691>
- Paper #15 Jan.2017 ▶▶ **Webs and q -Howe dualities in types BCD**
Antonio Sartori, Daniel Tubbenhauer
Trans. Amer. Math. Soc. 371 (2019), no. 10, 7387–7431
<https://arxiv.org/abs/1701.02932>
- Paper #14 Dec.2016 ▶▶ **Simple transitive 2-representations via (co)algebra 1-morphisms**
Marco Mackaay, Volodymyr Mazorchuk, Vanessa Miemietz, Daniel Tubbenhauer
Indiana Univ. Math. J. 68 (2019), no. 1, 1–33
<https://arxiv.org/abs/1612.06325>
- Paper #13 Nov.2016 ▶▶ **Singular TQFTs, foams and type D arc algebras**
Michael Ehrig, Daniel Tubbenhauer, Arik Wilbert
Doc. Math. 24, 1585–1655 (2019)
<https://arxiv.org/abs/1611.07444>

Publication list (continued)

- Paper #12 Sep.2016 ▶▶ **Two-color Soergel calculus and simple transitive 2-representations**
Marco Mackaay, Daniel Tubbenhauer
Canad. J. Math. 71 (2019), no. 6, 1523–1566
<https://arxiv.org/abs/1609.00962>
- Paper #11 Jan.2016 ▶▶ **Generic gl_2 -foams, web and arc algebras**
Michael Ehrig, Catharina Stroppel, Daniel Tubbenhauer
Preprint
<https://arxiv.org/abs/1601.08010>
- Paper #10 Oct.2015 ▶▶ **The Blanchet–Khovanov algebras**
Michael Ehrig, Catharina Stroppel, Daniel Tubbenhauer
Categorification and Higher Representation Theory, 183–226, Contemp. Math.,
683, Amer. Math. Soc., Providence, RI, 2017
<https://arxiv.org/abs/1510.04884>
- Paper #9 Jul.2015 ▶▶ **Semisimplicity of Hecke and (walled) Brauer algebras**
Henning H. Andersen, Catharina Stroppel, Daniel Tubbenhauer
J. Aust. Math. Soc. 103 (2017), no. 1, 1–44
<https://arxiv.org/abs/1507.07676>
- Paper #8 Apr.2015 ▶▶ **Super q -Howe duality and web categories**
Daniel Tubbenhauer, Pedro Vaz, Paul Wedrich
Algebr. Geom. Topol. 17-6 (2017), 3703–3749
<https://arxiv.org/abs/1504.05069>
- Paper #7 Mar.2015 ▶▶ **Cellular structures using U_q -tilting modules**
Henning H. Andersen, Catharina Stroppel, Daniel Tubbenhauer
Pacific J. Math. 292-1 (2018), 21–59
<https://arxiv.org/abs/1503.00224>
- Paper #6 Jan.2015 ▶▶ **Symmetric webs, Jones–Wenzl recursions and q -Howe duality**
David E.V. Rose, Daniel Tubbenhauer
Int. Math. Res. Not. (IMRN), 2016-17 (2016), 5249–5290
<https://arxiv.org/abs/1501.00915>
- Paper #5 Sep.2014 ▶▶ **Diagram categories for U_q -tilting modules at roots of unity**
Henning H. Andersen, Daniel Tubbenhauer
Transform. Groups 22 (2017), no. 1, 29–89
<https://arxiv.org/abs/1409.2799>
- Paper #4 Apr.2014 ▶▶ **gl_n -webs, categorification and Khovanov–Rozansky homologies**
Daniel Tubbenhauer
J. Knot Theory Ramifications 29-11 (2020), 96 pages
<https://arxiv.org/abs/1404.5752>

Publication list (continued)

- Paper #3 Oct.2013 ▶▶ **sl_3 -web bases, intermediate crystal bases and categorification**
Daniel Tubbenhauer
J. Algebraic Combin. 40-4 (2014), 1001–1076
<https://arxiv.org/abs/1310.2779>
- Paper #2 Jun.2012 ▶▶ **The sl_3 web algebra**
Marco Mackaay, Weiwei Pan, Daniel Tubbenhauer
Math. Z. 277-1-2 (2014), 401–479
<https://arxiv.org/abs/1310.2779>
- Paper #1 Nov.2011 ▶▶ **Virtual Khovanov homology using cobordisms**
Daniel Tubbenhauer
J. Knot Theory Ramifications 23-9 (2014), 91 pages
<https://arxiv.org/abs/1111.0609>



Daniel Tubbenhauer (digital signature); April 16, 2024