

DANIEL TUBBENHAUER

METRICS

<i>Publications</i>	31 papers in total, 23 published papers, 8 submitted preprints
<i>Research fields</i>	I have 26 papers listed on arXiv in math.RT, 27 in math.QA, 17 in math.GT, 5 in math.CT, 5 in math.RA, 1 in math.GR, 1 in cs.CR (note that paper can be listed in multiple categories)
<i>Citations</i>	181 by 85 authors on MathSciNet, 474 on Google Scholar, 364 on Research Gate; Stats from April 27, 2022 (note that Google Scholar citations can fluctuate a lot)
<i>Coauthors</i>	20 coauthors, from Australia, Belgium, China, Denmark, France, Germany, India, Japan, Portugal, Sweden, Switzerland, United Kingdom, United States
<i>Invited talks</i>	72 research talks

PUBLICATIONS

- 31) *Apr.2022*
Annular webs and Levi subalgebras
Preprint <https://arxiv.org/abs/2204.00947>
Authors: Abel LACABANNE, Daniel TUBBENHAUER, Pedro VAZ
-
- 30) *Jan.2022*
Cellularity for weighted KLRW algebras of types B , $A^{(2)}$, $D^{(2)}$
Preprint <https://arxiv.org/abs/2201.01998>
Authors: Andrew MATHAS, Daniel TUBBENHAUER
-
- 29) *Jan.2022*
Monoidal categories, representation gap and cryptography
Preprint <https://arxiv.org/abs/2201.01805>
Authors: Mikhail KHOVANOV, Maithreya SITARAMAN, Daniel TUBBENHAUER
-
- 28) *Dec.2021*
Minimal presentations of \mathfrak{gl}_n -web categories
Preprint <https://arxiv.org/abs/2112.12688>
Authors: 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...
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- 27) *Nov.2021*
Subdivision and cellularity for weighted KLRW algebras
Preprint <https://arxiv.org/abs/2111.12949>
Authors: Andrew MATHAS, Daniel TUBBENHAUER
-
- 26) *May.2021*
 SL_2 tilting modules in the mixed case
Preprint <https://arxiv.org/abs/2105.07724>
Authors: Louise SUTTON, Daniel TUBBENHAUER, Paul WEDRICH, Jieru ZHU
-

25) *May.2021*

Handlebody diagram algebras

Accepted

To appear in Rev. Mat. Iberoam.

<https://arxiv.org/abs/2105.07049>

Authors: Daniel TUBBENHAUER, Pedro VAZ

24) *Aug.2020*

Finitary birepresentations of finitary bicategories

Published

Forum Math. 33 (2021), no. 5, 1261–1320.

<https://arxiv.org/abs/2008.01658>

Authors: Marco MACKAAY, Volodymyr MAZORCHUK, Vanessa MIEMIETZ, Daniel TUBBENHAUER, Xiaoting ZHANG

23) *Apr.2020*

The center of SL_2 tilting modules

Published

Glasg. Math. J. 64 (2022), no. 1, 165–184.

<https://arxiv.org/abs/2004.10146>

Authors: Daniel TUBBENHAUER, Paul WEDRICH

22) *Aug.2019*

HOMFLYPT homology for links in handlebodies via type A Soergel bimodules

Published

Quantum Topol. 12 (2021), no. 2, 373–410.

<https://arxiv.org/abs/1908.06878>

Authors: David E.V. ROSE, Daniel TUBBENHAUER

21) *Jul.2019*

Quivers for SL_2 tilting modules

Published

Represent. Theory 25 (2021), 440–480.

<https://arxiv.org/abs/1907.11560>

Authors: Daniel TUBBENHAUER, Paul WEDRICH

20) *Jun.2019*

Simple transitive 2-representations of Soergel bimodules for finite Coxeter types

Preprint

<https://arxiv.org/abs/1906.11468>

Authors: Marco MACKAAY, Volodymyr MAZORCHUK, Vanessa MIEMIETZ, Daniel TUBBENHAUER, Xiaoting ZHANG

19) *Jul.2018*

Algebraic properties of zigzag algebras

Published

Comm. Algebra 48 (2020), no.1, 11–36.

<https://arxiv.org/abs/1807.11173>

Authors: Michael EHRIG, Daniel TUBBENHAUER

18) *Apr.2018*

Trihedral Soergel bimodules

Published

Fund. Math. 248 (2020), no. 3, 219–300.

<https://arxiv.org/abs/1804.08920>

Authors: Marco MACKAAY, Volodymyr MAZORCHUK, Vanessa MIEMIETZ, Daniel TUBBENHAUER

17) Oct.2017

Relative cellular algebras

Published Transform. Groups 26 (2021), no. 1, 229–277
<https://arxiv.org/abs/1710.02851>
 Authors: Michael EHRIG, Daniel TUBBENHAUER

16) Mar.2017

Functoriality of colored link homologies

Published Proc. Lond. Math. Soc. (3) 117 (2018), no. 5, 996–1040
<https://arxiv.org/abs/1703.06691>
 Authors: Michael EHRIG, Daniel TUBBENHAUER, Paul WEDRICH

15) Jan.2017

Webs and q -Howe dualities in types **BCD**

Published Trans. Amer. Math. Soc. 371 (2019), no. 10, 7387–7431
<http://arxiv.org/abs/1701.02932>
 Authors: Antonio SARTORI, Daniel TUBBENHAUER

14) Dec.2016

Simple transitive 2-representations via (co)algebra 1-morphisms

Published Indiana Univ. Math. J. 68 (2019), no. 1, 1–33
<http://arxiv.org/abs/1612.06325>
 Authors: Marco MACKAAY, Volodymyr MAZORCHUK, Vanessa MIEMIETZ, Daniel TUBBENHAUER

13) Nov.2016

Singular TQFTs, foams and type D arc algebras

Published Doc. Math. 24, 1585–1655 (2019)
<http://arxiv.org/abs/1611.07444>
 Authors: Michael EHRIG, Daniel TUBBENHAUER, Arik WILBERT

12) Sep.2016

Two-color Soergel calculus and simple transitive 2-representations

Published Canad. J. Math. 71 (2019), no. 6, 1523–1566
<http://arxiv.org/abs/1609.00962>
 Authors: Marco MACKAAY, Daniel TUBBENHAUER

11) Jan.2016

Generic \mathfrak{gl}_2 -foams, web and arc algebras

Preprint <http://arxiv.org/abs/1601.08010>
 Authors: Michael EHRIG, Catharina STROPPEL, Daniel TUBBENHAUER

10) Oct.2015

The Blanchet–Khovanov algebras

Published Categorification and Higher Representation Theory, 183–226, Contemp. Math.,
 683, Amer. Math. Soc., Providence, RI, 2017
<http://arxiv.org/abs/1510.04884>
 Authors: Michael EHRIG, Catharina STROPPEL, Daniel TUBBENHAUER

9) *Jul.2015*

Semisimplicity of Hecke and (walled) Brauer algebras

Published

J. Aust. Math. Soc. 103 (2017), no. 1, 1–44

<http://arxiv.org/abs/1507.07676>

Authors: Henning H. ANDERSEN, Catharina STROPPEL, Daniel TUBBENHAUER

8) *Apr.2015*

Super q -Howe duality and web categories

Published

Algebr. Geom. Topol. 17-6 (2017), 3703–3749

<http://arxiv.org/abs/1504.05069>

Authors: Daniel TUBBENHAUER, Pedro VAZ, Paul WEDRICH

7) *Mar.2015*

Cellular structures using U_q -tilting modules

Published

Pacific J. Math. 292-1 (2018), 21–59

<http://arxiv.org/abs/1503.00224>

Authors: Henning H. ANDERSEN, Catharina STROPPEL, Daniel TUBBENHAUER

6) *Jan.2015*

Symmetric webs, Jones–Wenzl recursions and q -Howe duality

Published

Int. Math. Res. Not. (IMRN), 2016-17 (2016), 5249–5290

<http://arxiv.org/abs/1501.00915>

Authors: David E.V. ROSE, Daniel TUBBENHAUER

5) *Sep.2014*

Diagram categories for U_q -tilting modules at roots of unity

Published

Transform. Groups 22 (2017), no. 1, 29–89

<http://arxiv.org/abs/1409.2799>

Authors: Henning H. ANDERSEN, Daniel TUBBENHAUER

4) *Apr.2014*

\mathfrak{gl}_n -webs, categorification and Khovanov–Rozansky homologies

Published

J. Knot Theory Ramifications 29-11 (2020), 96 pages

<http://arxiv.org/abs/1404.5752>

Author: Daniel TUBBENHAUER

3) *Oct.2013*

\mathfrak{sl}_3 -web bases, intermediate crystal bases and categorification

Published

J. Algebraic Combin. 40-4 (2014), 1001–1076

<http://arxiv.org/abs/1310.2779>

Author: Daniel TUBBENHAUER

2) *Jun.2012*

The \mathfrak{sl}_3 web algebra

Published

Math. Z. 277-1-2 (2014), 401–479

<http://arxiv.org/abs/1206.2118>

Authors: Marco MACKAAY, Weiwei PAN, Daniel TUBBENHAUER

1) Nov.2011

Virtual Khovanov homology using cobordisms

Published

J. Knot Theory Ramifications 23-9 (2014), 91 pages

<http://arxiv.org/abs/1111.0609>

Author: Daniel TUBBENHAUER

0) 2011-x

Eprints etc.

Further

See <http://www.dtubbenhauer.com/preprint.html>

Author: Daniel TUBBENHAUER



Daniel Tubbenhauer (digital signature); April 27, 2022