Jonte Gödicke

📍 Office: 218, Vivatgasse 7, Bonn   ✉ math@jonte-goedicke.com   📞 +49 40 42838-5189

🔗 https://jonte-goedicke.com/   ⌨ JonteGoedicke

Education

PhD in Mathematics, *University of Hamburg, Germany*   October 2021- August 2025

- Cluster of Excellence Quantum Universe
- Adviser: Tobias Dyckerhoff
- Grade: 1.0 Magna Cum Laude

Master of Science in Mathematical Physics, *University of Hamburg, Germany*   2019-2021

- Master thesis: Examples of derived formal moduli problems
- Adviser: Julian Holstein
- Grade: 1.05

Bachelor of Science in Physics, *University of Hamburg, Germany*   2015-2019

- Bachelor Thesis: Various topics in classical, bosonic, semiclosed string theory
- Advisor: Marco Zagermann
- Grade: 1.04

Abitur, *Gymnasium Osterholz-Scharmbeck, Germany*   2007-2015

- Grade: 1.1

References

Tobias Dyckerhoff, University of Hamburg
Mail: tobias.dyckerhoff@uni-hamburg.de

Joachim Kock, Universitat Autònoma de Barcelona
Mail: joachim.kock@uab.cat

Julian Holstein, University of Hamburg
Mail: julian.holstein@uni-hamburg.de

Paul Wedrich, University of Hamburg
Mail: paul.wedrich@uni-hamburg.de

Employement

Max-Planck-Institut for Mathematics Bonn, Postdoc, Mentored by Catharina Stroppel   Oktober 2025-2027

University of Hamburg, University research assistant, after finishing the PhD as a Postdoc associated with the CRC 1624 "Higher Structures, Moduli Spaces and Integrability"   Oktober 2024 - 2025

Preprints

An ∞-category of 2-Segal Spaces

Jonte Gödicke, https://arxiv.org/abs/2407.13357

Content: We provide an equivalence between the ∞-category of algebra objects in ∞-categories of spans with a subcategory of the ∞-category of spans of 2-Segal objects.

Simons Lectures on Categorical Symmetries,
Lecture Notes: Applied Cobordism Hypothesis, Lecturer David Jordan

Aaron Hofer, Anja Švraka and **Jonte Gödicke**, https://arxiv.org/abs/2411.09082

Content: We provide lecture notes for the lecture "Applied Cobordism Hypothesis" given by David Jordan during the Global Categorical Symmetries School in Les Diableret in September 2023.

Work in Progress

Rigid 2-Segal spaces

Jonte Gödicke, https://www.birs.ca/events/2024/5-day-workshops/24w5266/videos

Content: We use $(\infty, 2)$-categorical techniques to classify those 2-Segal spaces that give rise to (derived) multi-fusion categories.

Conference Talks

Workshop Higher Segal Spaces and their Applications to Algebraic K-Theory, Hall Algebras, and Combinatorics, *Banff International Research Station*, Title: Rigid 2-Segal Spaces	January 2024
Global Categorical Symmetries School, *Les Diableret, Switzerland*, Gong Show Talk, Title: Towards Derived Turaev-Viro Theory	September 2023
Summer School: Donaldson Thomas Invariants in Derived Symplectic Geometry, *Aussois, France*, Title: Motivic DT Invariants after Kontsevich Soibelmann	October 2022
Summer School: Irregular Riemann Hilbert Correspondences, *Aussois, France*, Title: Local Moduli for marked meromorphic flat bundles	September 2021

Seminar Talks

MPIM Topology Seminar, *Bonn*, Title: The universal Hecke algebroid	October 2025
QTCat Seminar, *Hamburg*, Title: The universal braided monoidal Hecke category	May 2025
Algebra and Geometry Seminar, *Hong Kong*, Title: Multi-fusion categories from 2-Segal spaces	March 2025
Quantum Mathematics Research Seminar, *Odense, Denmark*, Title: Multi-fusion categories from 2-Segal spaces	December 2024
Higher Structures in Quantum Field Theory Seminar, *Munich, Germany*, Title: Rigid Hall monoidal structures	May 2024
Algebra and Topology Seminar, *Kopenhagen, Denmark*, Title: Which 2-Segal objects are rigid?	May 2024
Higher Structure Seminar, *Hamburg, Germany*, Title: Rigid 2-Segal spaces	November 2023
Higher Structure Seminar, *Hamburg, Germany*, Title: Introduction to the Cobordism Hypothesis	November 2023
Higher Structure Seminar, *Hamburg, Germany*, Title: Symplectic Cohomology	May 2023
ZMP Seminar, *Hamburg, Germany*, Title: Categorification of Cluster algebras, with Merlin Christ	January 2022
Higher Structure Seminar, *Hamburg, Germany*, Title: Classical Hall Algebras	April 2021
Higher Structure Seminar, *Hamburg, Germany*, Title: Algebraic Stacks	May 2020

Higher Structure Seminar,   December 2019
Hamburg, Germany, Title: Deformation of Singularities

Organized Events

Live Stream of the lecture by Prof. Dr. Denis-Charles Cisinski about Formalization   Fall 2023
of Higher Category Theory,
Hamburg, Germany Organized with Jonas Linssen and Markus Zetto

Mini Workshop on Higher Categorical Methods in Algebra and Geometry,   March 2023
Hamburg, Germany Co-Organizer with Tobias Dyckerhoff, Matthew Habermann, and
Angus Rush

PhD Pizza Seminar,   April 2022 - Fall 2023
Hamburg, Germany Organized with Angus Rush, David Jaklitsch, Thomas Stempfhuber
and Aaron Hofer

Teaching Experience

Tutor Linear Algebra 2	Spring 2025
Tutor for Linear Algebra 1	Fall 2024
Tutor for Linear Algebra 1	Fall 2022
Tutor for Algebraic Topology 2	Spring 2022
Tutor for Mathematics for Physicists 3	Fall 2021
Student Tutor for Mathematics for Physicists 4	Spring 2021
Student Tutor for Algebra	Fall 2020
Student Tutor for Mathematics for Physicists 4	Spring 2020
Student Tutor for Mathematics for Physicists 3	Fall 2019
Student Tutor for Mathematics for Physicists 4	Spring 2019
Student Tutor for Mathematics for Physicists 3	Fall 2018
Student Tutor for Mathematics for Physicists 2	Spring 2018
Student Tutor for Theoretical Physics 2	Spring 2018
Student Tutor for Mathematics for Physicists 1	Fall 2017
Student Tutor for Theoretical Physics 1	Fall 2017
Student Tutor for Experimental Physics 2	Spring 2017

Soft Skill Courses

Hamburg Research Academy: How to Advance Your Research Career and Get Funding   July 2024

PIER Desy Academic Writing Course   April-June 2024

Further attended Mathematical Events

Conference Higher Structures in Functorial Field Theories,   August 2023
Regensburg, Germany

Hausdorff School: TQFT and their connections to Representation theory and Math-   June 2023
ematical Physics,
Bonn, Germany

School: Finiteness Conjecture for Skein modules,   May 2022
Matemale, France

Online Seminar: Champs et Homotopie en Géoemétrie algébrique,   Januar-May 2021
Toulouse, France

String Theory Steilkurs,   April 2018
Hamburg, Germany

Language

German Native speaker

English, Fluently

Latin, Advanced certificate