

Jonte Gödicke

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Education

- PhD in Mathematics**, *University of Hamburg, Germany* October 2021- Expected January 2025
- Cluster of Excellence Quantum Universe
 - Adviser: Tobias Dyckerhoff
- 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

Employment

- University of Hamburg**, University research assistant, after finishing the PhD as a Post-doc 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 rigid 2-Segal spaces. These can be interpreted as the universal example of a rigid convolution monoidal structure.

Conference Talks

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

Seminar Talks

Higher Structures in Quantum Field Theory Seminar, <i>Munich, Germany, Title: Rigid Hall monoidal structures</i>	May 2024
Algebra and Topology Seminar, <i>Kopenhagen, Denmark, Title: Which 2-Segal objects are rigid?</i>	May 2024
Higher Structure Seminar, <i>Hamburg, Germany, Title: Rigid 2-Segal spaces</i>	November 2023
Higher Structure Seminar, <i>Hamburg, Germany, Title: Introduction to the Cobordism Hypothesis</i>	November 2023
Higher Structure Seminar, <i>Hamburg, Germany, Title: Symplectic Cohomology</i>	May 2023
ZMP Seminar, <i>Hamburg, Germany, Title: Categorification of Cluster algebras, with Merlin Christ</i>	January 2022
Higher Structure Seminar, <i>Hamburg, Germany, Title: Classical Hall Algebras</i>	April 2021
Higher Structure Seminar, <i>Hamburg, Germany, Title: Algebraic Stacks</i>	May 2020
Higher Structure Seminar, <i>Hamburg, Germany, Title: Deformation of Singularities</i>	December 2019

Organized Events

Live Stream of the lecture by Prof. Dr. Denis-Charles Cisinski about Formalization of Higher Category Theory, <i>Hamburg, Germany Organized with Jonas Linssen and Markus Zetto</i>	Fall 2023
Mini Workshop on Higher Categorical Methods in Algebra and Geometry, <i>Hamburg, Germany Co-Organizer with Tobias Dyckerhoff, Matthew Habermann, and Angus Rush</i>	March 2023
PhD Pizza Seminar, <i>Hamburg, Germany Organized with Angus Rush, David Jaklitsch, Thomas Stempfhuber and Aaron Hofer</i>	April 2022 - Fall 2023

Teaching Experience

Tutor for Linear Algebra 1	Fall 2024
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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, <i>Regensburg, Germany</i>	August 2023
Hausdorff School: TQFT and their connections to Representation theory and Mathematical Physics, <i>Bonn, Germany</i>	June 2023
School: Finiteness Conjecture for Skein modules, <i>Matemale, France</i>	May 2022
Online Seminar: Champs et Homotopie en Géoemétrie algébrique, <i>Toulouse, France</i>	Januar-May 2021
String Theory Steilkurs, <i>Hamburg, Germany</i>	April 2018

Language

German Native speaker
English, Fluently
Latin, Advanced certificate