

WOLFGANG WILLIAM SCHMALTZ

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EDUCATION

University of California, Berkeley

Aug. 2012 – May 2018

Doctor of Philosophy in Mathematics

University of Chicago

Sep. 2007 – Jun. 2011

Bachelor of Science in Mathematics

RESEARCH POSITIONS

Polyfold Theorist

Mar. 2020 – Dec. 2024

Faculty of Mathematics, Ruhr-Universität Bochum

Bochum, Germany

Polyfold Theorist

Jan. 2018 – Feb. 2020

Mathematics Institute, Justus-Liebig University

Gießen, Germany

PAPERS

Pseudocycle Gromov–Witten invariants are a strict subset of polyfold Gromov–Witten invariants

Aug. 2023

W. Schmaltz

arXiv:2308.14204

Non-fillability of overtwisted contact manifolds via polyfolds

Nov. 2020

W. Schmaltz, S. Suhr, K. Zehmisch

arXiv:2011.02249

The Gromov–Witten axioms for symplectic manifolds via polyfold theory

Dec. 2019

W. Schmaltz

arXiv:1912.13374

Naturality of polyfold invariants and pulling back abstract perturbations

Dec. 2019

W. Schmaltz

arXiv:1912.13370

The Steenrod problem for orbifolds and polyfold invariants as intersection numbers

Apr. 2019

W. Schmaltz

arXiv:1904.02186

SELECTED INVITED TALKS

Orbifold Intersection Theory and Polyfold Gromov–Witten Invariants

Nov. 28, 2023

Heidelberg Geometry Seminar

Heidelberg, Germany

The Steenrod problem for orbifolds and polyfold Gromov–Witten invariants

Dec. 10, 2020

Oberseminar Dynamische Systeme

Bochum, Germany

Gromov–Witten Axioms for Symplectic Manifolds via Polyfold Theory

Oct. 24, 2018

SISSA

Trieste, Italy

Naturality of Polyfold Invariants

May 2, 2018

Mathematical Sciences Research Institute

Berkeley, California

The Polyfold Gromov–Witten Invariants & Gromov–Witten Axioms for Symplectic Manifolds via Polyfold Theory

Apr. 25, 2018

Berkeley Topology Seminar

Berkeley, California

SKILLS

Programming Languages: Python, SQL

Foreign Languages: English (native), German (B2), Turkish (A2)