

Arkadij Bojko

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EDUCATION

University of Oxford

DPhil in Mathematics, Advisor: Dominic Joyce

2018–Current

University of Vienna

M.Sc. in Mathematics

2017–2018

- Thesis: “Stability conditions on quivers and semistable noncommutative curve counting”, <http://othes.univie.ac.at/52820/>, supervised by Ludmil Katzarkov

University of Vienna

M.Sc. in Physics

2016–2018

- Thesis: “Geometry of Twisted D-branes in Group Manifolds”, <http://othes.univie.ac.at/53874/>, supervised by Stefan Fredenhagen

University of Vienna

B.Sc. in Physics

2013–2016

- Thesis: “Lovelock Theory”, supervised by Piotr Chrusciel

PUBLICATIONS

- [1] A. Bojko, *Orientations on the moduli stack of compactly supported perfect complexes over a non-compact Calabi–Yau 4-fold*, 2020. arXiv: 2008.08441.
- [2] A. Bojko and G. Dimitrov, *Non-commutative counting and stability*, 2019. arXiv: 1911.00074.

TEACHING

- **Tutor for Merton College** at the University of Oxford Trinity 2020
ASO: Projective Geometry
- **Teaching assistant** at the University of Oxford Michaelmas 2018
C3.1 Algebraic Topology
- **Teaching Assistant** at the University of Oxford Michaelmans 2018
B2.1 Introduction to Representation Theory

RESEARCH INTERESTS

- DT invariants in Calabi–Yau 4-folds
- Wall-crossing of invariants
- Non-commutative geometry

LANGUAGES

- **Russian** native
- **Czech**: native
- **English**: fluent, TOEFL 119/120
- **German**: fluent, C2 Wirtschaftssprache Deutsch

SCHOLARSHIPS AND AWARDS

- Clarendon Scholarship at the University of Oxford 2018–2021
- Department of Physics Dean’s list (Master’s) 2016–2018
- Performance scholarship of the University of Vienna 2013–2017

TALKS

- Orientation on the moduli stack of compactly supported perfect complexes over a Calabi–Yau 4-fold, Oxford-London Gauge Assembly, August 2020
- Orientation problem for DT invariants on open Calabi–Yau 4-folds, Hausdorff Center for Mathematics, February 2020
- Non-commutative counting and stability, University of Warwick, Summer-school on Bridgeland stability conditions, December 2019
- Non-commutative counting and stability, University of Oxford, Junior Geometry and Topology Seminar, November 2019
- Orientation on moduli spaces of sheaves on a non-compact Calabi–Yau 4-fold, University of Vienna, Geometry and Mathematical Physics Seminar, November 2019
- Lovelock theory, University of Vienna, Gravitational Physics Seminar, June 2016