



Hanno Becker

Personal Information

Date of birth 4th of July 1988

Nationality German

Education

2011-2015 **PhD studies in Mathematics at SFB TR 45 of the DFG, University of Bonn.**
Defended July 2015

2006-2011 **Diploma studies in Mathematics, University of Bonn, Grade 1.0 with distinction.**
minor in Computer Science (Functional Programming and Network Security)

2006 **Abitur, Johann-Heinrich-Voß-Schule, Eutin.**

PhD Thesis

Title *Homotopy-Theoretic Studies of Khovanov-Rozansky Homology*

Supervisor Catharina Stroppel

Awards and Honors

2013 **Talk, Speaker at 'Mathematisches Forschungsinstitut Oberwolfach'.**

2013 **Fellowship, Research Program on Noncommutative Geometry at MSRI, Berkeley.**

2006-2011 **Scholarship, Studienstiftung des Deutschen Volkes.**

2006 **Award, Winner of 'Bundeswettbewerb Mathematik'.**

Publications

2014 → Models for Singularity Categories,
Advances in Mathematics, 254:187-232, 2014

2013 → Khovanov-Rozansky homology via stable Hochschild homology of Soergel bimodules,
Oberwolfach Reports, 44:2507-2510, 2013

2011 → Khovanov-Rozansky homology via maximal Cohen-Macaulay approximations and the combinatorics of Soergel bimodules, Diploma Thesis 2011 (arXiv 1105.0702)

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Invited Conference/Workshop Talks

- 06/2015 Colloque Solstice – Paris
- 05/2015 Opening Perspectives in Algebra, Representation Theory and Topology – Barcelona
- 03/2015 Conference on the Interaction of Representation Theory with Geometry and Combinatorics – Bonn
- 11/2014 Auslander Memorial Workshop – Bielefeld
- 10/2014 Conference for Young Researchers in Arithmetic and Algebraic Geometry – Bonn
- 09/2013 Workshop on Matrix Factorizations – Oberwolfach
- 03/2013 Matrix Factorization Day – Berkeley
- 07/2012 Cohen-Macaulay Day – Cologne
- 07/2012 NWDR Workshop – Bielefeld
- 05/2012 Commutative Algebra and Its Interactions with Algebraic Geometry, Representation Theory, and Physics – Mexico
- 03/2011 Trimester Program on the Interaction of Representation Theory with Geometry and Combinatorics – Bonn

Invited Seminar Talks

- 2015 Paris (France)
- 2015 Uppsala (Sweden)
- 2015 Bielefeld (Germany)
- 2014 Toronto, 3 lectures (Canada)
- 2014 Stuttgart, 3 lectures (Germany)
- 2013 Hamburg (Germany)
- 2013 Cologne (Germany)
- 2013 Mainz (Germany)
- 2011 Bielefeld (Germany)
- 2011 Osnabrück (Germany)

Teaching

- Summer 15 Seminar on Manifolds and Lie Groups
- Summer 14 Seminar on Frobenius Algebras and Separable Algebras
- Winter 13/14 Seminar on Kac-Moody Algebras and Hall Algebras
- Summer 13 Seminar on Algebraic Groups
- Winter 12/13 Teaching assistant for Lie Algebras and Lie Groups
- Summer 12 Teaching assistant for Algebra
- Winter 11/12 Teaching assistant for Groups, Rings & Modules
- 2007-2010 Exercise classes in Linear Algebra, Representation Theory, Algebra and Algebraic Topology

Hobbies

- Sport Running, Badminton
- Music Piano, Percussion

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