

CURRICULUM VITAE

CHRISTIAN BÖHNING

General information

Date of birth: September 27, 1978
Place of birth: Rotenburg/Wümme, Germany
Citizenship: German

Research interests

Algebraic geometry, representation and invariant theory, derived category methods in birational geometry

Education

Habilitation	Mathematics, University of Göttingen, December 2009, thesis “The rationality problem in invariant theory”
Doctoral thesis (PhD)	Mathematics, summa cum laude, University of Bayreuth, July 2005; thesis “Derived categories of coherent sheaves on rational homogeneous manifolds”, advisor Prof. Dr. Fabrizio Catanese
Diplom	Mathematics (physics as second subject), University of Göttingen, November 2001; thesis “Canonical surfaces in \mathbb{P}^4 and Gorenstein algebras in codimension 2”, advisor Prof. Dr. Fabrizio Catanese
Abitur	Domgymnasium Verden, June 1997

Academic mentors with special importance for scientific development

Prof. Dr. Fedor Bogomolov (Courant Institute of Mathematical Sciences, NYU, New York), Prof. Dr. Fabrizio Catanese (Bayreuth), Prof. Dr. Yuri Tschinkel (Courant Institute of Mathematical Sciences, NYU, New York)

Positions

- October 2011–now Heisenberg fellow (senior research fellow) of the German Research Foundation (DFG)
- April 2010 – September 2011 Acting Professor at the University of Hamburg
- October 2005– March 2010 assistant (wissenschaftlicher Assistent) at the University of Göttingen
- November 2001–September 2005 teaching fellow (wissenschaftlicher Mitarbeiter) at the University of Bayreuth

Awards and prizes

- 2011 Preis des Stiftungsrates der Stiftung Universität Göttingen 2010 in der Kategorie “Herausragende Nachwuchspublikation” (prize of the University of Göttingen in the category “outstanding young researcher’s publication”)
- 1997 Bundessieger Bundeswettbewerb Mathematik (winner federal German math competition)
- 1996 winner of competition “Alte Sprachen-Antike Kultur” (German Liberal Arts/ancient languages competition); reception into the Studienstiftung des deutschen Volkes
- 1995 participant of the program “Center for Talented Youth” of Johns Hopkins University, Franklin & Marshall College/Pennsylvania, through accomplishment in Bundeswettbewerb Mathematik

Scholarships, funding and grants

October 2011 – now : Heisenberg Grant BO 3699/1-1 of the German Research Foundation (DFG)
(runs for 3 years, with a possible extension by 2 years after a positive interim review; amounts granted: 4553 Euro/month for 21 months in Germany, 5668 Euro/month for 12 months in the USA 5296 Euro/month for 3 months in the UK, plus potential extra allowances on request)

1998-2001: Scholarship of the Studienstiftung des deutschen Volkes

Selected recent invited talks and research stays

- Courant Institute of Mathematical Sciences, February-April 2014; research stay and talks
- Oxford University, February 2014; talk
- University of Marburg, February 2014; talk
- Algebraic Geometry and Moduli seminar, ETH Zürich, December 2013; talk
- Research seminar Algebraic Geometry Leibniz-Universität Hannover, November 2013; talk
- NoGAGS (Northern German Algebraic Geometry Seminar), Humboldt Universität Berlin, November 2013; talk
- Symposium on Mathematics Universität Basel, October 2013; talk
- Conference Classification of Algebraic Varieties and related topics, September 2013, Cetraro, Italy; talk
- Complex Algebraic Geometry, Oberwolfach Workshop, May 2013
- Workshop on matrix factorizations, ESI Vienna, May 2013
- Technische Universität Chemnitz, May 2013; talk
- Courant Institute of Mathematical Sciences, February-April 2013; research stay and talks
- Seminar Algebraische Geometrie, Universität Bayreuth, November 2012; talk
- School (and Workshop) on Invariant Theory and Projective Geometry, Trento, September 2012, talk
- Higher School of Economics, Laboratory of Algebraic Geometry, Moscow August 2012, research stay and talk
- Conference Birational Geometry and Derived Categories, Vienna August 2012, talk

- Courant Institute of Mathematical Sciences, March-May 2012, research stay and talk
- Johann Wolfgang Goethe-Universität Frankfurt, November 2011; talk
- Complex Algebraic Geometry, Oberwolfach Workshop, September/October 2011, talk
- DMV annual meeting Cologne, September 2011, talk in section “Algebraische Geometrie und Komplexe Analysis”
- Conferences Derived Categories in Algebraic Geometry & In Honor of F. Bogomolov, Moscow September 2011, research stay and talk
- Workshop Instantonen und Rationalität von Modulräumen, November/December 2010, Berlin, talk
- Conference Perspectives on Algebraic Varieties, Levico Terme, September 2010, talk
- University of Vienna, August 2010, research stay and talk
- Oberwolfach Workshop Moduli Spaces in Algebraic Geometry, January 2010, talk
- Scuola Normale Superiore, Centro Di Giorgi, Pisa, October 2009, research stay
- IHES, Paris, April 2009, research stay
- Courant Institute of Mathematical Sciences, NYU, New York, February 2008, research stay and talk

Refereeing (selected)

Mathematische Annalen
 Compositio Mathematica
 Journal of Algebraic Geometry
 Crelle’s Journal
 Central European Journal of Mathematics
 Manuscripta Mathematica

Students

Bachelor student Theresa Backsmann (Bachelor degree: fall 2011), thesis
 “Krümmungsinvarianten bezüglich verschiedener Transformationsgruppen in der
 Differentialgeometrie” (curvature invariants w.r.t. different transformation groups in
 differential geometry)

Referee for various bachelor theses at the University of Göttingen in the period 2005 to 2010

Discussion of and influence on research of Benjamin Blum-Smith, Yitzhak Kornbluth (doctoral students supervised by Prof. Dr. Fedor Bogomolov at CIMS, NYU)

Current address

PD Dr. Christian Böhning
Fachbereich Mathematik
Bundesstraße 55
D-20146 Hamburg
Germany

Email

`christian.boehning@math.uni-hamburg.de`

Homepage

<http://www.math.uni-hamburg.de/home/boehning/>

Hamburg, May 2014