

Andreas Bode

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Date of birth: 27/12/1990
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Professional

01/2018 – 07/2019 Postdoctoral Research Assistant, University of Oxford

My current research is in the area of arithmetic geometry and representation theory, in particular $\widehat{\mathcal{D}}$ -module theory on rigid analytic spaces and analytic representations of p -adic Lie algebras and Lie groups.

Education

2014 – 2018 PhD in Pure Mathematics, University of Cambridge.
Supervisor: S. Wadsley
Topic: $\widehat{\mathcal{D}}$ -modules on rigid analytic spaces
2010 – 2014 BA+MMath in Mathematics (Distinction).
University of Cambridge (College: Peterhouse)

Publications

$\widehat{\mathcal{D}}$ -modules on rigid analytic spaces, PhD Thesis.

Completed tensor products and a global approach to p -adic analytic differential operators, arXiv 1803.02183.

To appear in Math. Proc. Camb. Philos. Soc.

A Proper Mapping Theorem for coadmissible $\widehat{\mathcal{D}}$ -modules, arXiv 1807.01086. To appear in Münster Journal of Math.

(with T. Bitoun) *Extending meromorphic connections to coadmissible $\widehat{\mathcal{D}}$ -modules*, arXiv 1812.05000.

(with K. Ardakov, S. Wadsley) *$\widehat{\mathcal{D}}$ -modules on rigid analytic spaces III*, in preparation.

Conferences

- 02/19 Non-Archimedean Geometry and Applications, Oberwolfach
- 10/18 Conference on Arithmetic Algebraic Geometry, Bonn
- 06/18 Workshop p -adic Riemann–Hilbert correspondence, Darmstadt
- 12/17 \mathcal{D} -modules, geometric representation theory, and arithmetic applications, Oxford
- 10/17 Quantum geometric and algebraic representation theory, Bonn
- 07/17 Geometric Representation Theory, Glasgow
- 06/17 Postgraduate Group Theory Conference, Cambridge
- 06/17 Representation Theory at the Crossroads of Mathematics, Reims
- 09/16 Geometric Representation Theory and Beyond, Oxford
- 09/16 Heidelberg Laureate Forum
- 06/16 Postgraduate Group Theory Conference, London
- 03/16 Algebraisation and Geometrisation in the Langlands Program, Bristol
- 03/16 British Mathematical Colloquium, Bristol
- 08/15 Young Researchers in Mathematics, Oxford
- 07/15 Postgraduate Group Theory Conference, Bristol

I was one of the organizers of the Postgraduate Group Theory Conference in Cambridge, 27–30/06/17.

Talks and posters

- 11/18 Arithmetic Geometry Seminar, Rennes:
A Proper Mapping Theorem for coadmissible $\widehat{\mathcal{D}}$ -modules
- 11/18 Algebra and Representation Theory Seminar, Cambridge:
A Proper Mapping Theorem for coadmissible $\widehat{\mathcal{D}}$ -modules
- 06/18 p -adic Riemann–Hilbert correspondence, Darmstadt:
Rigidity of geometric p -adic representations
- 02/18 Junior Algebra Seminar Cambridge:
Holonomic \mathcal{D} -modules, b -functions and coadmissibility
- 06/17 Representation Theory at the Crossroads of Mathematics, Reims (Poster):
Coadmissible $\widehat{\mathcal{D}}$ -modules on rigid analytic flag varieties
- 05/17 Junior Geometry and Topology Seminar Warwick:
Coadmissible $\widehat{\mathcal{D}}$ -modules on rigid analytic flag varieties
- 10/16 Junior Algebra Seminar Cambridge:
Flatness properties of p -adic Banach modules
- 09/16 Heidelberg Laureate Forum (Poster):
Coadmissible $\widehat{\mathcal{D}}$ -modules on rigid analytic flag varieties
- 06/16 Postgraduate Group Theory Conference, London:
Towards a Beilinson–Bernstein correspondence for rigid analytic flag varieties
- 11/15 Junior Algebra Seminar Cambridge:
Fréchet–Stein algebras and $\widehat{\mathcal{D}}$ -modules on rigid analytic spaces

Teaching

- Oxford: Linear Algebra (Tutorials), Groups and Group actions (Tutorials), Noncommutative Rings (Examples Classes).
In Hilary Term 2019, I am lecturing a postgraduate course on \mathcal{D} -module theory.
- Cambridge: Supervisions in IA Groups, IB Linear Algebra, IB Groups, Rings and Modules, II Representation Theory.
Part III Lie Algebras and their Representations (Examples classes, 2016).