Penghui Li
Curriculum Vitae

Hausel Group
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Education

B.S. Hong Kong University of Science and Technology, 2011
PhD. University of California, Berkeley, 2016
Thesis title: Uniformization of semistable bundles on ellitpic curves.
Thesis advisor: David Nadler, UC Berkeley.

Employment

2016-current, Postdoc researcher, Hausel Group, IST Austria

Honors

2015 Spring Fellowship, UC Berkeley
2010 Epison Fund Award, HKUST

Publication

1. (with David Nadler), *Uniformization of semistable bundles on elliptic curves*, arXiv:1510.08762. Submitted
2. *Derived categories of character sheaves*, arXiv:1803.04289. Submitted.
3. *A colimit of traces of reflection groups*, arXiv:1810.07039.

Teaching

Linear algebra and differential equations, discussion sections, Fall 2015
Linear algebra and differential equations, discussion sections, Spring 2014
Linear algebra and differential equations, discussion sections, Fall 2013
Linear algebra and differential equations, discussion sections, Spring 2013

Talks

1. *Some progress on Betti geometric Langlands in genus 1*, TSIMF, Sanya, Nov 2018
2. *Some progress on Betti geometric Langlands in genus 1*, BICMR, Beijing, Sep 2018

3. *Perverse sheaves and quantum groups*, Geometry working seminar, IST Austria, Mar 2018

4. *Analytic atlas for stack of semistable bundles on elliptic curve and elliptic character sheaves* , Workshop "Quantum Geometric and Algebraic Representation Theory", Bonn, Oct 2017

5. *Elliptic genera*, Geometry working seminar, IST Austria, Mar 2017

6. *Character sheaves*, Geometry working seminar, IST Austria, Nov 2016

   Nearby and vanishing cycles, Geometric Representation Seminar, Berkeley, Dec 2015

7. *Analytic uniformization of semistable bundles on elliptic curves*, GRASP Seminar, Berkeley, Nov 2015

8. *Character sheaves*, Geometric Representation Seminar, Berkeley, May 2015

9. *Analytic uniformization of* $Bun_G^{0,ss}(E)$, Geometric Langlands and derived algebraic geometry, CIRM, Luminy, April 2015

10. *What is the exponential map?*, Geometric Representation Theory Seminar, Berkeley, March 2014

11. *Geometry of adjoint quotient*, Geometric Representation Theory Seminar, Berkeley, December 2013

12. *Moduli stack of semistable G-bundles on elliptic curve*, Geometric Representation Theory Seminar, Berkeley, September 2013

13. *Problem sections: Geometry of Hecke categories*, New Geometric Techniques in Number Theory, MSRI, July 2013

14. *Introduction to Hodge theory*, Student Algebraic Geometry Seminar, Berkeley, April 2013

15. *Log canonical threshold and b-function*, Student Algebraic Geometry Seminar, Berkeley, November 2012

16. *Symplectic geometry of holonomic D-modules*, Geometric Representation Theory Seminar, Berkeley, September 2012

17. *Example oriented introduction to D-modules*, Geometric Representation Theory Seminar, Berkeley, September 2012

18. *Beilinson-Bernstein localization theorem*, Independent study on D-modules, Northwestern, April 2012