

Fei Qi

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Education

Rutgers University

Ph.D., Mathematics, Expected May 2018.

Advisor: Yi-Zhi Huang

Chern Institute of Mathematics, Nankai University

M.S., Mathematics, 2012.

Advisor: Chengming Bai

South China University of Technology

B.S., Mathematics, 2008.

Dissertation

Representation Theory and Cohomology Theory of Meromorphic Open-String Vertex Algebras

Publications

Fei Qi, *On the cohomology of meromorphic open-string vertex algebras*, in preparation.

Fei Qi, *Representations of meromorphic open-string vertex algebras*, in preparation.

Fei Qi, *Meromorphic open-string vertex algebras on the sphere*, in preparation.

Yi-Zhi Huang, Fei Qi, *The first cohomology, derivations and the reductivity of a vertex algebra*, in preparation.

Bud Coulson, Shashank Kanade, James Lepowsky, Robert McRae, Fei Qi, Matthew C. Russell, Christopher Sadowski, *A motivated proof of the Göllnitz-Gordon-Andrews identities*, Ramanujan Journal, September 2015.

Unpublished Notes

Classification to 2-dimensional Hom-Novikov algebras

Solutions to associative Yang-Baxter equations up to dimension 5

Construction of infinite dimensional Lie bialgebras and pre-Lie bialgebras

Seminar Talks

A cohomological criterion for the reductivity for modules for vertex algebras, Lie Groups / Quantum Mathematics Seminar, Rutgers University, Oct. 6, 2017.

What is a meromorphic open string vertex algebra, Algebra Seminar, Rutgers University, Sep. 21, 2016.

Plus 13 talks in different Graduate Student Seminars.

Teaching

Summer 2017	Instructor	Introduction to Real Analysis I
Spring 2017	TA	Differential Equations for Science and Engineering
Fall 2016	TA	Introduction to Real Analysis I
Summer 2016	Instructor	Introduction to Real Analysis I
Spring 2016	TA	Introduction to Real Analysis I
Fall 2015	Online TA	Advanced Calculus for Engineering
Summer 2015	Instructor	Differential Equations for Science and Engineering
Spring 2015	TA	Differential Equations for Science and Engineering
Fall 2014	TA	Differential Equations for Science and Engineering
Summer 2014	Instructor	Calculus I
Spring 2014	TA	Differential Equations for Science and Engineering
Fall 2013	TA	Differential Equations for Science and Engineering

Teaching evaluations for all the courses I taught can be found on my webpage.

Awards

Academic Excellence Award (for high score in the written qual), Spring 2013

TA Teaching Excellence Award, Spring 2016

TA Professional Development Fund, Summer 2016, Summer 2017

Excellence Fellowship for Dissertation Work, Fall 2017

Services

Mentor of Directed Reading Program. Mentees: Rachel Barnett, Austin Chennault, Jing Yu.

Mentor of REU Program. Mentee: Arthur Wang.

Organizer of Graduate Student Vertex Operator Algebra Seminar, Spring 2016, Spring 2015, Fall 2014.

Facilitator of International TA Orientation, 2015, 2016, 2017

References

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Charles Weibel
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