

Teng FEI

tfei@math.mit.edu

<http://math.mit.edu/~tfei/>

MIT, Department of Mathematics,

2-341A, 77 Massachusetts Ave., Cambridge, MA, 02139.

Employment

- **Ritt Assistant Professor (to be)** New York, NY
Department of Mathematics, Columbia University Aug. 2016 -

Education

- **Ph.D. in mathematics** Cambridge, MA
Department of Mathematics, MIT Aug. 2011 - Jun. 2016
Advisors: Prof. Shing-Tung Yau (Harvard)
Prof. Victor Guillemin (MIT)
- **B.Sc. in Mathematics and Physics** Beijing, China
Academic Talent Program, Tsinghua University Sep. 2007 - Jun. 2011

Publications and Preprints

- *On lower central series quotients of finitely generated algebras over \mathbb{Z}* , joint work with K. Cordwell and K. Zhou, *Journal of Algebra* 423, 559-572 (2015), arXiv: 1309.1237.
- *Invariant solutions to the Strominger system on complex Lie groups and their quotients*, joint work with S.-T. Yau, *Communications in Mathematical Physics* 338(3), 1183-1195 (2015), arXiv: 1407.7641.
- *Stable forms, vector cross products and their applications in geometry*, arXiv: 1504.02807.
- *A construction of non-Kähler Calabi-Yau manifolds and new solutions to the Strominger system*, submitted, arXiv: 1507.00293.
- *Some torsional local models of heterotic strings*, arXiv:1508.05566, to appear in *Comm. Anal. Geom.*.

Invited Talks

- January 2016, Math Seminar, Fudan University, Shanghai.
- December 2015, Geometry and Physics Seminar, Boston University, MA.
- November 2015, Geometric Analysis Seminar, McGill University, QC.
- November 2015, String Seminar, Perimeter Institute, Waterloo, ON.
- November 2015, Workshop on Algebraic Varieties, Fields Institute, Toronto, ON.
- October 2015, Geometric Analysis Seminar, Northwestern, Evanston, IL.
- September 2015, CMSA Geometric Analysis Seminar, Harvard University, Cambridge, MA.
- March 2014, NTU & NCTS/TPE & TIMS joint geometry seminar, Taipei.
- May 2013, MIT-RTG Mirror Symmetry Workshop, Big Bear Lake, CA.

Selected Teaching and Mentoring Experience

- 2016 Spring 18.06 Linear Algebra, course administrator and recitation leader
- 2015 Fall 18.085(1) Computational Science and Engineering I, TA
- 2015 Spring 18.02 Calculus, recitation leader
- 2012 Summer Research Science Institute (RSI) mentor, MIT
- 2011-2015 Direct Reading Program mentor

Selected Honours and Awards

- 2011-2012 Presidential Fellowship, MIT
- 2010 Gold Medal winner of S.-T. Yau College Student Mathematics Contests