

# Tsinghua Mathcamp

<http://web.mit.edu/hschan/www/TsinghuaMathcamp2014/TsinghuaMathcamp2014.html>

The Tsinghua Mathcamp is a summer camp for mathematically talented and strongly motivated secondary school students from all across China. This year, a highly selected group of students will be invited to join a three-week rigorous program to explore the art of creative problem solving with mathematical masters. The Mathcamp will also offer a range of opportunities for students to work on research projects through collaborative discoveries guided by their coaches and teachers. Camp activities are geared towards sparking creativity in students rather than facts gathering.

The 2014 camp will be primarily sponsored by the Department of Mathematical Sciences at Tsinghua University, and the Tsinghua Mathematical Sciences Center.

Here will be our plan for this year's camp:

- Time: the 3-week camp runs during July 20 – August 8, 2014.
- Place: Tsinghua University Campus in Beijing
- Camp activities: there will be three  $1\frac{1}{2}$ -hour classes every weekday conducted by research mathematicians; in addition, we have a 2-to-3-hour discussion session in small groups led by coaches who are advanced undergraduate or graduate students recruited from China and the U.S.; all classes and discussions are expected to be conducted in English. Highlights of the camp include lecture presentations and reports by students; they also feature guest lectures by world renowned mathematicians, including Richard Stanley, Professor of Applied Mathematics from the Massachusetts Institute of Technology, and Shing-Tung Yau, Professor of Mathematics from Harvard University and Tsinghua Mathematical Sciences Center. In addition, the Mathcamp may organize weekend excursions to famous institutions and historical attractions in Beijing.
- Subjects: daily lectures will covers topics from Linear Algebra, Number Theory, Topology and Analysis.
- Selection criteria: students are selected on a competitive basis from a group of students nominated by some of the top high schools across China prior to the Mathcamp. About thirty of the best students, aged 15-17, will be invited to the camp.
- Tuition fees: This year will be free of charge. But in future years, we expect to charge a reasonable tuition.
- Campers' daily transportation, room and board: parents or guardians of campers shall agree to make their own arrangements.