

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

ANNOUNCEMENT OF WINNERS

of the seventy-first competition held on December 4, 2010

WINNING TEAMS

Rank	School	Team Members (in alphabetical order)
1	CALIFORNIA INSTITUTE OF TECHNOLOGY	Yakov Berchenko-Kogan, Jason C. Bland, and Brian R. Lawrence
2	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Sergei S. Bernstein, Whan Ghang, and Jacob N. Steinhardt
3	HARVARD UNIVERSITY	Kevin Lee, Arnav Tripathy, and Alex (Lin) Zhai
4	UNIVERSITY OF CALIFORNIA, BERKELEY	Shiyu Li, Evan M. O'Dorney, and David D. Gee
5	UNIVERSITY OF WATERLOO	Steven N. Karp, Boyu Li, and Malcolm A. Sharpe

The first place team receives an award of \$25,000 and each member of the team receives \$1,000. The awards for second place are \$20,000 and \$800; for third place \$15,000 and \$600; for fourth place \$10,000 and \$400; and for fifth place \$5,000 and \$200.

In each of the following categories, the listing is in alphabetical order.

THE PUTNAM FELLOWS—THE FIVE HIGHEST RANKING INDIVIDUALS

Each receives an award of \$2,500.

YU DENG	Massachusetts Institute of Technology
BRIAN R. LAWRENCE	California Institute of Technology
SEOK HYEONG LEE	Stanford University
COLIN P. SANDON	Massachusetts Institute of Technology
ALEX (LIN) ZHAI	Harvard University

THE NEXT NINE HIGHEST RANKING INDIVIDUALS

Each receives an award of \$1,000.

IURIE BOREICO	Harvard University
VLAD FIROIU	Massachusetts Institute of Technology
ERIC K. LARSON	Harvard University
ZEHAO LI	Worcester Polytechnic Institute
TENGYU MA	Rice University
GYUJIN OH	Stanford University
JOHN V. PARDON	Princeton University
JACOB N. STEINHARDT	Massachusetts Institute of Technology
ARNAV TRIPATHY	Harvard University

THE NEXT TEN HIGHEST RANKING INDIVIDUALS

Each receives an award of \$250.

YAKOV I. BERCHENKO-KOGAN	California Institute of Technology
SERGEI S. BERNSTEIN	Massachusetts Institute of Technology
JASON C. BLAND	California Institute of Technology
ZARATHUSTR A. BRADY	California Institute of Technology
WHAN GHANG	Massachusetts Institute of Technology
WILLIAM A. JOHNSON	University of Washington, Seattle
KONSTANTIN MATVEEV	University of Toronto
XIAOSHENG MU	Yale University
EVAN M. O'DORNEY	University of California, Berkeley
ALEXANDR ZAMORZAEV	Massachusetts Institute of Technology

HONORABLE MENTION—TEAMS

DUKE UNIVERSITY
PRINCETON UNIVERSITY
STANFORD UNIVERSITY
UNIVERSITY OF BRITISH COLUMBIA
UNIVERSITY OF TORONTO

Vivek Bhattacharya, Alan Guo, and Mikhael P. Lavrov
Xue Liu, John V. Pardon, and Tengyao Wang
Jeffrey Chen, Seok Hyeong Lee, and Jae Hyun Park
Mohammad Bavarian, Karlming Chen, and Ronnie Chen
Konstantin Matveev, Alexander Remorov, and Sida Wang

HONORABLE MENTION—INDIVIDUALS

ROHIT AGRAWAL, University of Minnesota, Twin Cities
ALEXANDER G. ANDERSON, Washington University, St. Louis
FRANK D. BAN, University of Waterloo
MOHAMMAD BAVARIAN, University of British Columbia, Vancouver
JOHN D. BERMAN, Massachusetts Institute of Technology
TIMOTHY J. BLACK, California Institute of Technology
CRAIG M. BURKHART, Harvey Mudd College
YI-WEI CHAN, University of Illinois, Urbana-Champaign
YU CHENG, Massachusetts Institute of Technology
PAUL F. CHRISTIANO, Massachusetts Institute of Technology
MILES D. EDWARDS, Indiana University, Bloomington
SAM S. ELDER, California Institute of Technology
IAN A. FRANKEL, Princeton University
DAVID D. GEE, University of California, Berkeley
HIRAM B. GOLZE, Brigham Young University
SHERRY GONG, Harvard University
BRIAN C. HAMRICK, Massachusetts Institute of Technology
TRAVIS J. HANCE, Massachusetts Institute of Technology
NATHAN R. HARMAN, University of Massachusetts, Amherst
MATTHEW A. HARRISON-TRAINOR, University of Waterloo
MARCELLO M. HERRESHOFF, Stanford University
ADAM C. HESTERBERG, Princeton University
IN-JEE JEONG, Brown University
STEVEN N. KARP, University of Waterloo
SAM G. KELLER, Stanford University
ERICK P. KNIGHT, Princeton University
JUSTIN KOPINSKY, University of Illinois, Urbana-Champaign
EMIL T. LALOV, Connecticut College
MIKHAIL P. LAVROV, Duke University
PAK HIN LEE, Stanford University

AVI W. LEVY, University of Texas, Dallas
PAUL D. LEWIS, University of Michigan, Ann Arbor
DANIEL LI, Massachusetts Institute of Technology
SHIYU LI, University of California, Berkeley
SUNKYU LIM, Stanford University
KEVIN LIN, University of Rochester
ZHI KIN LOKE, Stanford University
NIKITA LVOV, McGill University
JEFFREY A. MANNING, California Institute of Technology
PALMER C. MEBANE, Harvey Mudd College
OFIR NACHUM, Massachusetts Institute of Technology
LYUBOSLAV N. PANCHEV, Stanford University
DANIEL E. POORE, Pomona College
YUE PU, Purdue University, West Lafayette
ALEXANDER REMOROV, University of Toronto
ELINA M. ROBEVA, Stanford University
DAVID S. ROLNICK, Massachusetts Institute of Technology
DAVID B. RUSH, Massachusetts Institute of Technology
KRISHANU R. SANKAR, Massachusetts Institute of Technology
JONATHAN SCHNEIDER, Massachusetts Institute of Technology
NATHANIEL B. SHAR, Stanford University
MINSEON SHIN, Massachusetts Institute of Technology
ANTHONY Y. WANG, Massachusetts Institute of Technology
TENGYAO WANG, Princeton University
YINGHUI WANG, Massachusetts Institute of Technology
CHIU WAI WONG, Massachusetts Institute of Technology
GEORGE L. XING, Massachusetts Institute of Technology
GJERGJI ZAIMI, California Institute of Technology
ZEYIN ZHANG, University of Michigan, Ann Arbor
ALEX W. ZORN, University of Chicago

ELIZABETH LOWELL PUTNAM PRIZE

Winner receives an award of \$1,000

YINGHUI WANG

Massachusetts Institute of Technology

QUESTIONS COMMITTEE

Bjorn Poonen (Chair), Massachusetts Institute of Technology; Izabella Laba, University of British Columbia; and George T. Gilbert, Texas Christian University.

A total of 4296 students from 546 colleges and universities in Canada and the United States participated in the Competition. There were teams from 442 institutions. More complete details will appear in the *American Mathematical Monthly*.

March 7, 2011

Leonard F. Klosinski, Director; Gerald L. Alexanderson, Loren C. Larson and Mark Krusemeyer, Associate Directors