# THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

# ANNOUNCEMENT OF WINNERS of the seventy-fourth competition held on December 7, 2013

#### WINNING TEAMS

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.

	MITCHELL M. LEE	Massachusetts Institute of Technology
116	ZIPEI NIE	Massachusetts Institute of Technology
	EVAN M. O'DORNEY-	Harvard University
	BOBBY C. SHEN	Massachusetts Institute of Technology
	DAVID H. YANG	Massachusetts Institute of Technology

#### THE NEXT FOURTEEN HIGHEST RANKING INDIVIDUALS

#### Each receives an award of \$1,000.

CALVIN DENG	Harvard University
MALCOLM J. GRANVILLE	Harvard University
LINUS U. HAMILTON	Carnegie-Mellon University
BRIAN C. HAMRICK	Massachusetts Institute of Technology
TRAVIS J. HANCE	Massachusetts Institute of Technology
XIAOYU HE	Harvard University
BUMSOO KIM	Princeton University
OINXUAN PAN	Massachusetts Institute of Technology
ERIC D. SCHNEIDER	Princeton University
THOMAS E. SWAYZE	Carnegie Mellon University
KA YU TAM	Massachusetts Institute of Technology
SZU-PO WANG	Massachusetts Institute of Technology
SAMUEL ZBARSKY	Carnegie Mellon University
TIANYOU ZHOU	Massachusetts Institute of Technology

# THE NEXT SIX HIGHEST RANKING INDIVIDUALS

#### Each receives an award of \$250.

MATTHEW S. BRENNAN	Massachusetts Institute of Technology
MICHAEL B. COHEN	Massachusetts Institute of Technology
RAVI K. FERNANDO	Stanford University
BENJAMIN P. GUNBY	Massachusetts Institute of Technology
HAOYANG HUANG	Massachusetts Institute of Technology
VICTOR Y. WANG	Massachusetts Institute of Technology

### HONORABLE MENTION—TEAMS

BRIGHAM YOUNG UNIVERSITY DUKE UNIVERSITY UNIVERSITY OF CALIFORNIA, BERKELEY UNIVERSITY OF WATERLOO WASHINGTON UNIVERSITY, ST. LOUIS Peter H. Baratta, Samuel J. Dittmer, and Tianyi Yang Alex Milu, Tong Qiao, and Daniel Vitek Indraneel G. Kasmalkar, Shiyu Li, and Qingyun Wu Kangning (Colin) Chen, Volodymyr Lyubinets, and Hao Sun Anthony Grebe, Patrick Lopatto, and Jongwham Park

# HONORABLE MENTION—INDIVIDUALS

DHROOVA S. AIYLAM, Massachusetts Institute of Technology JOSHUA H. ALMAN, Massachusetts Institute of Technology

ANDRE A. ARSLAN, Princeton University

ROBI C. BHATTACHARJEE, Massachusetts Institute of Technology

SIYUAN CAI, Northwestern University HERMAN H. CHAU, Stanford University CHARLES C. CHEN, Stanford University

KANGNING (COLIN) CHEN, University of Waterloo YONGYI CHEN, Massachusetts Institute of Technology PING NGAI CHUNG, Massachusetts Institute of Technology ALEXANDER R. COLE, Massachusetts Institute of Technology CARLOS A. CORTEZ, Massachusetts Institute of Technology

SAMUEL J. DITTMER, Brigham Young University

THAO T. DO, Stony Brook University OCTAV I. DRAGOI, Harvard University SAM EISENSTAT, University of Waterloo

VLAD FIROIU, Massachusetts Institute of Technology

YIBO GAO, Massachusetts Institute of Technology

ALBERT F. GU, Carnegie Mellon University

HAN HAO, New York University LYNDON L. JI, Yale University

ZHAORONG JIN, California Institute of Technology

PAKAWUT JIRADILOK, Harvard University

SUPANAT KAMTUE, Massachusetts Institute of Technology INDRANEEL G. KASMALKAR, University of California, Berkeley

SAM G. KELLER, Stanford University

ARCHIT U. KULKARNI, Carnegie Mellon University

AARON LANDESMAN, Harvard University

JASON M. LI, Carnegie Mellon University KEVIN K. LI, California Institute of Technology

RAY YU LI, Carnegie Mellon University

CARL LIAN, Massachusetts Institute of Technology

DAVID J. LIU, Harvard University

ALEXANDROS MOUSATOV, Yale University DAT P. NGUYEN, Stony Brook University LYUBOSLAV N. PANCHEV, Stanford University

LYUBUSLAV N. PANCHEV, Stantord University TOAN D. PHAN, Harvard University

MARIYA SARDARLI, Princeton University

JEFFREY D. SHEN, Massachusetts Institute of Technology

JEONG SOO SIM, Stanford University

LAWRENCE J. SUN, Massachusetts Institute of Technology JONATHAN B. TIDOR, Massachusetts Institute of Technology MAX H. TIMMONS, Massachusetts Institute of Technology

BARRY JIA HAO TNG, Harvard University

GEORGIOS VLACHOS, Massachusetts Institute of Technology

SUNG SEOB WHANG, Brown University

TIANQI WU, Massachusetts Institute of Technology

XIAO WU, Yale University

JEFFREY YAN, Harvard University

PATRICK B. YANG, Massachusetts Institute of Technology

WIJIT YANGJIT, Rensselaer Polytechnic Institute

LYNNELLE L. YE, Stanford University

QIAN YU, Massachusetts Institute of Technology ZHIVKO N. ZHECHEV, Stanford University

ALEX J. ZHU, Massachusetts Institute of Technology YUQl ZHU, California Institute of Technology

# ELIZABETH LOWELL PUTNAM PRIZE

The winner receives an award of \$1,000.

XIAO WU

Yale University

#### QUESTIONS COMMITTEE

Djordje Milićević, Bryn Mawr College, Chair; Hugh Montgomery, University of Michigan, Ann Arbor; and David Savitt, University of Arizona.

A total of 4113 students from 557 colleges and universities in Canada and the United States participated in the Competition. There were teams from 430 institutions. More complete details will appear in the American Mathematical Monthly.

March 7, 2014 Leonard F. Klosinski, Director; Gerald L. Alexanderson and Mark Krusemeyer, Associate Directors