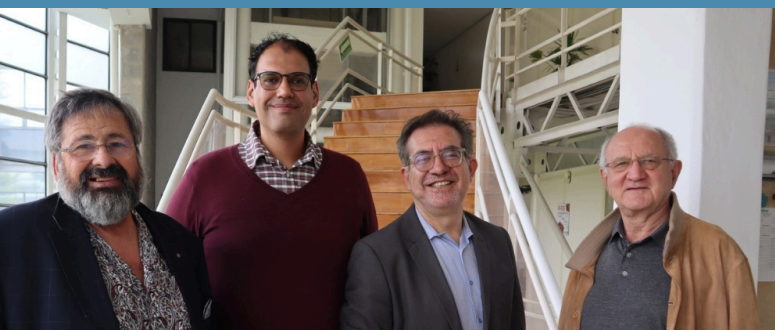# IMSA

Newsletter

1st José Adem Prize
for Mathematics Research
in Mexico
Awarded to
Luis Nuñez
Betancourt
September 2, 2024

1st José Adem Prize
for Mathematics Research in México
September 2, 2024
El Palacio de Autonomia

September 3, 2024
Room 131, Department of Mathematics, Cinvestav-IPN

The José Adem Prize for Mathematical Research in Mexico is awarded biennially to recognize and honor mathematicians residing in Mexico who have made significant contributions to the field. The award includes a monetary award of $5,000 USD, a certificate of recognition and a medal.

The Institute of Mathematical Sciences of the Americas (IMSA) of the University of Miami and the Mexican Academy of Sciences (AMC) are proud to announce the winner of the first José Adem Prize for Mathematical Research in Mexico.

Award Ceremony

The award ceremony will take place on September 2, 2024, at 6:00 p.m. at El Colegio Nacional, Mexico. The event will feature notable speakers and prominent figures from the mathematics community.

For more information and details visit:
https://eventos.math.cinvestav.mx/premio_adem_24

Sponsored by the Simons Foundation/IMSA and the University of Miami

Fall 2024

New!!
Monthly Lecture Series - On the Geometry of the Cotangent Bundle and Hyperbolicity
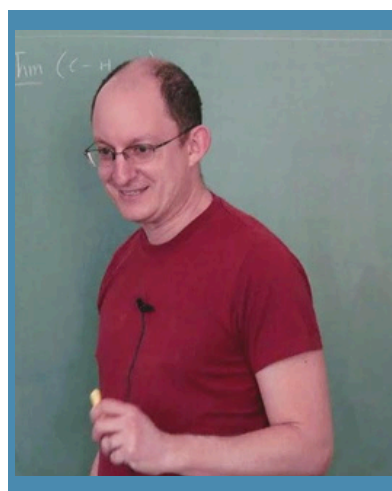October 30, 2024
Yum-Tong Siu, *Harvard University*
Hyperbolicity and Holomorphic Jet Differentials
&
Izzet Coskun, *University of Illinois at Chicago*
Algebraic Hyperbolicity of Hypersurfaces and Lang-type Conjectures

Short Courses and Seminars – Fall 2024

Wednesday, October 2, 2024 at 5:00 pm

Ian Hambleton, McMaster University
Euler Characteristics in Dimension Four

Thursday, October 3, 2024 at 5:00 pm

Ian Hambleton, McMaster University
Finite 2-complexes and 4-manifolds

November 4-8, 2024
Conference: Characteristic Classes of Singular Varieties and Their Applications
Organizer: Jose Seade
Speakers: Jean-Paul Brasselet, Jorg Schurmann, Jose Seade, Jose Luis Cisneros-Molina, Agustin Romano, Jakub Koncki, Irma Pallares, Laurentiu Maxim, Matthias Zach, Leonardo Mihalcea, Paolo Aluffi, Richard Rimanyi, Andrzej Weber and Guillermo Penafort.

November 11–15, 2024
Conference: Singularities and Geometric Structures
Organizer: Javier Fernandez de Bobadilla

Speakers: Atsushi Takahashi, Cheol Hyun Cho, Agustin Romano, Igor Burban, Filip Matej, Simon Felten, Rodolgo Aguilar, Phillip Griffiths, Helge Ruddat, Nero Budur, Ludmil Katzarkov and Kyungmin Rho.

NOVEMBER 18–22, 2025
Conference: Recent Advances in Mirror Symmetry and Degenerations
Organizer: Helge Ruddat

Speakers: Bernd Siebert, Jakob Hultgren, Cheol Hyun Cho, Javier Fernandez de Bobadilla, Michel van Garrel, Siu Cheong Lau, Ju Tan, Ilia Zarkov, Cheuk Yu Mak, Maria Pe Pereira, Nero Budur, Umut Varolgunes, Andras Nemethi, Teng Fei, Yoel Groman and Pablo Portilla.

November 23-25, 2024

Conference: Workshop on Differential Equations and Mathematical Biology

Organizer: Xi Huo

Plenary Speakers: Qing Nie, Jianhing Wu, Simon Levin, Glenn Webb, Maia Martcheva, Alan Hastings, Arnaud Ducrot and Dongmei Xiao,
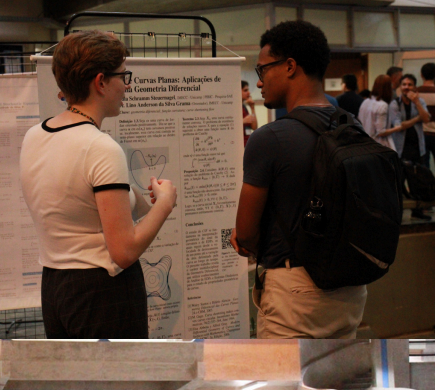
Special Session: Gail S. K. Wolkowic, Jaqueline Mesquita, Xueying Wang, Daihai He, Yijun Lou, Xiaoying Han, Joanna Wares, Troy Day, Cameron Browne, Ousmane Seydi, Necibe Tuncer, Wenrui Hao, Xinfeng Liu, Xinyue Zhao, Sebastian Schreiber, Daozhou Gao, Rachidi Salako, Yixiang Wu, Zhisheng Shuai, Xiaoqiang Zhao, Christopher Kribs, Libin Rong, Chunhua Shan, Yuan Yuan, Gergely Rost, Teresa Faria, Francesca Scarabel, Dimitri Breda, Xiang-Sheng Wang, Gonzalo Ricardo Robledo Veloso, Guangyu Zhao, Thomas Hillen, Yanyu Xiao, Guihong Fan, Karen R. Rios Soto, Marco Tosato, Hayriye Gulbudak, Stanca Ciupe, Sue Ann Campbell, King-Yeung Lam, Yu Jin, Christopher Walker, Rossana Vermigio, Sabrina Streipert, Antonio Mateus Barreto Gondim, James Watmough, Qiuyi Su, Tianyu Cheng, Linhao Xu, Shangbing Ai, Quentin Griette, Wenxian Shen and Yulei Cheng

DECEMBER 2-6, 2024

IMECC - UNICAMP

Workshop to Celebrate 55 Years of the Brazilian Mathematics Society (SBM)

DECEMBER 16–19, 2024

International Education Workshop on the Theory of Atoms: Foundations, Advances and Future Directions

IMSA

January
23 & 24
2025

New Developments in Birational Geometry
January 23 & 24, 2025
in Ungar 528-B

Paulo Casini

Imperial College

Thursday, 1/23/2025 Speakers
Paulo Casini, Ivan Cheltsov,
Phillip Griffiths and Ludmil Katzarkov

1365 Memorial Drive, Ungar
ldg, Room 528-B, Coral Gables,
FL 33146

Ivan Cheltsov

University of
Edinburgh

Phillip Griffiths

IAS and UM

Friday, 1/24/2025 Speakers
Arman Sarikyan, Leonardo Cavenaghi,
Zhijia Zhang, Kyoung-Seog Lee, Kaiqi Yang and
Rene Mboro

Sponsored by the Simons Foundation and
the University of Miami

SIMONS
FOUNDATION

Call for Nominations

MATHEMATICAL WAVES, MIAMI

January 27-30, 2025

Click or Scan the QR Code to submit a nomination

A committee of world renowned mathematicians will award three prizes to leading Latin American Mathematicians. Deadline to submit a nomination is: **Monday, December 2nd, 2024**

Winners will be announced **Monday, December 16th, 2024.**

SIMONS FOUNDATION

IMSA INSTITUTE OF THE MATHEMATICAL SCIENCES OF THE AMERICAS AT THE UNIVERSITY OF MIAMI

Conference Announcement

Mathematical Waves, Conference and Prizes
January 27-30, 2025 at Lakeside Village Pavilion

IMSA Prize: Celebrating Excellence in Latin America
5:30 pm on Wednesday, January 29, 2025 at Lakeside Village Auditorium

Speakers:
Romina M. Arroyo, CONICET, Argentina
Paul Bressler, Universidad de los Andes, Colombia
Alicia Dickenstein, University of Buenos Aires, Argentina
Oscar Garcia-Prada, ICMAT, Spain
Jaqueline Godoy Mesquita, University of Brasilia, Brazil
Lino Grama, State University of Campinas, Brazil
Rita Jiménez Rolland, UNAM, México
Jorge Lauret, Universidad Nacional de Córdoba, Argentina
Alfredo Nájera Chávez, Universidad Nacional Autónoma de México, Oaxaca
Luis Núñez-Betancourt, CIMAT, México
Maria A. Soares Ruas, University of São Paulo
Marcelo Viana , IMPA, Brazil
Miguel Xicoténcatl, Cinvestav, México

For more information visit:
imsa.miami.edu

SIMONS FOUNDATION

Sponsored by the Simons Foundation and University of Miamii

THURSDAY, JANUARY 30TH 2025, 5:30PM

FROST INSTITUTE FOR CHEMISTRY AND MOLECULAR SCIENCE, SEMINAR ROOM 115

IMSA

ANNUAL MCKNIGHT-ZAME LECTURE

NICOLAI RESHETIKHIN

PROFESSOR EMERITUS OF MATHEMATICS, UNIVERSITY OF CALIFORNIA, BERKELEY

PROFESSOR OF MATHEMATICS, YMSC, TSINGHUA UNIVERSITY, BEIJING

PROFESSOR OF MATHEMATICAL PHYSICS, UNIVERSITY OF AMSTERDAM

PROFESSOR RESHETIKHIN IS A DISTINGUISHED MATHEMATICAL PHYSICIST AND A PIONEER IN QUANTUM GROUP THEORY, KNOWN FOR CO-CREATING THE RESHETIKHIN-TURAEV INVARIANT. HIS RESEARCH SPANS QUANTUM TOPOLOGY, QUANTUM GROUPS, INTEGRABLE SYSTEMS, AND STATISTICAL MECHANICS.

HE IS A FELLOW OF THE AMERICAN MATHEMATICAL SOCIETY (2022), RECOGNIZED FOR CONTRIBUTIONS TO QUANTUM GROUPS, INTEGRABLE SYSTEMS, TOPOLOGY, AND QUANTUM PHYSICS. HE HAS DELIVERED TWO TALKS AT THE INTERNATIONAL CONGRESS OF MATHEMATICIANS, INCLUDING A PLENARY LECTURE. OTHER HONORS INCLUDE THE INAUGURAL WEYL-WIGNER AWARD (2022) AND ELECTION AS A CORRESPONDENT MEMBER OF THE ROYAL DANISH ACADEMY OF SCIENCES AND LETTERS (2010).

"On the Ising Model in Statistical Mechanics"

The Ising model is probably one of the most famous models in stationary statistical mechanics. It describes the magnetization and the corresponding phase transition. A remarkable feature of the two-dimensional model is that it admits an exact (in a certain sense) solution. This lecture is an overview of the two-dimensional model and some of its features such as Dobrushin-Kotecky-Shlosman droplets, scaling properties of correlation functions, conformal invariance and others.

Following the McKnight-Zame Lecture, there will be a piano performance by Liya Nigmati, an accomplished pianist and educator. Ms. Nigmati has performed internationally in venues across Italy, Japan, Russia, the USA, and more, earning acclaim for her expressive and stunning performances. Currently a Staff Pianist at the New England Conservatory and Boston Conservatory at Berklee, she is also an active collaborator with prominent artists and ensembles. We are delighted to have her share her artistry as part of this special event.

LIYA NIGMATI

SIMONS FOUNDATION

"Homological Mirror Symmetry", a Conference in Celebration of Maxim Kontsevich's 60th Birthday
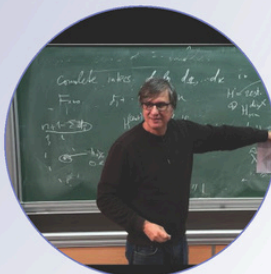

JANUARY 30 TO FEBRUARY 2, 2025

SIMONS FOUNDATION

Supported by the Simons Foundation and the University of Miami
For more information visit: imsa.miami.edu

Speakers:

Mohammed Abouzaid, Stanford
Hulya Arguz, University of Georgia
Denis Auroux, Harvard
Leonardo Cavenaghi, IMECC
Alessio Corti, Imperial College London
Yakov Eliashberg, Stanford
Daniel Halpern-Leistner, Cornell
Maxim Kontsevich, IHES
Ernesto Lupercio, Cinvestav
Nikita Nekrasov, SCGP

John Pardon, SCGP
Alexander Polishchuk, University of Oregon
Nicolai Reshetikhin, Beijing Institute of Mathematical Sciences and Applications
Paul Seidel, MIT
Artan Sheshmani, Beijing Institute of Mathematical Sciences and Applications
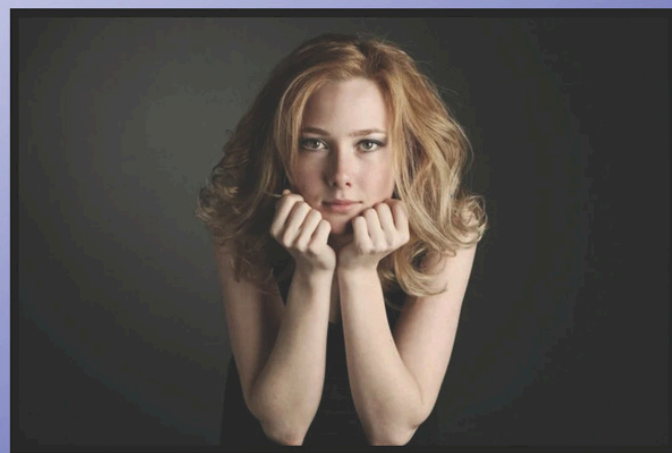*Andras Szenes,* Universite de Geneve
Constantin Teleman, Berkeley
Bertrand Toen, Université Paul Sabatier in Toulouse
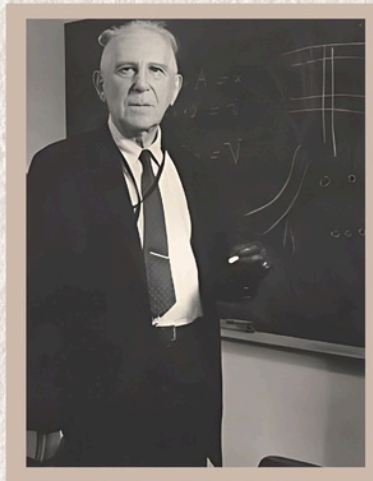*Tony Yue Yu,* Caltech

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LIYA NIGMATI

IMSA
Lefschetz Centennial Conference

Speakers Include:

Rodolfo Aguilar, UM
Mark de Cataldo, Stony Brook
Ron Donagi, UPENN,
Phillip Griffiths, IAS, UM
Bruno Klingler, Humboldt University of Berlin
Kyoung-Seog Lee, POSTECH
Ernesto Lupercio, Cinvestav
Tony Pantev, UPENN
Carlos Simpson, University of Nice
Dennis Sullivan, Stony Brook
Alberto Verjovsky, UNAM
Claire Voisin, CNRS
Filip Zivanovic, SCGP

March 24 - 27, 2025

1365 Memorial Drive
Ungar Building, Room 528-B
Coral Gables, FL 33146

Solomon Lefschetz

SIM NS
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Sponsored by the Simons Foundation and the University of Miami

More Upcoming Events 2025

April 1-4, 2025
Conference: Topological States of Matter

APRIL 21-25, 2025
CONFERENCE: ICMAT & IMSA JOINT EVENT: DIFFERENTIAL AND STABILITY CONDITIONS

May 6-7, 2025
Conference: Integrable Systems

August 7-9, 2025
Theory of Atoms, Sofia
Joint Event with ICMS

August 11-14, 2025
Complex Geometry at Large
Joint Event with ICMS

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