# PREVIOUS WINNERS

#### 2016 PROF. NATHALIE Q. BALABAN

Racah Institute of Physics, Faculty of Science Biological Physics of Self-Replication

#### O15 PROF. RE'EM SARI

Racah Institute of Physics, Faculty of Science Understanding Our Universe

#### 2014 PROF. MICHAL BIRAN

Departments of Asian Studies, and Islamic and Middle Eastern Studies, Institute of Asian and African Studies, Faculty of Humanities

Inner Asian History: Mobility Empire and Cross-Cultural Contacts in Mongol Eurasia

#### 2013 PROF. ROI BAER

Institute of Chemistry and Fritz Haber Minerva Research Center for Molecular Dynamics, Faculty of Science

Developing New Theoretical and Computational Techniques that Enable Determination of the Energy Levels of Charge Carriers in Large Molecular Systems and Nanocrystals

#### 2012 DR. ERAN MESHORER

Department of Genetics, Silberman Institute of Life Sciences, Faculty of Science
Using Genome-Wide Approaches and Sophisticated Imaging Techniques to Understand Genome
Plasticity in Stem Cells

#### 2011 PROF. DAVID WEISBURD

Institute of Criminology, Faculty of Law

Pioneering Research on White Collar Crime, Policing, and Crime Prevention

#### 2010 PROF. MERAV AHISSAR

Department of Psychology and Program in Cognitive Sciences, Faculty of Social Sciences The Neuro-Cognitive Basis of Reading Disability - The "Anchoring-Deficit" Hypothesis

#### 2009 PROF. ISAIAH TUVIA (SHY) ARKIN

Department of Biological Chemistry, Silberman Institute of Life Sciences, Faculty of Science Structural Biology of Membrane Proteins, Focusing on Pathogen's Ion Channels and Ion Pumps

#### 2008 PROF. URI BANIN

Institute of Chemistry and the Center for Nanoscience & Nanotechnology, Faculty of Science Major Advancements in the Science and Technology of Nanocrystals and the Development of Hybrid Multifunctional Nanoparticles

#### 2007 PROF. HOWARD (CHAIM) CEDAR

Department of Developmental Biology and Cancer Research, Institute for Medical Research Israel-

Establishing the Cornerstone of Epigenetics and Its Role in Human Development



## KLACHKY PRIZE for the Advancement of the Frontiers of Science

The/Donor

The Klachky Prize for the Advancement of

The Advancement of Science The Advancement of Scientific Research The Advancement of Scientific Knowledge

The Advancement of the Frontiers of Science

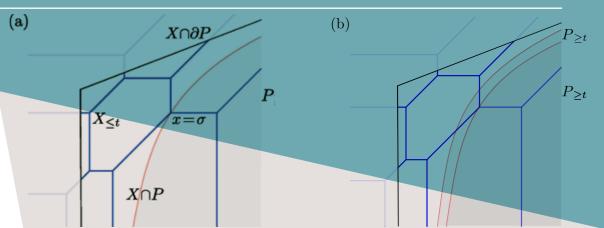
**New Academic** Developments **Academic Ventures** 

Rachel Klachky (1925-2001) was born in of the Mexican Friends of The Hebrew

Fellowship from The Hebrew University and Leopoldo, continued her legacy of for her outstanding contributions to the support to The Hebrew University of

of Jerusalem. She wholeheartedly supported worthy causes, including scholarships for students, and support and studies on superconductivity at The Hebrew University.

After she passed away, her sons, Roberto awarded since 2003.



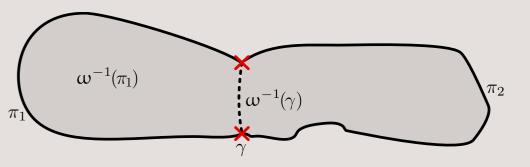
### The Klachky Prize for 2017



Einstein Institute of Mathematics Faculty of Science

Karim Adiprasito is German by nationality. He owes his name to an Indonesian grandfather who came to Germany as an engineer and first introduced young Karim to mathematics through asking him mathematical riddles every time he visited. Adiprasito earned his Ph.D. in differential geometry and combinatorics in 2013 at Freie Universitäet Berlin in Germany with Guenter Ziegler. Subsequently, he undertook post-doctorate work at the Institute des Hautes Études Scientifiques (IHES) near Paris and the Institute for Advanced Study (IAS) at Princeton before joining The Hebrew University.

## DR. KARIM ADIPRASITO



b)

As a researcher, Karim Adiprasito is fascinated by connections between different areas of mathematics, in particular the interplay between combinatorial (or discrete) and continuous structures. An important instance of such a phenomenon is the Maxwell-Cremona correspondence, which goes back to late

Renaissance study of statics in architecture. He used this technique to study (discrete) partial differential relations which govern, for instance, the behavior of flowing water or electromagnetic fields to solve a problem going back to Legendre more than 200 years ago. Furthermore, he used this technique to describe combinatorially how algebraic

Interplay between Combinatorial and

Continuous Structures in Mathematics

objects intersect, which led to the solution to a famous conjecture of Rota. Currently, he is working with a student to analyze algorithms in scientific computing using their symmetries and attempting to understand extremal properties of certain algebraic objects.

