



istanbul matematiksel bilimler merkezi
istanbul center for mathematical sciences

DISCRETE MATHEMATICS DAYS

Saturday, October 27, 2018

09:00 - 09:30: Registration

09:30 - 09:45: Opening Talks

09:45 - 10:30: **Müge Taşkın Aydın** (Boğaziçi University, Istanbul)

Combinatorics of Young and Tower Diagrams

10:30 - 11:15: **Zafeiriakis Zaferopoulos** (Gebze Technical University, Kocaeli)

Using Polyhedral Geometry in Combinatorics

11:15 - 12:00: **Mohan Ravichandran** (Mimar Sinan University, Istanbul)

Counting Independent Sets in Graphs and Hypergraphs

12:00 - 13:30: Lunch

13:30 - 14:30 (*Special Lecture*): **Yusuf Civan** (Süleyman Demirel University, Isparta)

Castelnuovo-Mumford Regularity of Graphs

14:30 - 15:15: **Hamza Yeşilyurt** (Bilkent University, Ankara)

Shifted and Shiftless Partition Identities

15:15 - 15:30: Coffee Break

15:30 - 16:15: **Kağan Kursungöz** (Sabancı University, Istanbul)

Andrews-Gordon type series for Capparelli's Identities, Kanade-Russell Conjectures, and Schur's Identity

16:15 - 17:00: **Jehanne Dousse** (Univesitat Zürich, Switzerland)

A Combinatorial Approach to Partition Identities from Representation Theory

17:00 - 17:15: Coffee Break

17:15 - 18:00: **Ali Kemal Sinop** (TOBB University of Economics and Technology, Ankara)

Semidefinite Programming, Sum-of-Squares Hierarchies and Combinatorial Optimization

Sunday, October 28, 2018

09:45 - 10:30: **Fatih Demirkale** (Yıldız Technical University, Istanbul)

Anti-Pasch Maximal Partial Triple Systems

10:30 - 11:15: **Şule Yazıcı** (Koç University, Istanbul)

Embedding Partial Latin Squares into Sets of MOLS

11:15 - 12:00: **Sibel Özkan** (Gebze Technical University, Kocaeli)

On Resolvable Cycle Decompositions

12:00 - 13:30: Lunch

13:30 - 14:30 (*Special Lecture*): **Cem Güneri** (Sabancı University, Istanbul)

On Linear Complementary Pair of Codes

14:30 - 15:15: **Elif Segah Öztaş** (Karamanoğlu Mehmetbey University, Karaman)

Algebraic Coding Theory, DNA codes

15:15 - 15:30: Coffee Break

15:30 - 16:15: **Oktay Ölmez** (Ankara University, Ankara)

Difference Set Methods and Their Links to Codes

16:15 - 17:00: **Ezgi Kantarcı** (University of Southern California, US)

Connecting Peak and Descent Polynomials

17:30: Dinner

Place: IMBM Seminar Room, Boğaziçi University South Campus