The International Conference

Complex and Harmonic Analysis III, Holon—Haifa

in Memory of Uri Srebro

Sunday, June 4, 2017 - Holon

15:00 – 16:00 Registration

16:00 – 16:30 Welcome

Chairman: Lawrence Zalcman

16:30 – 17:20 Matti Vuorinen, University of Turku, Finland

Metric and quasiconformal mappings

17:30 – 18:20 Eduard Yakubov, Holon Institute of Technology, Israel

The Beltrami equation and related classes of mappings

18:30 – 18:50 Visit to the laboratory

19:00 – Get together

Monday, June 5, 2017 - Holon

Chairman: Matti Vuorinen

9:00 – 9:50 Stanislav Hencl, Charles University, Czech Republic

Diffeomorphic approximation of Sobolev homeomorphisms

10:00 – 10:50 Filippo Bracci, Università di Roma "Tor Vergata", Italy

Convex maps in higher dimensions

10:50 – 11:10 Coffee break

Session 1

Chairman: Daoud Bshouty

11:10 – 11:40   Mark Agranovsky, Bar-Ilan University & Holon Institute of Technology, Israel

On algebraically integrable domains

11:45 – 12:15   Irina Markina, University of Bergen, Norway

Extremal problems for modules

12:20 – 12:50   Azimbay Sadullaev, National University of Uzbekistan, Uzbekistan

Potential theory in the class of subharmonic functions

Session 2

Chairman: M. Elena Luna--Elizarraràs

11:10 – 11:40   Alexander Goncharov, Bilkent University, Turkey

Orthogonal Polynomials on generalized Julia sets

11:45 – 12:15   Arthur Danielyan, University of South Florida, USA

An extension of Fatou's interpolation theorem and applications

12:20 – 12:50   Michael Shapiro, Holon Institute of Technology, Israel

On a class of holomorphic mappings in $\mathbf{C}^2$ related to bicomplex numbers

12:50 – 14:00 Lunch

Chairman: Andrei Lerner

14:00 – 14:50 Carlos Pérez, University of the Basque Country, BCAM and Ikerbasque, Spain

Rough singular integrals and the maximal function: new borderline weighted estimates

Session 1

Chairman: Elijah Liflyand

15:00 – 15:30   Fedor Pakovich, Ben-Gurion University of the Negev, Israel

Recomposing rational functions

15:35 – 16:05   Pekka Alestalo, Aalto University, Finland

Extension of bilipschitz maps: a short survey

Session 2

Chairman: Andrei Lerner

15:00 – 15:30   Samuel L. Krushkal, Bar-Ilan University, Israel

Holomorphic contractibility of Teichmüller spaces

15:35 – 16:05   Bo'az Klartag, Weizmann Institute & Tel Aviv University, Israel

Gaussian measure of a tubular neighborhood of a complex-analytic set

16:05 – 16:25 Coffee break

Session 1

Chairman: Daoud Bshouty

16:25 – 16:55   Elijah Liflyand, Bar-Ilan University, Israel

Hausdorff operators in H^p spaces, $0 < p < 1$

17:00 – 17:30   Humberto Rafeiro, Pontificia Universidad Javeriana, Colombia

Maximal and Riesz potential operators with rough kernel in non-standard function spaces

17:35 – 18:05   M. Elena Luna--Elizarràs, Holon Institute of Technology, Israel

On a new type of conformality in four--dimensional spaces

Session 2

Chairman: Massimo Lanza de Cristoforis

16:25 – 16:55   Vladimir Gol'dshtein, Ben-Gurion University of the Negev, Israel

Applications of the hyperbolic geometry to the Neumann problem

17:00 – 17:30   Alexander Ukhlov, Ben-Gurion University of the Negev, Israel

Quasiconformal geometry of Neumann eigenvalues in Ahlfors domains

19:00   Conference Dinner in the restaurant "Bukhara haYafa"

Tuesday, June 6, 2017

Excursion to Caesarea and Zikhron Yaakov

Wednesday, June 7, 2017 - Haifa

10:00 – 10:30 Welcome

Chairman: Daoud Bshouty

10:30 – 11:20 Aimo Hinkkanen, University of Illinois at Urbana-Champaign, USA

Complex dilatation and the Cartan-Kähler theory

11:20 – 11:40 Coffee break

Chairman: Aimo Hinkkanen

11:40 – 12:10 Daoud Bshouty, Technion, Israel

The Bombieri problem for univalent functions

12:20 – 12:50   Vladimir Ryazanov, Inst. Appl. Math. Mech., NAS of Ukraine, Ukraine

On the boundary value problems in the plane: an alternative approach

12:50 – 14:00 Lunch

14:00 – 14:50 Alexander Solynin, Texas Tech University, USA

Themes on the Bohr's phenomenon for power series

Session 1

Chairman: Anatoly Golberg

15:00 – 15:30   Massimo Lanza de Cristoforis, Università degli studi di Padova, Italy

Analytic dependence of a periodic analog of a fundamental solution upon the periodicity parameters

15:35 – 16:05   Ritva Hurri-Syrjänen, University of Helsinki, Finland

On the John-Nirenberg 2nd result and beyond

16:10 – 16:40   Yurii Kolomoitsev, University of Lübeck, Germany

On the growth of Lebesgue constants for convex polyhedra

Session 2

Chairman: Stanislav Hencl

15:00 – 15:30   Pekka Pankka, University of Helsinki, Finland

Quasiregular extensions of cubical Alexander maps

15:35 – 16:05   Genadi Levin, Hebrew University of Jerusalem, Israel

Transversality for critical relations of families of rational maps: an elementary proof

16:10 – 16:40   Vladimir Rovenski, University of Haifa, Israel

A Godbillon-Vey type invariant for 3-dimensional manifold with a plane field

16:40 – 17:00 Coffee break

17:00   The 30th Elisha Netanyahu Memorial Lecture- Prof. Gil Kalai, Hebrew University

Thursday, June 8, 2017 - Holon

Chairman: Toshiyuki Sugawa

9:00 – 9:50 Laurent Baratchart, INRIA, France

Rational and Meromorphic Approximation to certain Functions with Polar Singular Set

10:00 – 10:50 Hiroaki Aikawa, Hokkaido University, Japan

Dichotomy of global capacity density

10:50 – 11:15 Coffee break

Chairman: Hiroaki Aikawa

11:15 – 11:45 Toshiyuki Sugawa, Tohoku University, Japan

An application of the Loewner theory

11:50 – 12:20 Yosef Yomdin, Weizmann Institute of Science, Israel

How Can Singularity Theory help in Reconstruction of Sparse Signals?

12:25 – 12:55 Mark Elin, Ort Braude College, Israel

Analyticity of semigroups on the right half-plane

13:00 – 13:30 Lev Buhovsky, Tel Aviv University, Israel

0.01% improvement of the Liouville property for discrete harmonic functions on $\mathbf{Z}^2$

13:30 – 13:40 Closing

13:40 – 14:30 Lunch