

INSTITUTE OF ADVANCED STUDIES IN MATHEMATICS

Technion-Israel Institute of Technology



THE 2ND INTERNATIONAL WORKSHOP

on

PLANAR HARMONIC MAPPINGS

7-13 January, 2000

Room 232
Amado Mathematics Building
Technion, Haifa, Israel

The Workshop will be held under the auspices of the Institute of Advanced Studies in Mathematics at the Technion and will be devoted to recent developments in the study of planar harmonic mappings and their applications.

Organizers: Dov Aharonov, Daoud Bshouty and Uri Srebro

For further information :

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PROGRAM

Friday, 7 January

Morning session

09:00-09:45 Walter Hengartner (St. Foy, Quebec)
p-valent Harmonic Mappings

09:45-10:30 Walter Hengartner
Regular Minimal Surfaces whose Gauss Map Covers Exactly a Half-Sphere.

10:30-11:00 


11:00-11:45 Peter Duren (Ann Arbor, Michigan)
Harmonic Mappings and Minimal Surfaces

Sunday, 9 January

Morning session

09:00-09:45 Registration


09:45-10:30 Allen Weitsman (West Lafayette, Indiana, U.S.A.)
On the Poisson Integral of Step Functions and Minimal Surfaces

10:30-10:45 

10:45-11:30 Frode Ronning (Wuerzburg, Germany)
Sharp Conditions for Starlikeness Given by the Range of the Derivative

Afternoon session

14:00-14:40 Anatolii Kopylov (Novosibirsk, Russia)
On Mappings Close to Harmonic Mappings

14:40-15:00 

15:00-15:40 Michael Dorff (Rolla, Missouri)
Planar Harmonic Mappings, Minimal Surfaces and Convolution

15:40-16:00 Daoud Bshouty (Technion)
p-Valent Convex mappings

16:00-17:00 Problem Session I

17:00  


Reception in 8th floor faculty lounge

Monday, 10 January

Morning session

09:00-09:45 Peter Duren (Ann Arbor, Michigan)
Curvature of Minimal Surfaces


09:45-10:30 Peter Duren
Schwarzian Derivatives of Harmonic Functions

10:30-11:00 

11:00-11:20 Lisa Lorentzen (Wuerzburg, Germany)
General Convergence in Quasi-Normal Families

Afternoon session

14:00-14:45 Ramazan Abdulaev (Tbilisi, Republic of Georgia)
On a Family of Minimal Surfaces Bounded by Broken Lines in \mathbf{R}^3

14:45-15:15 


15:15-15:40 Lisbeth Schaubroeck (Colorado Springs, U.S.A.)
Affine and Linear Invariant Families

Tuesday, 11 January

Morning session

09:00-09:45 Gerhard Opfer (Hamburg, Germany)
On Upper Bounds of the Moduli of Doubly and Triply Connected Regions


09:45-10:30 Gerhard Schmeisser (Erlangen, Germany)
Sampling of Planar Harmonic Functions

10:30-11:00 

11:00-11:20 N.V. Kalpakam (Madras, India)
Fourier Transform for Boehmians

Afternoon session

14:00-14:40 Iskander Nezhmetdinov (Kazan, Russia)
Counterparts of the Support and Extreme Points for Dual
Classes of Analytic and Harmonic Functions

14:40-15:00 

15:00-15:20 Galina Kamyshova (Saratov, Russia)
Robin Capacity and Symmetrization

Wednesday, 12 January




08:00 Excursion to Jerusalem

Thursday, 13 January

Morning session

09:00-09:45 Walter Hengartner (St. Foy, Quebec)
Logharmonic Mappings

09:45-10:30 Samuel Krushkal (Bar Ilan, Israel)
Quasiconformal Deformations Decreasing L_p Norm

10:30-11:00 

11:00-11:20 Wieslaw Majchrzak (Lodz, Poland)
Harmonic Univalent Mappings into a Half-Plane with
Nonreal Slits

Afternoon session

14:00-14:20 Roger Barnard (Lubbock, Texas)
Applications of Special Functions to Geometric Function Theory

14:20-14:40 Adolf Stephen (Madras, India)
On Harmonic Convex Mappings

14:40-15:00 Santosh Joshi (Sangli, India)
Some Sufficient Conditions for Starlikeness