

Complex Analysis & Dynamical Systems IV

The Program

Monday, May 18

9:00-11:00				Coffee and Registration			
11:00-11:45				Opening Professor D. Hershkowitz, Minister of Science and Technology Professor Y. Arzi, President of ORT Braude College Professor D. Shoikhet, Vice President for Academic Affairs			
11:50-12:40				Plenary Talk <p style="text-align: center;">G. Q. Chen</p> Nonlinear conservation laws of mixed type in mechanics and geometry			
12:45-14:00				Lunch			
		Session 1		Session 2		Session 3 Special Session Control Theory	
14:00-14:30		<p style="text-align: center;">D. Khavinson</p> ``Fingerprints'' of the two dimensional shapes and lemniscates		<p style="text-align: center;">M. Demuth</p> Where are the eigenvalues of nonselfadjoint operators?		<p style="text-align: center;">G. Kurina</p> Asymptotic solution of optimal control problems with intermediate points and small parameter in performance index	
14:35-15:05		<p style="text-align: center;">K. Dyakonov</p> Blaschke products and non-ideal ideals in Lipschitz algebras		<p style="text-align: center;">B. Rubin</p> Comparison of volumes of convex bodies in real, complex, and quaternionic spaces		<p style="text-align: center;">A. Zaslavski</p> Optimal control systems arising in economic dynamics	
15:10-15:40		<p style="text-align: center;">L. Aizenberg and E. Liflyand</p> Hausdorff operators on Hardy spaces in \mathbb{C}^n		<p style="text-align: center;">V. Golubyatnikov</p> Dynamics in <i>p53-Mdm2</i> DNA damage repair network		<p style="text-align: center;">I. Ioslovich</p> Optimal control of dynamical biological system: maintenance of balanced growth and development	
15:40-16:10				Coffee Break			
16:10-16:40		<p style="text-align: center;">F. Bracci</p> Evolution families and the Loewner equation		<p style="text-align: center;">M. Monastyrskii</p> Hecke surfaces and duality transformations in lattice spin models		<p style="text-align: center;">V. Turetsky</p> Cheap control in generalized linear-quadratic differential game	
16:45-17:15		<p style="text-align: center;">T. Kuczumow</p> Intersections of holomorphic retracts		<p style="text-align: center;">A. Ukhlov</p> Composition Operators in Sobolev spaces			
17:20-17:50		<p style="text-align: center;">S. Plaksa</p> Commutative algebras associated with classic equations of mathematical physics		<p style="text-align: center;">M. Karmanova</p> The area formula for Lipschitz mappings of Carnot-Carathéodory spaces			

Tuesday, May 19

9:00-9:50	Plenary Talk <p style="text-align: center;">M. Lyubich Renormalization and infinite-dimensional complex geometry</p>		
	Session 1	Session 2	Session 3
10:00-10:30	A. Vasiliev Conformal field theory viewpoint on contour dynamics	V. Rabinovich Essential spectra and exponential estimates of eigenfunctions of lattice operators of quantum mechanics	L. Andersson Hidden symmetries and the wave equation on Kerr
10:35-11:00	Coffee Break		
11:00-11:30	A. Solynin Some recent results in classical complex analysis	J. Kozićki Quantum stabilization of systems of interacting anharmonic oscillators	J. Isenberg Asymptotic gluing of asymptotically hyperbolic solutions to the Einstein Constraint equations
11:35-12:05	A. G. O'Farrell Reversible biholomorphic germs	Y. Pinchover On Liouville theorems for p-Laplacian-type equations	J. Smulevici Structure of singularities of spacetimes with toroidal or hyperbolic symmetry
12:10-12:40	D. Prokhorov Asymptotic coefficient estimates for regular and singular Löwner trajectories	V. Liskevich Some qualitative properties of second-order elliptic and parabolic equations	F. Schwartz On the topology of black holes
12:45-14:30	Lunch		
14:30-15:00	C. Beneteau Zeros of certain kernel functions in the Fock space	B. Paneah Noncommutative dynamical systems with two generators and their applications in analysis	M. Reiris Scalar curvature, the isoperimetric inequality and the Einstein flow in the Constant Mean Curvature gauge
15:05-15:35	Y. Weit On the translates of powers of a continuous periodic function	V. Katsnelson The truncated Fourier Operator	B. Smith Black hole initial data with a horizon of prescribed intrinsic geometry
15:35-16:10	Coffee Break		
16:10-16:40	S. Krushkal Zalcman's conjecture and related problems	E. Saucan Triangulations, quasiregular mappings and differential geometry	
16:45-17:15	S. Díaz-Madrigal Generalized Loewner chains in the unit disk	M. Dalla Riva A singularly perturbed nonlinear traction problem in linearized elastostatics	
17:20-17:50	R. Dwilewicz Global holomorphic approximations of Cauchy-Riemann functions		
21:00	Entertainment at "La Scala Club" , Carlton, Nahariya		

Wednesday, May 20

9:00-9:50	Plenary Talk <p style="text-align: center;">V. Maz'ya Higher order elliptic problems in non-smooth domains</p>		
9:50-10:00	Coffee Break		
	Session 1	Session 2	Session 3
10:00-10:30	<p style="text-align: center;">S. Kaliman Algebraic density property of homogeneous spaces</p>	<p style="text-align: center;">M. Brakalova Circle-like behavior and asymptotic homogeneity</p>	<p style="text-align: center;">P. Chruściel On the characteristic Cauchy problem in general relativity</p>
10:35-11:05	<p style="text-align: center;">C. Fabritiis Continuous iteration in non-strictly convex domains: the polydisk case</p>	<p style="text-align: center;">B. Bojarski The Beltrami equations: 54 years</p>	<p style="text-align: center;">D. Pollack Initial data for vacuum spacetimes with a positive cosmological constant</p>
11:10-11:40	<p style="text-align: center;">T. Casavecchia A rigidity condition for generators in strongly convex domains</p>		<p style="text-align: center;">D. Maxwell On solutions of the Einstein constraint equations obtained by the conformal method</p>
11:45	Lunch		
13:00-19:00	Excursion to Zippori National Park A mishnaic-period city with an abundance of mosaics		
19:00-22:30	Banquet and Concert at the ORT Braude College, Karmiel		

Thursday, May 21

9:00-9:50	Plenary Talk S. Klainerman Uniqueness of stationary black holes without analyticity		
10:00-10:50	Plenary Talk A. Hinkkanen Martingales and rotations		
10:50-11:20	Coffee Break		
	Session 1	Session 2	Session 3
11:20-11:50	J. Zajac Harmonic mappings and quasihomographies in the theory of Teichmüller space	M. Lanza de Cristoforis Singular perturbation problems in potential theory: a functional analytic approach	L. Kapitanski Analytic form of the Pontrjagin-Hopf invariants
11:55-12:25	G. Gentili A geometric theory of regular functions over quaternions	J. Wirth Decay estimates for anisotropic thermo-elasticity	M. Eichmair Non-variational existence problems in geometry and general relativity
12:30-13:30	V. Zaharyuta Bases in spaces of analytic functions and applications	I. Markina The notion of the sub-Lorentzian geometry	J. Corvino Constructions of N -body solutions of the Einstein constraint equations
13:00-14:30	Lunch		
			Special Session: Algebra and Geometry
14:30-15:00	T. J. Suffridge De la Vallée Poussin Means of convex holomorphic mappings of the ball in \mathbf{C}^n	M. Reissig Decay rates for wave models with structural damping	D. Akhiezer Stein manifolds and multiplicity free representations of compact Lie groups
15:05-15:35	D. Lubinsky Universality limits for random matrices and de Branges spaces	A. Golberg Homeomorphisms with integrally restricted moduli	S. Selivanova On some metrical aspects of the theory of Carnot-Carathéodory spaces
15:35-16:10	Coffee Break		
16:10-16:40	A. Sidi Vector-valued rational interpolation in the complex plane	V. Palamodov Compulsory extension of solutions of analytic PDE	K.-D. Semmler Hyperbolic Polygons, Riemann Surfaces and Helling Matrices
16:45-17:15	F. Vlacci Rigidity for holomorphic and regular maps	A. Kytmanov On the asymptotic expansion of the conormal symbol of the singular Bochner-Martinelli integral	
17:20-17:50	A. Goldstein Plaque inverse limit and generalized conjugations of inverse dynamical systems and their applications in holomorphic dynamics		
21:00	Entertainment at "La Scala Club" , Carlton, Nahariya		

Friday, May 22

	Session 1	Session 2	Session 3
9:00-9:30	C. Bisi On proper polynomial maps of \mathbb{C}^2	I. Spitkovsky Factorization of almost periodic matrix functions, and related functional equations	R. Beig The stationary n -body problem in general relativity
9:35-10:05	A. Danielyan On an approximation problem of L. Zalcman	J. Zemanek On operators with single spectrum	S. Alexakis Unique continuation for the vacuum Einstein equations
10:10-10:40	S. Myslives On the conditions $\bar{\partial}$ -closed extension of differential forms		C. Williams Predicting long term behavior of marginally trapped tubes from initial data
10:40-11:10	Coffee Break		
11:10-12:00	Plenary Talk I. Rodnianski Black holes and linear waves		
12:05-12:15	Closing		