Fifth Turán Workshop in Mathematics
WORKSHOP ON ANALYSIS
June 1–3, 2000, Rényi Institute, Budapest

Main organizer: József Szabados (Rényi Institute)

PROGRAM

Thursday, June 1

10.00-10.15: Opening address (*Gy. Katona*, Director of the Institute)
10.15-10.35: Analysts and analysis in the Institute (*J. Szabados*, Head of Department of Analysis)
10.40-11.05: *P. Vértesi*: Problems in approximation theory

11.10-11.40: Coffee break

11.40-12.05: *T. A. Burton*: Fixed points, stability, and Bihari's inequality

12.10-14.30: Lunch break

14.30-14.55: *W. Eberhard*: Half-linear eigenvalue problems
15.00-15.25: *L. Hatvani*: On small and large solutions of half-linear differential equations
15.30-15.55: *A. Pinkus*: Some remarks on zero-increasing transformations

16.00-16.30: Coffee break

16.30-16.55: *D. Leviatan*: Remarks on coconvex approximation
17.00-17.25: *F. Schipp*: On rational orthogonal and biorthogonal systems

Friday, June 2

9.00-9.25: *Á. Elbert*: On damping of linear oscillators
9.30-9.55: *J. Jaroš*: On half-linear Picone's identity and its applications to the comparison theory of nonlinear differential equations

10.00-10.30: Coffee break

10.30-10.55: *T. Kusano*: How to count the number of zeros of nonoscillatory solutions of second order ordinary differential equations

11.00-11.25: *J. Győrvári*: The numerical solution of differential equations using modified lacunary spline functions
11.30-11.55: *G. Mastroianni*: Polynomial approximation of functions with singularities

12.00-14.30: Lunch break

14.30-14.55: *V. Totik*: On Markov inequalities
15.00-15.25: *Y. Sarantopoulos*: Bernstein and Markov type inequalities in Banach spaces

15.30-16.00: Coffee break

16.00-16.25: *A. Kroó*: Extremal properties of multivariate polynomials
16.30-16.55: *T. Erdélyi*: The phase problem: Resolution of some conjectures of Saffari on ultraflat unimodular polynomials
17.00-17.25: *J. Gróf*: Approximation on the whole real line

Saturday, June 3

9.00-9.25: *M. Laczkovich*: Orders of absolute measurability
9.30-9.55: *Z. Buczolich*: The spectral boundary of complemented invariant subspaces in $L^p(\mathbf{R})$

10.00-10.30: Coffeee break

10.30-10.55: *D. Petz*: Topics about statistical operators
11.00-11.25: *E. A. Carlen*: Many body estimates in kinetic theory
11.30-11.55: *V. Lomonosov*: A counterexample to the Bishop–Phelps theorem in complex spaces

12.00-14.30: Lunch break

14.30-14.55: *R. Nagel*: On the spectral mapping theorem for C_0-semigroups
15.00-15.25: *S. J. Smith*: Generalized Hermite–Fejér interpolation polynomials

15.30-16.00: Coffee break

16.00-16.25: *F. Móricz*: Extension of a theorem of Fejér to double Fourier–Stieltjes series

16.30-16.55: *T. Kilgore*: Some approximation properties of polynomials of degree at most $2n$ weighted by $(1+x^2)^{-n}$

17.00-17.25: *V. E. S. Szabó*: On an inequality for the sum of infima of functions