

The International Conference on Approximation Theory, Related Topics and their Applications

October 26-30, 1970, University of Maryland,
College Park, Maryland

LECTURE PROGRAM

Monday, October 26

- 9:30-10:20 — M. Golomb, Purdue University: " $\mathcal{H}^{m,p}$ -Extensions by $\mathcal{H}^{m,p}$ -Splines."
- 11:00-11:30 — A. Gleason, Harvard University: "Stochastic Interpolation."
- 11:45-12:15 — W. H. J. Fuchs, Cornell University: "On the Closure of $\{z^{ln}\}$."
- 1:45- 2:35 — D. J. Newman, Yeshiva University: "Completeness Questions for $\{F(nx)\}$."
- 3:15- 3:30 — M. Marden, University of Wisconsin-Milwaukee: "Axisymmetric Harmonic Infrapolynomials in R^N ."
- 3:35- 3:50 — J. H. Curtiss, University of Miami: "Overdetermined Harmonic Polynomial Interpolation."
- 3:55- 4:10 — D. B. Shaffer, Fairfield University: "Lemniscates and Equipotentials."
- 4:15- 4:30 — E. B. Saff, University of South Florida: "Regions of Meromorphy Determined by the Degree of Best Rational Approximation."
- 3:15- 3:30 — D. A. Sprecher, University of California, Santa Barbara: "A Survey of Solved and Unsolved Problems on Superpositions of Functions."
- 3:35- 3:50 — H. Berens, University of California, Santa Barbara: "On a Theorem of de la Valée-Poussin and its Relation to the Saturation Problem for Sequences of Positive Operators."
- 3:55- 4:10 — D. Amir, Pennsylvania State University, University Park, and Tel-Aviv University, and F. Deutsch*, Pennsylvania State University, University Park: "Suns, Moons, and Quasi-Polyhedra."
- 4:15- 4:30 — R. Askey, University of Wisconsin, Madison: "Jacobi Summability and Symmetric Tangential Limits for Harmonic Functions in Several Variables."

* The co-author who presented the paper.

Tuesday, October 27

- 9:30–10:20 — S. Karlin*, Weizmann Institute of Science, and J. M. Karon, Stanford University: “On Hermite-Birkhoff Interpolation.”
- 11:00–11:30 — P. L. Butzer, Technological University of Aachen: “Approximation Theorems for Sequences of Commutative Operators in Banach Spaces.”
- 11:45–12:15 — L. Nachbin*, University of Rochester, S. Machado, University of Wisconsin, Madison, and J. B. Prolla, University of Rochester: “Concerning Weighted Approximation, Vector Fibrations and Algebras of Operators.”
- 11:00–11:30 — J. H. Ahlberg, Brown University: “Cardinal Splines on the Real Line.”
- 1:45– 2:35 — J. Wermer, Brown University: “Invariant Subspaces and Approximation Problems.”
- 3:15– 3:30 — H. Widom, University of California, Santa Cruz: “Rational Approximation and n -Dimensional Diameter.”
- 3:35– 3:50 — A. L. Shields, University of Michigan: “On Exceptional Values of Analytic Functions.”
- 3:55– 4:10 — P. L. Duren, University of Michigan: “Smirnov Domains and Conjugate Functions.”
- 4:15– 4:30 — T. Bagby, Indiana University: “Rational Approximation in the L_p Norm.”
- 3:15– 3:30 — J. B. Diaz* and H. W. McLaughlin, Rensselaer Polytechnic Institute: “The Equivalence of the Simultaneous Chebyshev Approximation of Two Functions and the Chebyshev Approximation, with a Suitable Additive Weight, of the Average of the Two Functions.”
- 3:35– 3:50 — J. Blatter and E. W. Cheney*, University of Texas, Austin: “Extremal Problems on Projections.”
- 3:55– 4:10 — D. M. Young, University of Texas, Austin: “Second-Degree Iterative Methods for the Solution of Large Linear Systems.”
- 4:15– 4:30 — Z. Ziegler, Technion-Israel Institute of Technology: “On Trigonometric Spline Approximation.”

Wednesday, October 28

- 1:30– 2:00 — R. P. Boas, Jr., Northwestern University: “A Uniqueness Theorem for Harmonic Functions.”

* The co-author who presented the paper.

- 2:10– 2:40 — T. S. Motzkin*, University of California, Los Angeles, and A. Sharma, University of Alberta: “A Sequence of Linear Polynomial Operators and Their Approximation-Theoretic Properties.”
- 2:50– 3:05 — R. C. Buck, University of Wisconsin, Madison: “Approximation Theory and Functional Equations.”
- 3:30– 4:20 — P. J. Davis, Brown University: “Double Integrals Expressed as Single Integrals or Interpolatory Functionals.”
- 8:00– 9:00 — I. J. Schoenberg, Mathematics Research Center, U.S. Army, University of Wisconsin, Madison: “Solution of Landau’s Problem Concerning Higher Derivatives on the Halfline.”

Thursday, October 29

- 9:30–10:20 — G. Birkhoff, Harvard University: “Approximate Solution of Elliptic Equations Using Spline Functions.”
- 11:00–11:30 — D. J. Newman, Yeshiva University, and T. J. Rivlin*, IBM Research Center: “The Zeros of the Partial Sums of the Exponential Function.”
- 11:45–12:15 — A. R. Reddy, University of Toledo, and R. S. Varga*, Kent State University: “Approximation on $[0, \infty)$ by Rational Functions and Spline Functions.”
- 1:45– 2:35 — H. S. Shapiro, University of Michigan: “Estimates for a Generalized Modulus of Continuity, with Applications.”
- 3:15– 3:45 — G. Choquet, University of Paris: “Determination and Study of Positive Forms on Spaces of Functions.”
- 4:00– 4:15 — D. Gaier, University of Giessen: “Saturation in Spline Approximation and Quadrature.”
- 4:20– 4:35 — C. de Boor, Purdue University: “On calculating with B -Splines.”
- 4:40– 4:55 — A. Sinclair, Purdue University: “Approximation of Extremal Functions in H^p by a Recursion Method.”
- 5:00– 5:15 — J. L. Fields, University of Alberta: “A linear Scheme for Rational Approximations.”
- 4:00– 4:15 — L. A. Rubel*, University of Illinois, Urbana, and A. L. Shields, University of Michigan: “Invariant Hyperplanes in H^∞ .”
- 4:20– 4:35 — A. M. Davie, University of California, Los Angeles: “Bounded Approximation by Analytic Functions.”
- 4:40– 4:55 — R. C. James, Claremont Graduate School: “Quasicomplements.”

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Friday, October 30

- 9:30–10:20 — J. R. Rice, Purdue University: “On the Classification of Functions.”
- 10:45–11:15 — T. Kövari, Imperial College: “Faber Expansion and Polynomial Approximation.”
- 11:25–11:55 — G. G. Lorentz* and L. L. Schumaker: “Saturation of Positive Operators.”
- 12:05–12:55 — G. Meinardus, Erlangen–Nürnberg University: “A Survey of Some Asymptotic Results in Rational Approximation.”

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