

TRANSACTIONS
OF THE
AMERICAN MATHEMATICAL SOCIETY

EDITED BY

ROBERT D. CARMICHAEL

FRANCIS R. SHARPE

JACOB D. TAMARKIN

WITH THE COÖPERATION OF

ERIC T. BELL
OLIVE C. HAZLETT
JOHN R. KLINE
MARSTON MORSE
CAROLINE E. SEELY

EDWARD W. CHITTENDEN
EINAR HILLE
ERNEST P. LANE
GEORGE Y. RAINICH
CHARLES H. SISAM

WILLIAM C. GRAUSTEIN
AUBREY J. KEMPNER
CHARLES N. MOORE
JOSEPH F. RITT
MARSHALL H. STONE

VOLUME 34
1932

PUBLISHED BY THE SOCIETY
MENASHA, WIS., AND NEW YORK

1932

Reprinted with the permission of The American Mathematical Society

JOHNSON REPRINT CORPORATION
111 Fifth Avenue, New York, N. Y. 10003

JOHNSON REPRINT COMPANY LIMITED
Berkeley Square House, London, W. 1

First reprinting, 1964, Johnson Reprint Corporation

PRINTED IN THE UNITED STATES OF AMERICA

TABLE OF CONTENTS

VOLUME 34, 1932

	PAGE
ADAMS, C. R., of Providence, R. I. On summability of double series . . .	215
ALBERT, A. A., of Chicago, Ill. Normal division algebras of degree four over an algebraic field	363
——— On normal simple algebras	620
ALBERT, A. A., of Chicago, Ill., and HASSE, H., of Marburg, Germany. A determination of all normal division algebras over an algebraic number field	722
BARTKY, W., and MACMILLAN, W. D., of Chicago, Ill. Permanent con- figurations in the problem of four bodies	838
BLACK, A. H., of Ithaca, N. Y. Types of involutorial space transformations associated with certain rational curves	795
BROWN, A. B., and KOOPMAN, B. O., of New York, N. Y. On the covering of analytic loci by complexes.	231
CHURCHILL, R. V., of Ann Arbor, Mich. On the geometry of the Riemann tensor	126
——— Canonical forms for symmetric linear vector functions in pseudo- euclidean space.	784
COE, C. J., of Ann Arbor, Mich. Exterior motion in the restricted problem of three bodies	811
CRAMLET, C. M., of Seattle, Wash. A complete system of tensors of linear homogeneous second-order differential equations	626
CURRIER, A. E., of Cambridge, Mass. The variable end point problem of the calculus of variations including a generalization of the classical Jacobi conditions	689
DOOB, J. L., of Cambridge, Mass. The boundary values of analytic func- tions	153
DOUGLAS, J., of Cambridge, Mass. One-sided minimal surfaces with a given boundary.	731
GRAUSTEIN, W. C., of Cambridge, Mass. Parallelism and equidistance in classical differential geometry	557
HASSE, H., of Marburg, Germany. Theory of cyclic algebras over an alge- braic number field	171
——— Additional note to the author's "Theory of cyclic algebras over an algebraic number field."	727
HASSE, H., of Marburg, Germany, and ALBERT, A. A., of Chicago, Ill. A determination of all normal division algebras over an algebraic number field	722
HEDLUND, G. A., of Bryn Mawr, Pa. Poincaré's rotation number and Morse's type number	75
HILLE, E., of Princeton, N. J., and TAMARKIN, J. D., of Providence, R. I. On the summability of Fourier series. I.	757
HOPF, E., of Cambridge, Mass. Theory of measure and invariant integrals.	373

	PAGE
HULL, R., of Chicago, Ill. The numbers of solutions of congruences involving only k th powers	908
JEFFERY, R. L., of Wolfville, Nova Scotia. Non-absolutely convergent integrals with respect to functions of bounded variation	645
KOOPMAN, B. O., and BROWN, A. B., of New York, N. Y. On the covering of analytic loci by complexes	231
LANE, E. P., of Chicago, Ill. Surfaces and curvilinear congruences.	676
LANGER, R. E., of Madison, Wis. On the asymptotic solutions of differential equations, with an application to the Bessel functions of large complex order	447
MACMILLAN, W. D., and BARTKY, W., of Chicago, Ill. Permanent configurations in the problem of four bodies	838
PALL, G., of Montreal, Canada. On sums of two or four values of a quadratic function of x	98
PORITSKY, H., of Schenectady, N. Y. On certain polynomial and other approximations to analytic functions	274
ROBERTS, J. H., of Austin, Texas. Concerning topological transformations in E_n	252
SCHOENBERG, I. J., of Chicago, Ill. On finite-rowed systems of linear inequalities in infinitely many variables	594
SEIDEL, W., of Cambridge, Mass. On the cluster values of analytic functions	1
SIMMONS, H. A., of Evanston, Ill. Classes of maximum numbers and minimum numbers that are associated with certain symmetric equations in n reciprocals	876
STEPHENS, R., of Iowa City, Iowa. Continuous transformations of abstract spaces	394
SYNGE, J. L., of Toronto, Canada. The apsides of general dynamical systems	481
TAMARKIN, J. D., of Providence, R. I., and HILLE, E., of Princeton, N. J. On the summability of Fourier series. I.	757
THOMAS, J. M., of Durham, N. C. The condition for an orthonomic differential system	332
WALL, H. S., of Evanston, Ill. General theorems on the convergence of sequences of Padé approximants.	409
WALSH, J. L., of Cambridge, Mass. On interpolation and approximation by rational functions with preassigned poles	22
——— Interpolation and functions analytic interior to the unit circle.	523
WARD, L. E., of Iowa City, Iowa. A third-order irregular boundary value problem and the associated series	417
WHITNEY, H., of Cambridge, Mass. Non-separable and planar graphs.	339
WILSON, W. A., of New Haven, Conn. On cyclic numbers of one-dimensional compact sets	263
ZIPPIN, L., of Austin, Texas. The Moore-Kline problem	705
ZYGMUND, A., of Vilna, Poland. On lacunary trigonometric series	435
ERRATUM, volume 29	938