

## FORTY-THIRD ANNUAL LIST OF PAPERS

READ BEFORE THE AMERICAN MATHEMATICAL SOCIETY AND SUBSEQUENTLY  
PUBLISHED, INCLUDING REFERENCES TO THE PLACES OF PUBLICATION

- Adams, C. R., and Clarkson, J. A. *On convergence in variation*. Read Dec. 27, 1933. This Bulletin, vol. 40, No. 6, pp. 413–417; June, 1934.
- *Properties of functions  $f(x, y)$  of bounded variation*. Read Dec. 27, 1933. Transactions of this Society, vol. 36, No. 4, pp. 711–730; Oct., 1934.
- Agnew, R. P. *On summability of multiple sequences*. Read Oct. 28, 1933. American Journal of Mathematics, vol. 56, No. 1, pp. 62–68; Jan., 1934.
- Albert, A. A. *On universal sets of positive ternary quadratic forms*. Read April 15, 1933. Annals of Mathematics, (2), vol. 34, No. 4, pp. 875–878; Oct., 1933.
- *Normal division algebras of degree 4 over  $F$  of characteristic 2*. Read Dec. 1, 1933. American Journal of Mathematics, vol. 56, No. 1, pp. 75–86; Jan., 1934.
- *On the construction of Riemann matrices*. I. Read Feb. 28, 1931. Annals of Mathematics, (2), vol. 35, No. 1, pp. 1–28; Jan., 1934.
- *On a certain algebra of quantum mechanics*. Read Dec. 27, 1933. Annals of Mathematics, (2), vol. 35, No. 1, pp. 65–73; Jan., 1934.
- *Integral domains of rational generalized quaternion algebras*. Read June 19, 1933. This Bulletin, vol. 40, No. 2, pp. 164–176; Feb., 1934.
- *On certain imprimitive fields of degree  $p^2$  over  $P$  of characteristic  $p$* . Read Dec. 1, 1933. Annals of Mathematics, (2), vol. 35, No. 2, pp. 211–219; April, 1934.
- *Normal division algebras over a modular field*. Read Dec. 1, 1933. Transactions of this Society, vol. 36, No. 2, pp. 388–394; April, 1934.
- *A solution of the principal problem in the theory of Riemann matrices*. Read March 30, 1934. Annals of Mathematics, (2), vol. 35, No. 3, pp. 500–515; July, 1934.
- *Cyclic fields of degree  $p^n$  over  $F$  of characteristic  $p$* . Read March 30, 1934. This Bulletin, vol. 40, No. 8, pp. 625–631; Aug., 1934.
- *On normal Kummer fields over a non-modular field*. Read Dec. 27, 1933. Transactions of this Society, vol. 36, No. 4, pp. 885–892; Oct., 1934.
- *The principal matrices of a Riemann matrix*. Read Sept. 7, 1934. This Bulletin, vol. 40, No. 12, pp. 843–846; Dec., 1934.
- Alden, H. H. *Solution of  $f(x, y)\partial z/\partial x + g(x, y)\partial z/\partial y = 0$  in a neighborhood of a singular point*. Read April 15, 1933. American Journal of Mathematics, vol. 56, No. 4, pp. 593–612; Oct., 1934.
- Altshiller-Court, N. *On the Apollonian spheres of a tetrahedron*. Read Sept. 2, 1932. Tôhoku Mathematical Journal, vol. 39, No. 2, pp. 264–268; June, 1934.
- Bacon, H. M. *An extension of Kronecker's theorem*. Read Aug. 31, 1932. Annals of Mathematics, (2), vol. 35, No. 4, pp. 776–786; Oct., 1934.
- Baten, W. D. *The probability law for the sum of  $n$  independent variables, each subject to the law  $(1/(2h)) \operatorname{sech}(\pi x/(2h))$* . Read June 22, 1933. This Bulletin, vol. 40, No. 4, pp. 284–290; April, 1934.

- Beckenbach, E. F. *A characteristic property of surfaces of negative curvature.* Read April 7, 1934. This Bulletin, vol. 40, No. 10, pp. 761-768; Oct., 1934.
- Bell, C. *Alternant surfaces.* Read Sept. 2, 1932. American Journal of Mathematics, vol. 56, No. 1, pp. 42-46; Jan., 1934.
- *On some properties of polygons related to the cuspidal cubic.* Read Sept. 2, 1932. Tôhoku Mathematical Journal, vol. 39, No. 2, pp. 243-247; June, 1934.
- Bell, E. T. *Exponential polynomials.* Read Dec. 2, 1933. Annals of Mathematics, (2), vol. 35, No. 2, pp. 258-277; April, 1934.
- *Exponential numbers.* Read Oct. 28, 1933. American Mathematical Monthly, vol. 41, No. 7, pp. 411-419; Aug.-Sept., 1934.
- *On the power series for elliptic functions.* Read Sept. 7, 1934. Transactions of this Society, vol. 36, No. 4, pp. 841-852; Oct., 1934.
- Bernstein, B. A. *A set of four postulates for Boolean algebra in terms of the "implicative" operation.* Read June 19, 1933. Transactions of this Society, vol. 36, No. 4, pp. 876-884; Oct., 1934.
- Birkhoff, G. *Hausdorff groupoids.* Read Dec. 27, 1933. Annals of Mathematics, (2), vol. 35, No. 2, pp. 351-360; April, 1934.
- *On the lattice theory of ideals.* Read March 30, 1934. This Bulletin, vol. 40, No. 8, pp. 613-619; Aug., 1934.
- *The topology of transformation-sets.* Read Dec. 27, 1933. Annals of Mathematics, (2), vol. 35, No. 4, pp. 861-875; Oct. 1934.
- *Transfinite subgroup series.* Read Sept. 7, 1934. This Bulletin, vol. 40, No. 12, pp. 847-850; Dec., 1934.
- Black, A. *Types of involutorial space transformations associated with certain rational curves—composite basis curves.* Read April 14, 1933. This Bulletin, vol. 40, No. 6, pp. 417-420; June, 1934.
- Blichfeldt, H. F. *The minimum values of positive quadratic forms in six, seven and eight variables.* Read Oct. 31, 1925. Mathematische Zeitschrift, vol. 39, No. 1, pp. 1-15; July, 1934.
- Blumenthal, L. M. *A chain of determinant theorems arising from the characterization of pseudo  $r$ -spheric ( $S_n$ ) sets.* Read Dec. 27, 1933. American Journal of Mathematics, vol. 56, No. 2, pp. 225-232; April, 1934.
- Bochner, S., and Bohnenblust, H. F. *Analytic functions with almost periodic coefficients.* Read Dec. 27, 1933. Annals of Mathematics, (2), vol. 35, No. 1, pp. 152-161; Jan., 1934.
- Bohnenblust, H. F. See Bochner, S.
- Bower, O. K. *Applications of an abstract existence theorem to both differential and difference equations.* Read Aug. 31, 1932. Annals of Mathematics, (2), vol. 35, No. 4, pp. 748-758; Oct., 1934.
- Brahana, H. R. *On the isomorphisms of the abelian group of type 1, 1, . . . .* Read Oct. 28, 1933. American Journal of Mathematics, vol. 56, No. 1, pp. 53-61; Jan., 1934.
- *On the metabelian groups which contain a given group  $H$  as a maximal invariant abelian subgroup.* Read Oct. 28, 1933. American Journal of Mathematics, vol. 56, No. 4, pp. 490-512; Oct., 1934.
- *Metabelian groups of order  $p^{n+m}$  with commutator subgroups of order  $p^m$ .*

- Read April 6, 1934. Transactions of this Society, vol. 36, No. 4, pp. 776–792; Oct., 1934.
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- Clarkson, J. M. *An involutorial line transformation*. Read Oct. 28, 1933. This Bulletin, vol. 40, No. 6, pp. 421–424; June, 1934.
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- Duncan, D. C. *Symmetric, self-dual, rational plane curves of odd order*. Read Dec. 2, 1933. This Bulletin, vol. 40, No. 4, pp. 344–352; April, 1934.
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