THIRTIETH ANNUAL LIST OF PAPERS.

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

- ALEXANDER, J. W. On the equilibrium of a fluid mass at rest. Read Feb. 28, 1920. Transactions of the American Mathematical Society, vol. 21, No. 4, pp. 446-450; Oct., 1920.
- ALTSHILLER-COURT, N. Sur la cubique à point double. Read April 26, 1913. Nouvelles Annales de Mathématiques, ser. 4, vol. 20, No. 11, pp. 424-435; Now., 1920.
- On a pencil of nodal cubics. Second paper. Read April 24, 1920. Bulletin of the American Mathematical Society, vol. 27, No. 3, pp. 114–115; Dec., 1920.
- BARNETT, I. A. Functionals invariant under one-parameter continuous groups of transformations in the space of continuous functions. Read April 24, 1920. Proceedings of the National Academy of Sciences, vol. 6, No. 4, pp. 200-204; April, 1920.
- BELL, E. T. Sur les représentations propres par quelques formes quadratiques de Liouville. Read (San Francisco) Oct. 25, 1919. Journal de Mathématiques Pures et Appliquées, ser. 8, vol. 2, pp. 249-271; 1919.
- ---- Parametric solutions for a fundamental equation in the general theory of relativity, with a note on similar equations in dynamics. Read (San Francisco) April 10, 1920. *Philosophical Magazine*, ser. 6, vol. 39, No. 231, pp. 285–288; March, 1920.
- On a certain inversion in the theory of numbers. Read (San Francisco) Oct. 25, 1919. Tôhoku Mathematical Journal, vol. 17, Nos. 3-4, pp. 221-231; May, 1920.
- On the representations of numbers as sums of 3, 5, 7, 9, 11 and 13 squares. Read (San Francisco) April 5, 1919. American Journal of Mathematics, vol. 42, No. 3, pp. 168–188; July, 1920.
- —— On class number relations and certain remarkable sums relating to 5 and 7 squares. Read (San Francisco) April 10, 1920. Quarterly Journal of Mathematics, vol. 49, No. 1, pp. 45–51; Oct., 1920.
- Arithmetical paraphrases. Read (San Francisco) Dec. 14, 1918. Transactions of the American Mathematical Society, vol. 22, No. 1, pp. 1–30; Jan., 1921.
- ---- An image in four-dimensional lattice space of the theory of the elliptic theta functions. Read (San Francisco) June 18, 1920. Bulletin of the American Mathematical Society, vol. 27, No. 4, pp. 153-160; Jan., 1921.
- ---- Proof of an arithmetic theorem due to Liouville. Read (San Francisco) April 9, 1921. Bulletin of the American Mathematical Society, vol. 27, No. 6, pp. 273-275; March, 1921.
- Arithmetical paraphrases (II). Read (San Francisco) Dec. 14, 1918.
 Transactions of the American Mathematical Society, vol. 22, No. 2, pp. 198-219; April, 1921.
- On a general arithmetic formula of Liouville. Read (San Francisco) April 9, 1921. Bulletin of the American Mathematical Society, vol. 27, No. 7, pp. 330–332; April, 1921.

BENNETT, A. A. The physical bases of ballistic table computations. Read Oct. 25, 1919. War Department Document No. 972. Washington, Government Printing Office, 1920. 17 pp.

— Continuous matrices, algebraic correspondences, and closure. Read Dec. 30, 1919. Annals of Mathematics, ser. 2, vol. 21, No. 4, pp. 299–305; June, 1920.

- BIRKHOFF, G. D. Surface transformations and their dynamical applications. Read Sept. 8, 1914, and Sept. 5, 1918. Acta Mathematica, vol. 43, Nos. 1-2, pp. 1-119; 1920.
- BORDEN, R. F. On the Laplace-Poisson mixed equation. Read April 12, 1918. American Journal of Mathematics, vol. 42, No. 4, pp. 257–277; Oct., 1920.
- BORGER, R. L. On the Cauchy-Goursat theorem. Read Dec. 31, 1919. Bulletin of the American Mathematical Society, vol. 27, No. 7, pp. 325-329; April, 1921.
- BOUTROUX, P. On multiform functions defined by differential equations of the first order. Read Dec. 31, 1919, and Feb. 28, 1920. Annals of Mathematics, ser. 2, vol. 22, No. 1, pp. 1–10; Sept., 1920.
- BUCHANAN, D. Isosceles-triangle solutions of the problem of three bodies. Read April 28, 1911. Periodic Orbits, by F. R. Moulton and collaborators, chapter 10, pp. 325-356; Carnegie Institution Publication No. 161, Washington, 1920.
- CAJORI, F. Moritz Cantor, the historian of mathematics. Read (San Francisco) June 17, 1920. Bulletin of the American Mathematical Society, vol. 27, No. 1, pp. 21-28; Oct., 1920.
- Augustus De Morgan on divergent series. Read (San Francisco) April 10, 1920. Bulletin of the American Mathematical Society, vol. 27, No. 2, pp. 77–81; Nov., 1920.
- Euclid of Alexandria and the bust of Euclid of Megara. Read (San Francisco) April 9, 1921. *Science*, new ser., vol. 53, No. 1374, pp. 414–415; April 29, 1921.
- ----- The spread of Newtonian and Leibnizian notations of the calculus. Read (San Francisco) April 9, 1921. Bulletin of the American Mathematical Society, vol. 27, Nos. 9-10, pp. 453-458; June-July, 1921.
- CARMICHAEL, R. D. Note on the theory of integral functions of the first class. Read Oct. 25, 1919. *Tôhoku Mathematical Journal*, vol. 17, Nos. 3-4, pp. 279-285; May, 1920.
- Note on a transformation of series similar to the principle of inversion in the theory of numbers. Read Oct. 25, 1919. *Tôhoku Mathematical Journal*, vol. 17, Nos. 3–4, pp. 286–291; May, 1920.
- On the expansion of certain analytic functions in series. Read April 10, 1920. Annals of Mathematics, ser. 2, vol. 22, No. 1, pp. 29– 34; Sept., 1920.
- Boundary value and expansion problems: algebraic basis of the theory. Read April 10, 1920. American Journal of Mathematics, vol. 43, No. 2, pp. 69–101; April, 1921.
- CARVER, W. B. The failure of the Clifford chain. Read Dec. 27, 1917. American Journal of Mathematics, vol. 42, No. 3, pp. 137-167; July, 1920.
- CHITTENDEN, E. W. Note on a generalization of a theorem of Baire. Read Sept. 8, 1920. Bulletin of the American Mathematical Society, vol. 27, No. 1, pp. 5-6; Oct., 1920.

COBLE, A. B. Multiple binary forms with the closure property. Read April 9, 1920. American Journal of Mathematics, vol. 43, No. 1, pp. 1-19; Jan., 1921.

— A covariant of three circles. Read (Chicago) April 23, 1921. Bulletin of the American Mathematical Society, vol. 27, Nos. 9–10, pp. 434–437; June–July, 1921.

- DICKSON, L. E. La composition des polynômes. Read April 23, 1921. Comptes Rendus de l'Académie des Sciences, vol. 172, No. 11, pp. 636– 640; March 14, 1921.
 - Determination of all general homogeneous polynomials expressible as determinants with linear elements. Read Dec. 30, 1920. Transactions of the American Mathematical Society, vol. 22, No. 2, pp. 167– 179; April, 1921.
- Fallacies and misconceptions in diophantine analysis. Read March 26, 1921. Bulletin of the American Mathematical Society, vol. 27, No. 7, pp. 312–319; April, 1921.
 - A new method in diophantine analysis. Read March 26, 1921. Bulletin of the American Mathematical Society, vol. 27, No. 8, pp. 353– 365; May, 1921.
- EIESLAND, J. Flat-sphere geometry, fourth paper. Read Sept. 5, 1916. Tôhoku Mathematical Journal, vol. 17, Nos. 3-4, pp. 292-330; May, 1920.
- EISENHART, L. P. The permanent gravitational field in the Einstein theory. Read April 24, 1920. Annals of Mathematics, ser. 2, vol. 22, No. 2, pp. 86-94; Dec., 1920. Proceedings of the National Academy of Sciences, vol. 6, No. 12, pp. 678-682, December, 1920.
- ----- The Einstein solar field. Read April 23, 1921. Bulletin of the American Mathematical Society, vol. 27, Nos. 9-10, pp. 432-434; June-July, 1921.
- Емсн, A. On a certain class of rational ruled surfaces. Read Dec. 28, 1918. American Journal of Mathematics, vol. 42, No. 3, pp. 189-210; July, 1920.
- ETTLINGER, H. J. Existence theorem for the non-self-adjoint linear system of the second order. Read Dec. 29, 1917. Annals of Mathematics, ser. 2, vol. 21, No. 4, pp. 278-290; June, 1920.
- Oscillation theorems for the real, self-adjoint linear system of the second order. Read Sept. 5, 1917. *Transactions of the American Mathematical Society*, vol. 22, No. 2, pp. 136–143; April, 1921.
- —— Extension of an existence theorem for a non-self-adjoint linear system. Read Dec. 31, 1919. Bulletin of the American Mathematical Society, vol. 27, No. 7, pp. 322–325; April, 1921.
- FISCHER, C. A. Necessary and sufficient conditions that a linear transformation be completely continuous. Read Dec. 31, 1919. Bulletin of the American Mathematical Society, vol. 27, No. 1, pp. 10-17; Oct., 1920.
- FORSYTH, C. H. On the generalization of certain formulas of the mathematical theory of finance. Read December 29, 1920. Bulletin of the American Mathematical Society, vol. 27, Nos. 9-10, pp. 446-452; June-July, 1921.
- FRY, T. C. The application of modern theories of integration to the solution of differential equations. Read April 26, 1919. Annals of Mathematics, ser. 2, vol. 22, No. 3, pp. 182–211; March, 1921.

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- GLENN, O. E. A memoir upon formal invariancy with regard to binary modular transformations. Invariants of relativity. Read April 26, 1919, and Dec. 30, 1919. Transactions of the American Mathematical Society, vol. 21, No. 3, pp. 285-312; July, 1920.
- GRONWALL, T. H. On the distortion in conformal mapping when the second coefficient in the mapping function has an assigned value. Read Feb. 28, 1920. Proceedings of the National Academy of Sciences, vol. 6, No. 6, pp. 300-302; June, 1920.
- Qualitative properties of the ballistic trajectory. Read April 26, 1919, and Feb. 28, 1920. Annals of Mathematics, ser. 2, vol. 22, Nos. 1–2, pp. 44–65; Sept.–Dec., 1920.
- A sequence of polynomials connected with the *n*th roots of unity. Read Sept. 8, 1920. Bulletin of the American Mathematical Society, vol. 27, No. 6, pp. 275–279; March, 1921.
- On the Fourier coefficients of a continuous function. Read Sept. 8, 1920. Bulletin of the American Mathematical Society, vol. 27, No. 7, pp. 320–321; April, 1921.
- HARDY, G. H. On the representation of a number as the sum of any number of squares, and in particular of five. Read Feb. 28, 1920. *Transactions of the American Mathematical Society*, vol. 21, No. 3, pp. 255-284; July, 1920.
- HART, W. L. The pseudo-derivative of a summable function. Read Sept. 8, 1920. Bulletin of the American Mathematical Society, vol. 27, No. 5, pp. 202-211; Feb., 1921.
- HAZLETT, O. C. New proofs of certain finiteness theorems in the theory of modular covariants. Read Oct. 25, 1919. Transactions of the American Mathematical Society, vol. 22, No. 2, pp. 144–157; April, 1921.
- JACKSON, D. On the order of magnitude of the coefficients in trigonometric interpolation. Read Dec. 30, 1919. Transactions of the American Mathematical Society, vol. 21, No. 3, pp. 321-332; July, 1920.
- Note on a method of proof in the theory of Fourier's series. Read Sept. 7, 1920. Bulletin of the American Mathematical Society, vol. 27, No. 3, pp. 108–110; Dec., 1920.
- ---- On functions of closest approximation. Read April 10, 1920. Transactions of the American Mathematical Society, vol. 22, No. 1, pp. 117-128; Jan., 1921.
- Note on the median of a set of numbers. Read Sept. 7, 1920. Bulletin of the American Mathematical Society, vol. 27, No. 4, pp. 160–164; Jan., 1921.
- On the convergence of certain trigonometric and polynomial approximations. Read Sept. 8, 1920, and Oct. 30, 1920. Transactions of the American Mathematical Society, vol. 22, No. 2, pp. 158–166; April, 1921.
- KASNER, E. Note on Einstein's theory of gravitation and light. Read Sept. 8, 1920. Science, new ser., vol. 52, No. 1348, pp. 413-414; Oct. 29, 1920.
- Einstein's theory of gravitation: determination of the field by light signals. Read Sept. 8, 1920. American Journal of Mathematics, vol. 43, No. 1, pp. 20–28; Jan., 1921.
- The Einstein solar field and space of six dimensions. Read Sept. 8, 1920. Science, new ser., vol. 53, No. 1367, pp. 238–239; March 11, 1921.

- The impossibility of Einstein fields immersed in flat space of five dimensions. Read Sept. 8, 1921. American Journal of Mathematics, vol. 43, No. 2, pp. 126-129; April, 1921.

- Finite representation of the solar gravitational field in flat space of six dimensions. Read Dec. 28, 1920. American Journal of Mathematics, vol. 43, No. 2, pp. 130–133; April, 1921.
- KELLOGG, O. D. Note on closure of orthogonal sets. Read April 24, 1920. Bulletin of the American Mathematical Society, vol. 27, No. 4, pp. 165-169; Jan., 1921.
- KEMPNER, A. J. Polynomials and their residue systems. Read Dec. 29, 1917, and Dec. 30, 1920. Transactions of the American Mathematical Society, vol. 22, No. 2, pp. 240–266; April, 1921.
- KLINE, J. R. On the passing of simple continuous arcs through plane point sets. Read Oct. 27, 1917. Tohoku Mathematical Journal, vol. 18, Nos. 1-2, pp. 116-125; Aug., 1920.
- A new proof of a theorem due to Schoenflies. Read Feb. 23, 1918. Proceedings of the National Academy of Sciences, vol. 6, No. 9, pp. 529-531; Sept., 1920.
- —— Concerning approachability of simple closed and open curves. Read April 27, 1918. Transactions of the American Mathematical Society, vol. 21, No. 4, pp. 451–458; Oct., 1920.
- LANE, E. P. Conjugate systems with indeterminate axis curves. Read April 12, 1918. American Journal of Mathematics, vol. 43, No. 1, pp. 52-68; Jan., 1921.
- LESTOURGEON, F. E. Minima of functions of lines. Read Oct. 30, 1920. Transactions of the American Mathematical Society, vol. 21, No. 4, pp. 357–383; Oct., 1920.
- LINFIELD, B. Z. On the relation of the roots and poles of a rational function to the roots of its derivative. Read Dec. 30, 1919. Bulletin of the American Mathematical Society, vol. 27, No. 1, pp. 17-21; Oct., 1920.
- LIPKA, J. Some geometric investigations on the general problem of dynamics. Read Dec. 30, 1919, and Feb. 28, 1920. Proceedings of the American Academy of Arts and Sciences, vol. 55, No. 7, pp. 283-322; June, 1920.
- Note on velocity systems in curved space of *n* dimensions. Read April 24, 1920. Bulletin of the American Mathematical Society, vol. 27, No. 2, pp. 71–77; Nov., 1920.
- Motion on a surface for any positional field of force. Read April 24, 1920, and Oct. 30, 1920. Proceedings of the National Academy of Sciences, vol. 6, No. 10, pp. 621–624; Oct., 1920. Proceedings of the American Academy of Arts and Sciences, vol. 56, No. 4, pp. 155–182; March, 1921.
- MANNING, W. A. Multiply transitive constituents of the subgroup that fixes one letter of a uniprimitive group. Read (San Francisco) April 5, 1919. Primitive Groups, Part 1, pp. 83–87; Stanford University Publications, University Series, Mathematics and Astronomy, vol. 1, No. 1; 1921.
- ---- Primitive groups with transitive subgroups of lower degree. Read (San Francisco) Oct. 25, 1919. Primitive Groups, Part 1, pp. 92–103; Stanford University Publications, University Series, Mathematics and Astronomy, vol. 1, No. 1; 1921.
- MASON, T. E. On amicable numbers and their generalizations. Read April 9, 1920 and Dec. 30, 1920. American Mathematical Monthly, vol. 28, No. 5, pp. 195–200; May, 1921.

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- MILLER, G. A. Transitive constituents of the group of isomorphisms of any abelian group of order p^m . Read April 9, 1920. Messenger of Mathematics, vol. 49, No. 12, pp. 180–186; April, 1920.
 - Properties of the subgroups of an abelian prime power group which are conjugate under its group of isomorphisms. Read Dec. 31, 1919. *Transactions of the American Mathematical Society*, vol. 21, No. 3, pp. 313-320; July, 1920.
- Reciprocal subgroups of an abelian group. Read Sept. 8, 1920. Bulletin of the American Mathematical Society, vol. 27, No. 6, pp. 266–272; March, 1921.
- MOORE, C. L. E. Note on minimal varieties in hyperspace. Read Dec. 29, 1920. Bulletin of the American Mathematical Society, vol. 27, No. 5, pp. 211-216; Feb., 1921.
- MOORE, R. L. Concerning simple continuous curves. Read Oct. 26, 1918. Transactions of the American Mathematical Society, vol. 21, No. 3, pp. 333-347; July, 1920.
- Concerning certain equicontinuous systems of curves. Read April 28, 1917, and Oct. 27, 1917. Transactions of the American Mathematical Society, vol. 22, No. 1, pp. 41–55; Jan., 1921.
- MORLEY, F. Pleasant questions and wonderful effects. Read Dec. 28, 1920. Bulletin of the American Mathematical Society, vol. 27, No. 7, pp. 309-312; April, 1921.
- MORSE, H. C. M. Recurrent geodesics on a surface of negative curvature. Read Dec. 28, 1920. Transactions of the American Mathematical Society, vol. 22, No. 1, pp. 84–100; Jan., 1921.
- A one-to-one representation of geodesics on a surface of negative curvature. Read Dec. 30, 1919. American Journal of Mathematics, vol. 43, No. 1, pp. 33-51; Jan., 1921.
- MOULTON, F. R. Closed orbits of ejection and related periodic orbits. Read March 21, 1913. Periodic orbits, by F. R. Moulton and collaborators, chapter 15, pp. 457–484; Carnegie Institution Publication No. 161, Washington, 1920.
- —— Fundamental theorems on the solutions of differential equations and the logical basis for the numerical integration of differential equations. Read Dec. 22, 1916. Photostat publication of the Technical Staff of the Ordnance Department, U. S. A., Washington, 1920. 25 pp.
- NELSON, A. L. Pseudo-canonical forms and invariants of systems of partial differential equations. Read Sept. 2, 1919. Transactions of the American Mathematical Society, vol. 22, No. 2, pp. 180–197; April, 1921.
- PAGE, L. The principle of general relativity and Einstein's theory of gravitation. Read April 24, 1920. Transactions of the Connecticut Academy of Arts and Sciences, vol. 23, No. 7, pp. 383-416; Sept., 1920.
- REYNOLDS, C. N. On the zeros of solutions of homogeneous linear differential equations. Read Sept. 4, 1918, and Sept. 2, 1919. Transactions of the American Mathematical Society, vol. 22, No. 2, pp. 220-229; April, 1921.
- RICE, L. H. Some determinant expansions. Read Sept. 2, 1919. American Journal of Mathematics, vol. 42, No. 4, pp. 237-242; Oct., 1920.
- RIDER, P. R. The minimum area between a curve and its caustic. Read April 10, 1920. Bulletin of the American Mathematical Society, vol. 27, No. 6, pp. 279–284; March, 1921.
- RIETZ, H. L. Urn schemata as a basis for the development of correlation theory. Read Sept. 3, 1919, and Dec. 31, 1919. Annals of Mathematics, ser. 2, vol. 21, No. 4, pp. 306-322; June, 1920.

RITT, J. F. On the iteration of rational functions. Read Dec. 27, 1917, Feb. 23, 1918, and April 27, 1918. Transactions of the American Mathematical Society, vol. 21, No. 3, pp. 348–356; July, 1920.

On weighting factor curves in flat fire. Read April 26, 1919. Journal of the United States Artillery, vol. 53, No. 4, pp. 404-410; Oct., 1920.
On the conformal mapping of a region into a part of itself. Read April 24, 1920. Annals of Mathematics, ser. 2, vol. 22, No. 3, pp. 157-160; March, 1921.

- ---- Note on equal continuity. Read Feb. 26, 1921. Bulletin of the American Mathematical Society, vol. 27, No. 8, pp. 351-353; May, 1921.
- SHARPE, F. R. See SNYDER, V.
- SHAW, J. B. On triply orthogonal congruences. Read Dec. 28, 1918. Transactions of the American Mathematical Society, vol. 21, No. 4, pp. 391-408; Oct., 1920.
- SIMONDS, E. F. Invariants of infinite groups in the plane. Read Oct. 25, 1919. Transactions of the American Mathematical Society, vol. 21, No. 4, pp. 384-390; Oct., 1920.
- SNYDER, V., and SHARPE, F. R. The construction of algebraic correspondences between two algebraic curves. Read Sept. 7, 1920. *Transactions of the American Mathematical Society*, vol. 22, No. 1, pp. 31-40; Jan., 1921.
- STOUFFER, E. B. Seminvariants of a general system of linear homogeneous differential equations. Read April 9, 1920. Proceedings of the National Academy of Sciences, vol. 6, No. 11, pp. 645-648; Nov., 1920.
- TAYLOR, J. S. A set of five postulates for Boolean algebras in terms of the operation exception. Read (San Francisco) April 5, 1919. University of California Publications in Mathematics, vol. 1, No. 12, pp. 241–248; April 12, 1920.
- VANDIVER, H. S. On Kummer's memoir of 1857 concerning Fermat's last theorem. Read April 24, 1920. Proceedings of the National Academy of Sciences, vol. 6, No. 5, pp. 266–269; May, 1920.
- ----On the class number of the field $\Omega(e^{2\pi i/p^n})$ and the second case of Fermat's last theorem. Read April 26, 1919. Proceedings of the National Academy of Sciences, vol. 6, No. 7, pp. 416-421; July, 1920.
- WALSH, J. L. On the location of the roots of the derivative of a polynomial. Read Dec. 31, 1919. Annals of Mathematics, ser. 2, vol. 22, No. 2, pp. 128–144; Dec., 1920.
- On the location of the roots of the jacobian of two binary forms, and of the derivative of a rational function. Read Dec. 30, 1919. Transactions of the American Mathematical Society, vol. 22, No. 1, pp. 100– 116; Jan., 1921.
- A generalization of the Fourier cosine series. Read Sept. 8, 1920. Transactions of the American Mathematical Society, ser. 2, vol. 22, No. 2, pp. 230–239; April, 1921.
- WEDDERBURN, J. H. M. On division algebras. Read Feb. 28, 1920. Transactions of the American Mathematical Society, vol. 22, No. 2, pp. 129-135; April, 1921.
- WHITE, H. S. A property of two (n + 1)-gons inscribed in a norm-curve in n-space. Read Feb. 24, 1917, and April 26, 1919. Transactions of the American Mathematical Society, vol. 22, No. 1, pp. 80–83; Jan., 1921.
- WHITTEMORE, J. K. Motion in a resisting medium. Read Oct. 25, 1919. Annals of Mathematics, ser. 2, vol. 21, No. 4, pp. 291–298; June, 1920.

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WIENER, N. The mean of a functional of arbitrary elements. Read Dec. 30, 1919. Annals of Mathematics, ser. 2, vol. 22, No. 2, pp. 66-72; Dec., 1920.

— The isomorphisms of complex algebra. Read Dec. 28, 1917. Bulletin of the American Mathematical Society, vol. 27, Nos. 9–10, pp. 443–445; June–July, 1921.

- WILCZYNSKI, E. J. A set of properties characteristic of a class of congruences connected with the theory of functions. Read April 9, 1920. *Transactions of the American Mathematical Society*, vol. 21, No. 4, pp. 409-445; Oct., 1920.
- Geometrical significance of isothermal conjugacy of a net of curves. Read Dec. 29, 1920. American Journal of Mathematics, vol. 42, No. 4, pp. 211-221; Oct., 1920.
- WILLIAMS, A. R. On a birational transformation connected with a pencil of cubics. Read Aug. 3, 1915. University of California Publications in Mathematics, vol. 1, No. 10, pp. 211-222; Feb. 17, 1920.
- WILLIAMS, W. L. G. Fundamental systems of formal modular seminvariants of the binary cubic. Read Oct. 30, 1920. Transactions of the American Mathematical Society, vol. 22, No. 1, pp. 56-79; Jan., 1921.
- ZELDIN, S. D. On the structure of finite continuous groups with exceptional transformations. Read Dec. 31, 1919. Proceedings of the National Academy of Sciences, vol. 6, No. 9, pp. 541-543; Sept., 1920.
- ---- On the structure of finite continuous groups with a finite number of exceptional infinitesimal transformations. Read Dec. 28, 1920. Annals of Mathematics, ser. 2, vol. 22, No. 2, pp. 95-100; Dec., 1920.