

## INDEX OF VOLUME XLIII

### AUTHORS

- Agnew, R. P. *On the existence of linear functionals defined over linear spaces*, 868.
- Albert, A. A. *A note on matrices defining total real fields*, 242.  
 — *p*-algebras over a field generated by one indeterminate, 733.
- Allendoerfer, C. B. *Einstein spaces of class one*, 265.
- Baer, Reinhold. *Dualism in abelian groups*, 121.  
 — *Equivalence of algebraic extensions*, 432.
- Baten, W. D. See Reviews, under Darmois, de Possel.
- Beckenbach, E. F. *Generalized convex functions*, 363.
- Bell, E. T. *Functions of coprime divisors of integers*, 818.
- Bliss, G. A. *Herbert Ellsworth Slaught—in memoriam*, 595.
- Blumenthal, L. M. *Note on a theorem characterizing geodesic arcs in complete, convex metric spaces*, 717.
- Boggs, Herbert, and Rainich, G. Y. *Note on group postulates*, 81.
- Brahana, H. R. See Reviews, under Brauer.
- Brauer, Richard. See Reviews, under Ore.
- Busemann, Herbert. See Reviews, under de Donder.
- Camp, B. H. See Reviews, under Levy.
- Campbell, J. W. See Reviews, under Julia.
- Carathéodory, Constantin. *A generalization of Schwarz's lemma*, 231.  
 — *The most general transformations of plane regions which transform circles into circles*, 573.
- Carlitz, Leonard. *On certain arithmetic functions of several arguments*, 109.  
 — *An arithmetic function*, 271.  
 — *Some formulas for factorable polynomials in several indeterminates*, 299.
- Cell, J. W. *Circles in which  $|F(x)|$  has a singularity or assumes preassigned values*, 359.
- Clarkson, J. M. *An involutorial line transformation determined by a congruence of twisted cubic curves*, 142.
- Cooley, H. R. *Remarks on the initial value problem of the general partial differential equation of the first order*, 862.
- Copeland, A. H. *A new definition of a Stieltjes integral*, 581.
- Curtiss, J. H. *A note on the Cesàro method of summation*, 703.
- Doob, J. L. See Reviews, under v. Mises, Tornier.
- Dressel, F. G. *A note on Young-Stieltjes integrals*, 377.
- Duffin, R. J., and Schaeffer, A. C. *Some inequalities concerning functions of exponential type*, 554.
- Dye, L. A. *A transformation associated with the trisecants of a rational twisted quintic curve*, 719.
- Elder, J. D. *Errata in the Lehmer factor stencils*, 253.
- Emch, Arnold. *On certain configurations of points in space and linear systems of surfaces with these as base points*, 261.  
 — See Reviews, under Schilling.
- Engstrom, H. T. See Reviews, under Ince, Iyanaga, Ore.
- Erratum, 144.

- Evans, G. C. *Modern methods of analysis in potential theory*, 481.
- Ewing, G. M. *Sufficient conditions for a non-regular problem in the calculus of variations*, 371.
- Flood, M. M. *The resultant matrix of two polynomials*, 724.
- Fort, Tomlinson. *The calculus of variations applied to Nörlund's sum*, 885.
- Foster, Malcolm. *A theorem on mean ruled surfaces*, 423.
- Frank, N. H. See Reviews, under Fowler.
- Franklin, Philip. See Reviews, under MacMillan.
- Frink, A. H. *Distance functions and the metrization problem*, 133.
- Fry, T. C. *The semicentennial celebration of the American Mathematical Society*—September 6-9, 1938, 593.
- Goldstine, H. H. *Bilinear functionals on the space of bounded, measurable functions*, 528.
- Graustein, W. C., and Jackson, S. B. *The four-vertex theorem for a certain type of space curves*, 737.
- Hall, Marshall. *Divisors of second-order sequences*, 78.  
— *Indices in cubic fields*, 104.
- Hardy, G. H., and Levinson, Norman. *Inequalities satisfied by a certain definite integral*, 709.
- Hildebrandt, T. H. See Reviews, under Hadamard, R. Roth.
- Hoberman, Solomon, and McKinsey, J. C. C. *A set of postulates for Boolean algebra*, 588.
- Holl, D. L. See Jensen, V. P.
- Hollcroft, T. R. *Branch-point manifolds associated with a linear system of primals*, 379.  
— *The existence of algebraic plane curves*, 503.  
— *Reports of meetings of the American Mathematical Society: March meeting in New York*, 307; *Summer meeting in State College*, 745.
- Hull, Ralph. *Note on the ideals of cyclic algebras*, 384.
- Ingraham, M. H. *A note on determinants*, 579.  
— *Reports of meetings of the American Mathematical Society: November meeting in Lawrence*, 5; *April meeting in Chicago*, 443.
- Jackson, Dunham. *Polynomial approximation on a curve of the fourth degree*, 388.
- Jackson, S. B. See Graustein, W. C.
- Jacobson, Nathan.  *$p$ -algebras of exponent  $p$* , 667.
- Jensen, V. P., and Holl, D. L. *An application of derivatives of non-analytic functions in plane stress problems*, 256.
- Jones, F. B. *Concerning normal and completely normal spaces*, 671.
- van Kampen, E. R., and Wintner, Aurel. *On bounded convolutions*, 564.
- Ketchum, P. W. *On the expansion of a function analytic at distinct points*, 115.  
— *Note on an elementary geometric existence theorem*, 835.
- Kline, J. R. *Reports of meetings of the American Mathematical Society: October meeting in New York*, 1; *Annual meeting in Durham and Chapel Hill*, 145.
- Knebelman, M. S. See Reviews, under Cartan.
- Langer, R. E. See Reviews, under Ford.
- Latshaw, V. V. *On fourth order self-adjoint difference systems*, 851.
- Lefschetz, Solomon. *The role of algebra in topology*, 345.
- Levinson, Norman. See Hardy, G. H.

- Lewis, D. C. *On line integrals and differential equations, especially those of dynamics*, 277.
- Lewis, F. A. *Proof of the non-isomorphism of two collineation groups of order 5184*, 742.
- Lewitan, B. *On an integral equation with an almost periodic solution*, 677.
- Longley, W. R. See Reviews, under Hoheisel.
- McClenon, R. B. See Reviews, under Loria.
- McKinsey, J. C. C. *A condition that a first Boolean function vanish whenever a second does not*, 694.  
— See Hoberman, Solomon.
- McShane, E. J. *Jensen's inequality*, 521.
- Margenau, Henry. See Reviews, under Rosseland.
- Martin, M. H. *Note on the continuity of the ergodic function*, 541.
- Michal, A. D. *General tensor analysis*, 394.
- Michal, A. D., and Paxson, E. W. *Addendum*, 888.
- Murnaghan, F. D. See Reviews, under Julia.
- Neikirk, L. I. *Some symbolic identities*, 848.
- Nichols, G. D. *A generalized element of decomposition for doubly periodic functions*, 249.
- Oakley, C. O. See Reviews, under Julia.
- Okada, Yoshitomo. *On some gap theorems for Euler's method of summation of series*, 536.
- Oldenburger, Rufus. *Real canonical binary symmetric trilinear forms*, 546.
- Olds, C. D. *On the remainder in the approximate evaluation of the probability in the symmetrical case of James Bernoulli's theorem*, 806.
- Ore, Oystein. See Reviews, under Krull.
- Oxtoby, J. C. *The category and Borel class of certain subsets of  $\mathcal{L}_p$* , 245.
- Parker, W. V. *On symmetric determinants*, 730.
- Paxson, E. W. See Michal, A. D.
- Poor, V. C. See Reviews, under Freda.
- Poritsky, Hillel. *On reflection of singularities of harmonic functions corresponding to the boundary condition  $\partial u / \partial n + au = 0$* , 873.
- Putnam, T. M. *Reports of meetings of the American Mathematical Society: November meeting in Los Angeles, 7; April meeting at Stanford University*, 441.
- Rainich, G. Y. See Boggs, Herbert.
- Rajagopal, C. T. *On an integral test of R. W. Brink for the convergence of series*, 405.
- Randels, W. C. *On the summability of Fourier series*, 85.
- Raynor, G. E. See Reviews, under Knopp.
- Reid, W. T. *Boundary value problems of the calculus of variations*, 633.
- Richardson, R. G. D. *Report of the February meeting of the American Mathematical Society in New York*, 305.
- Rietz, H. L. *Some topics in sampling theory*, 209.
- Robbins, H. E. *On a class of recurrent sequences*, 413.
- Robbins, R. B. See Reviews, under Kostitzin.
- Robertson, M. S. *On the summability by positive typical means of sequences  $\{f(n\theta)\}$* , 287.

- Robinson, Robin. *A condition in invariant form for a net without detours*, 102.
- Roth, W. E. *On certain matrices and their determinants*, 856.
- Russell, H. N. *Model stars*, 49.
- Rutt, N. E. *An indecomposable limit sum*, 680.
- Schaeffer, A. C. See Duffin, R. J.
- Sewell, W. E. *A note on the relation between integral and Tchebycheff approximation by polynomials in the complex domain*, 425.
- See Walsh, J. L.
- Sheffer, I. M. *A simplified solution of the equation  $\Delta y(x) = F(x)$* , 283.
- Silverman, L. L. *Products of Nörlund transformations*, 95.
- Stopher, E. C. *Cyclic relations in point set theory*, 686.
- Strom, C. W. *A complete system for the simple group  $G_{60}^6$* , 438.
- Struik, D. J. See Reviews, under Fréchet, Julia.
- Tamarkin, J. D. See Reviews under Brelot, Dieudonné, Lusin, von Neumann, Radó, Schreier.
- Théodoresco, N. *La dérivée aréolaire et les potentiels généralisés dans la mécanique des milieux continus*, 125.
- Tracey, J. I. See Reviews, under Telling.
- Turpin, W. S. *Concerning special centers of projection for an algebraic space branch*, 697.
- Vandiver, H. S. *Note on a certain ring-congruence*, 418.
- Vaughan, H. E. *On locally compact metrisable spaces*, 532.
- Walker, R. J. *Report of the New York conference on algebraic geometry*, 315.
- Walsh, J. L. See Reviews, under Favard.
- Walsh, J. L., and Sewell, W. E. *Note on the relation between continuity and degree of polynomial approximation in the complex domain*, 557.
- Whiteman, Albert. *Postulates for Boolean algebra in terms of ternary rejection*, 293.
- *On a theorem of higher reciprocity*, 567.
- Whitney, Hassler. *Topological properties of differentiable manifolds*, 785.
- Widder, D. V. *The successive iterates of the Stieltjes kernel expressed in terms of the elementary functions*, 813.
- Wintner, Aurel. See van Kampen, E. R.
- Wren, F. L. *Neo-Sylvester contractions and the solution of systems of linear equations*, 823.
- Wylie, C. R. *Curves belonging to pencils of linear line complexes in  $S_4$* , 90.
- *An involutorial line transformation in  $S_4$* , 839.
- Zorn, Max. *On a theorem of Engel*, 401.

## REVIEWS

- Borel, E. See Fréchet, M.
- Brauer, R. *Über die Darstellung von Gruppen in Galoisschen Feldern* (Actualités Scientifiques et Industrielles, No. 195). H. R. Brahana, 457.
- Brelot, M. *Étude des Fonctions Sousharmoniques au Voisinage d'un Point* (Actualités Scientifiques et Industrielles, No. 139; Exposés Mathématiques, publiés à la mémoire de J. Herbrand). J. D. Tamarkin, 458.
- British Association for the Advancement of Science. See Ince, E. L.

- Cartan, E. *Les Espaces Métriques Fondés sur la Notion d'Aire*. M. S. Knebelman, 158.
- Darmonis, G. *L'Emploi des Observations Statistiques. Méthodes d'Estimation* (Actualités Scientifiques et Industrielles, No. 356; Statistique Mathématique, exposés publiés sous la direction de G. Darmonis, No. 1). W. D. Baten, 604.
- Dieudonné, J. *Sur Quelques Propriétés de Polynomes* (Actualités Scientifiques et Industrielles, No. 114; Exposés Mathématiques, publiés à la mémoire de J. Herbrand). J. D. Tamarkin, 458.
- See Julia, G.
- de Donder, T. *Théorie Invariantive du Calcul des Variations*. Herbert Busemann, 598.
- Favard, J. *Les Théorèmes de la Moyenne pour les Polynomes* (Actualités Scientifiques et Industrielles, No. 302; Exposés sur la Théorie des Fonctions, publiés sous la direction de P. Montel). J. L. Walsh, 13.
- Ford, W. B. *The Asymptotic Developments of Functions Defined by Maclaurin Series* (University of Michigan Studies, Scientific Series, volume 11). R. E. Langer, 452.
- Fowler, R. H. *Statistical Mechanics*, 2d edition. N. H. Frank, 601.
- Frank, P. See von Mises, R.
- Fréchet, M. *Généralités sur les Probabilités. Variables Aléatoires* (Traité du Calcul des Probabilités et de ses Applications, edited by E. Borel, volume I, No. 3, Book 1). D. J. Struik, 602.
- See Ore, O.
- Freda, H. *Méthode des Caractéristiques pour l'Intégration des Équations aux Dérivées Partielles Linéaires Hyperboliques* (Mémorial des Sciences Mathématiques, No. 84). V. C. Poor, 604.
- Hadamard, J. *Selecta. Jubilé Scientifique de M. J. Hadamard*. T. H. Hildebrandt, 449.
- Herbrand, J. See Brelot, Dieudonné, Lusin, von Neumann.
- Hoheisel, G. *Integralgleichungen* (Sammlung Göschen, No. 1099). W. R. Longley, 14.
- Ince, E. L. *Cycles of Reduced Ideals in Quadratic Fields* (British Association for the Advancement of Science, Mathematical Tables, volume 4). H. T. Engstrom, 14.
- Iyanaga, S. *Sur les Classes d'Idéaux dans les Corps Quadratiques* (Actualités Scientifiques et Industrielles, No. 197). H. T. Engstrom, 12.
- Julia, G. *Cours de Cinématique*, 2d edition. Edited by J. Dieudonné. J. W. Campbell, 600.
- *Éléments de Géométrie Infinitésimale*, 2d edition. D. J. Struik, 458.
- *Exercices d'Analyse*, volume 4. C. O. Oakley, 600.
- *Introduction Mathématique aux Théories Quantiques* (Cahiers Scientifiques, volume 16). F. D. Murnaghan, 459.
- Knopp, K. *Elemente der Funktionentheorie* (Sammlung Göschen, No. 1109). G. E. Raynor, 605.
- Kostitzin, V. A. *Biologie Mathématique*. R. B. Robbins, 606.
- Krull, W. *Idealtheorie* (Ergebnisse der Mathematik und ihrer Grenzgebiete, volume 4, No. 3). Oystein Ore, 460.

- Levy, H., and Roth, L. *Elements of Probability*. B. H. Camp, 454.
- Loria, G. *Storia delle Matematiche*, volume 3. R. B. McClenon, 10.
- Lusin, N. *Sur les Suites Stationnaires* (Actualités Scientifiques et Industrielles, No. 149; Exposés Mathématiques, publiés à la mémoire de J. Herbrand). J. D. Tamarkin, 458.
- MacMillan, W. D. *Dynamics of Rigid Bodies*. Philip Franklin, 158.
- von Mises, R. *Wahrscheinlichkeit Statistik und Wahrheit. Einführung in die Neue Wahrscheinlichkeitslehre und ihre Anwendung*. 2d revised edition. Edited by P. Frank and M. Schlick. (Schriften zur Wissenschaftlichen Weltauffassung, volume 3.) J. L. Doob, 316.
- Montel, P. See Favard, J.
- von Neumann, J. *Charakterisierung des Spektrums eines Integraloperators* (Actualités Scientifiques et Industrielles, No. 229; Exposés Mathématiques, publiés à la mémoire de J. Herbrand). J. D. Tamarkin, 458.
- Ore, O. *Les Corps Algébriques et la Théorie des Idéaux* (Mémorial des Sciences Mathématiques, No. 64). H. T. Engstrom, 11.
- *L'Algèbre Abstraite* (Actualités Scientifiques et Industrielles, No. 362; Exposés d'Analyse Générales, publiés sous la direction de M. Fréchet, No. 6). Richard Brauer, 316.
- de Possel, R. *Sur la Théorie Mathématique des Jeux de Hasard et de Réflexion* (Actualités Scientifiques et Industrielles, No. 436; Conférences du Centre Universitaire Méditerranéen de Nice, publiés sous la direction de P. Valéry, No. 1). W. D. Baten, 606.
- Radó, T. *Subharmonic Functions* (Ergebnisse der Mathematik und ihrer Grenzgebiete, volume 5, No. 1). J. D. Tamarkin, 758.
- Rosseland, S. *Theoretical Astrophysics*. Henry Margenau, 457.
- Roth, L. See Levy, H.
- Roth, R. *Höhere Mathematik*. Part 3: *Raumkurven und Flächen. Linienintegrale und Mehrfache Integrale. Differentialgleichungen nebst Anwendungen*. Part 4, No. 3: *Aufgabensammlung: Integralrechnung*. T. H. Hildebrandt, 12.
- Schilling, F. *Pseudosphärische, Hyperbolisch-Sphärische und Elliptisch-Sphärische Geometrie*. Arnold Emch, 604.
- Schlick, M. see von Mises, R.
- Schreier, O., and Sperner, V. *Einführung in die Analytische Geometrie und Algebra*, volume 2. J. D. Tamarkin, 759.
- Sperner, V. See Schreier, O.
- Telling, H. G. *The Rational Quartic Curve in Space of Three and Four Dimensions* (Cambridge Tracts in Mathematics and Mathematical Physics, No. 34). J. I. Tracey, 460.
- Tornier, E. *Wahrscheinlichkeitsrechnung und Allgemeine Integrationstheorie*. J. L. Doob, 317.
- Valéry, P. See de Possel, R.

---

Abstracts of papers presented to the Society, 19, 165, 327, 466, 612, 765.  
 New Publications, 45, 337, 477, 629, 781.  
 Notes, 15, 159, 319, 462, 608, 760.

## NOTES AND OTHER ITEMS

## Academies, Associations, Congresses, and Societies:

American Mathematical Society: Annual Meeting, 145, 749; Auditor's Report, 149; Budget, 150; Bulletin, 310, 319, 760; By-Laws, 750; Colloquium Lectures, 310, 746, 750; Colloquium Publications, 750; Committee on American Documentation Institute, 749; on Annual Meeting (1936), 145; on Annual Meeting (1937), 310; on Annual Meeting (1938), 750; on Gibbs Lecture, 150; on International Congress (1940), 310, 311, 749; on Nominations, 150; on Printing Contracts, 310; on Semicentennial Celebration, 310; on Summer Meeting (1937), 150; on William Lowell Putnam Competition, 749; Dates and Places of Meetings, 310, 749; Election of Officers, 2, 149; Gibbs Lecture, 2, 749; Invitations for Meetings, 150; Librarian's Report, 150; New Members Admitted, 2, 147, 308, 748; Representatives on the Council of the American Association for the Advancement of Science, 150, 310; at the One Hundredth Anniversary of the Founding of Davidson College, 749; at the Centenary Celebration of the Founding of Mt. Holyoke College, 310; at the Semicentennial Celebration of the Founding of the University of Wyoming, 749; at the Inauguration of William Alfred Eddy as President of Hobart College and William Smith College, 2; at the Third International American Conference, Mexico City, 749; on the National Research Council, 150; Semicentennial Celebration, 593, 749; Statistics, 149; Summer Meeting (1937), 745; Transactions, 159; Treasurer's Report, 149.

Associations for the Advancement of Science: American, 150, 159, 161, 310, 319; British, 159.

Academia Sinica, 159; American Documentation Institute, 462, 749; American Philosophical Association, 159; Association for Symbolic Logic, 159; British Astronomical Association, 15; Cowles Commission for Research in Economics, 159; Descartes Congress, 608; Econometric Society, 159, 319; International Statistical Institute, 159; Kaiserlich Deutsche Akademie der Naturforscher, Halle, 15; Mathematical Association of America, 145, 745, 750; National Academy of Peiping, 159; National Academy of Sciences, 608; National Research Council, 150; New York Mathematical Society, 593; Paris Academy of Sciences, 160, 320, 608; Pontifical Academy of Sciences, 15, 161; Royal Society of Edinburgh, 462; Royal Society of London, 15; Royal Statistical Society of London, 161; Sigma Delta Epsilon, 747.

Books, Announcement of New, 750.

Doctorates, American, 320.

## Journals:

Annals of Mathematics, 15; Bulletin of the American Mathematical Society, 319, 760; Geophysics, 462; Journal of the Chinese Mathematical Society, 159; Revista de Ciencias, 462; Revue Mathématique de l'Union Interbalkanique, 15; Science and Society: A Marxian Quarterly, 319, 760; Transactions of the American Mathematical Society, 159.

National Research Fellowships, 608.

Papers and Communications Presented to the Society, Authors:\*

Adams, C. R., 153 (19); Adkisson, V. W., 153 (19), 313 (175), 753 (468); Agnew, R. P., 306 (165), 752 (612), 754 (335), (765); Ahlfors, L. V., 752 (332); Albert, A. A., 154 (42; 811), 155 (42; 811), 447 (195), 752 (469), (771); Alexander, H. W., 753 (612); Allendoerfer, C. B., 153 (42; 811), 447 (198); Arnold, H. A., 314 (330), 441( 203), (775),(777); Ayres, W. L., 154 (20).

Baer, R., 3 (42; 805), 3 (42; 805); 3 (42; 806), 751 (613), 754 (469), 754 (613); Bailey, R. P., 306 (166); Baker, R. P., 445 (188); Bateman, H., 754 (613); Beckenbach, E. F., 754 (613), (770); Bell, C., 442 (207); Bell, E. T., 8 (42; 823), 441 (202), 442 (207), (774), (776), (777); Bell, P. O., 6 (42; 816), 445 (201), (772); Bernstein, B. A., 441 (201); Bernstein, F., 312 (331); Bird, M. T., 754 (333); Birkhoff, G., 154 (20), 155 (20), 306 (166), 311 (169), 314 (169), 754 (614), 754 (614); Birkhoff, G. D., 753 (627); Blichfeldt, H. F., 442 (205); Blumenthal, L. M., 6 (42; 805), 7 (42; 804), 445 (329), 447 (194), (771); Boas, R. P., 752 (469), (765); Bourgin, D. G., 7 (42; 820); Brauer, R., (766); Bray, H. E., 154 (20); Brenner, J. L., 155 (42; 812), 446 (196); Brown, A. B., 312 (169), 314 (170); Browne, E. T., 754 (614).

Cairns, S. S., 313 (170), 754 (469); Calkin, J. W., 312 (170), 448 (199), 751 (615); Cameron, E. A., 153 (21); Cameron, R. H., 152 (21), 152 (21), (766); Camp, C. C., 6 (42; 820); Carathéodory, C., 5; Carlitz, L., 153 (21), 155 (21), 155 (22), 313 (171), 314 (171), 751 (470); Carroll-Rusk, E., 313 (180); Chanler, J. H., 157 (40), 756 (626); Chatland, H., 446 (327); Church, A., 755 (333); Churchill, R. V., 446 (191), 753 (470), (771); Clarkson, J. M., 152 (22); Claytor, W. S., 153 (22); Cohen, L. W., 154 (23), 445 (201); Comenetz, G., 3 (42; 806), 3 (42; 806); Comfort, E. G. H., 151 (23); Copeland, A. H., 445 (192); Courant, R., 312 (171); Court, N. A., 157 (41); Coxeter, H. S. M., 754 (470); Craig, H. V., 755 (615); Curry, H. B., 155 (23), 313 (171), 752 (615); Curtiss, J. H., 752 (466), (766).

Daly, J. F., 152 (42; 812); Daoust, J. H., (772); Daus, P. H., 8 (42; 821), 9 (42; 825), (776); DeCicco, J. J., 312 (331), (766); Diamond, A. H., (775); Dickson, L. E., 447 (327); Dilworth, R. P., (773); Dodd, E. L., 155 (23), 306 (42), 314 (172), (627); Doob, J. L., 446 (327); Doyle, W. C., 448 (200), 751 (333); Dresch, F. W., 442 (204); Dressel, F. G., 151 (24); Dribin, D. M., 152 (24), 306 (166), 751 (616); Duffin, R., 7 (42; 820); Dunford, N., 155 (24), 155 (24); Duren, W. L., 152 (42; 812); Dwyer, W. A., 448 (185), 448 (185); Dye, L. A., 152 (24).

Elconin, V., 8 (42; 823), 9 (42; 826), 9 (42; 826), 9 (42; 826), 442 (203), 442 (207), 443 (208); Emch, A., 7 (42; 818), 9 (42; 825), 153 (42; 813); Emery, E. W., 6 (42; 817); Evans, G. C., 157 (165); Evans, H. P., 445 (188); Ewing, G. M., 6 (42; 817), 446 (196), (772).

---

\* Numbers within parentheses refer to abstracts, and those outside parentheses to titles as listed in reports of meetings.



Farrell, O. J., 751 (616); Feld, J. M., 7 (42; 816), 306 (43); Fialkow, A. D., 3 (42; 807), 306 (43), 314 (172), 755 (471), 755 (616), (628); Flood, M. M., 155 (25), 312 (172); Ford, L. R., 6; Forsyth, C. H., (770); Fort, T., 752 (471); Foster, A. L., 442 (203); Foster, R. M., 3 (42; 626); Franklin, P., 2, (767); Friedman, B., 753 (471); Friedrichs, K., 4 (42; 810), 751 (616); Fuller, G., 6 (42; 819); Fulton, D. G., 446 (190).

Gergen, J. J., 752 (335); Girshick, M. A., 312 (172); Glenn, O. E., 757 (627); Goldstine, H. H., 155 (25), 447 (186), 448 (329), 755 (617), (771); Gore, G. D., 6 (42; 817); Graustein, W. C., 312 (331); Graves, C. H., 152 (25); Green, J. W., (773); Green, L., 445 (192); Greenwood, J. A., 152 (37), 312 (173), 754 (617); Grove, V. G., 447 (198).

Hall, D. W., 153 (42; 813), (774); Hall, M., 313 (173); Hall, N. A., 441 (202), 442 (206), (773); Hall, P., 755 (336), 757 (617); Halmos, P. R., (770); Halperin, I., 153 (37), 154 (38), 312 (173); Hamilton, H. J., (773); Hamilton, O. H., 755 (467); Harrison, R. A., 4 (42; 807); Harrold, O. G., 441 (201), 442 (206); Hartman, P., (777); Hausmann, B. A., 313 (174); Helmer, O., 151 (38), 447 (189); Herzberger, M., 445 (198); Hestenes, M. R., 8 (42; 821), 442 (205); Hille, E., 9 (42; 824), 308, 314 (174); Hoel, P. G., 448 (329); Holl, D. L., 7 (42; 817); Hollcroft, T. R., 154 (26), 305; Hopkins, C., 152 (26); Householder, A. S., 6 (42; 818); Hull, R., 446 (191); Hurd, C. C., 151 (26), 447 (189); Hutchings, W. L., 753 (617); Hutchison, L. P., 155 (27); Hyers, D. H., 8 (42; 822), 9 (42; 825), 9 (42; 826), 442 (203), 755 (618).

Ingraham, M. H., 446 (187), 446 (187), 752 (618); Ingram, W. H., 755 (332), (468), (780); Iyer, V. G., 755 (467).

Jackson, D., 154 (27), 155 (27), 155 (27), 447 (188), 752 (336), (772); Jackson, S. B., 312 (331); Jacobson, N., 152 (39), 157 (38), 312 (174), 448 (186), 448 (186), 753 (618); James, G., 8 (42; 822), 442 (206), (774); James, R. D., 9 (42; 824), 442 (204); Jensen, V. P., 7 (42; 817); John, F., 155 (28), 447 (328), 448 (328), 754 (619); Jones, C. D., 445 (190); Jones, F. B., 314 (174).

Kasner, E., 3 (42; 807), 155 (28), 156 (28), 755 (471), 755 (472); Kawaguchi, A., (769); Kershner, R. B., (773); Ketchum, G. S., 752 (619); Ketchum, P. W., 152 (29), 752 (619); Kimball, W. S., 6 (42; 818), 447 (194); Kleene, S. C., 155 (41), 445 (188); Knebelman, M. S., 753 (619); Koehler, F., (772); Kraus, G. R., 753 (466).

Lancaster, O. E., (778); Lane, E. P., 447 (42; 804); Langer, R. E., 447 (193), 752 (620); Languier, E. H., 306 (167); Lasley, J. W., 153 (21); Latimer, C. G., 153 (42; 813), 447 (191); Latshaw, V. V., 156 (29), (767); Lefschetz, S., 146; Lehmer, D. H., 306 (167), 313 (175), 751 (472); Lester, C. A., (628); Levinson, N., 755 (334); Lewis, D. C., 754 (620), 755 (620); Lewy, H., 8 (42; 821), 8 (42; 824), 8 (42; 824); Lowan, A. N., 3 (42; 643), 156 (29), (767); Lowenstein, L. L., 752 (621); Lubben, R. G., 154 (41), 753 (621); Luther, H. A., 446 (195).

McCoy, N. H., 7 (42; 819), 311 (177), 755 (467); McEwen, W. H., 755 (622); McShane, E. J., 153 (39), 156 (39), 448 (328); MacDonald, J. K. L., 751 (621); MacLane, S., 153 (19), 153 (29), 313 (175); MacNeille, H. M., 311 (175); MacQueen, M. L., 447 (42; 804); Maddaus, I., 754 (472);

Madow, W. G., 312 (176), 314 (176); Mancill, J. D., 151 (30); Manning, D., 441 (202); Maria, A. J., 154 (30), 752 (621); Martin, R. S., 448 (200); Martin, W. T., 152 (21); Mayer, W., 753 (619); Menger, K., 312 (332); Merriman, G. M., 157 (42; 815); Michal, A. D., 8 (42; 822), 9 (42; 825), 443 (204), 755 (622), 755 (622), (775), (777); Milgram, A. N., 154 (165), 313 (332); Miller, E. W., 445 (197), 448 (197); Montgomery, D., 305 (167), 311 (177), (767); Moore, C. N., 156 (30); Moore, R. L., 153 (31), 156 (30); Morse, A. P., 3 (42; 808), 153 (19), 753 (622), 754 (335); Morse, H. M., 156 (31); Murray, F. J., 4 (42; 808); Myers, S. B., 445 (197).

Nakayama, T., (768); Neelley, J. H., 753 (466); Nesbitt, C. J., (766); Netzorg, D. L., 754 (623), 755 (623), 756 (623); v. Neumann, J., 4 (42; 808), 153 (37), 746; Newman, P., 756 (472).

O'Connor, R. E., (628); Oldenburger, R., 152 (31), 312 (177), 446 (193), (768); Olds, C. D., 442 (206); Olds, E. G., 152 (32), 754 (623), (779); Olshen, A. C., 445 (194); Ore, O., 153 (32), 311 (177), 313 (174).

Pall, G., 751 (473), 756 (473); Parker, W. V., 756 (473), 756 (474); Paxson, E. W., 8 (42; 822), 442 (204); Pettis, B. J., 313 (177), (768); Pitcher, A. E., 306 (167), 756 (624); Poor, V. C., (779), (779); Post, E. L., 3 (42; 810); Price, G. B., 3 (42; 808); Puckett, W. T., 314 (178).

Rademacher, H. A., 157 (41), 306 (43); Radó, T., 156 (42; 813), 752 (624), (769); Rainich, G. Y., 447 (189); Randels, W. C., 447 (185), (770); Randolph, J. F., 154 (32), 753 (622), (769); Rees, C. J., 312 (178); Reid, W. T., 3 (42; 809), 444, 448 (200), 448 (330); Richardson, M., 753 (474); Rietz, H. L., 5; Ritt, J. F., 756 (624); Roberts, J. H., 153 (32); Robertson, M. S., 154 (39), 306 (168); Robinson, L. B., 4 (42; 809), 157 (42), 314 (178), 756 (624), (768); Robinson, R. M., (776); Robinson, S. L., 152 (33); Roeber, W. H., 7 (42; 820), 445 (329); Ross, A. E., 446 (196); Rosser, J. B., 156 (42; 814), 313 (178), 756 (474); Roth, W. E., 446 (44); Rothe, E., (777); Russell, H. N., 2.

Safford, F. H., (476); Schaeffer, A. C., 752 (474); Schoenberg, I. J., 306 (168), 313 (179); Schweigert, G. E., 153 (42; 813), 313 (179), (774); Schweitzer, A. R., 4 (42; 809), 7 (42; 819), 156 (33), 306 (43), 756 (475), 756 (475), (769); Senior, J. K., 757 (617); Sewell, W. E., 154 (42; 489), 156 (42; 494), 156 (42; 814), 156 (40), 314 (181), 756 (466), 756 (624), (779); Shanks, M. E., 447 (200); Shaw, A. A., 8 (42; 821), (774); Sheffer, I. M., 312 (179); Shephard, R. W., 442 (205); Shiffman, M., 312 (179); Shohat, J. A., 156 (33), 313 (180); Sigley, D. T., 6 (42; 816); Silverman, L. L., 311 (180); Simond, R. G., 445 (199); Sinkov, A., 306 (168); Smiley, M. F., 446 (188); Smith, F. C., (779); Snyder, V., 313 (180); Springer, C. E., 753 (475); Staniland, A. E., (625); Stopher, E. C., 445 (193), 448 (198); Stouffer, E. B., 6 (42; 817); Strodt, W. C., 306 (168); Struik, D. J., 155 (40); Struik, R. R., (778), (778); Sugar, A., 8 (42; 824), 156 (33), 442 (206), 443 (208); Sullivan, C. T., 314 (180); Synge, J. L., 313 (181); Szász, O., 154 (34), 447 (196).

Tamarkin, J. D., 308; Taub, A. H., 753 (625), 756 (625); Taussky, O., (780); Taylor, A. E., 8 (42; 823), 441 (202); Thielman, H. P., 446 (195); Thomas, J. M., 146, 156 (34); Thrall, R. M., 446 (187), 756 (626); Thurston, H. S., 156 (34); Tompkins, C. B., 154 (42; 814); Torrance, E. M.,

753 (626); Traber, R. E., 153 (34); Trjitzinsky, W. J., 157 (35), 752 (626); Tucker, A. W., 154 (35), 753 (627); Tuller, A., 751 (467).

Vaughan, H. E., 153 (35), 445 (199).

Wade, T. L., 152 (42; 815), 157 (42; 815); Wagner, R. W., 446 (192), 446 (330); Wall, H. S., 446 (186); Walsh, J. L., 154 (42; 489), 157 (42; 815), 157 (35), 314 (181); Ward, M., 8 (42; 822), 314 (181), 443 (202), (776); Warnock, W. G., 7 (42; 817); Warschawski, S. E., 3 (42; 810); Watson, G. C., 314 (182); Webster, M. S., 7 (42; 818); Wehausen, J. V., 753 (476); Welmers, E. T., 445 (185); Whiteman, A. L., 157 (42; 816), 306 (169); Whitney, H., 4 (42; 810), 157 (42; 816), 313 (182), 314 (182), 746; Whyburn, G. T., 313 (40), 314 (183), 314 (183); Whyburn, W. M., 8 (42; 821); Widder, D. V., 157 (42), 308, 756 (466), (765); Wiener, N., 154 (36); Wilcox, L. R., 312 (183); Wilder, R. L., 756 (334), 757 (334), 757 (335); Wilks, S. S., 312 (184); Williamson, J., 311 (184); Wolf, M. C., 446 (187); Wong, B. C., 313 (184); Wren, F. L., 152 (36).

Zariski, O., 155 (36), 157 (36), 157 (37); Zippin, L., (767); Zorn, M., 8 (42; 823), (775).

#### Personal Notes:

Abraham, H., 160; Adams, C. R., 3, 150; Agnew, R. P., 746; Ahlfors, L. V., 746; Albert, A. A., 444, 463, 750; Alexander, J. W., 594, 760; Allen, E. F., 16; Allendoerfer, C. B., 326; Allison, N. B., 325; Amaldi, U., 161; Amato, V., 161, 609; Ames, D. B., 463; Ames, V. A., 464; Anderson, E. W., 325; Anderson, M. R., 320; Archibald, R. C., 749; Archibald, R. G., 760; Arnold, H. E., 16; Arnulf, A., 160; Artin, E., 762; Ashton, C. H., 5; Astrachan, M., 463; Atanasoff, J. V., 162; Auclair, J., 320; Aumann, G., 320; Ayres, H. C., 320, 763; Ayres, W. L., 149; Ayyar, R. B. S. N., 465.

Babcock, R. W., 444; Bacon, C. L., 747; Bagby, L. C., 463; Bailey, A. H., 320; Baker, G. A., 609; Baker, R. P., 764; Ballantine, J. P., 609; Barber, S. F., 325; Bardeen, J., 320; Bardell, R. H., 320; Bargmann, V., 763; Bartlett, J. H., 17; Basoco, M. A., 760; Bassi, A., 763; Bean, L. H., 159; Beatty, S., 16; Becker, L., 162; Becker, M. F., 763; Becker, R., 15; Becquerel, J., 160; Beetle, R. D., 611; Bell, E. T., 441, 594, 760; Bell, P. O., 163; Benedicks, C., 160; Benedict, H. Y., 465; Bennett, A. A., 160; Bennett, T., 764; Benton, T. C., 747; Bergeron, L., 160; Bergmann, P. G., 763; Bernol, J. D., 319; Bernstein, B. A., 760; Bernstein, D. L., 764; Bernstein, F., 308; Bernstein, S., 608; Binkley, R. C., 462; Bird, M. T., 163, 611; Birkhoff, G., 746, 760; Birkhoff, G. D., 15, 161, 594, 608, 746, 749; Biscay, C. M., 18; Black, A. H., 325; Blichfeldt, H. F., 441; Blincoe, J. W., 320; Bliss, G. A., 150, 159, 310, 319, 444, 749; Blumberg, A. E., 319; Blumberg, H., 159; Boas, R. P., 608; Bochner, S., 308, 760; Bohnenblust, H. F., 308; Bohr, N., 325; Bompiani, E., 608; Borofsky, S., 463; Bouligand, G., 320; Boutry, G., 160; Bowen, L. H., 320; Bowley, A. L., 15; Boyer, L., 160; Brahana, H. R., 159; Brand, L., 463; Brenke, W. C., 6; Brenner, J. L., 163, 320; Bridgman, P. W., 160; Britton, J. R., 320; Brixey, J. C., 320; Brown, E. W., 608; Brown, T. H., 159; Browne, E. T., 145; Bruhat, G., 160; Buchanan, H. E., 609; Buchanan, S., 609; Buck,

S. J., 462; Burdette, A. C., 321; Bureau, R., 160; Burgum, E. B., 319; Butchart, J. H., 162; Butter, F. A., 321, 611; Byrne, W. E., 760.

Cairns, S. S., 17; Cairns, W. D., 161; Calvert, J. F., 321; Cameron, E. A., 321, 609; Cameron, R. H., 463; Camp, E. J., 610; Campbell, W. B., 763; Cantelli, P., 608; Carathéodory, C., 5, 161, 162; Cardwell, K., 163; Carlitz, L., 760; Carnap, R., 160; Carter, H. C., 16; Carus, M. H., 18; Carver, W. B., 2, 146, 151, 760; Case, J. E., 321; Cauchois, Y., 160; Chadenson, L., 160; Chapman, S., 15; Chatland, H., 764; Cherubino, S., 609; Chevalley, C., 160; Chittenden, E. W., 310; Chou, P., 17; Choucroun, N., 160; Churchill, R. V., 162; Clarkson, J. A., 760; Clipping, R. F., 611; Coble, A. B., 310, 311; Cohen, L. W., 444; Cohen, T., 747; Coleman, J. B., 749; Comenetz, G., 321; Comfort, E. G. H., 321, 611; Cook, R. H., 764; Coolidge, J. L., 159, 161, 749; Cooper, E. M., 610; Cope, T. F., 761; Copeland, A. H., 761; Copeland, L. P., 463; Couder, A., 160; Courant, R., 325, 760; Cowan, R. W., 324; Coxeter, H. S. M., 16; Craig, A. T., 760; Craig, C. C., 761; Cramér, H., 608; Crockett, C. W., 326; Crout, P. D., 162; Curry, H. B., 760; Curtiss, D. R., 310, 319.

Darwin, C. J., 462; Davis, A. W., 764; Davis, H. T., 159, 162, 163, 463; Davis, J. E., 463; Davis, W., 462; Dearborn, D. C., 321; DeLury, D. B., 321; Denbow, C., 17; Dickson, L. E., 596; Dines, C. R., 164; Dines, L. L., 150; Doak, E. C., 761; Dodd, E. L., 159, 320, 608; Doob, J. L., 159, 760; Doole, H. P., 610; Dougall, J., 161; Douglas, J., 310; Dresch, F. W., 320, 608; Dresden, A., 608, 760; Dribin, D. M., 321, 608; Dunford, N., 159, 321; Duren, W. L., 17; Dwyer, P. S., 321, 761.

Eaves, E. D., 610; Echols, R. L., 761; Eddy, W. A., 2; Einaudi, R., 161; Einstein, A., 161; Eisenhart, C., 764; Eisenhart, L. P., 310, 311; Elliott, E. B., 764; Elliott, W. W., 145; Emch, A., 760; Engstrom, H. T., 760; Ettlinger, H. J., 150; Evans, G. C., 7, 149, 159, 310, 320, 441, 594, 749, 760.

Feller, W., 608; Fialkow, A., 321; de Finetti, B., 608; Fisher, J., 16; Fisher, R. A., 15; Fiske, T. S., 593; Fitch, F. B., 160; Fite, W. B., 149; Fithian, J. H., 463; Flanders, D. A., 610; Flexner, W. W., 146, 151; Fobes, M. P., 611; Ford, L. R., 6, 761; Foster, W. I., 465; Fowler, R. H., 15; Fox, A. H., 610; Fox, R. H., 326; Frankel, S., 321; Franklin, P., 2; Franklin, P. L., 159; Fréchet, M., 608; Friedli, W., 163; Friedman, B., 321, 764; Friedrichs, K., 761; Frink, A. H., 17; Frink, O., 150, 760; Frisch, R., 159; Fry, T. C., 310, 747, 760; Fryer, H. C., 764.

Garabedian, H. L., 760; Garretson, W. V. N., 16; Gergen, J. J., 159, 761; Gerould, J. T., 462; Getchell, B. C., 310, 463; Gévrey, M., 160; Gifford, E., 164; Giudice, F., 164; Givens, J. W., 321, 464; Gleyzal, A., 321; Glivenko, V., 608; Gödel, K., 762; Goldstein, S., 608; Goldstine, H. H., 321; Goodman, H. N., 160; Goursat, E., 164, 608; Grace, S. F., 465; Graffi, D., 161; Graham, F. P., 145; Graustein, W. C., 749, 760; Graves, L. M., 159, 311, 319, 444; Green, L., 764; Greville, T. N. E., 764; Grossmann, M., 164; Grove, V. G., 162; Gugino, E., 609.

Haas, A. E., 159, 319; Hahn, J. W., 321; Hall, M., 321, 464; Halperin, I., 322, 610; Hamilton, H. J., 322; Hamilton, O. H., 761; Hammond, H. P., 747; Hancock, H., 463; Hanna, U. S., 162; Hardy, G. H., 17; Harrison, R. A., 322; Harrold, O. G., 322, 764; Harshbarger, F., 16; Hart, W. L.,

747; Harter, G. A., 463; Harvey, G. G., 763; Haselfoot, C. E., 17; Hausmann, B. A., 761; Hawkins, E., 610; Heaslet, M. A., 463; Hecke, E., 763; Hedberg, E. A., 761; Hedlund, G. A., 149; Hedrick, E. R., 7, 149, 310, 319, 464; Hefner, R. A., 325; Heisenberg, W., 608; Hektoen, L., 462; Henderson, R., 149; Herpel, C., 17; Hestenes, A. D., 611; Hestenes, M. R., 159, 463; Hetzel, R. D., 747; Hickson, A. O., 150; Higdon, A., 322; Highberg, I. E., 322; Hilbert, D., 760; Hildebrandt, T. H., 150, 310, 444; Hill, J. D., 322; Hille, E., 149, 308, 310, 749, 760; Hitchcock, R., 326; Hlavatý, V., 763; Hoffman, B., 764; Hofmann, L., 764; Hollcroft, T. R., 145, 149, 150, 305, 310, 750, 760; Holweck, F., 160; Hopf, E., 161, 608; Hopkins, C., 17; Hostinsky, B., 608; Hotelling, H., 311, 760; House, R. B., 145; Howland, R. C. J., 162; Huber, M., 160; Hull, R., 159, 761; Hume, A., 463, 610; Huntington, E. V., 160, 760; Hurd, C. C., 322; Hurewicz, W., 17, 462, 763; Hurwitz, W. A., 146, 151, 760; Huston, R., 463; Hutchings, W. L., 324; Hutchinson, C. A., 749; Hutchison, L. P., 322; Hyers, D. H., 764.

Iglisch, R., 609; Infeld, L., 17, 763; Ingraham, M. H., 5, 310, 749, 760.

Jackson, D., 444; Jackson, S. B., 764; Jacobson, N., 611; James, R. D., 760; Jenkins, E. D., 162; Jensen, V. P., 322; Jerbert, A. R., 610; Joffe, S. A., 149, 150; Johnson, M. M., 763; Johnson, R. A., 150, 610; Jordan, C., 608; Jørgensen, J., 160; Julia, G., 160.

Kähler, E., 161; Kales, M. L., 322, 326, 764; Kaltenborn, H. S., 761; van Kampen, E. R., 760; Karpinski, L. C., 608; Kasner, E., 15, 610; Kaye, G. W. C., 159; Kempner, A. J., 6, 747; Kennedy, E. C., 761; Kershner, R. B., 764; Ketchum, P. W., 17, 763; Kiang, T., 17; Kirkham, W. J., 761; Kleene, S. C., 610; Kline, J. R., 149, 150, 159, 310, 746, 749; Kline, M., 322; Klose, A., 609; Kloyda, M. T., 322; Kneser, H., 609; Kolmogoroff, A., 608; Köthe, G., 609; Krall, G., 608; Kraus, C. A., 749.

Lanczos, C., 162; Lane, E. P., 444; Lane, H. I., 761; Lang, G. B., 322; Langer, R. E., 760; Langevin, P., 319; LaPaz, L., 319, 760; Laporte, M., 160; Larew, G. A., 750; Larguier, E. H., 464; Larsen, H. D., 322, 464; Lasley, J. W., 145; Latimer, C. G., 749; Leavens, D. H., 162; Lefschetz, S., 2, 146, 150, 151, 159, 319, 749, 760; Lehmer, D. H., 464, 760; Lehmer, D. N., 319, 464; Lehr, A. M. M., 464; Leighton, W., 764; Lejay, P., 160; Lemaitre, G., 762; Leonard, H. S., 160; Levi-Civita, T., 17, 161; Levin, M., 322; Levine, J., 325; Levinson, N., 326; Levy, H., 319; Levy, H., 763; Lévy, P., 160, 608; Lewis, F. A., 464; Litzinger, M., 762; Longley, W. R., 149, 464; Love, C. E., 162; Lowenstein, L. L., 762; Lubin, C. I., 610; Luck, J. J., 750; Luther, C. F., 16; Luther, H. A., 763; Lutz, J. M., 310; Lyot, B., 160.

McAlister, E. H., 325; McClay, D. T., 611; McCoy, N. H., 310, 763; McCuskey, S. W., 610; McFarland, D., 322; McGill, V. J., 319; McKinsey, J. C. C., 322, 464; McShane, E. J., 159, 319, 594, 750, 760; Macaulay, F. S., 326; Macaulay, W. H., 164; MacDougal, H. B., 610; MacDuffee, C. C., 146, 149, 151, 310, 444, 760, 763; Mack, P., 747; MacKay, R., 610, 762; MacKenzie, M. A., 16; MacLane, S., 464; MacMillan, W. D., 16; Maggi, G. A., 161, 611; Maier, W., 609; Malaxa, N., 462; Manning, D., 608; Manning, W. A., 441, 760; Maroni, A., 609; Martin, M. H., 325;

Martin, R. S., 16; Martinetti, V., 611; Masoni, A., 611; Masotti, A., 609; Matison, H., 322; Mattioli, I., 609; May, A. E., 323; May, K., 320; Mayer, W., 159, 763; Mayor, B., 164; Meder, A. E., 149, 150; Mehlenbacher, L. E., 323, 762; Mendel, C. W., 763; Menge, W. O., 762; Menger, K., 159, 162, 319; Mennet, R. L., 16; Merrill, L. L., 323; Mersman, W. A., 323; Michel, R. J., 611; Milgram, A. N., 764; Miller, D. C., 163; Miller, G. A., 161; Miller, O. L., 611; Mills, C. N., 163; Milne, W. E., 444; v. Mises, R., 608; Mitchell, H. H., 311, 760; Mitchell, U. G., 5; Modesitt, V., 611; Moir, H., 611; Montel, P., 608; Moore, C. N., 150, 464, 750, 760; Moore, R. L., 146, 149, 151, 746, 747, 749; Morrey, C. B., 763; Morse, A. P., 763; Morse, H. M., 145, 159, 310, 319, 444, 749, 760; Moulton, E. J., 17; Moulton, F. R., 161; Mullins, G. W., 2, 149; Murnaghan, F. D., 17, 150, 749; Murray, F. J., 760; Myers, S. B., 17, 159, 319.

Nagle, E. E., 160; Nakayama, T., 763; Nesbitt, C. J., 763; v. Neumann, J., 310, 462, 746, 760; Newman, M. H. A., 763; Newson, M. W., 747; Neymann, J., 608; Noble, A. R., 325; Noble, C. A., 464; Nordheim, L. W., 16, 159.

Oakley, C. O., 464; Obrechhoff, N., 608; Odoms, A. H., 150, 323; Oldenburger, R., 763; Olshen, A. C., 762; Onicescu, O., 608; Ore, O., 749, 760; Owens, F. W., 150, 747; Owens, H. B., 747.

Pall, G., 746; Patillo, N. A., 18; Patterson, W. A., 323; Paxson, E. W., 611, 763; Pedoe, D., 16; Peierls, R., 462; Penney, W. G., 16; Peters, R. M., 17; Peterson, E. L., 323; Phillips, H. B., 749; Picard, E., 161; Pipes, L. A., 608; Pixley, H. H., 762; Pólya, G., 608; Poncin, H., 160; Prenowitz, W., 17, 323; Price, G. B., 611; Purcell, E. J., 611; Pyle, H. R., 163.

Quade, E. S., 323.

Rademacher, H. A., 760; Radó, T., 159, 319; Rainich, G. Y., 760; Rainville, E. D., 764; Rambo, S. M., 325; Randolph, J. F., 17, 763; Rao, D. B. R. R., 164; Rasmusen, R. B., 323; Raudenbush, H. W., 763; Raynor, G. E., 17; Rees, E. L., 163; Rees, H., 764; Reid, W. T., 159, 319, 444, 464, 760; Reilly, H., 323; de Rham, M. C., 161; Rhodes, C. E., 764; Ricci, G., 162; Richardson, D. P., 762; Richardson, M., 323, 763; Richardson, R. G. D., 149, 749; Rietz, H. L., 5, 6, 149, 444; Rinehart, R. F., 611; Ritt, J. F., 305, 311, 594, 760; Robb, A. A., 164; Robbins, H. E., 611; Robert, P., 160; Roberts, J. H., 145, 762; Robertson, H. P., 150; Robertson, M. S., 464; Robinson, R., 17; Robinson, R. M., 763; Roever, W. H., 6; Roos, C. F., 159, 163, 319; Rosen, J. S., 323; Rosenbaum, B., 323; de Roy, F., 15; Rule, J. T., 163; Running, T. R., 17; Ruse, H. S., 162; Russell, H. N., 2, 160; Rutt, N. E., 17.

Sagen, O. K., 163, 611; Sanchez-Diaz, R., 762; Sard, A., 323, 764; Scarborough, J. B., 762; Schaeffer, A. C., 163, 323; Scheffé, H., 611; Schilling, O. F. G., 609; Schlauch, M., 319; Schneckenberger, E. R., 611; Schoenberg, I. J., 611; Schumpeter, J., 159; Schwid, N., 325; Scorza-Dracconi, G., 162; Seidel, W., 762; Seiler, L., 323; Serbin, H., 763; Sewell, W. E., 324; Shanks, M. E., 17, 324; Shepard, R. W., 319; Sheridan, L. W., 762; Shohat, J. A., 159, 320, 760; Shook, C. A., 17; Shover, C. G., 763; Simester, J. H., 325; Simon, W. G., 17; Singer, P. M., 763; Slaughter, H. E., 465, 595, 750; Slotnick, M. M., 462; Slutsky, E., 608; Smart, W. M.,

162; Smiley, M. F., 763; Smith, A. J., 17; Smith, C. E., 747, 762; Smith, F. C., 325; Smith, P. A., 3, 149, 311, 319, 749; Smith, P. F., 17; Smith, R. E., 763; Smith, Z. L., 163; Smithies, F., 763; Snodgrass, O. T., 324; Snyder, C., 159; Snyder, V., 146, 151, 159, 311, 747, 749; South, D. E., 163; Southard, T. H., 324; Spencer, V. E., 324; Spitzbart, A., 611; Stafford, A. A., 764; Steenrod, N. E., 324, 326; Steffensen, J. F., 608; Steinhilber, H., 608; Stephens, L. S., 16; Stern, B. J., 319; Stetson, J. M., 750; Stilwell, S. E., 164; Stine, O. C., 159; van Stockum, W. J., 763; Stoker, J. J., 762; Stone, M. H., 17, 161, 311, 746, 749, 750, 762; Stopher, E. C., 763; Stouffer, E. B., 5, 6, 159, 760; Stratton, W. T., 611; Street, R. E., 764; Stribic, F., 163; Struik, D. J., 760; Suckau, J. W. T., 764; Sugar, A., 324; Sullivan, M. M., 150; Swanson, A. G., 324; Synge, J. L., 311, 594, 749; Szász, O., 464.

Tamarkin, J. D., 146, 149, 150, 151, 308, 311, 444, 749, 760; Taub, A. H., 163, 326; Taylor, A. E., 163, 324, 608; Teissié-Solier, M., 160; Teller, J. H. D., 325; Tenot, A., 160; Teofilato, P., 162; Thomas, J. M., 17, 145, 146, 749, 760; Thomas, T. Y., 594, 760; Thompson, J. M., 325; Thomson, E., 326; Thrall, R. M., 764; Thurston, H. S., 464; Tintner, G., 320, 763; Titt, E. W., 760, 763; Tompkins, C. B., 324, 608, 763; Tornier, E., 16; Townes, S. B., 324; Trefftz, E., 465; Trjitzinsky, W. J., 163, 746, 760; Turner, M. J., 764; Turpin, W. S., 324, 326; Turquette, A. R., 763; Tyler, H. W., 749.

Uhler, H. S., 464.

Vahlen, K. T., 609; Valentine, F. A., 163, 763; Vallarta, M. S., 749; de la Vallée-Poussin, C., 161; Van Engen, H., 464; Van Vleck, J. H., 161, 763; Vaughan, H. E., 763; Veblen, O., 150, 326, 462; Vedder, J. N. V., 164; Volterra, V., 161.

Wagner, C. C., 150; Wagner, Mrs. C. C., 747; Wagner, R. W., 764; Walker, R. J., 760; Wall, H. S., 760, 763; Walsh, J. L., 149, 159, 311, 760; Ward, M., 760; Weaver, W., 149; Webb, D. L., 324; Webber, G. C., 763; Wedderburn, J. H. M., 760; Wedner, U., 320; Wehausen, J. V., 763; Weisner, L., 760; Wellstein, J., 320; Welmers, E. T., 163; Westergaard, H., 164; Wheeler, A. P., 608; Wheeler, C. H., 750; Whitehead, A. N., 163; Whitney, H., 746; Whittaker, E. T., 161; Whyburn, G. T., 146, 149, 310, 750; Whyburn, W. M., 464, 760; Widder, D. V., 308, 311, 763; Wiener, N., 3, 146, 151, 305, 311, 594, 746, 749, 760; Wiggin, E. P., 324; Wilder, R. L., 749; Wilks, S. S., 159, 163; Williams, C. W., 163; Williams, K. P., 310; Williams, W. L., 324; Wills, A. P., 465; Wilson, W. A., 311; Wintner, A., 608, 763; Wolfe, J., 611; Wong, B. C., 760; Wood, F. E., 763; Wordheim, L. W., 319; Woodward, H. E., 611; Working, E. J., 159; Working, H., 159; Wright, H. N., 464.

Zahn, F., 159; Zariski, O., 308, 326, 746; Zippin, L., 760; Zorn, M., 760; Zuckerman, H. S., 324, 608.

#### Prizes and Medals:

Adams Prize at the University of Cambridge, 15; N. Malaxa Prize, 462; Mathematical Institute at Stockholm, Mittag-Leffler Medal, 760; National Academy of Sciences, James Craig Watson Medal, 608; Paris

Academy of Sciences, 160; Royal Society of Edinburgh, Gunning Victoria Jubilee Prize, 462; Royal Society of London, Royal Medal, 15; Royal Statistical Society of London, Frances Wood Memorial Prize, 161; Townsend Harris Prize of the College of the City of New York, 15.

Universities and Technical Schools:

University of Bucharest, 462; University of Cambridge, 15; University of Chicago, 159; University of Cincinnati, 463; College of the City of New York, 15; Colorado College, 159; Davidson College, 749; Duke University, 145; University of Geneva, 608; Harvard University, 311; Institute for Advanced Study, 17, 760, 763; University of London, 161; Massachusetts Institute of Technology, 311; Mathematical Institute at Stockholm, 760; Mt. Holyoke College, 310, 608; National Tsing Hua University, 159; National University of Peking, 159; University of North Carolina, 145; University of Notre Dame, 159, 319; Pennsylvania State College, 745; Radcliffe College, 311; University of San Marcos, 462; University of Utrecht, 15; Wesleyan University, 161; College of William and Mary, 150; University of Wyoming, 749.