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Karl VOGTHERR. — **Das Problem der Gleichzeitigkeit.** — Un volume in-8 de 195 pages; broché RM, 5,50; relié RM 7,50; Verlag von Ernst Reinhardt in München.

H. WOLFF. — **Karte und Krocki.** — Zweite Auflage. Herausgegeben von Dr. K. Rüsewald. Reihe I. (Mathematisch-Physikalische Bibliothek). — Un fasc. in-16 de 57 pages avec 47 figures, cart. RM 1.20, B.G. Teubner Leipzig et Berlin, 1933.

J. V. WOYCIECHOWSKI. — **Sipos Pál Élete és Matematikai Munkássága.** Ein ungarischer Mathematiker des ausgehenden 18. Jahrhunderts. Über seine Ellipsenrektifikation mittels Kochleioide und seine alleinstehenden logarithmisch-trigonometrischen Tafeln. Mit unveröffentlichten Briefen von Node und Kästner. — Un volume in-8 de 124 pages. Athenaeum, Budapest 1932.

### Manuels destinés à l'enseignement secondaire. — SUISSE.

E. VOELLMY und MAUTZ. — **Leitfäden der Algebra.** Zweiter Teil. (Mathematisches Unterrichtswerk für höhere Mittelschulen) Leitfäden und Aufgabensammlungen. — Un vol. in-8 de 210 pages avec 63 figures, cart. fr. 3.20, RM 2,60, Orell Füssli, Zürich et Leipzig, 1932.

## 2. Thèses de doctorat :

*Nous signalons sous cette rubrique les thèses de doctorat dont un exemplaire imprimé aura été adressé à la Rédaction, 110, Florissant, Genève.*

**Suisse.** — *Université de Genève.* — Nelly DANOZ: *Sur les rotations permanentes barotropes des astres fluides.* — 19 p.

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**Académie royale de Belgique,** Bulletin de la Classe des Sciences, 1932. — Hayez, Bruxelles.

**Acta Litterarum ac scientiarum,** Sectio Scientiarum Mathematicarum, Tom. III. — Université de Szeged, Hongrie.

**American Mathematical Monthly,** Official Journal of the Mathematical Association of America. Vol. XXXIX, 1932. Menasha, Wis.

**Anais da Faculdade de Sciênciã do Porto.** Vol. XVII, N° 1. Porto.

**Annales de la Société scientifique de Bruxelles,** 51<sup>me</sup> année.

**Boletin del Seminario matemático Argentino,** publicado por J. REY PASTOR, 1932, N° 11. Buenos-Aires.

**Bollettino della Unione matematica italiana**, anno XI, 1932. — Zanichelli, Bologne.

**Bollettino di Matematica**, 'Giornale scientifico-didattico per l'incremento degli Studi Matematici nelle scuole medie. Diretto da Dott. Alb. CONTI, con una Sezione storico-bibliografica pubblicata per Gino LORIA. Nuova serie. Anno XI, 1932. — Firenze.

**Bulletin de l'Association des Professeurs de Mathématiques de l'Enseignement secondaire public**. 18<sup>me</sup> année, 1932. — 21, avenue de Châtillon, Paris.

**Bulletin de la Société française de Philosophie**, 31<sup>me</sup> année. — Librairie Armand Colin, Paris.

**Bulletin de la Société Royale des Sciences de Liège**. Première année 1932. — Imprimerie Hayez, Bruxelles.

**Bulletin of the American Mathematical Society**, tome XXVIII, 1932. — New York.

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**Contribucio al Estudio de las Ciencias fisicas y matematicas**. — N° 94. — La Plata.

**Enseignement scientifique (L')**. Organe général de l'enseignement des sciences (Lycées et Collèges, Ecoles normales primaires, Ecoles primaires supérieures, Ecoles techniques). 5<sup>me</sup> année, 1931-1932. — Librairie de l'enseignement technique, Paris.

**Fundamenta Mathematicae**, publié par St. MAZURKIEWICZ et W. SIERPINSKI. Tomes XVIII, Varsovie. — Gauthier-Villars et Cie, Paris.

**Giornale di Matematiche**, T. 70, 1932. — Pellerano, Naples.

**Japanese Journal of Mathematics**, published by the National Research Council of Japan. Transactions and Abstracts. Vol. IX, 1-2, 1932. — Imperial Academy, Tokyo.

**Journal de Mathématiques élémentaires**, publié par H. VUIBERT, 56<sup>me</sup> année, 1931-32. — Librairie Vuibert, Paris.

**Journal of the Faculty of Science, Hokkaido Imperial University**, Series 1. Mathematics, Vol. 1, N° 3, Sapporo, Japon, 1932.

**Journal of the mathematical association of Japan for secondary Education**, vol. XIV, 1932. — Tokyo.

**Mathematisk Tidsskrift**. Série A, dirigée par E. TORSTING et Fr. FABRICIUS; Série B, dirigée par H. BOHR et T. BONNESEN, 1932. — Copenhague.

**Mathematical Gazette (The)**, publié par T. A.A. BROADBENT. Nos 212 à 222. — G. Bell and Sons, Londres.

**Mathesis.** Recueil mathématique à l'usage des écoles spéciales, publié par Ad. MINEUR, tome XLVI, année 1932. — Bruxelles.

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**Nieuw Archiv voor Wiskunde,** publié sous les auspices de la Société des Sciences d'Amsterdam, par D.-J. KORTEVEG, F. SCHUH et W. VAN DER WOUDE, 2<sup>me</sup> série, tome XVII, Nos 3-4. — Noordhoff, Groningue.

**Periodico di Matematiche,** Storia, Didattica, Filosofia, Série IV, vol. XII, 1932. — Zanichelli, Bologne.

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**Rendiconti del Seminario Matematica della R. Università de Padova.** Pubblicazione trimestrale. Anno III, 1932.

**Revista Matematica Hispano Americana,** 2<sup>me</sup> série, T. 7, 1932. — Madrid.

**Revue de mathématiques spéciales,** 42<sup>me</sup> année, 1931-1932. — Librairie Vuibert, Paris.

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**Unterrichtsblätter für Mathematik u. Naturwissenschaften.** Schriftleitung: Georg WOLFF in Hannover. Jahrgang 38, 1932. — O. Salle, Berlin.

**Revue Scientifique.** 71<sup>me</sup> année, 1933, N° 5. — A. DELTHEIL: Quelques caractères essentiels de l'Evolution des Sciences depuis un siècle.

**Revue générale des Sciences.** T. XLIII, N° 11. — G. BOULIGAND: Sur l'intégration qualitative. T. XLIV, N° 1. — M. D'OCAGNE: Quelques considérations sur les constructions géométriques. N° 4. — R. DE MONTESSUS DE BALLORE: Statistiques linéaires. — G. MATISSE: L'espace universel est-il fini ou infini?

**Acta Mathematica.** — Tome 59. — A. WIMAN: Ueber die Regelflächen sechsten Grades ohne Leitgerade. — T. CARLEMAN: Application de la théorie des équations intégrales linéaires aux systèmes d'équations différentielles non linéaires. — O. HÖLDER: Ueber einen asymptotischen Ausdruck. — V. ROMANOVSKY: Sur une classe d'équations intégrales linéaires.

— J. G. van der CORPUT: Diophantische Ungleichungen II. Rythmische Systeme. — Abschnitte A und B. — P. J. MYRBERG: Ueber die analytische Darstellung der automorphen Funktionen durch bedingt konvergente Reihen und Produkte. — R. LAGRANGE: Sur le calcul approché des intégrales définies. — J. J. CORLISS: On the unsymmetric top. — I. JOHANSSON: Eine Repräsentation der zweireihigen Matrizen (und der Quaternionen) durch Geraden des Raumes.

**American Journal of Mathematics.** — Vol. LIV. — A. ALBERT: On the construction of cyclic algebras with a given exponent. — B. W. JONES: On Selling's method of reduction for positive ternary quadratic forms. — E. T. BELL: A new type of arithmetical invariance. — L. CARLITZ: The arithmetic of polynomials in a Galois field. — M. S. REES: Division algebras associated with an equation whose group has four generators. — G. PALL: Large positive integers are sums of four or five values of a quadratic function. — J. SHOCHAT: On Stieltjes continued fractions. — J. GERONIMUS: On a problem of M. J. Shohat. — TSAI-HAN KIANG: On the critical points of non-degenerate Newtonian potentials. — C. A. MILLER: Complete sets of conjugates under a group. — A. B. BROWN: Topological invariance of sub-complexes of singularities. — M. E. TAYLOR: A determination of the type of planar Cremona transformations with not more than 9 F-points. — J. YERUSHALMY: On the representative space  $S$ , of the plane cubics. — A. WINTNER: On non-singular bounded matrices. — HASSLER WHITNEY: Congruent graphs and the connectivity of graphs. — G. T. WHYBURN: On the decomposability of closed sets into a countable number of simple sets of various types. — L. ZIPPIN: Generalization of a theorem due to C. M. Cleveland. — F. MORLEY and W. K. MORRILL: Tritangent circles of the rational bicubic. — W. M. RUST: Integral equations and the cooling problem for several media. — G.-C. EVANS: Complements of potential theory. — D. G. FULTON and G. Y. RAINICH: Generalizations to higher dimensions of the Cauchy integral formula. — M. A. BOSOCO: Fourier developments for certain pseudo-periodic functions in two variables. — P. W. KETCHUM: Solution of partial differential equations by means of hypervariables. — W. D. BATEN: A remainder for the Euler-MacLaurin summation formula in two independent variables. — F. MORLEY: The celestial sphere. — J. YERUSHALMY: On the configuration of the nine base points of a pencil of equianharmonic cubics. — A. EMCH: The symmetric  $(n, n)$  — correspondence and some geometric applications. — B. C. WONG: A hypersurface of order  $2^{r-1}$  in  $r$ -space. — V. SNYDER and H. E. SCHOONMAKER: Two involutorial transformations, of orders 11 and 9, associated with null reciprocities. — M. M. TORREY: Some properties of the fundamental curves of a birational transformation in space. — C. A. NELSON: On surfaces possessing a net of plane isothermally-conjugate curves. — D. H. LEHMER: A ternary analogue of abelian groups. — A. WINTNER: On the asymptotic repartitions of the values of real almost periodic functions. — Id.: On a generalization of the Lagrange-Gauss modular algorithm. — A. T. CRAIG: On the distributions of certain statistics. — G. T. WHYBURN: A certain transformation on metric spaces. — W. A. WILSON: On upper semi-continuous decompositions of compact continua. — L. M. BLUMENTHAL: A complete characterization of proper pseudo D-cyclic sets of points. — E. W. MILLER: On subsets of a continuous

curve which lie on an arc of the continuous curve. — B. A. BERNSTEIN: Note on the condition that a Boolean equation have a unique solution. — L. E. BUSH: On the equivalence of the decompositions of an algebra with respect to a principal idempotent. — A. B. COBLE: Hyperelleptic functions and irrational binary invariants. — O. ZARISKI: On the topology of algebraic singularities. — Id.: On a theorem of Eddington. — M. LEHR: Regular linear systems of curves with the singularities of a given curve as base points. — F. MORLEY: Second note on the celestial sphere. — F. MORLEY and W. K. MORRILL: On the common points of two planar cubics and of two planar cyclides. — F. MORLEY and R. C. YATES: The rectangular five-point. — L. A. DYE and F. R. SHARPE: The quartic space involutorial transformations with a double conic. — W. A. WILSON: A relation between metric and Euclidean spaces. — G. T. WHYBURN: On the construction of simple arcs. — P. M. SWINGLE: Biconnected and related sets. — C. T. WHYBURN: A note on spaces having the  $S$  property. — A. WINTNER: Remarks on the recurrent behavior of the characteristics on a torus. — E. R. VAN KEMPEN: Some remarks on the join of two complexes and on invariant subsets of a complex. — H. B. CURRY: Some additions to the theory of combinatorics. — J. L. WALSH: On the overconvergence of

sequences of rational functions. — O. J. FARRELL: On approximation to a mapping function by polynomials. — M. H. MARTIN: On infinite orthogonal matrices. — E. K. HAVILAND: A note on the convergence of the successive approximations to the solution of an ordinary differential equation. — D. M. HICKEY: A three-dimensional treatment of groups of linear transformations. — R. P. AGNEW: On summability of double sequences. — T. H. KIANG: On the existence of critical points of Green's functions for three-dimensional regions. — H. PORITSKY: On operations permutable with the Laplacian. — A. B. BROWN: On Morse's duality for manifolds. — E. P. LANE: Invariants of intersection of two curves on a surface. — E. T. CARROLL: Systems of involutorial birational transformations contained multiply in special linear line complexes. — E. F. BECKENBACH: Minimal surfaces of uniplanar derivation. — L. M. BLUMENTHAL: Concerning regular pseudo  $d$ -cyclic sets. — L. CARLITZ: On arrays of numbers. — G. BAILEY PRICE: A class of dynamical systems on surfaces of revolution. — W. T. REID: A boundary value problem associated with the calculus of variations. — Id.: On boundary problems associated with double integrals in the calculus of variations. — A. WINTNER: Note on generalization of the Lagrange-Gauss modular algorithm.

**Annals of Mathematics.** Second Series, Vol. 33. — N. WIENER: Tauberian theorems. — T. H. GRONWALL: Summation of series and conformal mapping. — M. MARDEN: A rule of signs involving certain orthogonal polynomials. — E. J. McSHANE: On a certain inequality of Steiner. — J. M. FELD: The expansion of analytic functions in generalized Lambert series. — D. H. LEHMER: Arithmetical periodicities of Bessel functions. — T. H. RAWLES: A note on hypergeometric functions of two variables. — L. PONTRJAGIN et L. SCHNIRELMANN: Sur une propriété métrique de la dimension. — Id.: Ueber stetige algebraische Körper. — A. KOLMOGOROFF: Zur Begründung der projektiven Geometrie. — N. H. MCCOY: On the

resultant of three double binary forms. — C. C. CRAIG: On the composition of dependent elementary errors. — E. T. BELL: On the real multiplication of elliptic functions. — E. R. LORCH: Elementary transformations. — R. L. ANDERSON: A problem in the simultaneous reduction of two quadratic forms in infinitely many variables. — G.-A. BLISS: The problem of Bolza in the calculus of variations. — T. H. GRONWALL: An inequality for the Bessel functions of the first kind with imaginary argument. — Id.: A special conformally euclidean space of three dimensions occurring in wave mechanics. — J. v. NEUMANN: Ueber adjungierte Funktionaloperatoren. — A.-A. ALBERT: Algebras of degree  $2^e$  and pure Riemann matrices. — G.-A. MILLER: A few desirable modifications in the literature of group theory. — M. WARD: The linear form of numbers represented by a homogeneous polynomial in any number of variables. — W. L. G. WILLIAMS: A proof of a certain congruence. — G. D. BIRKHOFF: A set of postulates for plane geometry, based on scale and protractor. — A. CHURCH: A set of postulates for the foundation of logic. — C. N. REYNOLDS: Circuits upon polyhedra. — A. B. BROWN: Group invariants and torsion coefficients. — J. LEVITZKI: On normal products of algebras. — W. A. HURWITZ: Definition of a field by four postulates. — C. R. ADAMS: Note on multiple Dirichlet and multiple factorial series. — R. P. AGNEW: On deferred Cesaro means. — C. F. WORONOI: Extension of the notion of the limit of the sum of terms of an infinite series. — R. E. GILMAN: A remark on Nörlunds method of summation. — R. E. GILMAN: A class of functions continuous but not absolutely continuous. — R. L. JEFFERY: Relative summability. — E. J. McSHANE: On the semi-continuity of double integrals in the calculus of variations. — I. J. SCHOENBERG: Some applications of the calculus of variations to Riemannian geometry. — H. P. ROBERTSON: Groups of motions in spaces admitting absolute parallelism. — J. H. C. WHITEHEAD: On duality and intersection chains in combinatorial analysis situs. — S. LEFSCHETZ: On separable spaces. — J. W. ALEXANDER and L. W. COHEN: A classification of the homology groups of compact spaces. — J. v. NEUMANN: Ueber einen Satz von Herrn M. H. Stone. — Id.: Einige Sätze über messbare Abbildungen. — Id.: Zur Operatorenmethode in der klassischen Mechanik. — M. H. STONE: On one-parameter unitary groups in Hilbert space. — G. A. PARKINSON: Pairs of curves in an  $S_n$ . — E. F. BECKENBACH: The area and boundary of minimal surfaces. — L. P. EISENHART: Equivalent continuous groups. — S. S. CAIRNS: On the cellular subdivision of  $n$ -dimensional regions. — J. H. C. WHITEHEAD: Locally homogeneous spaces in differential geometry. — H. WHITNEY: The coloring of graphs. — G. A. HEDLUNG: Geodesics on a two-dimensional Riemannian manifold with periodic coefficients. — W. F. OSGOOD: On the singular points in the problem of inversion. L. M. GRAVES: On the Weierstrass condition for the problem of Bolza in the calculus of variations. — J. L. DOOB: On a theorem of Gross and Iversen. — L. S. BOSANQUET: On the summability of power series. — B. N. PRASAD: Non-summability of the conjugate series of a Fourier series. — A. F. MOURSUND: On a method of summation of Fourier series. — F. BOHNENBLUST and E. HILLE: Remarks on a problem of Toeplitz. — N. WIENER: A note on Tauberian theorems. — G. D. BIRKHOFF: Note on a preceding paper. — J. v. NEUMANN: Zusätze zur Arbeit « Zur Operatorenmethode ».

**Commentarii Mathematici Helvetici.** Vol. 4, 1932. — S. BAYS: Sur les systèmes cycliques de triples de Steiner différents pour  $N$  premier de la forme  $6n + W$ . — V. BERNSTEIN: Sur l'ultra-convergence d'une classe de Dirichlet. — L. BIEBERBACH: Eine singularitätenfreie Fläche konstanter negativer Krümmung im Hilbertschen Raum. — H. BOHR: Ueber fast-periodische ebene Bewegungen. — E. CARTAN: Sur le groupe de la géométrie hypersphérique. — G. DUMAS: Sur la réductibilité des surfaces analytiques au voisinage d'un point donné. — S. DUMAS: Sur la définition de la probabilité. — A. EMCH: Geometrische Anwendungen der binären  $(n, n)$  — Verwandtschaft. — R. FUETER: Analytische Funktionen einer Quaternionenvariablen. — M. GUT: Ueber die Primidealzerlegung in gewissen relativ-ikosaedrischen Zahlkörpern. — G. JULIA: Sur la représentation conforme des aires triplement connexes. — G. JUVET: Sur quelques solutions des équations cosmologiques de la gravitation. — L. KOLLROS: Suites récurrentes de cercles et de sphères. — Ch. MOSER: Zwei komplementäre Masszahlen der Versicherungsmathematik. — G. DE RHAM: Sur la théorie des intersections et les intégrales multiples. — W. SAXER: Ueber die normalen Scharen meromorpher Funktionen mehrerer Variablen. — F. SEVERI: La serie canonica e la teoria delle serie principali di gruppi di punti sopra una superficie algebrica. — A. SPEISER: Ueber beschränkte automorphe Funktionen. — G. TIERCY: Quelques remarques sur le problème des comètes. — H. S. VANDIVER: On the Method of Infinite Descent in connection with Fermat's Last Theorem for Regular Prime Exponents. — R. WAVRE: Essai sur les petites vibrations des astres fluides.

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**Proceedings of the London Mathematical Society.** Series 2, Vol. 33. — H. W. TURNBULL: The invariant Theory of a general bilinear Form. — H. A. HAYDEN: Asymptotic Lines in a  $V_n$  in a  $V_n$ . — R. M. GABRIEL:

The Rearrangement of positive Fourier Coefficients. — W. L. EDGE: On the quartic developable. — H. S. RUSE: Normal covariant Derivatives. — H. FRAZER: On some Inequalities in the Theory of Functions. — G. PÓLYA: On polar singularities of power series and of Dirichlet series. — A. BLOCH and G. PÓLYA: On the roots of certain algebraic equations. — L. ROTH: On plane-forms in four dimensions. — E. T. COPSON: The operational calculus and the evaluation of Kapteyn integrals. — W. N. BAILEY: An extension of Miessel's expansions in Kapteyn series, and some similar expansions. — L. M. MILNE-THOMSON: Ten-figure table of the complete elliptic integrals  $K$ ,  $K'$ ,  $E$ ,  $E'$ , and a table of  $1/\mathfrak{S}_3^2$ . — P. MILNE: A special type of quintic symmetroid. — V. C. MORTON and D. S. MEYLER: Quadrics and quadric cones of a set of three associated Steiner trihedral pairs. — M. HANNA: On the condition that a certain integral may be rational. — R. A. FISHER and J. WISHART: The derivation of the pattern formulae of two-way partitions from those of simpler patterns. — M. L. CARTWRIGHT: On integral functions of integral order. — G. H. HARDY and E. C. TITCHMARSH: Formulae connecting different classes of self-reciprocal functions. — A. T. PRICE: Electromagnetic induction in a uniform permeable conducting sphere. — S. GOLDSTEIN: A Note on certain approximate solutions of linear differential equations of the second order, II. — P. J. HEAWOOD: On extended congruences connected with the four-colour map theorem. — S. VERBLUNSKY: On some classes of Fourier series. — J. Q. TODD: Some important doubly infinite line systems in higher space. — K. A. HIRST: On the second Theorem of consistency in the theory of summation by typical means. — T. G. ROOM: Configurations of spaces which osculate normal rational curves. — S. VERBLUNSKY: The Cesaro summation of trigonometric series. — S. VERBLUNSKY: Note on the integration of trigonometric series. — R. PALMER AGNEW: On double orthogonal series. — E. G. C. POOLE: Spherical harmonics having polyhedral symmetry. — H. D. URSELL: On the convergence almost everywhere of Rademacher's series and of the Bochner-Fejer sums of a function almost periodic in the sense of Stepanoff. — A. C. OFFORD: On the summability of power series. — Part 7. — H. P. MULHOLLAND: The generalization of certain inequality theorems involving powers. — R. WILSON: Eliminants of characteristic equations. — C. M. RIGBY: The electric field of a sphere lying between two infinite conducting planes. — O. L. DAVIED: Notes on normal division algebras. — D. P. DALZELL: Theory of the theta-Fuchsian functions.

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