tation appears to be the factor determining host reaction.

The only valuable taxonomic criteria which have presented themselves for use in separating various species of Cercospora are physiological behavior on artificial media and extent of parasitism.

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THE AMERICAN MATHEMATICAL SOCIETY

THE twentieth western meeting of the American Mathematical Society was held at the University of Cincinnati on Friday and Saturday, December 28 and 29, in conjunction with the seventy-fifth meeting of the American Association for the Advancement of Science. The total attendance at these meetings was about 100, among whom were 78 members of the society.

On Friday afternoon, December 28, there was a joint session with Section A of the American Association for the Advancement of Science and the Mathematical Association of America, under the chairmanship of Professor Harris Hancock, Chairman of Section A. The program of this session consisted of the following papers:

American mathematics during three quarters of a century: G. A. MILLER, Retiring Chairman of Section A.

On the equation of the eighth degree: A. B. COBLE, Retiring Chairman of the Chicago Section of the Society.

Arithmetics and their algebras: L. E. DICKSON.

The sessions of Friday forenoon, Saturday forenoon and afternoon were presided over by Professor Oswald Veblen, president of the American Mathematical Society, relieved by Professors R. L. Moore, A. B. Coble and R. C. Archibald. The following papers were read at these meetings:

Theory of construction of group generators as substitutions: W. E. EDINGTON.

On the summability of the triple Fourier's series at points of discontinuity of the function involved: BESS M. EVERSULL.

On a general theorem regarding divergent series, and its application to the double Fourier's series: GAYLORD M. MERRIMAN.

On necessary and sufficient conditions for convergence factors in double series: CHARLES N. MOORE.

Note on the map coloring problem: C. N. REYNOLDS, JR.

Concerning the prime parts of a continuum which separates its plane: R. L. MOORE.

Integral solutions of the Diophantine equations $\xi_1^2 + \xi_2^2 + \cdots + \xi_n^2 = \eta_1^2 + \eta_2^2 + \cdots + \eta_n^2$ *in the quadratic realm of rationality:* WM. KRAUPNER.

On algebraic equations whose roots are trigonometric functions: HARRIS HANCOCK.

Properties of abstract sets implied by properties of the class of all continuous functions: E. W. CHITTENDEN.

The classification of linear families of conics in various domains: ALAN D. CAMPBELL.

The isoperimetric problem with variable end points: MARY E. SINCLAIR.

The hanging chain with end points variable on curves in a plane: MARY E. SINCLAIR.

Covariants of differential forms of arbitrary order and degree: C. C. MACDUFFEE.

Number of cycles of the same order in any substitution group: G. A. MILLER.

Note on linear differential equations with constant coefficients: I. A. BARNETT.

Deflection of a rectangular plate clamped at its edges: H. W. MARCH.

A generalization of the Dirichlet problem: NORBERT WIENER.

On Brouwer's contributions to the foundations of mathematics: ARNOLD DRESDEN.

On the application of the theory of ideals to Diophantine equations: G. E. WAHLIN.

J. H. Rahn's mathematical symbols: FLORIAN CAJORI.

A generalized problem in weighted approximation: DUNHAM JACKSON.

On the zeros of polynomials: E. B. VAN VLECK.

On the Weddle surface and analogous loci: ARNOLD EMCH.

Note on Dirichlet and factorial series: TOMLINSON FORT.

On the dispersion sets of a connected point set: R. L. WILDER.

The theory of closure of Tchebychef's polynomials for an infinite interval: J. A. SHOHAT.

On curves whose first polars contain a pencil of lines: CHAS. H. SISAM.

Integral equations as differential equations of infinite order: H. T. DAVIS.

On the theory of numbers and generalized quaternions: L. E. DICKSON.

Quadratic fields in which factorization is always unique: L. E. DICKSON.

Geometric interpretation of the expression of an algebraic form as a determinant: A. B. COBLE.

Sets of three consecutive integers which are quadratic or cubic residues of primes: H. S. VANDIVER.

On Kummer's Memoir of 1857 concerning Fermat's last theorem: H. S. VANDIVER.

Necessary and sufficient conditions for the existence of a class of Stieltjes integrals: H. L. SMITH.

On polyhedra in Euclidean n-space: S. LEFSCHETZ.

An extension of the theorem that no perfect set is countable: R. L. MOORE.

Note on the integral theorems of vector analysis: LOUIS BRAND.

The Kurschak field of complex numbers: I. M. SCHOTTENFELS.

The error in Hartog's proof of the Zermelo theorem: I. M. SCHOTTENFELS.

ARNOLD DRESDEN,
Assistant Secretary