

THE NEW ERA PRINTING COMPANY

LANCASTER, PA.

is prepared to execute in first-class and satisfactory manner all kinds of printing and electrotyping. Particular attention given to the work of Schools, Colleges, Universities, and Public Institutions.

Books, Periodicals

Technical and Scientific Publications

Monographs, Theses, Catalogues

Announcements, Reports, etc.

All Kinds of Commercial Work

Printers of the Bulletin and Transactions of the American Mathematical Society, etc., etc.)

Publishers will find our product ranking with the best in workmanship and material, at satisfactory prices. Our imprint may be found on a number of high-class Technical and Scientific Books and Periodicals. Correspondence solicited. Estimates furnished.

THE NEW ERA PRINTING COMPANY

Whole No. 201

CONTENTS

	PAGE
The Published and Unpublished Work of Charles Sturm on Algebraic and Differential Equations. Presidential Address. By Professor MAXIME BÔCHER - -	1
A Senuous Representation of Paths that Lead from the Inside to the Outside of an Ordinary Sphere in Point Space of Four Dimensions without Penetrating the Surface of the Sphere. By Professor C. J. KEYSER	18
A Direct Proof of the Theorem that the Number of Terms in the Expansion of an Infinite Determinant is of the Same Potency as the Continuum. By Dr. N. J. LENNES	22
Shorter Notices - - - - -	24
Correction - - - - -	33
Notes - - - - -	34
New Publications - - - - -	43

Changes of address of members, exchanges, and subscribers should be communicated at once to the Secretary of the American Mathematical Society, 501 West 116th Street, New York.

Subscriptions to the BULLETIN, orders for back numbers, and inquiries in regard to non-delivery of current numbers should be addressed to The American Mathematical Society, 41 North Queen St., Lancaster, Pa., or 501 West 116th Street, New York.

The initiation fees and annual dues of members of the American Mathematical Society are payable to the Treasurer of the American Mathematical Society, Professor J. H. Tanner, Cornell Heights, Ithaca, N. Y.

Articles for insertion in the BULLETIN should be addressed to the
BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY,
501 West 116th Street, New York City.

The following dates have been fixed for the meetings of the Society :

	A. M.		A. M.
Sat., Oct. 28,	1911, 11:00	Sat., Feb. 24,	1912, 11:00
W.-Th., Dec. 27-28,	“ “	Sat., Apr. 28,	“ “

The Twentieth Regular Meeting of the San Francisco Section will be held at the University of California, on Saturday October 28, 1911.