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FRATTINI : Sur le mouvement avec ou sans déformation.

GALLUCCI : Le formalisme et la critique dans les fondements des mathématiques.

GALLUCCI : Sur les postulats de l'égalité et de l'équivalence.

BIASI : Coordonnées homogènes du 2^{me} degré.

DE AMICIS : Sur l'équivalence des parallélogrammes équilatéraux et équiangles.

Les comptes-rendus des séances, les relations sur les trois thèmes et les abrégés des communications seront imprimés par les soins de l'Association « Mathesis ».

Rodolphe BETTAZZI (Turin).

NOTES ET DOCUMENTS

Cours universitaires.

Semestre d'hiver 1903-1904 (FIN).

ÉTATS-UNIS D'AMÉRIQUE

University of California. — By Professor I. STRINGHAM : Logic of mathematics, two hours; Analytic non-euclidean geometry of space, two hours. — By Professor G. C. EDWARDS : Ordinary differential equations. — By Professor M. W. HASKELL : Theory of functions of a complex variable. — By Mr. A. W. WHITNEY : Theory of probabilities. — By Dr. D. N. LEHMER : Synthetic projective geometry. — By Dr. E. M. BLAKE : Line geometry. — By Dr. T. M. PUTNAM : Theory of numbers, three hours; Mathematical seminar, foundations of dynamics.

Columbia University. — By Professor T. S. FISKE : Advanced calculus, three hours; Theory of functions of a complex variable, three hours. — By Professor F. N. COLE : Theory of groups, three hours; Theory of Invariants, three hours. — By Professor R. S. WOODWARD : Advanced theoretical mechanics, two hours; Theory of the potential function, two hours; Mathematical theory of elasticity, two hours. — By Professor D. E. SMITH : History of mathematics, two hours. — By Professor J. MACLAY : Application of the calculus to surfaces and curves in space, three hours. — By Professor C. J. KEYSER : Modern theories in geometry, three hours. —

By Dr. G. H. LING: Infinite series and products, two hours. —
By Dr. E. KASNER: Transformations and continuous groups, two
hours.

The University of Chicago. — The following advanced mathe-
matical courses, four hours weekly, are offered during the four
quarters (su, a, w, sp) of the year beginning June 17, 1903. —
By Professor E. H. MOORE: Theory of functions of real variables
(su); Seminar (a, w, sp). — By Professor O. BOLZA: Theory of
equations (a, w); Quaternions (sp); Elliptic functions, the Weiers-
trass theory (a); Applications of elliptic functions (su); Abelian
functions (w, sp); Invariants (su). — By Professor H. MASCHKE:
Solid analytics (sp); Twisted curves and surfaces (w, sp); Inva-
riants (w). — By Professor H. E. SLAUGHT: Advanced integral cal-
culus (aw). — By Professor J. W. H. YOUNG: Solid analytics and
determinants (su); conferences on the pedagogy of mathematics
(su). — By Professor L. E. DICKSON: Theory of functions of a
complex variable (su); Theory of functions (a, w). — By Mr. A. C.
LUNN: The differential equations of mathematical physics (su, sp);
Graphic methods in the teaching of elementary mathematics (su).
— By Dr. S. EPSTEEN: History of elementary mathematics (su, two
hours). — By Professor K. LAVES: Analytic mechanics (a, w). —
By Professor F. R. MOULTON: Introduction to celestial mechanics
(w, sp); Selected chapters of celestial mechanics (su).

Cornell University. — By Professor L. A. WAIT: Advanced ana-
lytic geometry (plane and solid), three hours; Advanced differential
calculus, three hours; — By Professor G. W. JONES; Higher alge-
bra and trigonometry, three hours. — By Professor J. McMAHON:
Higher plane curves, Two hours; Potential function, two hours;
Quaternions, two hours; Theoretical mechanics, Two hours;
Mathematical Theory of sound. — By Professor J. H. TANNER:
Theory of equations, Two hours; Invariants, two hours. — By
Professor J. I. HUTCHINSON: Theory of functions, two hours; Ellip-
tic and Abelian functions, two hours; Projective geometry, three
hours. — By Professor V. SNYDER: Advanced integral calculus,
two hours; Line geometry, three hours. — By Dr. W. B. FITE:
Differential equations, two hours; Theory of groups, three hours.

Harvard University. — By Professor J. M. PEIRCE: Quaternions;
Theory and applications of tetrahedral coordinates; *The algebra
of logic; *Finite differences; *The calculus of probabilities;
*Linear associative algebra. — By Professors W. E. BYERLY and
B. O. PEIRCE; Trigonometric Series, spherical harmonics, and
the potential function. — By Professor W. E. Byerly; Calculus
(second course); Introduction to modern geometry and modern
algebra; *Dynamics of a rigid body. — By Professor W. F. OSGOOD:

The theory of functions (first course). — By Professor M. BOCHER: *Infinite series and products; Algebra; *Linear differential equations. — By Dr. C. L. BOUTON: *The theory of numbers; *The elementary theory of differential equations; *Geometric transformations. — By Mr. J. K. WHITTEMORE: Celestial Mechanics; *Hydro-mechanics.

These courses will involve three lectures a week throughout the year, except those preceded by a*, which involve about half this number of lectures. Professor BOCHER, Dr. BOUTON, and Mr. WHITTEMORE also offer courses in reading and research in Differential equations, Continuous groups, and Differential geometry respectively.

Johns Hopkins University. — By Professor F. MORLEY: Higher geometry, three hours; Vector analysis, two hours, first half year; Kinematics, two hours, second half year. — By Dr. A. COHEN: Partial differential equations, two hours; Differential geometry, two hours, first half-year; Theory of numbers, two hours, second half-year; Elementary theory of functions, two hours.

University of Michigan. — By Professor W. W. BEMAN: Advanced differential and integral calculus, two hours; Teachers seminary, algebra and geometry, two hours; Solid analytic geometry, two hours, first half-year; Differential equations, three hours, first half-year; Quaternions, two hours, second half-year; Higher plane curves, two hours, second half-year; Linear differential equations, two hours, second half-year. — By Professor A. ZIWET: Theory of the potential, three hours, first half-year; Advanced mechanics, three hours, second half-year; Projective geometry, three hours, first half year; Modern analytic geometry, homogeneous coördinates and projective properties of conics, three hours, second half-year. — By Professor J. L. MARKLEY: Theory of functions of a real variable, three hours, first half-year; Theory of functions of a complex variable, three hours; second half-year. — By Professor J. W. GLOVER: Higher algebra, three hours; Theory of annuities and insurance, two hours. — By Mr. E. B. ESCOTT: Theory of numbers, two hours, second half-year.

Stanford University. — By Professor R. E. ALLARDICE: Invariants, two hours, first semester; Definite integrals, two hours, second semester; Geometry of three dimensions, two hours; Theory of functions, three hours. — By Professor R. L. GREEN: Advanced coördinate geometry, two hours; Theory of equations, three hours. — By Professor L. M. HOSKINS: Theory of attraction and the potential function, two hours. — By Professor G. A. MILLER: Elementary theory of groups, three hours; Theory of numbers, two hours, second semester; History of mathematics, two hours,

first semester; Seminar in the theory of groups, two hours. — By Professor H. F. BLICHFELDT: Determinants, two hours, first semester; Non-euclidean geometry, two hours, second semester; Differential equations, three hours.

Northwestern University. — *First semester.* — By Professor T. F. HOLGATE: Linear systems of conics, two hours. — By Professor H. S. WHITE: Theory of functions, two hours; Plane cubics and quartics, three hours. — *Second semester.* — By Professor T. F. HOLGATE: Theory of numbers, two hours. — By Professor H. S. WHITE: Elliptic functions, three hours; Projective geometry of surface and twisted curves, two hours.

Yale University. — By professor James PIERPONT: Advanced calculus, three hours; Projective geometry, three hours; Theory of functions of real variables, three hours. — By Professor P. F. SMITH: Continuous groups, three hours; Higher analysis for engineers, two hours, first semester. — By Professor H. A. BUMSTEAD: Problems in mathematical physics, two hours. — By Dr. A. S. GALE: Differential equations and function theory, three hours. — By Dr. H. E. HAWKES: Higher algebra, two hours; Elliptic functions, three hours. — By Dr. W. A. GRANVILLE: Differential geometry, two hours. — By Dr. E. B. WILSON: Analytic mechanics, two hours; Introduction to mathematical physics, two hours; Non-euclidean geometry, two hours.

FRANCE

Paris. Collège de France. — Mécanique analytique et mécanique céleste. M. HADAMARD: Equations de l'Elasticité. Les mercredis et samedis à 3 h. $\frac{3}{4}$. — Mathématiques. M. JORDAN: De la construction des groupes résolubles. Les jeudis et samedis à midi $\frac{3}{4}$. — Physique générale et mathématique. M. BRILLOUX: 1) De la Constante de la gravitation universelle et la Pesanteur. Les samedis à 5 h.; 2) De la Théorie électro-magnétique de la lumière et les Ions. Les mercredis à 5 h. — Mathématiques. (Fondation Claude-Antoine Peccot). M. BAIRE: Rapports entre les notions de continuité et de discontinuité dans quelques questions d'Analyse. Les lundis, mercredis et vendredis à 2 h. $\frac{1}{2}$ (à partir du 4 janvier 1904).

Renseignements universitaires.

Inscription ou immatriculation des Etudiants étrangers à la Faculté des Sciences de Paris. — *Licence ès sciences.* — Les Etudiants étrangers qui désirent être admis à la Faculté en vue de préparer la licence ès sciences, doivent