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ÉTATS-UNIS D'AMÉRIQUE

Cours annoncés pour l'année universitaire 1908-1909.

Columbia University (New-York). — Prof. P.-S. FISKE : Advanced calculus; Introduction to the theory of functions of a real variable, 3; Functions defined by linear differential equations, 3. — Prof. F.-N. COLE : Introduction to the theory of functions, 3; Theory of plane curves, 3. — Prof. James MACLAY : Elliptic functions, 3; Application of the calculus to the theory of surfaces and curves in space, 3. — Prof. D. E. SMITH : History of mathematics, 2. — Prof. C.-J. KEYSER : The principles of mathematics, 3; Modern theories in geometry, 3. — Prof. H.-B. MITCHELL : Differential equations, 2; Geometrical analysis, 3. — Prof. Edward KASNER : Geometry of dynamical systems, 2. — Dr. G.-H. LING : Theory of numbers, 3; first half year; Advanced theory of numbers, 3; second half year.

Cornell University (Jthaca, New-York). — Prof. McMAHON : Hydrodynamics, 2; Electricity, 2. — Prof. J. I. HUTCHINSON : Theory of functions of a complex variable, 3. — Prof. V. SNYDER : Higher geometry, 3. — Prof. W. B. FITE : Theory of groups, 3. — Dr. F. R. SHARPE : Theory of potential and Fourier's series, 3; Elliptic functions, 2 (first half year, I). — Dr. W. B. CARVER : Projective geometry, 3. — Dr. A. RANUM : Differential equations, 2; Higher algebra, 2. — Dr. D. C. GILLESPIE : Advanced calculus, 3; Integral equations, 2 (II). — Dr. C. F. CRAIG : Advanced analytic geometry, 3; Partial differential equations, 2 (I). — Dr. F. W. OWENS : Solid analytic geometry, 2; The Oliver mathematical club will meet weekly.

Harvard University (Cambridge, Mass.) — Prof. W. E. BYERLY : Introduction to the modern geometry and modern algebra, 3; Trigonometric series (with Prof. Peirce), 3. — Prof. B. O. PEIRCE : Methods in mathematical physics, Elasticity, 2. — Prof. W. F. OSGOOD : Differential and integral calculus (second course), 3; Infinite series and products (first half year), 3; Galois's theory of equations (second half year), 3; Theory of functions (advanced cours). — Prof. M. BÔCHER : Theory of functions (introductory course), 3; The linear differential equations of physics, 3. — Prof. C. L. BOUTON : Hydromechanics (second half year), 3; Differential equations, Lie's theory of continuous groups, 3. — Prof. J. K. WHITTEMORE : Elements of mechanics, 3; Differential geometry of curves and surfaces (first half year), 3. — Prof. E. V. HUNTINGTON : The fundamental concepts of mathematics, 3. — Dr. J. L. COOLIDGE : Line geometry (first half year), 3. — Dr. H. N. DAVIS : Dynamics of a rigid body, 3.

Courses of reading and research ore offered by Professors, BYERLY, OSGOOD, BÔCHER, BOUTON, and WHITTEMORE; and a seminary in geometry will be conducted by Prof. BOUTON, Prof. WHITTEMORE, and Dr. COOLIDGE during the second half year.

Indiana University (Bloomington). — Prof. R. J. ALEY : Advanced calculus, 3 (a, w, s); Higher algebra, 2 (a, w); Algebra of quantics, 3 (s). — Prof. S. C. DAVISSON : Ordinary differential equations, 3 (a, w), Functions of a complex variable, 3 (s); Fourier's series and integrals 3 (a); Modern analytic geometry, 2 (w, s). — Prof. D. A. ROTHROCK : Quaternion, 3 (a); Partial differential equations, 3 (w, s). — Prof. U. S. HANNA : Elliptic inte-

grals and functions, 2 (a, w); Infinite series and products 3 (s). — Dr. C. HASEMAN: Mathematical theory of elasticity, 3 (a, w); Theory of potential, 3 (s). — [a, w, s , above indicate autumn, winter, and spring terms.]

Yale University (New-Haven, Conn.). — Prof. J. PIERPONT: Introduction to the theory of functions, 2; Projective geometry, 2; Advanced mechanics, 2; Advanced theory of functions, 2. — Prof. P. F. SMITH: Advanced analytic geometry, 2; Continuous groups of transformations, 2. — Prof. E. W. BROWN: Mechanics, 2; Advanced calculus, 3; Celestial mechanics, 2. — Prof. H. E. HAWKES: Algebra and analytic geometry, 2; Theory of equations, 2. — Prof. M. MASON: Linear differential equations, 2; Calculus of variations, 1. — Dr. L. J. HEWES: Differential equations, 1; Graphical and numerical computation, 1. — Dr. W. A. GRANVILLE: Differential geometry, 2.

Princeton University. — (All courses are three hours a week. The Roman numerals refer to the first (I) and second (II) term. — Prof. H. B. FINE: Theory of algebraic functions, I. — Prof. H. D. THOMPSON: Historical readings in infinitesimal geometry, I. — Prof. G. A. BLISS: Linear differential equations, I; Partial differential equations, II. — Prof. L. P. EISENHART: Differential geometry, I, II. — Prof. W. GILLESPIE: Theory of substitutions, I; Theory of invariants, II. — Prof. O. VELEN: Projective geometry, I, II. Prof. J. W. YOUNG: Theory of functions of a complex variable, I, II; Theory of numbers, I. — Prof. BLISS or VELEN: Theory of functions of a real variable, I, II. — Dr. J. G. HUN: Analytic projective geometry, I, II. — Dr. C. R. MACINNES: Elliptic functions, II. — Dr. R. L. MOORE: Foundations of geometry, II. — Dr. C. E. STROMQUIST: Calculus of variations, II. — Dr. E. SWIFT: Theory of capillarity, II.

ITALIE ¹

Année universitaire 1908-1909.

Bologna; Università. — ARZELA: Principio di Dirichlet; calcolo delle variazioni, 3. — DONATI: Teoria dell'elasticità; ottica, 3. — PINCHERLE: Funzioni algebriche e loro integrali; funzioni ellittiche; funzioni analitiche rappresentate da integrali definiti, 3.

Catania; Università. — DE FRANCHIS: Geometria sopra le curve algebriche, superficie di Riemann ed integrali abeliani, problema di inversione, $4\frac{1}{2}$. — LAURICELLA: Ottica, $4\frac{1}{2}$. — PENNACCHIETTI: Funzioni ellittiche e loro applicazioni alla meccanica, $4\frac{1}{2}$. — SEVERINI: Applicazione della teoria dei gruppi continui finiti alle equazioni differenziali; estensione della teoria di Galois secondo Picard e Vessiot, $4\frac{1}{2}$.

Genova; Università. — FUBINI: Introduzione alla teoria dei gruppi discontinui e delle funzioni automorfe, 3. — LORIA: Geometria infinitesimale, 3. — TEDONE: Teoria dei fenomeni elettrici e magnetici secondo le idee di Maxwell, 3.

Messina; Università. — BAGNERA: Equazioni a derivate parziali di secondo ordine, 3. — BOGGIO: Equazioni integrali e loro applicazioni alla fisica mate-

¹ Les cours généraux (tels que ceux d'Algèbre, Géométrie analytique, Géométrie descriptive, Calcul infinitésimal, Mécanique rationnelle) ne sont pas indiqués dans la liste.