ÉTATS-UNIS D'AMÉRIQUE

Cours universitaires.

Semestre d'hiver 1914-1915.

ÉTATS-UNIS D'AMÉRIQUE

Columbia University (New-York). — C. J. KEYSER : Philosophie of Mathematics, 3. — Prof. T. S. FISKE : Theory of point sets, 3, second half-year. — Prof. F. N. COLE : Algebra, 4. — Prof. James MACKLAY : Theory of functions, 4. — Prof. Edw. KASNER : Integral equations, 2, second half-year ; seminar in Differential Geometry, 2. — Prof. W. B. FITE : Calculus of variation, 3, first half-year. — Prof. H. E. HAWKES : Diff. Geometry of curves, 3, first half-year. — Prof. C. GROVE : Mathem. Theory of Statistics, 3, first half-year.

Cornell University (Ithaca). — Prof. J. Mc MAHON : Theory of probabilities. 3. — Prof. J. I. HUTCHINSON : Elliptic functions, 2. — Prof. V. SNYDER : Descriptive geometry (first term), 3 ; Algebra (second term), 3. — Prof. F. R. SHARPE : Fourier series and spherical harmonics, 3. — Prof. W. B. CARVER . Analytic and projective geometry, 3. — Prof. A. RANUM : Line geometry (first term), 2. — Prof. D. C. GILLEPSIE : Calculus of variations, 2. — Dr F. W. OWENS : Mechanics, 3. — Dr J. V. Mc KELVEY : Advanced calculus, 3. — Dr L. L. SILVERMAN : Infinite series (first term), 3. — Dr W. A. HURWITZ : Partial differential equations of mathematical physics, 2. — Dr R. W. BURGESS : Differential equations, 2.

Harvard University (Cambridge, Mass.). — All courses meet three times a week throughout the year except those marked*, which meet for half a year. — Prof. W. F. OSGOOD : Infinite series and products* ; Introduction to potential functions and Laplace's equation * ; Galois theory of equations. *— Prof. M. BÔCHER : Analytic theory of heat : Fourier series and Legendre polynomials * ; Linear differential and integral equations. — Prof. C. L. BOUTON : Advanced calculus ; Elementary differential equations* ; Geometrical transformations, with special reference to the work of Sophus Lie. — Prof. J. L. COOLIDGE : Geometry of the circle ; Introduction to modern geometry and modern algebra (with Dr GREEN). — Prof. E. V. HUNTINGTON : Fundamental concepts of mathematics *. — Prof. G. D. BIRKHOFF : Advanced dynamics ; Calculus of variations *. — Dr D. JACKSON : Theory of functions ; Definite integrals *. — Dr G. M. GREEN : Differential geometry of curves and surfaces * ; Projective differential geometry *.

Professors Bouton and Birkhoff will conduct a fortnightly seminar in analysis.

Courses of research are also offered by Professor Osgood in the theory of functions ; by Professor Bôcher in analysis and algebra ; by Professor Bouton in the theory of point transformations ; by Professor Coolidge in geometry ; by Professor Birkhoff in the theory of differential equations ; by Dr Jackson in the theory of functions of real variables.

Johns Hopkins University (Baltimore). — Prof. F. MORLEY : Higher geometry, 3. — Prof. A. B. COBLE : Modular functions, 2 ; Theory of proba-

bility, 2, second half-year. — Dr A. Cohen : Calculus of variations, 2. — Dr H. Bateman : Differential equations of physics, 2.

University of Illinois (Urbana, Ill.). — Prof. E. J. Townsend : Functions of a complex variable, 3 ; Ordinary and partial differential equations and advanced calculus, 3. — Prof. G. A. Miller : Elementary groups, 3 ; Theory of equations and determinants, 3, second semester. — Prof. H. L. Rietz : Actuarial theory, 3, first semester ; Averages and the mathematics of investment, 3, second semester. — Prof. R. M. Fréchet : General analysis, (*a*) abstract sets, two hours ; (*b*) functional operations, 2. — Prof. C. H. Sisam : Algebraic surfaces, 3 ; Solid analytic geometry, 3, second semester.- Prof. J. B. Shaw : General algebra, 3. — Prof. A. Emch : Projective geometry, 3. — Dr A. R. Crathorne : Calculus of variations, 3. — Dr R. L. Borger : Modern algebra, 3. — Dr E. B. Lytle : History of mathematics, 2, second semester ; Teacher's course, 2, first semester.

Princeton University (Princeton, N. J.). — Prof. H. B. Fine : Algebra, 3. — Prof. L. P. Eisenhart : Differential geometry, 3 ; Mechanics, 3.— Prof. O. Veblen : Projective geometry, I, 3 ; Projective geometry, II, 3. — Prof. Boutroux : Differential equations and advanced calculus, three hours ; Higher analysis, 3. — Prof. H. T. Gronwall : Integral equations, 3. — Prof. E. P. Adams : Hydrodynamics, 3.

ITALIE[1]

Bologna. — *Università*. — Burgatti : Teoria dell' elasticità ; in particolare teoria delle vibrazioni elastiche, 3. — Donati : Elettrodinamica dei corpi in movimento. Termodinamica ; teoria della radiazione ; ipotesi dei quanti ; sua portata e sue applicazioni, 3. — Enriques : Teoria delle curve e superficie algebriche, 3. — Pincherle : Funzioni ellittiche. Equazioni integrali-esistemi di equazioni lineari ad infinite incognite.

Catania. — *Università*. — Daniele : Equilibrio dei corpi elastici, 4. — De Franchis : Geometria sulle superficie algebriche secondo l'indirizzo trascendente, 4. — Pennacchietti : Idrodinamica, 4. — Severini : Teoria delle funzioni analitiche ; teoria delle funzioni permutabili, 4.

Genova. — *Università*. — Levi : Calcolo delle variazioni, 4. — Loria : Applicazioni geometriche delle funzioni ellittiche, 3. — Tedone : Ottica geometrica e fisica, 3.

Napoli. — *Università*. — Amodeo : Storia delle scienze matematiche nell' evoantico, 3. — Del Re : Analisi di Grassmann ad n dimensioni con applicazioni alla meccanica degli spazi a curvatura costante, 4 1/2. — Marcolongo : Equazioni della dinamica. Soluzioni periodiche ; soluzioni asintotiche. Problema ristretto dei tre corpi, 3. — Montesano : Teoria delle superficie algebriche e dei loro sistemi lineari. Teoria delle trasformazioni birazionali dello spazio, 3. — Pascal : Le funzioni di linee e il calcolo delle variazioni, 3. — Pinto : Termodinamica, 3. — Torelli : Complementi della

[1] Les cours fondamentaux (analyse algébrique et infinitésimale, géométrie analytique, projective, descriptive, mécanique rationnelle), existant dans toute Université, ne figurent pas dans la liste.