

NOTES

The third number of volume 23 of the TRANSACTIONS OF THIS SOCIETY (April, 1922) contains the following papers: *Some generalizations of geodesics*, by E. J. Wilczynski; *On the gyroscope*, by W. F. Osgood; *The relative distribution of the real roots of a system of polynomials*, by C. F. Gummer; *A general theory of conjugate nets*, by E. P. Lane; *Parallel maps of surfaces*, by W. C. Graustein.

The Alfred Ackermann-Teubner prize of the University of Leipzig has been awarded to Professor Paul Koebe, for his three memoirs *Über die Uniformisierung der algebraischen Kurven*, published in volumes 67, 69, and 72 of the MATHEMATISCHE ANNALEN.

The Lasserre prize has been awarded by the minister of instruction of France to Professor Paul Langevin, of the Collège de France.

At Cambridge University, the Adams prize for this year has been awarded to Professor J. Proudman, of the University of Liverpool; the subject was *Tidal theory*. The subject announced for this prize for the period 1923-1924 is *The physical state of matter at high temperatures*. Smith's prizes have been awarded to Mr. J. C. Burkill, Trinity College, for an essay on *Functions of intervals and the problem of area*, and to Mr. A. E. Ingham, Trinity College, for an essay on *Mean value theorems in the theory of the Riemann zeta-function*. Rayleigh prizes have been awarded to Mr. E. F. Collingwood, Trinity College, for an essay on *The formal factorization of an integral function of finite integral order*, to Mr. W. R. Dean, Trinity College, for an essay on *The elastic stability of a plane plate*, to Mr. E. C. Francis, Peterhouse, for an essay on *The Denjoy-Stieltjes integral*, to Mr. C. G. F. James, Trinity College, for an essay on *The analytical representation of systems of space curves*, and to Mr. M. H. A. Newman, St. John's College, for an essay *On discontinuities of functions of a single real variable*.

Professor William Cain, of the University of North Carolina, has been awarded the J. James R. Croes medal of the American Society of Civil Engineers for his paper on *The circular arch under normal loads*.

Professor H. Ludendorff, of the Astrophysical Observatory at Potsdam has been elected member of the Berlin Academy of Sciences.

Professor Albert Einstein delivered a course of lectures at Madrid in March. On this occasion he was elected a member of the Madrid Academy of Science.

Professor Florian Cajori, of the University of California, has been elected Vice-president of Section L of the American Association for the Advancement of Science.

The following 19 doctorates with mathematics as major subject were conferred by American universities in the academic year 1921-1922; there is added in each case the month and year in which the degree was granted, the minor subject (or subjects) if outside of mathematics, and the title of