

NOTES

The Italian Society for the Progress of Science announces the following subjects for its Mussolini prize in the mathematics section: Finite thermoelastic determinations; Characteristics of differential systems; Waves of discontinuity, in particular, waves caused by shocks, and the theory of explosives. Competition is restricted to members of the Society and closes August 31, 1935.

The gold medal of the Royal Astronomical Society has been awarded to Professor E. A. Milne, Rouse Ball professor of mathematics at the University of Oxford, for his work on radiative equilibrium and the theory of stellar atmospheres.

Dr. Moritz v. Rohr, of the University of Jena, has been awarded a Leibniz medal for his work in geometrical optics.

Dr. Charles A. Kraus, professor of chemical research at Brown University, has been awarded the Willard Gibbs medal of the Chicago section of the American Chemical Society for 1935, for his research on the theory of solutions.

The following have been elected to membership in the Royal Society of London: E. N. da C. Andrade, Quain professor of physics, University of London; J. S. Foster, professor of physics, McGill University; and R. S. Stoneley, lecturer in mathematics, University of Cambridge.

The following ninety-four doctorates, with mathematics or mathematical physics as major subject, were conferred during 1934 in universities in the United States and Canada; the major subject is mathematics unless otherwise specified. The university, month in which the degree was conferred, minor subject (other than mathematics), and title of dissertation are given in each case if available.

E. B. Allen, Rensselaer Polytechnic Institute, June, minor in physics, *Extension of a theorem due to M. D'Ocagne to partial differential equations in n variables*.

A. E. Andersen, Harvard, June, *Topics in the theory of binary forms*.

Frances E. Baker, Chicago, March, *A contribution to the Waring problem for cubic functions*.

D. H. Ballou, Harvard, June, *A class of completely monotonic functions every positive power of which is also completely monotonic*.

J. L. Barnes, Princeton, June, *On the Laplace-Stieltjes transformation I*.

J. J. Barron, Wisconsin, June, *The application of asymptotic forms to an expansion problem of the Sturm-Liouville type where the coefficient of the parameter changes sign*.

Miriam F. Becker, Yale, June, *On relative fields*.

A. F. Bernhard, Michigan, June, *The mechanics of the top*.

Solomon Bilinsky, Washington University (St. Louis), June, minor in physics, *A theory of functions of an abstract variable*.