THE MATHEMATICS STUDENT

Edited by

M. VENKATARAMAN

with the assistance of

J. N. KAPUR    A. NARASINGARAO    V. S. VARADARAJAN
P. K. MENON    S. S. SHIRIKHANDE    K. VENKATACHALIENGAR
RAM BEHARI    T. P. SRINIVASAN    R. VENKATARAMAN

Vol. XXXII
1964

PUBLISHED BY THE INDIAN MATHEMATICAL SOCIETY
THE MATHEMATICS STUDENT
INDEX OF VOLUME XXXII (1964)

THE 28th CONFERENCE OF THE INDIAN MATHEMATICAL SOCIETY

Programme, 1
Report of the Conference, 4
Menon, P. Kesava. Symposium on Group Theory, 5
Huzurbazar, M.S. The multiplicative group of a division ring, 7
Rangaswamy, K.M. Extension theory of abelian groups, 11.
Varadhan, S.R.S. Limit theorems in probability, 17.
Paul, E.M. Density as probability, 23.
Sankaranarayanan, G. Theory of particle counters, 29.
Venkatarayudu, T. Group theory and nuclear spectroscopy, 39.
Gautam, N.D. Projective Limits, 45.
Mishra, R.S. Electro-geometro-dynamics in general relativity, 51.
Thron, W.J. Some results and problems in the analytic theory of continued fractions, 61.
Mardia, K.V. $J_0(z), J_0^2(z)$ In the form of infinite series, 75.
Mardia, K.V. A theorem in reciprocal relation of power series, 81.
Koshti, M.E. Partitions and the method of differences, 83.
Suryanarayana, D. Inequalities involving $\sigma(N), d(N), \phi(N)$ and their applications to odd perfect numbers, 87.
Jothilingam, P. Evaluation of a general series, 97.
Kamthan, Pawan Kumar. On the mean values of an entire function, 101.
Ramabhadran, N. Coherent pairs of extensions of lie algebras, Thesis abstract, 111.
Problem sections, 113.
News and notices, 115.

THE 29th CONFERENCE OF THE INDIAN MATHEMATICAL SOCIETY

Programme, 118.
Gupta, Hans Raj. Presidential Address (General), 121.
Venkataraman, M. The real number system, 133.
Zemmer, J.L. *Near-fields, planar and non-planar*, 145.
Leach, E.B. *Approximate convergence of sequences*, 151.
Zemmer, J.L. *On a class of doubly transitive groups*, 155.
Symposium on applied mathematics, 157.
Kapur, J.N. *Some recent trends in applied mathematics*, 158.
Rab'nowitz, I.N. *Applied mathematics and computers*, 165.
Srivastava, V.K. *Application of IBM 1620 for solving a problem in internal ballistics*, 166.
(Miss) Rajeswari. *Effects of suction or injection on the secondary flow induced between two concentric spheres rotating about an axis*, 168.
(Miss) Uberoi C. *Gravitational instability of infinite layer of finite thickness surrounded by a non-conducting material in the presence of magnetic field and rotation*, 168.
Bhatnagar, R.K. *Slow rotation of a sphere in a non-Newtonian fluid with or without suction or injection*, 169.
Singh, S.N. *The profile of a steady plane ionization front or in interstellar gas*, 170.
Appendix.
1. *Abstracts of Papers*, 1 to 36.