

LONDON MATHEMATICAL SOCIETY

**PROFESSOR I. G. MACDONALD
(University of Manchester)**

FINITE CHEVALLEY GROUPS AND THEIR REPRESENTATIONS

THURSDAY, 12 December, 1974 at 5 p.m.

**The Gustave Tuck Theatre,
University College,
Gower Street,
London, W.C.1.**

**Tea will be served at 4.30 p.m. in the
Haldane Room**

A convenient underground station for University College is Euston Square. Visitors should go to the main entrance of the College where they will be directed to the Haldane Room.

LMS NEWSLETTER

No. 15

December 1974

JOINT I.M.A. AND L.M.S. SYMPOSIUM

The Institute of Mathematics and its Applications and the London Mathematical Society are organising a Joint Symposium on Excitement in Mathematics to be held at the Churchill College, Cambridge on 9 June, 1975.

This meeting will be held on, and in celebration of, the 90th birthday of Professor J. E. Littlewood, F.R.S. Professor Littlewood, fellow of Trinity College, Cambridge, and formerly Rouse Ball Professor of Mathematics in the University of Cambridge, was elected to fellowship of the Royal Society in 1916 and has received the Royal, Sylvester and Copley medals of the Royal Society. He received the L.M.S. De Morgan Medal in 1938 and the Senior Berwick Prize in 1960 and he was President of the London Mathematical Society for

the years 1941-43.

The meeting is a tribute to the contributions to mathematics which gave Professor Littlewood a world wide reputation. The title has been chosen as the most fitting description of his attitude to mathematics. Professor Littlewood hopes to be present for at least part of the meeting.

The Chair will be taken by Professor Sir Hermann Bondi, K.C.B., F.R.S., and the speakers will include Professor M. F. Atiyah, F.R.S., Professor D. G. Kendall, F.R.S., Professor Sir James Lighthill, F.R.S., and Professor E. C. Zeeman.

Details and application forms may be obtained from the Secretary and Registrar, The Institute of Mathematics and its Applications, Maitland House, Warrior Square, Southend-on-Sea, Essex SS1 2JY.

BRUNEL UNIVERSITY SYMPOSIUM

The Mathematics Committee of the Science Research Council has made available grants for the support of a symposium on finite element methods to the Numerical Analysis Group at Brunel University for the period January to June, 1975.

The grants will be used to bring workers eminent in the field from abroad to Brunel to lecture and work on finite element methods. Particular areas of study will include the treatment of boundary singularities in elliptic boundary value problems by finite element methods, finite element methods for time dependent problems and solution of the systems of equations which arise from the application of finite element methods. Persons to whom invitations have been extended include I. Babuska, A. Cellia, P. G. Ciarlet, G. Fix, J. A. George, G. H. Meyer, N. Nassif, J. T. Oden, G. Strang, H. Werner, D. M. Young, and M. Zlamal.

A feature of the symposium will be a conference on the Mathematics of Finite

Elements and Applications which will be held at Brunel during the period April 7-10, 1975. This conference is supported in part by a grant from the Royal Society. Invited speakers are J. H. Argyris, I. Babuska, P. G. Ciarlet, R. Cough, A. R. Mitchell, J. T. Oden, W. C. Rheinboldt, J. R. Whiteman, D. M. Young, O. C. Zienkiewicz, and M. Zlamal.

It is expected that workers interested in the field may wish to come to Brunel for extended periods during the symposium. Anyone thinking of doing so should contact Dr. J. R. Whiteman, Department of Mathematics, Brunel University, Uxbridge, Middlesex UB8 3PH, England, as soon as possible. Details of the conference can be obtained from Dr. Whiteman or from the associated organizers: The Institute of Mathematics and Its Applications, Maitland House, Warrior Square, Southend-on-Sea, Essex SS1 2JY.

J. R. WHITEMAN

MATHEMATISCHES FORSCHUNGSIINSTITUT OBERWOLFACH

Information: Participation in the meetings is only possible by personal invitation. Interested persons may apply to the Institute.

1-4 January, 1975. Arbeitstagung (Chairman: H. Salzmann).

5-11 January. Kontinuumsmechanik der festen Körper (W. Günther, H. Lippmann).

12-18 January. Wahrscheinlichkeitsrechnung in der Schule (R. Borges, H. Dinges).

19-25 January. Mengenlehre und Modelltheorie (K. P. Podewski, M. Richter, E.-J. Thiele).

26 January-1 February. Störungstheorie und Operatorfunktionen (B. Gramsch, G. Neubauer).

2-8 February. Einhüllende Algebren von Lie-Algebren (P. Grabriel, R. Rentschler).

9-15 February. Kombinatorik (D. Foata, A. Kerber).

16-22 February. Funktionentheorie (D. Gaier, J. Winkler, H. Wittich).

23 February-1 March. Medizinische Statistik (H. Klinger, R. Repges).

2-8 March. Partielle Differentialgleichungen (E. Heinz, G. Hellwig).

9-15 March. Mathematische Stochastik (K. Krickeberg).

16-22 March. Gewöhnliche Differentialgleichungen und Anwendungen (H. W. Knobloch, R. Reissig).

30 March-5 April. Kommutative Algebra und algebraische Geometrie (E. Kunz, H.-J. Nastold, L. Szpiro).

6-12 April. Arbeitstagung (M. Kneser, P. Roquette).

13-19 April. Quadratische Formen (M. Knebusch, A. Pfister, W. Scharlau).

20-26 April. Mathematische Logik (K. Schütte, E. Specker).

27 April-3 May. Methoden und Verfahren der mathematischen Physik (B. Browski, E. Martensen).

4-10 May. Gruppen und Geometrien (D. Higman, H. Salzmann).

11-17 May. Ringe, Moduln und homologische Methoden (F. Kasch, A. Rosenberg).

18-24 May. Gruppentheorie. (W. Gaschütz, K. W. Gruenberg, B. Huppert).

25-31 May. Numerische Methoden der Approximationstheorie (L. Collatz, G. Meinardus, H. Werner).

1-7 June. Mathematische Methoden in der Biologie (K. P. Hadeler).

8-14 June. Distributionen, Convolutionen und partielle Differentialgleichungen. (J. Wloka, Z. Zielezny).

15-21 June. Massstheorie (A. Ionescu-Tulcea, D. Kölzow).

22-28 June. Riesz-Spaces (W. A. J. Luxemburg, H. H. Schaefer).

29 June-5 July. Kategorien (J. W. Gray, H. Schubert).

6-12 July. Funktionalgleichungen (J. Aczél, O. Haupt, A. M. Ostrowski).

13-19 July. Graphentheorie (G. Ringel).

20-26 July. Wahrscheinlichkeitstheorie in Banach-Räumen (A. Beck, K. Jacobs).

27 July-2 August. Numerische Methoden der Optimierung und Operationsforschung (W. Oettli, K. Ritter).

10-16 August. Algebraische Zahlentheorie (H. Hasse, P. Roquette).

17-23 August. Harmonische Analyse und Darstellungstheorie topologischer Gruppen (H. Leptin, E. Thoma).

24-30 August. Himmelsmechanik (E. Stiefel, V. Szebehely).

31 August-6 September. Topologie (D. B. A. Epstein, T. tom Dieck, C. B. Thomas).

7-13 September. Homotopietheorie (T. tom Dieck, D. Puppe).

17-20 September. Zufallsschwingungen und deren Stabilität (W. Wedig, F. Weidenhammer).

21-27 September. Geometrie (P. Domrowski, K. Leichtweiss).

28 September-4 October. Grundlagen der nichtlinearen Geometrie (A. Barlotti, W. Benz, H. Karzel, R. Lingenberg).

5-11 October. Funktionalanalysis (H. König, G. Köthe, H. H. Schaefer, H. G. Tillmann).

12-18 October. Arbeitstagung (M. Kneser, P. Roquette).

19-25 October. Problemgeschichte der Mathematik (B. Bockstaele, C. J. Scriba).

26 October-1 November. Operatorungleichungen (N. W. Bazley, J. Schröder).

2-8 November. Zahlentheorie (insbesondere elementare und analytische Zahlentheorie) (H. E. Richert, W. Schwarz, E. Wirsing).

9-15 November. Fortbildungslehrgang für Studienräte (Chairman not yet known).

16-22 November. Numerische Behandlung von Differentialgleichungen, insbesondere mit der Methode der finiten Elemente (J. Albrecht).

23-29 November. Automatentheorie und Formale Sprachen (G. Hotz, H. Langmaack, H. Walter).

30 November-6 December. Angewandte Mathematische Statistik (D. Morgenstern, H. Witting).

7-13 December. Fragen zur Didaktik der Mathematik (H. Kunle).

L.M.S. MONOGRAPHS

The following monographs have been published so far:

1. C. T. C. Wall, *Surgery on compact manifolds*, 1970, £5.
2. P. M. Cohn, *Free rings and their relations*, 1971, £7.
3. N. Popescu, *Abelian categories with applications to rings and modules*, 1973, £11.

In the Press:

H. Halberstam and H. E. Richert: *Sieve methods*.

I. Reiner: *Maximal orders*.

Members are reminded that they can obtain any volume in the series at 20% discount by sending an order, with remittance, direct to Sales Department, Academic Press Inc. (London) Ltd., 24-28 Oval Road, London NW1 7DX.

P. M. COHN

SPECIAL MEETINGS

29-30 January, 1975. Symposium on some mathematical questions in biology. New York. Information: Simon A. Levin, Ithaca, New York.

31 January. Symposium on Theory vs. Practice in the finite element method. New York. Information: Gilbert Strang, M.I.T., Cambridge, MA 02139.

6-10 January. Regional research conference on foliations of manifolds. St. Louis. Information: Gary Jensen, Washington University, St. Louis, Missouri 63130.

6-10 January. Seminar on algebraic aspects of combinatorics. Toronto. Information: E. Mendelsohn, University of Toronto, Toronto, Ontario, Canada M5S 1A1.

13-14 February. Eighth annual computer science and statistics: a symposium on the interface. Los Angeles. Information: Avis Williams, Department of Biomathematics, University of California, Los Angeles, CA 90024.

California, 90024.

28-31 March. Sixth national mathematics conference of Iran. Information: Ali Amidi, Jundi Shapur University, Ahwaz, Iran.

15-17 April. Computational methods in nuclear engineering. Charleston, S.C. Information: Henry C. Honeck, Savannah River Laboratory, Aiken, South Carolina 29801.

30 April-2 May. Forty-seventh national ORSA meeting TIMS 1975 North American meeting. Chicago. Information: W. P. Pierskalla, IE/MS Department, Northwestern University, Evanston, Ill. 60201.

20-22 May. Tenth New Zealand mathematics colloquium. Information: Gloria Olive, University of Otago, Dunedin, New Zealand.

20-24 May. International symposium on interval mathematics. Karlsruhe. Information: Karl Nickel, Universität Karlsruhe, Institut für praktische Mathematik, Postfach 6380, 75 Karlsruhe 1, W. Germany.

NEW AMS PUBLICATIONS

Memoirs of the A.M.S. No. 150. Equilibrium states on thin energy shells. Richard Leslie Thompson. A.M.S. member price \$2.48.

No. 151. On closed 3-braids. Kunio Murasugi. A.M.S. member price \$2.55.

No. 152. On the general Rogers-Ramanujan theorem. George E. Andrews.

A.M.S. member price \$2.33.

Translations. Vol. 43. Stability of solutions of differential equations in Banach spaces. Ju. L. Daleckii and M. G. Krein. A.M.S. member price \$27.30.

Vol. 44. Introduction to the theory of entire functions of several variables. L. I. Ronkin. A.M.S. member price \$21.38.

EDINBURGH MATHEMATICAL SOCIETY, ST. ANDREWS COLLOQUIUM

The next Colloquium will take place in St. Andrews in 1976 from Wednesday, 14 July to Saturday, 24 July, 1976. The format is expected to be similar to that of the

last colloquium with three main lecture courses and two research seminars. Further details will be announced in due course.

M. J. BEETHAM