

LMS NEWSLETTER

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L.M.S. SYMPOSIUM ON REPRESENTATION THEORY OF LIE GROUPS

A symposium following, in part, the pattern of previous London Mathematical Society Instructional Conferences will be held in Oxford from 28 June to 15 July 1977. The aim of the symposium will be to survey the present state of the representation theory of Lie groups on as wide a front as possible, emphasising its interactions with other areas. Expertise in Lie theory is not an essential requirement for participants.

Invited lecturers who have agreed in principle to take part are: M. F. Atiyah, R. Bott, S. Helgason, D. Kazhdan, B. Kos-

tant, G. Lusztig, I. G. Macdonald, G. W. Mackey, W. Schmid, D. Simms, I. M. Singer.

Accommodation and meals will be provided in Lady Margaret Hall. Some modest financial assistance will be available for participants who have no other source of funds. Further details will be announced later, and all those interested in attending should write to the Secretary of the Organising Committee: Dr. N. J. Hitchin, Mathematical Institute, 24 St. Giles, Oxford.

DATES OF SOCIETY MEETINGS

Friday, 11 March, Burlington House.
Naylor Lecturer (Professor Sir M. James Lighthill).

Friday, 20 May, University College, Bangor.

Friday, 17 June, Burlington House.
Hardy Lecturer (Professor J. K. Moser).

London meetings will be held in the Geological Society Rooms, Burlington House, Piccadilly. Council meetings will be held in conjunction with all the above meetings except possibly that on 20 May.

D. A. BRANNAN

SOCIETY MEMBERSHIP

On 1 November 1976 the total membership of the Society was 1,266. The corre-

sponding figure for 1975 was 1,255.

D. SINGMASTER

NAYLOR PRIZE

The Council of the Society has awarded the 1977 Naylor Prize in Applied Mathematics to Professor Sir M. James Lighthill, F.R.S., F.R.Ae.S., Lucasian Professor of

Mathematics at the University of Cambridge. He will deliver the Society's first Naylor Lecture in March.

D. A. BRANNAN

JUNIOR BERWICK PRIZE

At the June meeting in 1977 of the Society the Council will be awarding the Society's Junior Berwick Prize. Accordingly it has appointed the following as the 1977 Prize Committee: Professor J. W. S. Cassels and Professor D. G. Kendall of the Department of Pure Mathematics and Mathematical Statistics, 16 Mill Lane, Cambridge; and Professor M. F. Atiyah of the Mathematical Institute, 24-29 St. Giles, Oxford.

The Council invites members of the Society to submit their views confidentially in writing to any member of the Committee by 1 March. Council reserves the right not to make an award if no candidate of sufficient merit is recommended by the Prize Committee.

The detailed regulations and procedure for the award of the Prize are available from the undersigned; the principal points that members should note are:

- (1) The Prize will be awarded in respect of a definite piece of work published by the

Society in any of its publications (at present the three periodicals, the Monographs, and the Lecture Notes Series) in the period 1 January 1973 until 31 December 1976.

- (2) The current President of the Society, Professor J. W. S. Cassels, and the members of the Prize Committee are ineligible for the award.
- (3) Only mathematicians who are members of the Society at the date of the award are eligible for the Prize.
- (4) The Junior Berwick Prize shall be restricted to members whose age on the 1 June 1977 does not exceed 40, and who are not Fellows of the Royal Society.
- (5) No member can receive the Junior Berwick Prize more than once; winners of the Senior Berwick Prize who satisfy (4) are eligible for the Junior Berwick Prize.

D. A. BRANNAN

DE MORGAN MEDAL

At the June meeting in 1977 of the Society the Council will be awarding the Society's De Morgan Medal. Accordingly it has appointed the following as the 1977 Medal Committee: Professor J. W. S. Cassels and Professor D. G. Kendall of the Department of Pure Mathematics and Mathematical Statistics, 16 Mill Lane, Cambridge; and Professor M. F. Atiyah of the Mathematical Institute, 24-29 St. Giles, Oxford.

The Council invites members of the Society to submit their views confidentially in writing to any member of the Committee by 1 March. Council reserves the right not to make an award if no candidate of sufficient merit is recommended by the Medal Committee.

The detailed regulations and procedure for the award of the Medal are available from the undersigned; the principal points

that members should note are:

- (1) No mathematician is eligible to receive the Medal more than once.
- (2) The Medal is awarded to a mathematician who is normally resident in the United Kingdom of Great Britain and Northern Ireland.
- (3) The sole grounds for the award of the Medal are the candidate's contributions to mathematics.
- (4) The current President of the Society, Professor J. W. S. Cassels, and the members of the Medal Committee are ineligible for the award.
- (5) The Berwick Prize and the De Morgan Medal cannot be awarded to the same mathematician in a given year; the Medal takes precedence.

D. A. BRANNAN

PERSONAL ITEMS

Professor Beniamino Segre, University of Rome, Honorary Member of the Society, was elected President of the European Culture Society on 2 November.

Professor D. G. Kendall, University of Cambridge, received the Sylvester Medal of the Royal Society on 30 November.

D. SINGMASTER

OBERWOLFACH: CHANGE OF PROGRAMME

A meeting on Scattering Theory will be organised by P. Werner (Stuttgart) and C. Wilcox (Salt Lake City) during the week

beginning 17 July 1977. The meeting on Formale Sprachen previously announced has been postponed until 1978.

MATHEMATICAL ASSOCIATION: ANNUAL CONFERENCE

The 1977 Annual Conference will be held at the University of Liverpool on 13-16 April. The programme consists of lectures and working groups on many aspects of the mathematical education of children.

Further details can be obtained from T. A. S. Jackson, Mathematical Association Conference, 6 Montclair Drive, Liverpool L18 0HA to whom completed application forms should be sent by 1 February.

INTERNATIONAL SYMPOSIUM ON APPROXIMATION THEORY

An International Symposium on Approximation Theory will be held on 1-6 August 1977 at the Universidade Estadual de Campinas, Brazil. Invited speakers include: R. M. Aron (Dublin), M. S. Baouendi (Paris), H. Bauer (Erlangen), K.-D. Bierstedt (Paderborn), J. Blatter (Rio de Janeiro), B. Brosowski (Frankfurt), A. Browder (Providence), P. L. Butzer (Aachen), G. Choquet (Paris), H. S. Collins (Baton Rouge), J.-P. Ferrier (Nancy), P. M. Gauthier (Montreal), I. L. Glicksberg (Seattle), J. Horvath (Maryland), J.-P. Kahane (Paris), J. Lesmes (Rio de Janeiro),

J. Lindenstrauss (Jerusalem), J.-L. Lions (Paris), G. G. Lorentz (Austin), S. Machado (Rio de Janeiro), P. Malliavin (Paris), R. Meise (Düsseldorf), B. Mitiagin (Moscow), L. Nachbin (Rio de Janeiro), G. Restrepo (Cali, Colombia), I. J. Schoenberg (Madison), W. H. Summers (Fayetteville), D. Wulbert (Seattle), G. Zapata (Rio de Janeiro), Z. Ziegler (Haifa), N. Sibony (Orsay).

Further details can be obtained from João B. Prolla, Instituto de Matemática, Universidade Estadual de Campinas, Caixa Postal 1170, 13100 Campinas, SP, Brazil.

CONFERENCE ON OPTIMIZATION TECHNIQUES

The eighth IFIP conference on Optimization Techniques will be held in Würzburg on 5-10 September 1977. Speakers will include: R. Bulirsch, J. L. Lions, G. I.

Marchuk, L. S. Pontryagin and Ph. Wolfe. Further details can be obtained from J. Stoer, Institut für Angewandte Mathematik, 87 Würzburg, W. Germany.

AUSTRIAN MATHEMATICAL CONGRESS

The IX Austrian Mathematical Congress will be held in Salzburg on 26-30 September 1977. Sections will be devoted to the different branches of mathematics and there will be a Symposium on School Mathematics. The Deutsche Mathematiker Ver-

einigung will not be holding its usual annual meeting this year. Further details can be obtained from IX Österreichischer Mathematikerkongress, A-5032 Salzburg, Austria.

AUTOMORPHIC FORMS, REPRESENTATIONS and L-FUNCTIONS

The 25th Summer Research Institute of the American Mathematical Society will be devoted to the topic "Automorphic forms, representations and L-functions" and will be held on 11 July-5 August 1977 at Corvallis, Oregon. The organising com-

mittee consists of A. Borel, W. Casselman, P. Deligne, H. Jacquet, R. P. Langlands and J. Tate. Further details can be obtained from A. Borel, School of Mathematics, Institute for Advanced Study, Princeton, New Jersey 08540.

COLLOQUIUM ON UNIVERSAL ALGEBRA

The János Bolyai Mathematical Society will organise a colloquium on universal algebra, including algebraic model theory and lattice theory, at Esztergom 27 June-1 July 1977. The organising Committee consists of E. T. Schmidt (chairman), B.

Csákány, E. Fried, L. A. Skorniakov (U.S.S.R.), R. Wille (G.F.R.), F. Gécseg, L. Lovász and A. Huhn. Further information can be obtained from A. Huhn, Universal Algebra, J. Bolyai Mathematical Society H-1368 Budapest, Pf. 240 Hungary.

QUEEN MARY COLLEGE MATHEMATICS NOTES

The following are available:

- R. Bieri. Homological Dimension of Discrete Groups (£2·50).
- P. M. Cohn. Morita Equivalence and Duality (£2·00).
- P. Hall. The Edmonton Notes on Nilpotent Groups (£1·50).
- J. E. Roseblade *et al.* Three Lectures on Polycyclic Groups (£1·50).

B. A. F. Wehrfritz. Infinite Linear Groups (£1·50).

Prices quoted are for mailing **within the British Isles only**, overseas prices are available on request. Orders should be prepaid and addressed to: Secretary, Department of Pure Mathematics, Queen Mary College, Mile End Road, London E1 4NS.

CAMBRIDGE LECTURESHIP IN PURE MATHEMATICS

Applications are invited for a lectureship or assistant lectureship in pure mathematics in the Department of Pure Mathematics and Mathematical Statistics. Initial placement on the salary scale will be determined according to age and experience.

Further information can be obtained from Professor J. W. S. Cassels, Department of Pure Mathematics and Mathematical Statistics, 16 Mill Lane, Cambridge CB2 1SB.

BOOKS RECEIVED FOR REVIEW IN THE BULLETIN

Lecture Notes in Mathematics. Volumes number 503, 510–516, 520–524, 529. (Springer-Verlag, Berlin.)

Lecture Notes in Economics and Math. Systems. Volumes number 123, 128. (Springer-Verlag, Berlin.)

Normal Approximation and Asymptotic Expansions. R. N. Bhattacharya, R. Ranga Rao. (John Wiley and Sons Ltd., £15·00.)

A Survey of Numerical Methods for the Solution of Fredholm Integral Equations of the 2nd Kind. Kendall E. Atkinson. (SIAM, £11·00.)

Perspectives in Probability and Statistics. Papers in Honour of M. S. Bartlett. Ed. by J. Gani. (Applied and Prob. Trust and Academic Press Inc., £8·50.)

Operational Calculus. Gregers Crabbe. (Plenum Pub. Corp., £11·00.)

Global Variational Analysis. Marston Morse. (Princeton Univ. Press, £4·80.)

Representations of the Rotation and Lorentz Groups. M. Carmeli, S. Malin. (Lecture Notes in Pure/Applied Math. 16.) (Marcel Dekker Inc., £12·00.)

Parallelisms of Complete Designs. P. J. Cameron. (Cambridge U.P., L.M.S. Lecture Notes, No. 23, £3·95.)

Applications of Fuzzy Sets to Systems Analysis. C. V. Negoita, D. A. Ralescu. (Birkhauser Verlag, £9·00.)

An Introduction to Prob. Theory and Math. Statistics. V. K. Rohagti. (John Wiley and Sons Ltd., £15·75.)

Methods of Accelerated Convergence in Non-linear Mechanics. N. N. Bogoljubov, J. A. Mitropoliskii, A. M. Samoilenko. (Springer-Verlag, £13·50.)

Ordinary Differential Equations in the Complex Domain. Einar Hille. (John Wiley and Sons Ltd., no price marked.)

Finite Orthogonal Series in the Design of Digital Devices. M. G. Karpovsky. (John Wiley and Sons Ltd., £17·15.)

Homological Methods in Commutative Algebra. S. Raghavan, Balwant Singh, R. Sridharan. (Tata Inst. of Fundamental Research, Math. Pamphlet, 5: Oxford U.P., £1·50.)

Integral Equations, A Short Course. L. L. G. Chambers. (Internat. Textbook Co. Ltd., £7·00.)

Introduction to Analytic Number Theory. Tom M. Apostol. (Springer-Verlag, £7·50.)

Diocles on Burning Mirrors, Sources in History of Math. and Physical Sciences. No. 1. G. J. Toomer. (Springer-Verlag, £14·00.)

3-Manifolds. J. Hempel. *Annals of Math. Studies* 86. (Princeton U.P., cloth £9·40, paper £3·50.)