ISSN 0004-9727

BULLETIN Volume 13 (1975) of the Australian Mathematical Society Number 3

M. J. Curran	Centralizers involving Mathieu groups	321
Ivan Singer	Geometric properties of the norm and basic sequences in Banach spaces	325
H. P. Yap	Maximal sum-free sets in finite abelian groups. V	337
Nicholas Wormald	Nonexistence of certain supplementary differ-	
	ence sets	343
B. J. Gardner and Patrick N. Stewart	On semi-simple radical classes	349
J. L. Hickman and B. H. Neumann	A question of Babai on groups	355
Frnest C. Ackermann	The construction of diagrams for abelian groups	369
Paul F. Bland	Relatively flat modules	375
Kurt Mahler	On the transcendency of the solutions of a	0.0
	special class of functional equations	389
B D Craven	Sufficient Fritz John ontimality conditions	411
J. Parida	On converse duality in complex nonlinear pro-	10000
	gramming	421
Luiz Paulo de Alcantara	On a system of Feferman	429
Ratie Reimers and	Autoclinisms and automorphisms of finite	
Jürgen Tappe	aroups	439
K. L. Teo	On the existence and uniqueness of solutions	
	of parabolic equations	451
John D. Fuelberth,	Splitting torsion theories over commutative	
James Kuzmanovich, and Thomas S. Shores	rings	457
Robert A. Herrmann	Nonstandard topological extensions: Addendum	479
Abstracts of Australasian Pl	nD theses	
Peter R. Jones	Inverse subsemigroups of free inverse semi-	465
M C Cullinan	On the structure of geometries with spinor-type	400
	connexion	467
Alistair Gray	Small divisor problems via a general theorem	469
Donald RossWatson	Input-output models and cost inflation	473
Neil Stuart Barnett	Some multi-stream problems in the theory of dams	475
Andris Talis Stelbovics	On-shell approach to three-body scattering	477

Bull. Austral. Math. Soc. Vol. 13 (1975) No. 3, pp. 321-479

THE UNIVERSITY OF QUEENSLAND PRESS ST LUCIA, QUEENSLAND 4067

Authors' Abstracts

The following notes are based on those prepared by UNESCO:

- 1. The purpose of an abstract is threefold:
 - (i) to help workers in the subject of the paper to decide whether to read it in full;
 - (ii) to give readers who are only marginally concerned in the subject enough information to make it unnecessary for them to read it in full;
 - (iii) to expedite and simplify the work of the reviewing journals and mathematical offprint services.
- 2. In writing abstracts, authors should bear in mind that these may be the only parts of the papers that are read.
- 3. The abstract should contain a brief but informative summary of the contents of the paper, but no inessential details.
- 4. The abstract should be self-contained, but may refer to the title.
- 5. If the paper is an announcement of results whose proofs are to be published in full elsewhere or later, the abstract should say so.
- 6. The abstract should be written in completely connected sentences, not as a list of headings. Abbreviations should be avoided.
- The abstract should be non-technical, and intelligible without reference to the full paper. Specific references (by number) to a section, proposition, equation, bibliographical item should be avoided.
- 8. The abstract should be as concise as is compatible with these requirements. It should not be longer than 200 words, and may be much shorter.

The BULLETIN of the Australian Mathematical Society is published for the Society by

The University of Queensland Press, St Lucia, Queensland 4067, Australia,

and printed by

Watson Ferguson & Co, Brisbane, Queensland 4101, Australia.