

TABLE OF CONTENTS

J.BECKER, J.DENEF and L.LIPSHITZ	1
Further remarks on the elementary theory of formal power series rings	
CHANTAL BERLINE	10
Elimination of quantifiers for non semi-simple rings of characteristic p	
M.BOFFA, A.MACINTYRE and F.POINT	20
The quantifier elimination problem for rings without nilpotent elements and for semi-simple rings	
ELISABETH BOUSCAREN	31
Existentially closed modules : types and prime models	
GREGORY CHERLIN	44
Rings of continuous functions : decision problems	
PETER CLOTE	92
Weak partition relations, finite games, and independence results in Peano arithmetic	
FRANÇOISE DELON	108
Hensel fields in equal characteristic $p > 0$	
M.A.DICKMANN	117
On polynomials over real closed rings	
JEAN-LOUIS DURET	136
Les corps faiblement algébriquement clos non séparablement clos ont la propriété d'indépendance	
ULRICH FELGNER	163
Horn-theories of abelian groups	
PETR HÁJEK and PAVEL PUDLÁK	174
Two orderings of the class of all countable models of Peano arithmetic	
ANGUS MACINTYRE	186
Ramsey quantifiers in arithmetic	

KENNETH L.MANDERS	211
Computational complexity of decision problems in elementary number theory	
KENNETH McKENNA	228
Some diophantine Nullstellensätze	
GEORGE MILLS	248
A tree analysis of unprovable combinatorial statements	
J.B.PARIS	312
A hierarchy of cuts in models of arithmetic	
G.SMORYŃSKI and J.STAVI	338
Cofinal extension preserves recursive saturation	
LOU VAN DEN DRIES	346
Some model theory and number theory for models of weak systems of arithmetic	
A.J.WILKIE	363
Applications of complexity theory to Σ_0 - definability problems in arithmetic	
GEORGE WILMERS	370
Minimally saturated models	
B.I.ZILBER	381
Totally categorical theories : structural properties and the non-finite axiomatizability	