## THE ROCKY MOUNTAIN JOURNAL OF MATHEMATICS

| Volume 14               | Fall 1984                         | Number 4         |
|-------------------------|-----------------------------------|------------------|
|                         | CONTENTS                          |                  |
|                         | ciation, and remembrance          |                  |
| •                       | BOIS                              | 729              |
| Witt rings and K-ti     |                                   |                  |
|                         | MFIEL                             | 733              |
| An introduction to      | 0                                 |                  |
|                         | 1. N. 1. C.                       |                  |
|                         | ment on extending Nash funct      | ions off         |
| singular curves         | EFROYMSON                         | 215              |
| Real fields with sm     |                                   |                  |
|                         | J. Engler and T.M. Viswai         | NATHAN 817       |
|                         | fying Rolle's Theorem             | 011              |
|                         | VN, THOMAS C. CRAVEN AND          | M.J. Pelling 819 |
| ů.                      | ogy of real algebraic sets        |                  |
|                         |                                   | 821              |
|                         | sions and proper morphisms        |                  |
| By Ma. Emel             | LIA ALONSO                        | 831              |
| Some results on rea     | ~ *                               |                  |
| *                       | LI                                | 833              |
| Hilbert's problem 1     |                                   |                  |
|                         | COISE                             |                  |
| - 0                     | algorithm for the topological t   | type of a        |
| real algebraic cur      |                                   |                  |
| *                       | ARNON AND SCOTT McCall            | UM 847           |
|                         | and complexity theory QUES RISLER | 851              |
|                         | braic sets and analytic germs     |                  |
| _                       |                                   | 855              |
| Real places in function |                                   |                  |
| _                       | NDRADAS                           | 859              |
| Algebraicity versus     |                                   |                  |
|                         | CHNAK                             | 863              |
| •                       | arier theory of fields            |                  |
| By Eberhard             | BECKER                            | 881              |

| On Pythagorean real irreducible algebroid curves         |     |
|--|-----|
| By Jesus M. Ruiz   | 899 |
| Towards a classification of real algebraic surfaces      |     |
| By R. Silhol   | 903 |
| Topology and real algebraic geometry                     |     |
| By Selman Akbulet  | 907 |
| Basic homotopy theory of locally semialgebraic spaces    |     |
| By Hans Delfs and Manfred Knebusch                       | 913 |
| On complete intersection real curves                     |     |
| By M.G. Marinari and M. Raimondo                         | 919 |
| Some remarks of Nash rings                               |     |
| By M. Raimondo   | 921 |
| The semigroup of non left zero divisors in an algebra,   |     |
| infinite powers of matrices and related matters          |     |
| By Olga Taussky  | 923 |
| A lower bound for the complexity of separating functions |     |
| By Gilbert Stengle                                       | 925 |
| Direct limits of finite spaces of orderings              |     |
| By M. Kula, M. Marshall and A. Slader                    | 929 |
| Extensions of semidefinite functions                     |     |
| By J.M. Gamboa   | 931 |
| Minimal generation of basic semialgebraic sets           |     |
| By Ludwig Brocker  | 935 |
| Searching around $H_{\bullet}(-)$                        |     |
| By Riccardo Benedetti and Maria Dedo                     | 939 |
| Piecewise-rational retractions onto closed,              |     |
| convex-semialgebraic sets with interior                  |     |
| By Charles N. Delzell                                    | 941 |
| An introduction to locally semialgebraic spaces          |     |
| By Hans Delfs and Manfred Knebusch                       | 945 |
| Constructing real prime divisors using Nash arcs         |     |
| By Robert Robson   | 965 |
| On moduli of real curves                                 |     |
| By Mike Sepalla  | 969 |
| Real closed spaces                                       |     |
| By Niels Schwartz  | 971 |
| Systems of quadratic forms II                            |     |
| By Albrecht Pfister                                      | 973 |
|  |     |

| Systems of real variables                                  |     |
|--|-----|
| By H.W. Schulting  | 977 |
| Faisceaux coherents en geometrie algebrique reelle         |     |
| By Hamet Seydi   | 981 |
| On the Pierce-Birkhoff conjecture                          |     |
| By Louis Mahe  | 983 |
| Semi algebraic Borel-Moore-homology                        |     |
| By Hans Delfs  | 987 |
| Separating hyperplanes for convex sets over ordered fields |     |
| By Jonathan Lee Merzel                                     | 991 |
| Index to Volume 14   | 993 |
|  |     |