Contents

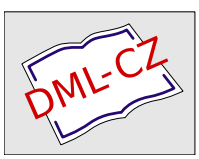
In: (ed.): General Topology and its Relations to Modern Analysis and Algebra, Proceedings of the symposium held in Prague in September 1961. Academia Publishing House of the Czechoslovak Academy of Sciences, Prague, 1962. pp. 361--363.

Persistent URL: http://dml.cz/dmlcz/700910

Terms of use:

© Institute of Mathematics AS CR, 1962

Institute of Mathematics of the Academy of Sciences of the Czech Republic provides access to digitized documents strictly for personal use. Each copy of any part of this document must contain these *Terms of use*.



This paper has been digitized, optimized for electronic delivery and stamped with digital signature within the project *DML-CZ: The Czech Digital Mathematics Library* http://project.dml.cz

CONTENTS

Foreword 5
From the report of the Organizing Committee 7
Из отчета организационного комитета 10
List of foreign participants 13
List of Czechoslovak participants 14
List of communications 15
Scientific Sessions 18
Commemoration of Eduard Čech 23
Speech of M. KATĚTOV 23
Speech of M. H. STONE 26
Speech of P. ALEXANDROFF 29
Allocution de K. KURATOWSKI 31
Scientific communications 33
AKUTOWICZ E. J.: Certaines classes de distributions quasi-analytiques au sens de S. Bernstein 35
ALEXANDROFF P.: On some Results concerning Topological Spaces and their Continuous Mappings 41
ANDERSON R. D.: Homeomorphisms of 2-Dimensional Continua 55
ANDREIAN-CAZACU C.: Méthodes topologiques dans la théorie des surfaces de Riemann 59
Антоновский М. Я.: Метрические пространства над полуполями 64
AQUARO G.: Completions of Uniform Spaces 69
ARCHANGELSKI A.: Concerning the Weight of Topological Spaces 72
ARENS R. F.: A Problem concerning Locally-A Functions in a Commutative Banach Algebra A 75
BERGMAN S.: Distinguished Boundary Sets in the Theory of Functions of Two Complex Variables 79
BESSAGA C., PEŁCZYNSKI A.: On the Topological Classification of Complete Linear Metric Spaces 87
BING R. H.: Applications of the Side Approximation Theorem for Surfaces 91
BOGNÁR M.: Bemerkungen zum Kongressvortrag „Stetigkeitsbegriff und abstrakte Mengenlehre" von F. Riesz 96
Болтянский В.: Топологические полуполя и их применения 106
BOLTJANSKI V.: On Imbeddings of Polyhedra into Euclidean Spaces 112
BORSUK K.: Concerning the Dimension of ANR-Sets 115
BOSECK H.: Darstellungen von Matrizengruppen über topologischen Körpern 119
BUDACH L., GRELL H.: Arithmetisch-topologische Untersuchungen an Ringen mit eingeschränkten Minimalbedingungen 121
CHOGOSHVILI G.: On Homology Theory of Non-closed Sets 123
CSÁSZÁR A.: Complétion et compactification d'espace syntopogènes 133
DELEANU A.: Fixed-Point Theory on Neighbourhood Retracts of Convexoid Spaces 138

DOWKER C. H.: Mappings of Proximity Structures . . . 139
DUDA R.: Connexions between Convexity of a Metric Continuum X and Convexity of its Hyperspaces $C(X)$ and 2^X . . . 142
DUDA R.: Two Results concerning Biconnected Sets with Dispersion Points . . . 146
ERDÖS P., HAJNAL A.: On the Topological Product of Discrete λ-Compact Spaces . . . 148
FLACHSMEYER J.: Nulldimensionale Räume . . . 152
FRÉCHET M.: L'espace des courbes n'est qu'un semi-espace de Banach . . . 155
FROLÍK Z.: A Contribution to the Descriptive Theory of Sets and Spaces . . . 157
GANEA T.: Algebraic Properties of Function Spaces . . . 174
GILLMAN L.: Remote Points in βR . . . 175
GOETZ A.: A Notion of Uniformity for L-spaces of Fréchet . . . 177
GOLOMB S. W.: Arithmetica Topologica . . . 179
GRIMEISEN G.: Eine natürliche Topologisierung der Potenzmenge eines topologischen Raumes . . . 187
DE GROOT J.: Linearization of Mappings . . . 191
HARTMAN S.: Some Relations between Topological and Algebraic Properties of Topological Groups . . . 194
HELMBERG G.: Topologische Untergruppenräume . . . 196
HENRIKSEN M., JERISON M.: The Space of Minimal Prime Ideals of a Commutative Ring . . . 199
HEWITT E.: Some Applications of Compactness in Harmonic Analysis . . . 204
HILLE E.: Remarks on Transfinite Diameters . . . 211
ISBELL J. R.: Mazur's Theorem . . . 221
KATĚTOV M.: On a Category of Spaces . . . 226
Келдыш Л.: Некоторые теоремы о топологическом вложении . . . 230
KELLEY J. L.: Descriptions of Čech Cohomology . . . 235
KLEE V. L.: Exotic Topologies for Linear Spaces . . . 238
KLUVÁNEK I.: Sur la représentation des transformations linéaires . . . 250
KOLIBIAR M.: Bemerkungen über Intervalltopologie in halbgeordneten Mengen . . . 252
KOUTSKÝ K., SEKANINA M.: Modifications of Topologies . . . 254
KURATOWSKI K.: The Space of Mappings into the Sphere and its Topological Applications . . . 257
KUREPA D.: On an Inequality concerning Cartesian Multiplication . . . 258
LELEK A.: On Fixations of Sets in Euclidean Spaces . . . 260
MAMUZIĆ Z.: Abstract Distance and Neighborhood Spaces . . . 261
MAREK I.: Iterations of Linear Bounded Operators and Kellogg's Iterations . . . 267
MICHAEL E. A.: Collared Sets . . . 270
MIODUSZEWSKI J.: On Two-to-One Functions . . . 272
MIODUSZEWSKI J., ROCHOWSKI M.: Remarks on Fixed Point Theorem for Inverse Limit Spaces . . . 275
MOISE E. E.: Periodic Homeomorphisms of the 3-Sphere . . . 277
MUSIELAK J.: On some Spaces of Functions and Distributions . . . 279
NAGATA J.: On Dimension and Metrization . . . 282
NARASIMHAN M. S.: Existence of Universal Connections . . . 286
NICOLESCU M.: Problème de l'analyticité par rapport à un opérateur linéaire dans une algèbre normée . . . 287
NOVÁK J.: On the Sequential Envelope . . . 292
ORLICZ W.: Über gewisse Klassen von Modularräumen . . . 295
PAPIĆ P.: Sur les images continues des continus ordonnés . . . 296
PASYNKOV B.: Projection Spectra and Dimension . . . 298
POENARU V.: Products of Spaces by [0, 1] . . . 301
PONOMAREV V.: On Paracompact Spaces and Related Questions . . . 302

SCHWARZ Š.: Probability Measures on Non-commutative Semigroups 307
ŠEDIVÁ-TRNKOVÁ V.: Non-F-Spaces 311
SHIROTA T.: On Division Problems of Partial Differential Equations with Constant Coefficients 316
SIKORSKI R.: Applications of Topology to Foundations of Mathematics 322
SINGER I.: Basic Sequences and Reflexivity of Banach Spaces 331
SKLYARENKO V.: On Perfect Compactifications of Topological Spaces 333
SMIRNOV YU.: On Dimensional Properties of Infinite-Dimensional Spaces 334
SOLIAN A.: Semi-Topology of Transformation Groups. 337
STONE A. H.: Non-separable Borel Sets 341
STONE M. H.: Topological Aspects of Conformal Mapping Theory 343
TAYLOR A. E.: The Boundary of the Spectrum of a Linear Operator 347
TELEMAN C.: Sur la structure de certains groupes topologiques 351
TUMARKIN L.: Concerning Infinite-Dimensional Spaces 352
VARADARAJAN K.: Dimension, Category and $K(\Pi, n)$ Spaces 354
WALLACE A. D.: Relations on Topological Spaces 356