

Contents

Preface	v
Summary on non-Archimedean valued fields ANGEL BARRÍA COMICHEO and KHODR SHAMSEDDINE	1
Non-compact Trace class operators and Schatten-class operators in p -adic Hilbert spaces S. BASU	37
Calculus on a non-Archimedean field extension of the real numbers: inverse function theorem, intermediate value theorem and mean value theorem GIDON BOOKATZ and KHODR SHAMSEDDINE	49
p -adic meromorphic functions $f'P'(f)$, $g'P'(g)$ sharing a small function, ignoring multiplicity KAMAL BOUSSAF and ALAIN ESCASSUT	69
Spectra of commutative non-unital Banach rings CHI-WAI LEUNG and CHI-KEUNG NG	91
Ultrametric Calkin algebras BERTIN DIARRA	111
On summation of p -adic series BRANKO DRAGOVICH	127
Spectrum of ultrametric Banach algebras of strictly differentiable functions ALAIN ESCASSUT and NICOLAS MAÏNETTI	139
Classical p -adic Nevanlinna theory and Nevanlinna theory out of a hole ALAIN ESCASSUT and TA THI HOAI AN	161
The distance preserving mappings and isometrics defined on non-Archimedean Banach spaces ALBERT KUBZDELA	205
Rational map $ax + 1/x$ on the projective line over \mathbb{Q}_p SHILEI FAN and LINGMIN LIAO	217
Non-Archimedean Hahn-Banach theorems and injective Banach spaces M. GONZÁLEZ and C. PEREZ-GARCIA	231
G -modules with a convex base H. OCHSENIUS and E. OLIVOS	251

A journey throughout the history of p -adic numbers YVETTE PERRIN	261
On some classes of non-Archimedean Köthe spaces WIESŁAW ŚLIWA and AGNIESZKA ZIEMKOWSKA	273
On the sub-coordinate representation of p -adic functions EKATERINA YUROVA AXELSSON	285