

C O N T E N T S

O F V O L U M E I V

	P a g e
ACKNOWLEDGEMENT BY KLARA VON NEUMANN-ECKART	v
PREFACE BY PROFESSOR A. H. TAUB	vii
1. ON COMPACT SOLUTIONS OF OPERATIONAL-DIFFERENTIAL EQUATIONS. I. (S. BOCHNER and J. v. N.) <i>Ann. Math.</i> 36: 255-291 (1935)	1
2. CHARAKTERISIERUNG DES SPEKTRUMS EINES INTEGRALOPERATORS. <i>Actualités Scient. et Ind.</i> Series No. 229 Exposés Math. publiés à la mémoire de J. Herbrand No. 13. Paris 20 pp. (1935)	38
3. ON NORMAL OPERATORS. <i>N.A.S. Proc.</i> 21: 366-369 (1935)	56
4. ON INNER PRODUCTS IN LINEAR, METRIC SPACES. (P. JORDAN AND J. v. N.) <i>Ann. Math.</i> 36: 719-723 (1935)	60
5. THE DETERMINATION OF REPRESENTATIVE ELEMENTS IN THE RESIDUAL CLASSES OF A BOOLEAN ALGEBRA. (J. v. N. and M. H. STONE.) <i>Fund. Math.</i> 25: 353-378 (1935)	65
6. THE UNIQUENESS OF HAAR'S MEASURE. <i>Mat. Sborn.</i> 1: 721-734 (1936)	91
7. THE LOGIC OF QUANTUM MECHANICS. (GARRETT BIRKHOFF and J. v. N.) <i>Ann. Math.</i> 37: 823-843 (1936)	105
8. CONTINUOUS GEOMETRY. <i>N.A.S. Proc.</i> 22: 92-100 (1936)	126
9. EXAMPLES OF CONTINUOUS GEOMETRIES. <i>N.A.S. Proc.</i> 22: 101-108 (1936)	135
10. ON REGULAR RINGS. <i>N.A.S. Proc.</i> 22: 707-713 (1936)	143
11. ALGEBRAIC THEORY OF CONTINUOUS GEOMETRIES. <i>N.A.S. Proc.</i> 23: 16-22 (1937)	150
12. CONTINUOUS RINGS AND THEIR ARITHMETICS. <i>N.A.S. Proc.</i> 23: 341-349 (1937)	159
13. ON THE TRANSITIVITY OF PERSPECTIVE MAPPINGS. (J. v. N. and I. HALPERIN.) <i>Ann. Math.</i> 41: 87-93 (1940)	168
14. THE NON-ISOMORPHISM OF CERTAIN CONTINUOUS RINGS (WITH INTRODUCTION BY I. KAPLANSKY.) <i>Ann. Math.</i> 67: 485-496 (1958)	177
15. INDEPENDENCE OF \mathbb{F}_∞ FROM THE SEQUENCE v . (REVIEWED BY I. HALPERIN)	189
16. CONTINUOUS GEOMETRIES WITH A TRANSITION PROBABILITY. (REVIEWED BY I. HALPERIN)	191
17. QUANTUM LOGICS. (STRICT- AND PROBABILITY-LOGICS.) (REVIEWED BY A. H. TAUB)	195
18. LATTICE ABELIAN GROUPS. (REVIEWED BY GARRETT BIRKHOFF)	198
19. ON SOME ANALYTIC SETS DEFINED BY TRANSFINITE INDUCTION. (C. KURATOWSKI and J. v. N.) <i>Ann. Math.</i> 38: 521-525 (1937)	200
20. SOME MATRIX-INEQUALITIES AND METRIZATION OF MATRIX-SPACE. <i>Tomsk Univ. Rev.</i> 1: 286-300 (1937)	205
21. MINIMALLY ALMOST PERIODIC GROUPS. (J. v. N. and E. P. WIGNER.) <i>Ann. Math.</i> 41: 746-750 (1940)	220

CONTENTS OF VOLUME IV

22. FOURIER INTEGRALS AND METRIC GEOMETRY. (J. v. N. and I. J. SCHOENBERG.) <i>Amer. Math. Soc. Trans.</i> 50 : 226-251 (1941)	225
23. OPERATOR METHODS IN CLASSICAL MECHANICS. II. (PAUL R. HALMOS and J. v. N.) <i>Ann. Math.</i> 43 : 332-350 (1942)	251
24. APPROXIMATIVE PROPERTIES OF MATRICES OF HIGH FINITE ORDER. <i>Portugaliae Math.</i> 3 : 1-62 (1942)	270
25. A THEOREM ON UNITARY REPRESENTATIONS OF SEMISIMPLE LIE GROUPS. (I. E. SEGAL and J. v. N.) <i>Ann. Math.</i> 52 : 509-517 (1950)	332
26. EINE SPEKTRALTHEORIE FÜR ALLGEMEINE OPERATOREN EINES UNITÄREN RAUMES. <i>Math. Nach.</i> 4 : 258-281 (1951)	341
27. SIGNIFICANCE OF LOEWNER'S THEOREM IN THE QUANTUM THEORY OF COLLISIONS. (E. P. WIGNER and J. v. N.) <i>Ann. Math.</i> 59 : 418-433 (1954)	365
28. ON THE PERMUTABILITY OF SELF-ADJOINT OPERATORS. (A. DEVINATZ, A. E. NUSSBAUM and J. v. N.) <i>Ann. Math.</i> 62 : 199-203 (1955)	381
29. THE CROSS-SPACE OF LINEAR TRANSFORMATIONS. II. (ROBERT SCHATTEN and J. v. N.) <i>Ann. Math.</i> 47 : 608-630 (1946)	386
30. THE CROSS-SPACE OF LINEAR TRANSFORMATIONS. III. (ROBERT SCHATTEN and J. v. N.) <i>Ann. Math.</i> 49 : 557-582 (1948)	409
31. MEASURE IN FUNCTIONAL SPACES. (REVIEWED BY I. HALPERIN)	435
32. REPRESENTATION OF CERTAIN LINEAR GROUPS BY UNITARY OPERATORS IN HILBERT SPACE. (REVIEWED BY G. W. MACKEY)	439
33. THE MEAN SQUARE SUCCESSIVE DIFFERENCE. (J. v. N. and R. H. KENT, H. R. BELLINSON, B. I. HART.) <i>Ann. Math. Stat.</i> 12 : 153-162 (1941)	442
34. DISTRIBUTION OF THE RATIO OF THE MEAN SQUARE SUCCESSIVE DIFFERENCE TO THE VARIANCE. <i>Ann. Math. Stat.</i> 12 : 367-395 (1941)	452
35. A FURTHER REMARK CONCERNING THE DISTRIBUTION OF THE RATIO OF THE MEAN SQUARE SUCCESSIVE DIFFERENCE TO THE VARIANCE. <i>Ann. Math. Stat.</i> 13 : 86-88 (1942)	481
36. TABULATION OF THE PROBABILITIES FOR THE RATIO OF THE MEAN SQUARE SUCCESSIVE DIFFERENCE TO THE VARIANCE. (B. I. HART WITH A NOTE BY J. VON NEUMANN.) <i>Ann. Math. Stat.</i> 13 : 207-214 (1942)	484
37. OPTIMUM AIMING AT AN IMPERFECTLY LOCATED TARGET. Appendix to: <i>Optimum Spacing of Bombs or Shots in the Presence of Systematic Errors</i> by L. S. DEDERICK and R. H. KENT, Ballistic Research Laboratory Report 241 (1941)	492
BIBLIOGRAPHY OF JOHN VON NEUMANN	507
COMPLETE CONTENTS OF VOLUMES I TO VI	515

