

## List of research publications of Kazimierz Urbanik.

### 1953

1. (with B. Knaster), *Sur les espaces complets séparables de dimension 0*, Fund. Math. **40** (1953), 194–202.

### 1954

2. *Sur un problème de J. F. Pàl sur les courbes continues*, Bull. Acad. Polon. Sci., Cl. III **2** (1954), 205–207.
3. *Limit properties of homogeneous Markoff processes with a denumerable set of states*, Bull. Acad. Polon. Sci., Cl. III **2** (1954), 371–373.
4. *Quelques théorèmes sur les mesures*, Fund. Math. **41** (1954), 150–162.
5. *Sur la structure non-topologique du corps des opérateurs*, Studia Math. **14** (1954), 243–246.

### 1955

6. *O zbiorach płaskich złożonych z odcinków równoległych (On plane sets composed of parallel segments)*, Roczn. Pol. Tow. Mat., Ser. I, Prace Mat. **1** (1955), 169–173 (English and Russian summaries).
7. (with B. Knaster and J. Mioduszewski), *Points-limites et points de continuité*, Colloq. Math. **3** (1955), 164–169.
8. *Bemerkungen über die mittlere Anzahl von Partikeln in gewissen stochastischen Schauern*, Studia Math. **15** (1955), 34–42.
9. *On quotient-fields generated by pseudo-normed rings*, Studia Math. **15** (1955), 31–33.
10. *O pewnym nieskończonym układzie równań (On a certain infinite system of equations)*, Roczn. Pol. Tow. Mat. Ser. I, Prace Mat. **1** (1955), 253–255 (English and Russian summaries).
11. *Some remarks on the asymptotic behaviour of the cosmic ray cascade for large depth of the absorber I, Estimation of the factorial moments*, II Nuovo Cimento, **4** (1955), supplemento, 1147–1149.
12. *On a stochastic model of a cascade*, Bull. Acad. Polon. Sci., Cl. III **3** (1955), 349–351.
13. (with M. Fisz), *The analytical characterization of the composed non-homogeneous Poisson process*, Bull. Acad. Polon. Sci., Cl. III **3** (1955), 149–150.

## 1956

14. (with M. Fisz), *The analytical characterization of a composed non-homogeneous Poisson process*, *Studia Math.* **15** (1956), 328–336.
15. *Uwagi o równaniach procesów stochastycznych rozgałęzionych (Remarks on the equations of branching stochastic processes)*, *Zeszyty Naukowe Uniwersytetu Wrocławskiego, Seria B*, **1** (1956), 17–26 (English and Russian summaries).
16. (with Z. Łuszczki, J. Mikusiński, J. Wloka and Z. Zieleźny) *Einige Bemerkungen über die Hirschman-Widder'schen Funktionen  $H_{n,k}(x)$* , *Colloq. Math.* **4** (1956), 30–32.
17. *On a problem concerning birth and death processes*, *Acta Math. Acad. Sci. Hungar.* **7** (1956), 99–106 (in Russian, English summary).
18. (with A. Prékopa and A. Rényi), *On the limiting distribution of sums of independent random variables in commutative compact topological groups*, *Acta Math. Acad. Sci. Hungar.* **7** (1956), 11–16 (in Russian, English summary).
19. (with A. Zięba), *Prediction of solar activity*, *Archiwum Elektrotechniki*, **5** (1956), 355–364 (in Polish).
20. *Uwagi o maksymalnej ilości bakterii w populacji (Remarks on the maximum quantity of bacteria in a population)*, *Zastosow. Mat.* **2** (1956), 341–348 (English and Russian summaries).
21. *Stochastic processes whose sample functions are distributions*, *Teor. Veroyatnost. i Primenen.* **1** (1956), 146–149 (in Russian).

## 1957

22. *On the limiting probability distribution on a compact topological group*, *Fund. Math.* **44** (1957), 253–261.
23. *Własności graniczne procesów Markowa (Limit properties of Markoff processes)*, *Rozprawy Matematyczne* **13**, Warszawa 1957, 46 pp. (English and Russian summaries).
24. *Remarks on the Doss integral*, *Colloq. Math.* **5**(1957), 95–102.
25. *A limit theorem for a posteriori distributions*, *Bull. Acad. Polon. Sci., Cl. III* **5** (1957), 11–15.
26. (with G. S. Rubinstein), *A solution of an extremal problem*, *Teor. Veroyatn. i Primenen.* **2** (1957), 375–377 (in Russian).

27. *Generalized distributions at a point of generalized stochastic processes*, Teor. Veroyatn. i Primenen. **2** (1957), 483–485 (in Russian).

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28. *Remarks on invariant functions in Markov processes*, Colloq. Math. **5** (1958), 223–230
29. *On a stochastic model of a cascade*, Studia Math. **16** (1958), 237–267.
30. *Generalized stochastic processes*, Studia Math. **16** (1958), 268–334.
31. *Local characteristics of generalized stochastic processes*, Studia Math. **17** (1958), 199–266.
32. (with A. Zięba), *Some methods for the prediction of sunspot numbers*, Contribution to CCIR No 117 (1958).
33. *Poisson distributions on compact Abelian topological groups*, Colloq. Math. **6** (1958), 13–24.
34. *Filtering of stationary generalized stochastic processes*, Science Record (N.S.) **2** (1958), 43–45.
35. *The values at the fixed moment of generalized stochastic processes*, Scientia Sinica **7** (1958), 1–9.
36. *The values at the fixed moment of generalized stochastic processes*, Acta Math. Sinica **8** (1958) 146–152 (Chinese version of [35]).
37. (with S. L. Cheng (Shaw Lian Cheng)), *On the values at the fixed moment of strictly stationary generalized stochastic processes*, Science Record (N.S.) **2** (1958), 47–51.
38. *The conditional expectations and the ergodic theorem for strictly stationary generalized stochastic processes*, Studia Math. **17** (1958), 267–283.
39. *A theorem on distributions integrable with even power*, Studia Math. **17** (1958), 323–333.
40. *Effective processes in the sense of H. Steinhaus*, Studia Math. **17** (1958). 335–348.
41. (with P. Erdős), *On sets which are measured by multiples of irrational numbers*, Bull. Acad. Polon. Sci., Sér. Sci. Math. Astronom. Phys. **6** (1958), 743–748.

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42. *Funkcja Phragmén-Lindelöfa niektórych parzystych iloczynów kanonicznych (On the Phragmén-Lindelöf function of some even canonical products)*, Roczn. Pol. Tow. Mat., Ser. I, Prace Mat. **3** (1959), 185–189 (English and Russian summaries).
43. *On the isomorphism of Haar measures*, Fund. Math. **46** (1959), 277–284.
44. *Uwagi o funkcjach, których transformata Fouriera znika poza ustalonym przedziałem (Bemerkung über Functionen, deren Fouriertransformierte ausserhalb eines konstanten Intervalls verschwinden)*, Zeszyty Naukowe Uniwersytetu Wrocławskiego, Seria B **3** (1959), 71–79 (German summary).
45. *Twierdzenie graniczne o estymacji bayesowskiej, (A limit theorem for a Bayes estimation)*, Roczn. Pol. Tow. Mat., Ser. I, Prace Mat. **3** (1959), 190–200 (English and Russian summaries).
46. *On a problem of S. L. Cheng concerning sequences of functions with  $k$ -th differences*, Ann. Polon. Math. **7** (1959), 33–40.
47. *An effective example of a Gaussian function*, Bull. Acad. Polon. Sci., Sér. Sci. Math. Astronom. Phys. **7** (1959), 343–349.
48. *A representation theorem for Marczewski's algebras*, Bull. Acad. Polon. Sci., Sér. Sci. Math. Astronom. Phys. **7** (1959), 617–619.
49. *Remarks on generalized stochastic processes*, Trans. of the Third Allunion Math. Congress, Moscow 1956, Vol. IV, Izd. AN SSSR, Moscow 1959, 192 (in Russian).
50. (with H. Steinhaus), *Poissonsche Folgen (Leon Lichtenstein zum Gedächtnis)*, Math. Z. **72** (1959), 127–145.

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51. (with M. Ullrich), *A limit theorem for random variables in compact topological groups*, Colloq. Math. **7** (1960), 191–198.
52. (with H. Fast), *A characterization of step functions*, Colloq. Math. **7** (1960), 251–254
53. *Remarks on compactly generated Abelian topological groups*, Colloq. Math. **7** (1960), 187–190.
54. *A representation theorem for Marczewski's algebras*, Fund. Math. **48** (1960), 147–167.
55. *Gaussian measures on locally compact Abelian topological groups*, Studia. Math. **19** (1960), 77–88.

56. *A contribution to the theory of generalized stationary fields*, Transactions of the Second Prague Conference on Information Theory, Statistical Decision Functions, Random Processes 1959, Publ. House of Českoslov. Acad. Sci., Prague 1960, 667–679.
57. (with E. Marczewski), *Abstract algebras in which all elements are independent*, Bull. Acad. Polon. Sci., Sér. Sci. Math. Astronom. Phys. **8** (1960), 291–293.
58. (with F. B. Wright), *Absolute valued algebras*, Bull. Acad. Polon. Sci., Sér. Sci. Math. Astronom. Phys. **8** (1960), 285–286.
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60. *Absolute valued algebras with an involution*, Fund. Math. **49** (1961), 247–258.
61. (with H. Fast), *Extinguishing of a class of functions*, Studia Math. **20** (1961), 69–76.
62. *Generalized stochastic processes with independent values*, Proceedings of the Fourth Berkeley Symposium on Mathematical Statistics and Probability. Vol. II, Univ. California Press (ed. J. Neymann), Berkeley and Los Angeles 1961, 569–580.
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64. *Fourier analysis in Marcinkiewicz spaces*, Studia Math. **21** (1961), 93–102.
65. (with R. S. Ingarden), *Information without probability*, Colloq. Math. **9** (1961), 131–150.
66. (with R. S. Ingarden), *Information as a fundamental notion of statistical physics*, Bull. Acad. Polon. Sci., Sér. Sci. Math. Astronom. Phys. **9** (1961), 313–316.
67. *Joint probability distributions of observables in quantum mechanics*, Studia Math. **21**, (1961), 117–133.

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68. *The principle of increase of entropy for spin operators*, Bull. Acad. Polon. Sci., Sér. Sci. Math. Astronom. Phys. **10** (1962), 353–357.

- 69. (with R. S. Ingarden), *Quantum informational thermodynamics*, Acta Phys. Polon. **21** (1962), 281–304.
- 70. *Generalized stationary processes of Markovian character*, Studia Math. **21** (1962), 261–282.
- 71. *Reversibility in absolute-valued algebras*, Fund. Math. **51** (1962), 131–140.
- 72. (with E. Marczewski), *Abstract algebras in which all elements are independent*, Colloq. Math. **9** (1962), 199–207.
- 73. *The limiting behaviour of indecomposable branching processes*, Studia Math. **22** (1962), 109–126.
- 74. *Some combinatorial constructions in the theory of stochastic processes*, Colloquium on Combinatorial Methods in Probability Theory, Aarhus 1962, 35–39.

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- 75. *A representation theorem for  $v^*$ -algebras*, Fund. Math. **52** (1963), 291–317.
- 76. *Remarks on ordered absolute-valued algebras*, Colloq. Math. **11** (1963), 31–39.
- 77. *Operations on probability measures admitting characteristic functions*, Bull. Acad. Polon. Sci., Sér. Sci. Math. Astronom. Phys. **11** (1963), 165–168.
- 78. *Remarks on independence in finite algebras*, Colloq. Math. **11** (1963), 1–12.

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- 79. *Generalized convolutions*, Studia Math. **23** (1964), 217–245.
- 80. *Prediction of strictly stationary sequences*, Colloq. Math. **12** (1964), 115–129.
- 81. *Relative processes with continuous distribution functions*, Colloq. Math. **12** (1964), 131–146.
- 82. *Remarks on the entropy in quantum mechanics*, Colloq. Math. **12** (1964), 271–276
- 83. *The principle of increase of entropy in quantum mechanics*, Transactions of the Third Prague Conference on Information Theory, Statistical Decision Functions, Random Processes, 1962. Publ. House of Českoslov. Acad. Sci., Prague 1964, 743–764.

84. *On algebraic operations in idempotent algebras*, Bull. Acad. Polon. Sci., Sér. Sci. Math. Astronom. Phys. **12** (1964), 739–742.

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85. *On algebraic operations in idempotent algebras*, Colloq. Math. **13** (1965), 129–157.
86. *A representation theorem for two-dimensional  $v^*$ -algebras*, Fund. Math. **57** (1965), 215–236.
87. *On a class of universal algebras*, Fund. Math. **57** (1965), 327–350.
88. *Remarks on quasi-symmetrical operations*, Bull. Acad. Polon. Sci., Sér. Sci. Math. Astronom. Phys. **13** (1965), 383–386.

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89. *Linear independence in abstract algebras*, Colloq. Math. **14** (1966), 233–255.
90. *Remarks on symmetrical operations*, Colloq. Math. **15** (1966), 1–9.
91. (with S. Fajtlowicz and K. Głazek), *Separable variables algebras*, Colloq. Math. **15** (1966), 161–171.
92. *On some numerical constants associated with abstract algebras*, Fund. Math. **59** (1966), 263–288.
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97. *Some prediction problems for strictly stationary processes*, Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. II, Part I, Univ. California Press, Berkeley and Los Angeles 1967, 235–258.

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99. *Lectures on prediction theory*, Lect. Notes Math. **44**, (Berlin-Heidelberg-New York), Springer-Verlag, 1967, 50 pp.

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101. *A representation of self-decomposable distributions*, Bull. Acad. Polon. Sci., Sér. Sci. Math. Astronom. Phys. **16** (1968), 209–214.
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- 117. *Remarks on the concept of mean value*, Ann. Polon. Math. **29** (1974), 199–206.
- 118. (with J. Kucharczak), *Quasi-stable functions*, Bull. Acad. Polon. Sci., Sér. Sci. Math. Astronom. Phys. **22** (1974), 263–268.
- 119. *Extreme-point methods in probability theory*, Probability and Statistical Methods. Intern. Summer School on the Theory of Probab, and Math. Statistics, Varna 1974, 90–125.

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- 121. *Extreme-point methods in probability theory*, Probability – Winter School. Proceeding 1975. Lecture Notes Math. **472** (Berlin-Heidelberg-New York), Springer-Verlag, 1975, 169–194.
- 122. *Stable symmetric probability laws in quantum mechanics*, Probability – Winter School. Proceeding 1975. Lecture Notes Math. **472** (Berlin-Heidelberg-New York), Springer-Verlag, 1975, 195–206.
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