

Provided for non-commercial research and educational use.  
Not for reproduction, distribution or commercial use.

PLISKA

STUDIA MATHEMATICA  
BULGARICA

ПЛИСКА

БЪЛГАРСКИ  
МАТЕМАТИЧЕСКИ  
СТУДИИ

---

The attached copy is furnished for non-commercial research and education use only.  
Authors are permitted to post this version of the article to their personal websites or institutional repositories and to share with other researchers in the form of electronic reprints.

Other uses, including reproduction and distribution, or selling or licensing copies, or posting to third party websites are prohibited.

For further information on  
Pliska Studia Mathematica Bulgarica  
visit the website of the journal <http://www.math.bas.bg/~pliska/>  
or contact: Editorial Office

Pliska Studia Mathematica Bulgarica  
Institute of Mathematics and Informatics  
Bulgarian Academy of Sciences  
Telephone: (+359-2)9792818, FAX:(+359-2)971-36-49  
e-mail: [pliska@math.bas.bg](mailto:pliska@math.bas.bg)



**Y. A. TAGAMLITZKI**  
**(A short biographical note)**

Yaroslav-Roman Alexandrovitch Tagamlitzki was born on Sept. 17, 1917 in Armavir, Russia. His family emigrated to this country in 1921. After graduating in 1936 from the Second Boys' High School in Sofia he entered the then Physico-Mathematical Department of Sofia University as a student in mathematics and completed his studies there in 1940. From 1940 to 1942 he was an assistant at the Mathematical Institute (then the mathematical division of the department) of the University. The time 1942-1943 Tagamlitzki spent as a postgraduate in Leipzig under P. Koebe and B. L. van der Waerden, where he got his PhD [4].

Back in Bulgaria Tagamlitzki did his army service and in 1945 was again assistant at the Chair on Differential and Integral Calculus of the University under Kyrille Popoff (1880-1966). Successively he was elected Privatdozent (1947) and Associate Professor (1949). After the retirement of Popoff in 1954, Tagamlitzki became full Professor and headed the chair until the reform in 1970. In 1961 he was elected Corresponding Member of the Bulgarian Academy of Sciences. After the foundation in the fifties of an Institute of Mathematics at the Academy he was heading also its Section on Functional Analysis. The reform of 1970 that fused the sections of the Academy and the chairs of the University brought him the position of the head of the new Sector of Functional and Real Analysis at the Centre of Mathematics and Mechanics and he remained in this position until his sudden and premature death on Nov. 28, 1983.

For his research achievements Tagamlitzki was awarded in 1947 with the Prize of the Committee for Science, Art and Culture, in 1952 with the Dimitrov Prize for his study on the Abel interpolation series 21. He received twice the "Cyrille and Methodius" order and was also awarded the title Merited Scientist in 1982.

Tagamlitzki's talent made him a brilliant high-school and university student. Then appeared his first publications [1, 2, 3].

The lifework of Tagamlitzki began with his papers during the period 1946-1952; where he started studying a variant of the notion of extreme point in general spaces. Already in that early period he used the term 'irreducible' element. His investigations led him to an independent discovery of a variant of Krein-Milman's theorem. Later on, he generalized these ideas for topological spaces and introduced his so-called 'topological induction'.

Through his efforts functional analysis became a flourishing branch of mathematics in Bulgaria\*.

\*For more details on Tagamlitzki's very original approach see: P. Russev and I. Čobanov (Eds.), *Bulgarian Mathematicians*, Sofia, 1987, 231-259; D. Skordev, *Physico-Math. J.*, 26, 1984, 214-255; D. Skordev et al. (Eds.), *Y. Tagamlitzki — Scientist and Teacher*, Sofia, 1986 (All three publications in Bulgarian).

The influence of Tagamlitzki's work and personality during the period 1950-1970 was predominant in the Bulgarian mathematical community. First of all, he was a born teacher. His devotion to lecturing was moulding the younger generation and his charismatic personality had a great attractive power. His famous seminar for university students and young people was a focus of the postwar development of pure mathematics in this country. Almost every creative Bulgarian mathematician emerging in the fifties was in one or another way linked with Tagamlitzki's seminar(s). He is also author of the first modern Bulgarian textbook on calculus (first edition in 1954, sixth in 1978) [30]. He was the first to deliver courses on real functions, integral equations, algebraic topology, Fourier series and the theory of distributions. His very popular lectures on Functional analysis were always based on his current research interests.

Tagamlitzki was one of the most widely educated people not only in the mathematical community. He was not only fluent in all modern international languages but was an expert in many ancient ones. He had systematic and profound interests in archeology, linguistics and theoretical medicine. But at the same time he was an introvert and a modest man. He did not show up much at international fora and did not leave enough written material on his extramathematical investigations. His unique, witty and charming personality will always stay in the memory of those who had the privilege to know him.

The Editors

#### BIBLIOGRAPHY OF Y. TAGAMLITZKI

1. Върху теоремата за крайните нараствания. *Спис. Физ.-мат. д-во*, 24, 1938, № 3—4, 95—98.
2. Обобщение на теоремата за крайните нараствания. *Спис. Физ.-мат. д-во*, 24, 1939, № 5—6, 173—189.
3. Едно свойство на сумируемите функции в Lebesgue'ов смисъл. *Юб. сб. Физ.-мат. д-во*. Ч. 2. София, 1939, 73—74.
4. Zum allgemeinen Kreisnormierungsprinzip der konformen Abbildung. *Sitzungsberichte der Sächsischen Akademie der Wissenschaften, Mathematisch-Physikalische Klasse*, 95, 1943, 111—132.
5. Integration von Folgen. *Math. Ann.*, 119, 1943, 550—563.
6. Върху една задача от елементарната теория на вероятностите. *Спис. Физ.-мат. д-во*, 30, 1946, № 1—2, 59—61.
7. Функции, които удовлетворяват известни неравенства върху реалната ос. *Annuaire Univ. Sofia, Fac. Phys.-Math.*, 42, 1945/1946, livre 1, 1946, 239—255. Summary: Funktionen, die auf der reellen Achse gewissen Ungleichungen genügen. *Ibid.*, 256.
8. Върху сходимостта на интеграли с безкрайна горна интеграционна граница (jointly with Chr. Christov). *Annuaire Univ. Sofia, Fac. Phys.-Math.*, 42, 1945/1946, livre 1, 1946, 289—307. Summary: On the convergence of integrals with an infinite upper limit of integration. *Ibid.*, 308—310.
9. Sur les suites vérifiant certaines inégalités. *C. R. Acad. Sci.*, Paris, 223, 1946, 940—942.
10. Кратки исторически бележки върху развитието на диференциалното и интегралното смятане. — В: К. Попов. Учебник по диференциално и интегрално смятане. 4 изд. София, 1947, 465—479.
11. Върху редици, които удовлетворяват на някои неравенства. *Annuaire Univ. Sofia, Fac. Phys.-Math.*, 43, 1946/1947, livre 1, 1947, 193—232. Summary: Über Zahlenfolgen, die gewissen Ungleichungen genügen. *Ibid.*, 233—237.
12. Об интегрировании последовательностей функций. *Доклады АН СССР*, 57, 1947, № 1, 17—19.
13. Об абсолютно сходящихся рядах Дирихле. *Доклады АН СССР*, 57, 1947, № 9, 875—878.
14. Об абсолютно сходящемся интеграле Лапласа. *Доклады АН СССР*, 58, 1947, № 2, 197—200.

15. Sur l'équation intégrale de Stieltjes. *C. R. Acad. Sci., Paris*, 225, 1947, 976—978.
16. Sur la majoration de certaines transformées intégrales. *C. R. Acad. Sci., Paris*, 225, 1947, 1053—1055.
17. Изследване на една класа от функции. *Annuaire Univ. Sofia, Fac. Sci.*, 44, 1947/1948, livre 1, 1948, 317—355. Summary: Recherches sur une classe de fonctions. *Ibid.*, 356.
18. а) Sur une propriété de la fonction exponentielle. *C. R. Acad. Bulg. Sci.*, 1, 1948, No 1, 33—34; б) Върху едно свойство на показателната функция. — В: Ярослав Тагамлицки — учен и учител. София, 1986, 103—105.
19. Върху някои приложения на общата теория на линейните пространства с частично нареждане. *Annuaire Univ. Sofia, Fac. Sci.*, 45, 1948/1949, livre 1, 1949, 263—285. Summary: Sur quelques applications de la théorie générale des espaces vectoriels partiellement ordonnés. *Ibid.*, 286.
20. О функциях, производные которых удовлетворяют некоторым неравенствам. *Доклады АН СССР*, 75, 1950, № 3, 337—340.
21. Изследвания върху Абелевия интерполационен ред. *Annuaire Univ. Sofia, Fac. Sci.*, 46, 1949/1950, livre 1, 1950, 385—440. Summary: Über die Abelsche Interpolationsreihe. *Ibid.*, 441—443.
22. Об одном обобщении ряда Абеля. *Доклады АН СССР*, 80, 1951, № 1, 17—20.
23. Теорема Минковского об отделяющих плоскостях в пространствах Гильберта. *C. R. Acad. Bulg. Sci.*, 4, 1951, No 2—3, 5—8. Summary: Übertragung der Minkowskischen Stützebenensatzes auf Hilbertsche Räume. *Ibid.*, 8.
24. Лекции по диференциално и интегрално смятане. София, 1951 (mimeographed).
25. Върху геометрията на конусите в Хилбертовите пространства. *Annuaire Univ. Sofia, Fac. Phys.-Math.*, 47, 1950/1951 — 1951/1952, livre 1, partie 2, 1952, 85—106. Summaries: О геометрии конусов в пространствах Гильберта; Zur Geometrie des Kegels in den Hilbertschen Räumen. *Ibid.*, 107.
26. Об интерполационном ряде Ньютона с неотрицательными коэффициентами. *Доклады АН СССР*, 87, 1952, № 2, 183—186.
27. Обобщение одной теоремы Минковского. *Успехи мат. наук.*, 7, 1952, № 3 (48), 180—183.
28. Изследване на вектори, които са неразложими относно някои конуси. *Bull. Inst. Math. Acad. Sci. Bulg.*, 1, 1963, 57—68. Summary: О неразложимости относительно некоторых конусов. *Ibid.*, 68.
29. Върху едно обобщение на понятието за неразложимост. *Annuaire Univ. Sofia, Fac. Phys.-Math.*, 48, 1953/1954, livre 1, partie 1, 1954, 69—84. Summary: Обобщение понятия о неразложимости. *Ibid.*, 85. The paper is reprinted in: Ярослав Тагамлицки — учен и учител. София, 1986, 109—127.
30. Диференциално и интегрално смятане. София, 1 изд. — 1954; 2 изд. — 1957. The next editions are in two books: Диференциално смятане, Интегрално смятане; 3 изд. — 1962 (Диференциално смятане), 1963 (Интегрално смятане); 4 изд. — 1967; 5 изд. — 1971; 6 изд. — 1978.
31. а) Неразложимые элементы и их приложения. Краткое содержание секционных докладов Болгарской математической сессии (София, 27. VIII—3. IX. 1956) 20—22; б) Die irreduziblen Elemente und ihre Anwendungen. Kurze Inhaltsübersicht der Sektionsvorträge der Bulgarischen Mathematikertagung (Sofia, 27. VIII—3. IX. 1956), 43—44; в) Неразложимите елементи и техните приложения. — В: Ярослав Тагамлицки — учен и учител. София, 1986, 106—108.
32. Допълване на конуси и приложение към проблемата за обобщение на понятието функция. I. *Annuaire Univ. Sofia, Fac. Phys.-Math.*, 49, 1954/1955, livre 1, partie 1, 1956, 23—48. Summary: Дополнение конусов и приложение к задаче обобщения функций. I, *Ibid.*, 48.
33. Допълване на конуси и приложение към проблемата за обобщение на понятието функция. II. *Annuaire Univ. Sofia, Fac. Phys.-Math.*, 49, 1954/1955, livre 1, partie 2, 1956, 41—54. Summary: Дополнение конусов и приложение к задаче обобщения функций. II. *Ibid.*, 54.
34. Допълване на конуси и приложение към проблемата за обобщение на понятието функция. III. *Annuaire Univ. Sofia, Fac. Phys.-Math.*, 50, 1955/1956, livre 1, partie 1, 1957, 135—163. Summary: Дополнение конусов и приложение к задаче обобщения функций. III. *Ibid.*, 163.
35. Върху една категория интерполационни редове на Гончаров и свързаните с тях пространства и конуси. *Bull. Inst. Math. Acad. Sci. Bulg.*, 2, livre 2, 1957, 163—177. Summaries: Об одной категории интерполационных рядов Гончарова и связанных с ними пространствах и конусах. *Ibid.*, 178; Über die mit gewissen Interpolationsreihen von Gontscharoff zusammenhängenden Räume und Kegel. *Ibid.*, 179.
36. Върху някои интерполационни развятия на регулярно монотонните функции. *Bull. Inst. Acad. Sci. Bulg.*, 3, livre 2, 1959, 187—200. Summaries: О некоторых интерполя-

- ционных развитиях регулярно монотонных функций. *Ibid.*, 201—202; Über die Abel-Gontscharoffschen Entwicklungen der regulär monotonen Funktionen. *Ibid.*, 203—204.
37. Изследване на една класа обобщени функции (joint with D. Doitchinov). *Annuaire Univ. Sofia, Fac. Phys.-Math.*, 52, 1957/1958 livre 1, 1959, 23—94. Summary: О некотором классе обобщенных функций. *Ibid.*, 94—95.
38. Върху неразложимите елементи на някои конуси от аналитични функции. *Bull. Inst. Math. Acad. Sci. Bulg.*, 6, 1962, 51—59. Summaries: О неразложимых элементах некоторых конусов аналитических функций. *Ibid.*, 59; Die irreduziblen Elemente gewisser Kegel von analytischen Functionen. *Ibid.*, 60; The first part of the paper is reprinted under the title „Ново доказателство на теоремата на Риман за конформното изображение“ in: Ярослав Тагамлицки — учен и учител. София, 1986, 128—133.
39. О методе крайних точек. *Studia Math., Ser. spec.*, 1963, No 1, 129—130.
40. Върху принципа за отделимост в абелевите асоциативни пространства. *Bull. Inst. Math. Acad. Sci. Bulg.*, 7, 1963, 169—181. Summaries: Об условиях отделимости в абелевых ассоциативных пространствах. *Ibid.*, 182; Über die Trennbarkeitsbedingungen in den abelschen assoziativen Räumen. *Ibid.*, 183.
41. Об одном обобщении теоремы Минковского, Крейна и Милемана. ICM, Moscow, 1966, Abstracts, Section 5: Functional Analysis, 75.
42. О топологической индукции. *Second Congress of the Bulgarian Mathematicians* (Varna, 29. VIII—7. IX. 1967), Abstracts, 141—142.
43. О топологической индукции. *Труды Международного симпозиума по топологии и ее применениям*. Херцег-Нови, 25—31. 8. 1968, Югославия, Београд, 1969, 308—309.
44. L'induction topologique (prepared for publication by M. Dehen), *Sémin. Choquet. Fac. Sci. Paris*, 10, 1970/1971, No 1, 1/01—1/07.
45. Акад. Кирил Попов (1880—1966) — деведесет години от рождението му. — В: Вселена '70. София, 1971, 10—13.
46. Об одном обобщении так называемой формулы Стокса. *Third Congress of the Bulgarian Mathematicians* (Varna, 6—15. IX. 1972). Summaries: part 1, 184—186.
47. Върху модернизирването на материала по математика в средните училища чрез въвеждане на ефордиката. *Математика и физика*, 1973, № 6, 6—8.
48. Sur le principe du maximum. — In: *Mathematical Structures, Computational Mathematics, Mathematical Modelling*. Sofia, 1975, 471—477.
49. Някои въпроси за преподаването на математиката в средното училище. *Mathematics and Education in Mathematics. Proc. of the Third Spring Conf. of the Bulg. Math. Soc.* (Bourgas, 2—4. 4. 1974), Sofia, 1976, 87—93. Reprinted in: Ярослав Тагамлицки — учен и учител. София, 1986, 159—167.
50. A boundary value problem in linear spaces. *C. R. Acad. Bulg. Sci.*, 29, 1976, No 3, 307—309.
51. Лекция и творчество. *Mathematics and Education in Mathematics. Proc. of the Seventh Spring Conf. of the Union of Bulg. Mathematicians* (Sunny Beach, 5—8. 4. 1978), Sofia, 1978, 114—124. Reprinted in: Ярослав Тагамлицки — учен и учител. София, 1986, 222—232.
52. Познавахме се почти половин век. *Математика*, 1980, № 3, 11—14.
53. A generalization of the Cauchy-Riemann equations. *International Conference on Complex Analysis and Applications* (Varna, September 20-27, 1981), 185.
54. The diagonal principle for generalized sequences. *ICM-82*, Warsaw, 1983, Short communications (Abstracts), Section 9: Real and Functional Analysis, part 1, 22.
55. Един метод за изграждане на елементи от диференциалното и интегралното смятане без граничен преход (prepared for publication by V. Čakalov). — In: Ярослав Тагамлицки — учен и учител. София, 1986, 170—221.
56. Методически указания за подпомагане самостоятелната работа по диференциално и интегрално смятане на студентите задочници по математика и физика. — В: Ярослав Тагамлицки — учен и учител. София, 1986, 233—251.
57. The principle of topological induction (prepared for publication by O. Kounchev). *Annuaire Univ. Sofia, Fac. Math.-Mec.*, 80 (1991), 49—53.
58. A diagonal principle for generalized sequences and some its applications (prepared for publication by D. Skordev). *Serdica*, 16, 1990.