"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N.Ya.

Matrix elements of irreducible unitary representations of a group of Lobachevskii space motions and generalized Fock-Mehler transformations. Dokl. AN SSSR 118 no.2:219-222 Ja '58.

(MIRA 11:4)

1.Voyenno-inzhenernaya akademiya im. V.V. Kuybysheva. Predstavleno akademikom V.A. Fokom.

(Geometry, Non-Euclidean)
(Transformations (Mathematics))

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VIDENKIN, N. YA.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N.YA.

BUKHSHTAB, A.A., prof.; VILENKIN, N.Ya., prof.; PILENKO, N.D., dots; NOVIKOV, P.S., prof.; PEREPELKIN, D.I., prof.; LEVIN, V.I., red.; KREYS, I.G., tekhn.red.

[Programs of pedagogical institutes; analytic geometry, mathematical analysis, methods of mathematical physics] Programmy pedagogicheskikh institutov; analiticheskaia geometriia, matematicheskii analiz, metody matematicheskoi fiziki. [Moskva] Uchpedgiz, 1957. 12 p. (MIRA 11:3)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i srednikh pedagogicheskikh uchebnykh zavedenii.
(Geometry, Analytic--Study and teaching)
(Mathematics--Study and teaching)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. Ya.

AUTHOR: VILENKIN, N.Ya. 42-6-5/17

TITLE: On a Generating Function for the Polynomials of Jacobi (O proizvodyashchey funktsii dlya mnogochlenov Yakobi)

PERIODICAL: Uspekhi Matematicheskikh Nauk, 1957, Vol.12, Nr.6, pp.137-142 (USSR)

ABSTRACT: The author considers the functions $P^l_{mn}(\mu)$, being connected with the Jacobi polynomials, with the definition

$$i^{|m-n|}\sqrt{\frac{(l-n)!(l+n)!}{(l-m)!(l+m)!}}\,P^l_{mn}(\mu) = \left(\frac{1-\mu}{2}\right)^{\frac{\alpha}{2}}\left(\frac{1+\mu}{2}\right)^{\frac{\beta}{2}} P_s^{\alpha\beta}(\mu),$$

where $\alpha = |m-n|$, $\beta = |m+n|$, $s = l - \frac{\alpha+\beta}{2}$, l integral or semi-integral, and also m and n, $-l \leq m \leq l$, $-l \leq n \leq l$ and $P_s^{\alpha\beta}(\mu)$ are Jacobi polynomials.

By considering the representations of the group SO(3) the author obtains the relation:

$$\left(z\cos\frac{\theta}{2} - i\sin\frac{\theta}{2}\right)^{l+n}\left(-iz\sin\frac{\theta}{2} + \cos\frac{\theta}{2}\right)^{l-n} = \sum_{m=-l}^{l} A^l_{mn}(\cos\theta)\,z^{l+m},$$

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

On a Generating Function for the Polynomials of Jacobi 42-6-5/17

where

$$A^{l}_{mn}(\mu) = \sqrt{\frac{(l+n)!(l-n)!}{(l+m)!(l-m)!}}\; P^{l}_{mn}(\mu).$$

By considering several special cases ($z=1$ etc.) the author obtains a series of partially known (Clebsch and others), partially new properties of the Jacobi polynomials. 3 Soviet and 1 foreign references are quoted.

SUBMITTED: September 10, 1956
AVAILABLE: Library of Congress

Card 2/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN N.Ya.

AUTHOR: VILENKIN N.Ya. (Moscow) 39-4-6/9

TITLE: On the Theory of Adjoint Spherical Functions on Lie Groups (K teorii prisoyedinennykh sfericheskikh funktsiy na gruppakh Li)

PERIODICAL: Mat.Sbornik 1957, Vol.42, Nr.4, pp.485-496 (USSR)

ABSTRACT: An adjoint spherical function of the unitary irreducible representation of a Lie group with respect to the irreducible representations of its compact subgroups is defined as a certain matrix. These functions are in certain close relations to the zonal spherical functions of Gel'fand Ref.[1,2]. The author's principal results are already announced in a somewhat changed form (Doklady Akad.Nauk, 1956, Vol.111,Nr.4), The obtained theorems are similar to the theorems on adjoint spherical functions of Godement (Trans.Amer.Math.Soc. 1952, Vol.73,Nr.3) obtained in an other way.

Four Soviet and 1 foreign references are quoted.

SUBMITTED: May 3, 1956

AVAILABLE: Library of Congress

Card 1/1

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N.Ya.; KUZNETSOV, G.I.; SMORODINSKIY, Ya.A.

Eigenfunctions of a Laplaca operator giving effect to the group representations U(2), SU(2), SO(3), U(3), SU(3), and the symbolic method. IAd. fiz. 2 no.5:906-917 N '65.

(MIRA 18:12)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. Ya.

Pabota nakhoditsya v pechati. K teorii pryamykh razlozheniy topologicheskikh grupp. DAN, 47 (1945), 635-637.

Pryamyye razlozheniya topologicheskikh grupp, 1. Matem. sb., 19 (61), (1946), 85-154.

Pryamyye razlozheniya topologicheskikh grupp, 11. Matem. sb., 19 (61), (1946) 311-340.

Ob odnom klasse polnykh ortogonal'nykh sistem. IAN, 11 (1947), 363-398.

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A.G.,
Markushevich, A.I.,
Rashevskiy, P.K.
Moscow-Leningrad, 1948

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. YA

PA 21T70

USSR/Mathematics - Series, Fourier Jun/Aug 1947
Mathematics - Group Theory

"On a Class of Complete Orthogonal Systems," N. Ya Vilenkin, 38 pp

"Iz Ak Nauk SSSR, Seriya Matematicheskaya" Vol II, No 4

Consideration is given to the Fourier series in a periodic enumerable abelian group X that is ordered, in a zero-dimensional compact abelian group G. A study is made of Dirichlet's kernel and Lebesque's function of X, Lebesque's functions L_n of the system X are constant.

21T70

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. Y.

Vilenkin, N. Ya. On the theory of general topological groups. [illegible] Akad. Nauk SSSR (N.S.) 58, 1573-1575 (1947). (Russian)

This note begins with a proof of the following lemma. Let G be a discrete Abelian group, H a subgroup. Suppose, further, that T is an infinitely divisible group (i.e., $nT = T$, for every integer n) such that there exists an isomorphic mapping f of H into T. Then there exists a mapping g of G into $G \times T \times G$, tG, is isomorphic to the factor group G/H such that $g(G) \cap T = f(H)$. The isomorphism [illegible]

[illegible] a general topological Abelian group. Then there exists a Hausdorff topological group G' and subgroup H' (not necessarily closed) such that $G = G'/H'$. For definitions of terms, there is a reference to S. Eilenberg and S. MacLane [Ann. of Math. (2) 43, 757-781 (1942); in particular, p. 761; these Rev. 4, 88].

Source: Mathematical Reviews, Vol 7 No. 7

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. YA. DOC PHYSICOMATH SCI

Dissertation: "Investigations on the Theory of topological Abel Groups

15 Jun 49

Moscow Order of Lenin State U imeni M.S. Lomonosov

SO Vecheryaya Moskva
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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. Ya.

Vilenkin, N. Ya. On the theory of "unitary orthogonal systems." Izvestiya Akad. Nauk SSSR. Ser. Mat. 13, 245–252 (1949). (Russian)

Let X be a countable Abelian torsion group and let G be its compact character group. Then the members of X constitute a complete orthonormal set of functions on G. The "unitary" systems considered by the author are subsets ψ of X constructed in the following manner. Choose an ascending sequence $X_0 \subset X_1 \subset X_2 \subset \cdots$ of subgroups of X such that X_0 is the identity, X_{n+1}/X_n is cyclic of prime order and $X = \bigcup_{n=1}^{\infty} X_n$. Choose a single element ψ_n from each $X_n - X_{n-1}$. Let $\psi = \{\psi_0, \psi_1, \psi_2, \cdots\}$. The bulk of the present paper is devoted to a proof of the following generalization of a known theorem for the Rademacher functions. If the series $\sum_{n=0}^{\infty} \alpha_n$ converges then $\sum_{n=0}^{\infty} \alpha_n \psi_n$ belongs to L^q for all q. When X is the direct product of countably many replicas of the group of order two then almost all of G may be mapped onto almost all of the unit interval in such a manner that the members of X become the Walsh functions and the members of ψ the Rademacher functions. A number of other theorems about the Rademacher functions are similarly generalized to theorems about the systems ψ. Detailed proofs are for the most part omitted.

G. W. Mackey (Nancy).

Source: Mathematical Reviews, Vol 10, No. 10

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. Ya.

Vilenkin, N. Ya. Fibered Abelian topological groups and their character theory. Mat. Sbornik N.S. 24(66), 1[illegible]-226 (1949) (Russian)

In earlier papers [Rev. Math. [Mat. Sbornik] N.S. 19(61), 311–340 (1946); Mat. Sbornik N.S. 22(64), 135–177 (1948); these Rev. 8, 312, 9, 497] the author has introduced and studied the notions of [illegible] Abelian group to be fibered [illegible] identity, is locally compact [illegible] countability, and is such that [illegible] separable. Here a group is locally weakly [illegible] admits a weakly separable open subgroup [illegible] quotient.

The author's discussion of fibered [illegible] four parts. Sections [illegible] properties of fibered [illegible] discrete" and "quasi compact" groups. Typical theorems [illegible] closed subgroup of a fibered group is a fibered group [illegible] group is the direct sum of [illegible] and a fibered group whose component of the identity is compact. A continuous homomorphism of a fibered group on a fibered group is open. Section 3 deals with an extension of the Pontrjagin duality theory to fibered groups. The group of characters of a fibered group is a fibered group [illegible] considers pairs G, T consisting of a fibered group [illegible] the union of its compact subgroups and [illegible] torsion-free group T. Conditions are obtained under which every fibered extension of G by T is the direct sum of G and T. This problem for discrete groups has been considered by [illegible] [Ann. of Math. 2, 37, 766–781 (1936)]. [illegible] problem in which G is compact, connected and [illegible] dimensional [illegible] groups of various kinds are [illegible]

G. W. Mackey (Nancy)

Source: Mathematical Reviews, Vol 10, No. 10

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N Ya

Vilenkin, N. Ya. On a method of constructing topological groups. Dokl. Akad. Nauk SSSR (N.S.) 65 (1949), [illegible]

Suppose [illegible] the [illegible] Fourier da[illegible] Some Ampl[illegible] 193[illegible] of [illegible] by A[illegible] [illegible] [illegible] [illegible]

Source: Mathematical Reviews, [illegible]

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN N. Ya.

Vilenkin, N. Ya. The theory of topological groups. II. Direct products. Direct sums of groups of order 1. Locally compact Abelian groups. Fibered and weakly separable groups. Uspehi Matem. Nauk (N.S.) 5, no. 4(38), 19-74 (1950). (Russian)

Nominally the continuation of a two-part report on topological groups [see the preceding review; this part [illegible] independent of the first paper [illegible] tory essay on topics named in the title containing very many details and a number of [illegible] independently.

An introduction reviews the brief history, and sketches the contents of the paper. Part I is concerned with the idea of a direct product of an arbitrary number of topological groups and is devoted to [illegible] (1948; these Rev. 10, 233) is followed in part. Part II analyzes the structure of certain classes of groups which are direct sums, the first part of the paper, for the sake of generality, frequently permits groups to be non-Abelian [illegible] groups of rank 1, there are a variety of cases according [illegible] one or more of the four types of groups of rank 1 are admitted as factors. Part III is on the algebraic theory of locally bicompact Abelian groups with [illegible] the null-dimensional [illegible] groups for [illegible] for various classes [illegible] group can be recognized as [illegible] 20 [illegible] generalizing work of [illegible] (1939). Part IV is on the [illegible] with the [illegible] weakly separable [illegible] author [illegible] 24 66, 189 226 (1949) [illegible] the paper reviewed [illegible]

Source: Mathematical Reviews, Vol [illegible], No. [illegible]

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. Ya. PA 163T14

USSR/Mathematics - Topology Jul/Aug 50
Groups

"Classification of Separable and Co-Separable Topological Abelian Groups," N. Ya. Vilenkin, Moscow

"Matemat Sbor" Vol XXVII (69), No 1, pp 85-102

Constructs system of invariants for co-separable and separable groups (see W. Krull's "Uber Separable, Insbesondere Kompakte Separable Gruppen" in "J. Reine und Angew Math," 184, 1942, pp 19-48. Submitted 4 Mar 48.

163T14

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. Ya.

"Direct Spectra of Topological Abelian Groups and Their Theory of Characters," Usp. Mat. Nauk Vol. 6 No. 4 (44), pp 193-220, 1951.

U-1635, 16 Jan 52

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

189T59

USSR/Mathematics - Theory of Characters Sep/Oct 51

"Theory of Characters of Topological Algebraic Groups With Assigned Boundedness," N. Ya. Vilenkin

"Iz Ak Nauk SSSR, Ser Matemat" Vol XV, No 5, pp 439-462

Considers groups in which, besides topology, boundedness is introduced, that is, indicates class of sets called bounded. For groups with given boundedness, constructs theory of characters, particular cases of which theory being the

189T59

USSR/Mathematics - Theory of Characters (Contd) Sep/Oct 51

classical theory of characters of L. S. Pontryagin and the theory of conjoint linear spaces. Cf. Sze-Tsen Hu, "Boundedness in a Topological Space," Jour Math pures et appl, 28, 1949, 287-320. Submitted by Acad A. N. Kolmogorov, 9 Dec 50.

189T59

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

Vilenkin, N. Ya.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

USSR/Mathematics - Group Theory, Compact Abelian May/Jun 51

"Classification of Null-Measure Locally Compact Periodic Abelian Groups Without Elements of Finite Order," N. Ya. Vilenkin, Moscow

"Matemat Sbor" Vol XXVIII, No 3, pp 503-536

Previous works have given necessary and sufficient conditions that group G prime relative to p and of type NL with closed and compact subgroup recorded in it be expanded into direct sum of groups of rank 1. Thought naturally arises whether similar theory for locally compact groups of type NL can be constructed. This problem reduces

186T55

USSR/Mathematics - Group Theory, Compact Abelian (Contd) May/Jun 51

to the case where group G is prime modulo p, which can have 2 extreme cases: G has no elements of finite order; the set of elements of finite order is everywhere dense in G. Discusses 1st case, and obtains complete results. Submitted 22 Sep 49.

186T55

VILENKIN, N. Ya.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

USSR/Mathematics - Compact Groups Jul/Aug 51

"Concerning the Existence of Locally Compact Groups With Assigned Ulmovski Factors," N. Ya. Vilenkin, Moscow

"Matemat Sbor" Vol XXIX (71), No 1, pp 13-30

Vilenkin initiates investigation of the problem on the classification of locally compact zero-measure abelian groups in which the set of elements of finite order is everywhere dense. Constructs for such groups a system of groups similar to the Ulmovski factors of discrete

189T63

USSR/Mathematics - Compact Groups Jul/Aug 51
(Contd)

groups, after which he isolates the class of groups for which these factors are the direct sums of cyclic groups and solves the problem on the existence of groups of indicated class with given system of factors. Submitted 12 Oct 49.

189T63

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. Ya.

USSR/Mathematics - Compact Groups Jul/Aug 51

"Isomorphism of Locally Compact Null-Measure Abelian Groups With Ismorphic Factors," N. Ya. Vilenkin, Moscow

"Matemat Sbor" Vol XXIX (71), No 1, pp 31-62

Demonstrates that pairs consisting of completely correctly stratified groups of the type P, such that G. $\overline{\infty/G/}$ and for all a's the subgroups Ga are servant in G, are assigned uniquely proper factors and thus are described with the aid of numerical invariats. Submitted 19 Nov 49.

189T64

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Source: Mathematical Reviews, No.5

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. Ya.

N. Ya. Vilenkin. Direct decompositions of topological groups. III. Mat. Sbornik N.S. 29(71), 519-528 (1951).

A group is called of type *LD* (limit of inverse spectrum of discrete groups) if it has a complete set of neighborhoods of e consisting of invariant subgroups and if it is complete in the sense of Raikov or, equivalently in this case, the sense of Weil. The groups actually studied in this note are abelian. Theorem 1: For a topological abelian group G to be a topological direct sum of a countable set of infinite cyclic groups it is necessary and sufficient that 1) G is *LD*, 2) every discrete factor group of G has a finite set of generators, 3) every element of G generates an infinite discrete subgroup, 4) G satisfies the 2nd countability axiom. Theorem 2: For G to be the direct sum of a countable set of cyclic groups, whether finite or infinite, it is necessary and sufficient that it have properties 1), 2), and 4) above and also 3') in the subgroup H of elements which generate bicompact subgroups of G there is an everywhere dense set of elements of finite order.

A discrete group is said to have rank n (in the sense of Prüfer) if every finite set of elements of G lies in a subgroup generated by no more than n elements. Theorem 3: For G to decompose into a direct sum of a countable set of additive groups of rational numbers each taken in the discrete topology it is necessary and sufficient that 1) G is a limit group of an inverse spectrum of infinitely divisible discrete abelian groups of finite rank, and 2) for every sequence [illegible] of elements of G and sequence of numbers [illegible] the relation $\lim m_n x_n = 0$ implies $\lim x_n = 0$. A final theorem combines these with earlier results on decompositions into sums of groups of type p^∞.

L. Zippin.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. Ya.

184T54

USSR/Mathematics - Topology, Normal Divisors in 11 Feb 51

"Generalized Normal Divisors of Topological Groups," N. Ya. Vilenkin

"Dok Ak Nauk SSSR" Vol LXXVI, No 5, pp 625-628

In the theory of topol groups no mutually unique correspondence between homomorphisms and normal divisors that is suitable for discrete groups holds. Only open homomorphisms and closed normal divisors are connected by this correspondence. But development of tropol algebra and its application to combinatorial topol has now led to

184T54

USSR/Mathematics - Topology, Normal Divisors in (Contd) 11 Feb 51

necessity for dealing with nonclosed normal divisors and nonopen homomorphisms. Vilenkin attempts, by suitable widening of concept of normal divisor of topol group, the above-mentioned correspondences. Submitted 11 Dec 50 by Acad A. N. Kolmogorov.

184T54

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. Ya.

USSR/Mathematics - Kernel, Orthogonal May/Jun 52

"Theory of Orthogonal Kernels," N. Ya. Vilenkin

"Uspekh Matemat Nauk" Vol VII, No 3 (49), pp 63-82

Discusses series-expansion of functions according to orthogonal systems of functions, integral eqs, eigenfunctions, etc., in the case where the kernel K(x;y) does not generate completely continuous operators; that is, the theory of "singular" integral eqs with orthogonal kernels, in analogy with the Hilbert-Carleman theory of sym kernels.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. YA.

Functions

Several almost orthogonal systems of functions. Prikl.mat, i mekh. 16 No. 3 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952, Uncl.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. YA.

Mathematical Reviews
Vol. 14 No. 7
July - August 1953
Analysis

Vilenkin, N. Ya. On the theory of Fourier integrals on topological groups. Mat. Sbornik N.S. 30(72), 233-244 (1952). (Russian)

In a previous paper [Izvestiya Akad. Nauk SSSR, Ser. Mat. 11, 363-400 (1947) (cited as V.); these Rev. 9, 224] the author generalized the theory of Fourier series to certain compact groups. This paper is an analogous generalization of the theory of Fourier integrals to locally compact separable zero-dimensional groups all of whose cyclic subgroups have compact closure. As was done in V. an ordering is introduced in the group G so that $\int_A^B f(g)dg$ (with respect to Haar measure) becomes meaningful. Using these definitions the author obtains various theorems analogous to familiar ones in the classical theory of Fourier integrals [e.g., Titchmarsh, Introduction to the theory of Fourier integrals (cited as T.), Oxford, 1937, Theorem 62]. Much interest is focused on theorems about everywhere and almost everywhere convergence of Fourier integrals; special instances of this problem (in connection with Plancherel's theorem) are reduced to the case treated in V. Finally, the paper applies the foregoing to a proof of the Plancherel theorem similar to that found in T., p. 82; and to the uniqueness proof of the Fourier transform.

G. K. Kalisch (Minneapolis, Minn.)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

SANSONE, G.; VILENKIN, N.Ya.[translator].

[Ordinary differential equations] Obyknovennye differentsial'nye uravneniia] Vol 1. [Translated from the Italian by N.IA. Vilenkin] Perevod s ital'ianskogo N.IA.Vilenkina s predisloviem V.V.Nemytskogo. Moskva, Izd-vo inostrannoi lit-ry. 1953. 346 p. (MLRA 7:7)
(Differential equations)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N.YA.

Mathematical Reviews
Vol. 14 No. 10
Nov. 1953
Topology

7-13-54
LL

Vilenkin, N. Ya. Vector spaces over topological fields. Mat. Sbornik N.S. 32(74), 195–208 (1953). (Russian)

Let P be a locally bounded topological field, with a distinguished bounded neighborhood V of 0. Let X and Y be respectively the complete direct sum and the weak direct sum of $\aleph$ copies of P. X is awarded the Cartesian product topology. The general neighborhood of 0 in Y is defined as follows: given a set $\{a_i\}$ of elements in P, we take all $\{b_i\}$ in Y satisfying the condition that $\sum c_i b_i \in V$ for any set $\{c_i\}$ with $c_i V \subset a_i V$. The chief purpose of this paper is to characterize abstractly these two spaces. One begins with a topological linear space G over P, and it is assumed outright that the finite-dimensional subspaces of G are homeomorphic to the Cartesian product of copies of P (this is automatically satisfied when P is the field of real numbers). A neighborhood W of 0 is called V-convex if for any x not in W there exists a continuous functional sending W but not x into V. A topology on G is locally V-convex if it has a V-convex base; it is linearly discrete if it is the strongest of all locally V-convex topologies. G is linearly topologized if every neighborhood of 0 contains a closed subspace H such that G/H is linearly discrete. The author proves that a linearly discrete space is (for a suitable $\aleph$) isomorphic to Y, and a linearly compact linearly topologized space is isomorphic to X. The paper concludes with a discussion of locally linearly compact spaces and the appropriate considerations of duality. In a note added in proof it is observed that Kaplan proved essentially the same results in the case where P is the field of real numbers [see the paper reviewed above].

I. Kaplansky (Chicago, Ill.).

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. YA.

USSR/Mathematics - Group Theory, Finite Order Jul/Aug 53

"Isolation of a Subgroup of Finite-Order Elements as the First Term in Type-P Groups," N. Ya. Vilenkin, Moscow

Mat Sbor, Vol 33 (75), No 1, pp 37-44

Author previously classified certain forms of zero-measure locally compact Abelian groups with the second axiom of countability, which are primary relative to a certain prime p (so-called type-P groups). Specifically, considered the case $\infty[G]=0$,

271T80

designating the subgroup consisting of the finite-order elements, and studied groups for which $\overline{\infty[G]}=G$. States that the principal role in the classification was played by the chain of subgroups $G = G = G_1 = \ldots = G_w = \ldots = G_t$, a role similar in definition to the Ul'movskiy subgroups of a discrete group. Here the author considers the case $\infty[G/\overline{\infty[G]}]=0$. Presented 11 Jan 52.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N.YA.

SANSONE, G.; VILENKIN, N.Ya. [translator]; KAMYNIN, L.I., redaktor; KORNILOV, B.I., tekhnicheskiy redaktor

[Ordinary differential equations] Obyknovennye differentsial'nye urovneniia. Perevod s ital'ianskogo N.IA.Vilenkina. Moskva, Izd-vo inostrannoi lit-ry. Vol. 2. 1954. 415 p. (MLRA 7:10)
(Differential equations)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N.YA.

VILENKIN, N.Ya.

Generalization of normal divisors of topological groups and their application to combinatorial topology. Trudy Mosk.mat.ob-va 3:15-88 '54. (MLRA 7:7)

(Groups, Theory of) (Topology)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

USSR/Mathematics - Compacta .

Card 1/1

Author : Vilenkin, N. Ya. (Moscow)

Title : Contribution to the classification of zero-measure locally compact Abelian groups with everywhere dense set of elements of finite order

Periodical: Mat. sbor., 34 (76), 55-80, Jan/Feb 1954

Abstract : Extension of the author's previous four works on the classification of zero-measure locally compact groups, which appeared in Mat. sbor. 1950-1951. Cites his two early (1946, 1948) works on the expansion of topological groups.

Submitted : June 11,1952

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N.Ya.; IAGLOM, I.M.

"Arithmetic of natural numbers." [professor] I.K.Andronov. Reviewed by N.Ia.Vilenkin, I.M. Iaglom. Usp.mat.nauk. 10 no.2:225-228 '55. (MIRA 8:8)
(Arithmetic) (Andronov, Ivan Koz'mich, 1894-)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N.Ya.

Bessel's functions and representations of a group of Euclidean motions. Usp.mat.nauk 11 no.3:69-112 My-Je '56. (MLRA 9:9)
(Bessel's functions) (Groups, Theory of) (Transformations (Mathematics))

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. Ya.

"On the Theory of Adjoined Spherical Functions," by N. Ya. Vilenkin, Military Engineering Academy imeni V. V. Kuybyshev, Doklady Akademii Nauk SSSR, Vol 111, No 4, 1956, pp 742-744 submitted 28 Nov 55

The work presents a generalization of some results of the theory of spherical functions on groups derived by I. M. Gel'fand, R. Godement, and F. A. Berezin.

With the theorem which is derived, it is possible to establish the equivalence of the application of Laplace operators to the coordinates of the "center" and the coordinates of the "complex radius" for matrices, resulting from the averaging of certain type matrices by "spheres."

Sum 1258

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N.Ya.; YAGLOM, I.M.

Teaching mathematics in pedagogic institutions. Usp.mat.nauk 12 no.2(74):199-209 Mr-Ap '57. (MLRA 10:7)
(Mathematics--Study and teaching)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N.Ya.; AKIM, E.L.; LEVIN, A.A.

Matrix elements and properties of irreductible unitary representations of a group of Euclidean three-dimensional space motions. Dokl.AN SSSR 112 no.6:987-989 F '57. (MLRA 10:5)

1.Voyenno-inzhenernaya akademiya im. V.V. Kuybysheva. Predstavleno akademikom A.N. Kolmogorovym.
(Matrices) (Motion)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N.Ya.

The matrix elements of irreducible unitary representations of the group of real orthogonal matrices and group of euclidean (n -1) dimensional space motions. Dokl. AN SSSR 113 no.1:16-19 Mr-Ap '57. (MLRA 10:6)

1. Predstavleno akademikom A.N. Kolmogorovym.
(Matrixes) (Spaces, Generalized)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

ACCESSION NR: AP4037594 S/0056/64/046/005/1793/1808

AUTHORS: Vilenkin, N. Ya.; Smorodinskiy, Ya. A.

TITLE: Invariant expansions of relativistic amplitudes

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1793-1808

TOPIC TAGS: Laplace transformation, eigenfunction, relativity, hyperbolic equation, cone, Fourier series

ABSTRACT: In order to make use of the geometrical properties of the manifold on which relativistically invariant functions are defined, and in order to make use of the intuitive reasoning that can result from the use of geometric constructions, the authors consider the problem of expanding relativistic functions in series and integrals of eigenfunctions of the Laplace operator in Lobachevskiy space. The problem consists in studying the Laplace operator on a double-sheeted hyperboloid (or the angular part of the d'Alambert operator)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

ACCESSION NR: AP4037594

in various coordinate systems. The systems of eigenfunctions constructed are generalization of nonrelativistic systems (spherical, cylindrical, and Cartesian). A fourth orthogonal system, called spherical, has no counterpart in nonrelativistic mechanics. The connection between the expansions obtained here and expansions of functions on a cone is demonstrated. By replacing the analysis of functions on a hyperboloid with an analysis of functions on a cone, the expansions obtained are in general not unitary, but become unitary for certain values of the quantum numbers. Orig. art. has: 84 formulas and 1 figure.

ASSOCIATION: Moskovskiy gosudarstvenny*y zaochny*y pedagogicheskiy institut (Moscow State Extension Pedagogical Institute); Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 21Nov63 DATE ACQ: 09Jun64 ENCL: 00

Card 2/3

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

ACCESSION NR: AP4037594

SUB CODE: MA, GP NR REF SOV: 012 OTHER: 002

Card 3/3

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N.Ya.; SMORODINSKIY, Ya.A.

Invariant expansions of relativistic amplitudes. Zhur. eksp. i teor. fiz. 46 no.5:1793-1808 My '64. (MIRA 17:6)

1. Moskovskiy gosudarstvennyy zaochnyy pedagogicheskiy institut i Ob"yedinennyy institut yadernykh issledovaniy.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

ACC NR: AM6009947 Monograph UR/

Vilenkin, Naum YAkovlevich

Special functions and the theory of group representations (Spetsial'nyye funktsii i teoriya predstavleniy grupp) Moscow, Izd-vo "Nauka", 1965. 588 p. biblio., index. 12,225 copies printed.

TOPIC TAGS: group theory, function theory, special function, group representation

PURPOSE AND COVERAGE: The theory of special functions is set forth from a unified standpoint with the aid of the theory of representations of groups. This book is based on the work of E. Cartan who discovered the connection between special functions and representations of groups and continued by such mathematicians as I. M. Gel'fand and M. A. Neymark. The approach used here permits obtaining, in a unified manner, all possible relationships between special functions, both previously known and new. The work does not cover the motion group in n-dimensional quasi-Euclidean space and contains little material on asymptotic properties of special functions. The book is intended for mathematicians, theoretical and experimental physicists, scientists in technical fields, also graduate and senior undergraduate students. The exceptionally large bibliography (303

Card 1/4 UDC 517.56

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

ACC NR: AM6009947

titles, including 100 books) on this subject is a noteworthy addition.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

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Ch.VI. Representations of the group QU (2) of unimodular quasi-unitary second-order matrices and Legendre and Jacobi functions - 288

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

ACC NR: AM6009947

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SUB CODE: 12/ SUBM DATE: 23Nov65/ ORIG REF: 179/ OTH REF: 126

Card 4/4

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

L 26686-66 EWT(d) IJP(c)

ACC NR: AP6016899 SOURCE CODE: UR/0367/65/002/005/0906/0917

AUTHOR: Vilenkin, N. Ya.; Kuznetsov, G. I.; Smorodinskiy, Ya. A.--Smorodinsky, Ya. A.

ORG: none

TITLE: Laplace operator eigenfunctions which realize the representations of the groups U(2), SU(2), SO(3), U(3) and SU(3), and a symbolic method

SOURCE: Yadernaya fizika, v. 2, no. 5, 1965, 906-917

TOPIC TAGS: Laplace equation, algorithm

ABSTRACT: The article presents a graphic method of solution of multidimensional Laplace equations which is applicable for both unitary and orthogonal groups. The use of symbols allows the formulation of a simple algorithm for writing the equations in new variables and solving them. The solutions obtained are used to realize the representations of the groups U(2), SU(2), SO(3), U(3), and SU(3). Orig. art. has: 69 formulas. [JPRS]

SUB CODE: 12 / SUBM DATE: 06Apr65 / ORIG REF: 003 / OTH REF: 002
SOV REF: 003

Card 1/1 BLG

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, Naum Yakovlevich; BRYANDINSKAYA, A.R., red.

[Special functions and the theory of group representations] Spetsial'nye funktsii i teoriia predstavlenii grupp. Moskva, Nauka, 1965. 588 p. (MIRA 19:1)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

L 45809-65 EWT(d)/T IJP(c)

ACCESSION NR AM4043734 BOOK EXPLOITATION S/ 30 B+1

Vilenkin, N. YA.; Gorin, YE. A.; Kostyuchenko, A. G.; Krasnosel'skiy, M. A.; Kreyn, S. G.; Maslov, V. P.; Mityagin, B. S.; Petunin, YU. I.; Rutitskiy, YA. B.; Sobolev, V. I.; Stetsenko, V. YA.; Faddeyev, L. D.; Tsitlandze, E. S.

Functional analysis (Funktsional'nyy analiz), Moscow, Izd-vo "Nauka", 1964, 424 p. biblio., index. Errata slip inserted. 17,500 copies printed. Series note: Spravochnaya matematicheskaya biblioteka.

TOPIC TAGS: functional analysis, mathematics, operator equation, quantum mechanics, Hilbert space, Banach space, linear differential equation

PURPOSE AND COVERAGE: This issue in a series of Handbooks of the Mathematical Library contains much material grouped basically around the theory of operators and operator equations. It presents the basic concepts and methods of functional analysis, theory of operators in Hilbert space and in conical space, the theory of nonlinear operator equations, the theory of standard rings applied to equations in partial derivatives, to integral equations. A separate chapter is devoted to the basic operator of quantum mechanics. Citing of the theory of generalized functions takes up a large part of the book. The book explains mathematical facts; theorems and formulas, as a rule, are given

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ACCESSION NR AM4043734

without proofs. Main attention is given to concepts without excessive detail. The book is intended for mathematicians, mechanical engineers, and physicists. It contains much of value for students and graduate students.

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Ch. III. Linear differential equations in Banach space -- 146
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Ch. V. Operators in space with a cone -- 229
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SUBMITTED: 06Feb64 SUB CODE: MA

NO REF SOV: 038 OTHER: 012

Card 2/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N.Ya. (Moskva)

Hypergeometric function and representations of a group of real matrices of second order. Mat. sbor. 64 no.4:497-520 Ag '64. (MIRA 17:11)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N.Ya., prof., doktor fiziko-matematicheskikh nauk

Conformal projections similar to the Chebyshev projection. Izv. vys. ucheb. zav.; geod. i aerof. no.5:79-89 '61. (MIRA 15:3)
(Map projection)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N. Ya.

SUBJECT USSR/MATHEMATICS/Algebra CARD 1/1 PG - 439
AUTHOR VILENKIN N.Ja.
TITLE Bessel functions and representations of the Euclidean motion group.
PERIODICAL Uspechi mat.Nauk 11, 3, 69-112 (1956)
reviewed 12/1956

The author considers those properties of the Bessel functions which are connected with the group of motions of the Euclidean plane. At first G_2 and its representations are treated. The consideration of the matrix elements of the representations leads to Bessel functions and their most elementary properties - theorem of addition. From this the theorem of multiplication is obtained, recurrence formulas are derived and finally the differential equations for the Bessel functions are established. Apart from this the theorem of multiplication is obtained from the product of representations. The connection between the Bessel functions and the homomorphisms of some subrings of the group ring of G_2 is investigated. The connection with the Jacobian functions is mentioned. Finally some further similar questions are treated (traces of irreducible representations of G_2, infinitesimal operators of G_2, decompositions into irreducible representations etc).

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

ERDNIYEV, Pyurvya Muchkayevich; VILENKIN, N.Ya., prof., retsenzent; NAZAREVSKIY, G.A., uchitel', retsenzent; ROMANIN, M.I., uchitel', retsenzent; OBUKHOVSKAYA, Ye.N., uchitel', retsenzent; MOLCHANOV, M.P., red.; KREYS, I.G., tekhn.red.

[Comparison and generalization in the teaching of mathematics; manual for teachers] Sravnenie i obobshchenie pri obuchenii matematike; posobie dlia uchitelei. Moskva, Gos.uchebno-pedagog. izd-vo, 1960. 149 p. (MIRA 13:12)
(Mathematics--Study and teaching)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N.Ya.; SHVARTSBURD, S.I. (Moskva)

Problems related to the explanation of exponential and logarithmic functions. Mat.v shkole no.4:41-43 Jl-Ag '60. (MIRA 13:9)
(Functions, Exponential)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, N.Ya.

On the theory of positively defined generalized kernels. Usp.mat. nauk 15 no.3:139-146 My-Je '60. (MIRA 13:10)
(Functions)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, [illegible] ([illegible])

[illegible] of the law of [illegible] [illegible] path time). Avtom. i telem. 26 no.7:[illegible] [illegible] '65. (MIRA 18:8)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

16(1),16(2)

05797
SOV/52-4-4-8/13

AUTHOR: Vilenkin,S.Ya.

TITLE: On the Estimation of a Mean in Stationary Processes

PERIODICAL: Teoriya veroyatnostey i yeye primeneniya, 1959, Vol 4, Nr 4, pp 451-453 (USSR)

ABSTRACT: Theorem: Let the correlation function $R(\tau)$ of a stationary process have bounded derivatives of first and second order and satisfy the condition $\int_0^T R(\tau)(1-\frac{2\tau}{T})d\tau>0$. The mathematical expectation M_ξ of the process is determined on the interval 0 to T according to the method of the arithmetic mean with a discrete uniform realization. Then there always exists a finite number N of points for which the dispersion of the estimation reaches a minimum, i.e. the variance of the estimate $m_{N+1} = \frac{1}{N+1}\sum_{i=0}^{N}\xi(\frac{i}{N}\cdot T)$ of a mean of the stationary process $\xi(t)$ attains its minimum for some finite N.

SUBMITTED: May 7, 1959

Card 1/1

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, V. L.

Berdyansk spit. Izv. Vses. geog. ob-va 94 no.6:499-501 N-D '62. (MIRA 16:1)

(Berdyansk spit—Geology)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

15-1957-10-13714

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10, p 43 (USSR)

AUTHOR: Vilenkin, V. L.

TITLE: Modern Glaciation in the Basin of the Ardon River (Northern Ossetia) /Sovremennoye oledeneniye basseyna reki Ardon (Severnaya Osetiya)/

PERIODICAL: Izv. Severo-Osetinsk. n-i in-ta, 1956, vol 17, pp 299-320

ABSTRACT: The area of modern glaciation in the Ardon river basin makes up 5.6% of the total area of the basin. An unbroken belt of glaciers and perennial snow is found in the Bokovoy Range along the Ardon River. Smaller glaciers occur on the slopes of the Vodorazdel'nyy Range. It is shown that the development of glaciation is strongly influenced by the relief of the northern slope and by the exposure to prevailing winds and to the sun. Valley glaciers occupy no more than 5% of the area glaciated. Hanging glaciers, cirque glaciers, firn fields, and re-

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

15-1957-10-13714

Modern Glaciation in the Basin of the Ardon River (Northern Ossetia)

sidual (regenerated) glaciers are the most common forms. Thermokarst is widely present. Avalanches are important as a source of supply for the glaciers. Since the 1860's and 1870's the glaciers have retreated and the small firn fields have disappeared. The valley glaciers decreased by the shortening of their lengths. The relief forms that are covered by ice are preserved from destruction. The surface exposed in the zone of perennial snows is broken up by frost action. Modern glaciation exhibits a decisive influence on relief in the high-mountain zone. Fragmental material coming from the slopes is transported along the valley by the glaciers. Melt waters from the valley glaciers are an essential factor in supplying the rivers of the Ardon basin. A knowledge of modern glaciation is important in the study of the problems of ancient glaciation in the region. It is also of great practical value to study the conditions of glaciation in order to permit better use of the stream waters in

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

15-1957-10-13714

Modern Glaciation in the Basin of the Ardon River (Northern Ossetia)

the fight against floods, for the requirements of agriculture, and so forth. To do this, groups of stations should be established for the study of all the large glaciers of Ossetia.

A. A. Popov

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

AGIBALOVA, V.V.; VILENKIN, V.L.

Gergeti Glacier. Izv. Vses. geog. ob-va 93 no.4:330-334 Jl - Ag '61. (MIRA 14:7)

(Chkheri Valley--Glaciers)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, V.L.

Several suggestions for directing the work of geographers in putting the law on the preservation of nature into practice. Izv. Vses. geog. ob-va 94 no.4:319-320 Jl-Ag '62. (MIRA 15:9)
(Conservation of natural resources)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

AGIBALOVA, V.V.; VILENKIN, V.L.

The Devdorak glacier. Izv. Vses. geog. ob-va 94 no.4:339-343 Jl-Ag '62. (MIRA 15:9)

(Terek Valley—Glaciers)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, V.L.

Probability of ancient piedmond glaciations in the Northern Caucasus, based on the example of North Ossetia. Izv. Vses. geog. ob-va 96 no.6:509-515 N-D '64 (MIRA 18:1)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

AGIBALOVA, V.V.; VILENKIN, V.L.

The Mayly Glacier and some other glaciers of the Gizel'don River Basin. Izv. Vses. geog. ob-va 94 no.1:70-75 Ja-F '62. (MIRA 15:3)

(Gizel'don Valley--Glaciers)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, V.L.

Formation of contemporary relief in the coastal area of the northern Azov region. Geog.sbor. no.10:133-141 '58. (MIRA 12:1)

(Azov region--Coast changes)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, V.L.

Some new data on mud and stone flows and flash floods in Ossetia and Kheva. Soob. AN Gruz. SSR 20 no. 2:179-186 F '58. (MIRA 11:7)

1. Khar'kovskiy gosudarstvennyy universitet im. A.M. Gor'kogo. Predstavleno akademikom A.N.Dzhavakhishvili.
(Georgia--Floods)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

Vilenkin, V.L.

VILENKIN, V.L., kand.geograf.nauk; KOVALEV, P.V., kand.geograf.nauk.

"Oasis" of fossil flora in the Trusovskoye gorge. Priroda 46 no.10:103-105 O '57. (MIRA 10:10)

1. Khar'kovskiy gosudarstvennyy universitet im.A.M.Gor'kogo.
(Terek Valley--Paleobotany)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, V.L.; DUBINSKIY, G.P.; PROKHODSKIY, S.I.

Conference on the study of natural resources in the left-bank area of the Ukraine. Izv.AN SSSR.Ser.geog. no.3:159-162 My-Je '60. (MIRA 13:6)

(Ukraine--Geography, Economic)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, V.L.

AGIBALOVA, Valentina Vasil'yevna; VILENKIN, Vladimir L'vovich; LAVRENT'YEVA, Ye.V., red.; MOGIMA, N.I., tekhn.red.

[Cordilleras] Kordil'ery. Moskva, Gos. izd-vo geogr. lit-ry, 1958. 47 p. (MIRA 11:5)

(North America--Mountains)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

12-90-2-6/30

AUTHORS: Vilenkin, V.L., Gordeyev, P.I. and Demchenko, M.A.

TITLE: In Memory of Nikolay Izmaylovich Dmitriyev (Pamyati Nikolaya Izmaylovicha Dmitriyeva) 1886-1957

PERIODICAL: Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva, 1958, Vol 90, Nr 2, pp 150 - 152 (USSR)

ABSTRACT: Biographical information is presented on Professor Nikolay Izmaylovich Dmitriyev, who, during his lifetime, held the Chair of Regional Physical Geography at Khar'kov University. There is 1 photograph.

AVAILABLE: Library of Congress

Card 1/1 1. Biography

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, V. L.

6530. Vilenkin, V. L. M. V. lomonosov kak geograzh. Kiyev, "Rad.Shkola", 1954. 52 S.S. Portr i Kart. 21 SM. 4.000 ekz 70 k. -- Na Uka. Yaz. --(55-643) 91 (47) (09) & 001(47) (092Lomonosov)

SO: Knizhnaya Letopis' No. 6, 1955

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, V.L.

First geographical data on Ossetia and the Sadon polymetallic deposit (before the beginning of the 19th century). Izv.Vses. geog.ob-va 88 no.3:292-295 My-Je '56. (MLRA 9:9)
(Ossetia--Ore deposits) (Ossetia--Geography)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, Vladimir L'vovich

VILENKIN, Vladimir L'vovich; VAZHENIN, K.A., redaktor; MAL'CHEVSKIY, G.N., ~~redaktor kart;~~ KOSHELEVA, S.M., tekhnicheskiy redaktor.

[Through the Central Caucasus and Western Transcaucasia; travel notes and observations] Po TSentral'nomu Kavkazu i Zapadnomu Zakavkaz'iu; putevye zametki i nabliudeniia. Moskva, Gos.izd-vo geogr. lit-ry, 1955. 263 p. (MIRA 8:4)

(Caucasus--Description and travel)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, V.L.

Preservation of the traces of the Baku and Khazar glaciation on the northern slope of the Greater Caucasus (Northern Ossetia). Izv.Vses.geog.ob-va 96 no.4:313-32 Jl-Ag '64. (MIRA 17:10)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, V.L.; GORDEYEV, P.I.; DEMCHENKO, M.A.

In memory of N.I. Dmitriev. Izv. Vses. geog. ob-va 90 no.2:150-152 Mr-Ap '58. (MIRA 11:5)
(Dmitriev, Nikolai Izmailovich, 1886-1957)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, V.L.

26-10-22/44

AUTHORS: Vilenkin, V.L., Candidate of Geographical Sciences
Kovalev, P.V., Candidate of Geographical Sciences

TITLE: An "Oasis" of Fossil Flora in the Trusov Canyon ("Oazis" iskopayemoy flory v Trusovskom ushchel'ye)

PERIODICAL: Priroda, 1957, No 10, pp 103-105 (USSR)

ABSTRACT: The Trusov canyon opens into the deep valley of Kobiysk which is situated within 19 km of the Kazbegi community in the Georgian SSR. On the right bank of the Terek river, which originates in the canyon, to the south-west of the Okrakany village, the remainder of a stratum of ancient travertines is found. These abound in numerous impressions and cavities which were formed by branches, stems of small trees, brushwood and grassy plants. Here are also found very clear impressions of tree leaves, as of willows, birches, beeches and oaks. Trees of that kind do not grow in the canyon, since it is situated in the zone of subalpine and, higher up, alpine meadows. It can be assumed that the thick stratum of tufa originates from hot mineral springs which brought forth calcium carbonate. These springs, that have been dry for a long period, created favourable conditions for the growth of

Card 1/2

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A "Oasis" of Fossil Flora in the Trusov Canyon

26-10-22/44

the flora whose leaves are found impressed in stone. Their seeds might have been brought to the canyon by the wind, birds or animals.
There are three photos, one drawing and four Slavic references.

ASSOCIATION: Khar'kov State University imeni A. Gorkiy (Khar'kovskiy gosudarstvenniy universitet imeni A. Gorkogo)

AVAILABLE: Library of Congress

Card 2/2

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKIN, V.L., kandidat geograficheskikh nauk.

Unusual flood in northern Ossetia. Priroda 45 no.6:82-85 Je '56. (MLRA 9:8)

1. Khar'kovskiy gosudarstvennyy pedagogicheskiy institut.
(Ossetia--Floods)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

SIKHARULIDZE, I.A., zasl. deyatel' nauki, prof., otv. red.; BERADZE, N.I., dots., otv. red.; ARKHANGEL'SKIY, V.N., prof., red.; ABULADZE, V.A., red.; ANTELAVA, D.N., kand. med. nauk, red.; BOGOSLOVSKIY, A.I., doktor biol. nauk, red.; BUNIN, A.Ya., kand. med. nauk, red.; VILENKINA, A., doktor med. nauk, red.; VISHNEVSKIY, N.A., prof., red.; ZARUBIN, G.S., nauchn. sotr., red.; ITSIKSON, L.Ya., kand. med. nauk, red.; KRASNOV, M.L., zasl. deyatel' nauki, prof., red.; MACHARASHVILI, P.D., zasl. vrach Gruz. SSR, red.; PUCHKOVSKAYA, N.A., prof., red.; RABKIN, Ye.B., prof., red.; RSHZHECHITSKAYA, O.V., kand. med. nauk, red.; ROSLAVTSEV, A.V., st. nauchn. sotr., red.; TARTAKOVSKAYA, A.I., kand. med. nauk, red.; FRADKIN, M.Ya., prof., red.; KHAYUTIN, S.M., prof., red.; CHERNYAKOVSKIY, G.Ya., kand. med. nauk, red.; CHKONIYA, E.A., kand. med. nauk, red.; SHATILOVA, T.A., doktor med. nauk, red.; YAKOVLEV, A.A., nauchn.sotr., red.

[Materials of the Second All-Union Conference of Ophthalmologists] Materialy Vsesoiuznoi konferentsii oftal'mologov. Tbilisi, Respublikanskoe nauchn. ob-vo oftal'mologov Gruz.SSR, 1961. 498 p. (MIRA 18:1)

1. Vsesoyuznaya konferentsiya oftal'mologov, 2d, Tiflis, 1961.
2. Chlen-korrespondent AMN SSSR (for Arkhangel'skiy).

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

GUMILEVSKAYA, S.A.; VILENKINA, A.M.; NAYMARK, M.I.

Organizing the start and accounting in multiple-pattern production processes. Leg. prom. 18 no.3:8-9 Mr '58. (MIRA 11:4)
(Dressmaking)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

ROZENBERG, I.A.; VILENKINA, A.M.; GUMILEVSKAYA, S.A.

The estimate and layout of fabrics can be improved. Leg. prom. 17 no.1:8-9 Ja '57. (MLRA 10:2)

(Textile fabrics)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKINA, A.M.

Organizing finishing shops at clothing factories. Leg. prom. 18 no.8:8-9 Ag '58. (MIRA 11:9)
(Factory management) (Clothing industry)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

AKSEL'ROD, V. S. VILENKIN, S. M.

Factory Management

Competition for excellent accomplishment of each production operation. Leg. prom. 12 no. 7, 1952

9. Monthly List of Russian Accessions, Library of Congress, November 1953, Uncl.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKINA A.M.

CHERNOVA, P.N., inzhener; VILENKINA, A.M., inzhener.

Starching and ironing men's shirts. Leg.prom. 14 no.10:41-43 O '54. (MLRA 7:11)

(Shirts, Men's)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKINA, A.M.

At the All-Union Industrial Exhibition. Leg.prom. 16 no.9:13-16 S '56. (MLRA 9:11)

(Moscow--Exhibitions) (Russia--Manufactures)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

AKSELROD, V. G. - VILENKINA, A. M.

Factory Management

Competition for excellent accomplishment of each production operation. Leg. prom. 12 no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952, Uncl.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

ARIYEVICH, A.M., prof.; VILENKINA, A.Ya., doktor med.nauk; SHAPIRO, Z.I.

Conjunctival and corneal lesions in discoid lupus erythematosus. Vest. derm. i ven. 38 no.6:41-43 Je '64. (MIRA 18:6)

1. TSentral'nyy kozhno-venerologicheskiy institut (dir. - dotsent N.M.Turanov) i Institut glaznykh bolezney imeni Gel'mgol'tsa (dir. - dotsent A.V.Roslavtsev), Moskva.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKINA, A.Ya., doktor med. nauk; SAKSONOVA, Ye.O.; GRIGOR'YANTS, T.N.; ARIYEVICH, A.M., prof.; STEPANISHCHEVA, Z.G., doktor biolog. nauk

Aspergillosis of the cornea. Vest. oft. 76 no.3:55-56 My-Je '63. (MIRA 17:2)

1. Institut glaznykh bolezney imeni Gel'mgol'tsa i TSentral'nyy kozhno-venerologicheskiy institut.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

1124. SIGNS AND SYMPTOMS OF B_6-HYPOVITAMINOSIS IN NORMAL AND TOXAEMIC PREGNANCY (Russian text) - Vilenkina G. J. and Shlyakhtina O. N. Inst. of Biol. and Med. Chem., USSR Acad. of Med. Scis, Moscow - VOPR. MED. KHIMII 1958, 4/6 (425-430) Tables 4 Illus. 1

Confirmatory evidence is reported for the occurrence during normal and toxaemic pregnancy of B_6-hypovitaminosis, progressively increasing towards the end of pregnancy. The pyridoxine deficiency manifests itself by increased excretion of products of incomplete tryptophan catabolism (xanthurenic acid, kynurenine, etc.). Administration of pyridoxine diminishes the excretion of xanthurenic acid and kynurenine to the normal level and eliminates the clinical symptoms of B_6-hypovitaminosis: nausea, vomiting, sialorrhoea, drowsiness (symptoms of toxaemia of the first half of pregnancy), dermatosis, pigmentation, itching, paraesthesia, etc. In the treatment of toxaemia of the first half of pregnancy the best results were obtained by administration of vit. B_6 together with riboflavin. No parallelism has been observed between the clinical symptoms of typical toxaemia of the second half of pregnancy (nephropathy) and biochemical lesions characteristic of

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FRADKIN, M.Ya.; VILENKINA, A.Ya.; ITSIKSON, L.Ya.; VAYNSHTEYN, Ye.S.

Biochemical principles and the differential diagnosis of primary cataracts. Uch.zap. GNII glaz.bol.no.8:7-12'63. (MIRA 16:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut glaznych bolezney imeni Gel'mgol'tsa.
(CATARACT) (DIAGNOSIS, DIFFERENTIAL)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

FRADKIN, M.Ya.; VILENKINA, A.Ya.; ITSIKSON, L. Ya.; VAYNSHTEYN, Ye.S.

Conservative treatment of initial cataracts. Uch.zap. GNII glaz.bol. no.8:84-90'63. (MIRA 16:9)
(CATARACT) (CYSTEINE)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

EXCERPTA MEDICA Sec.12 Vol.12/5 Ophthalmology May 58

VILENKINA, A. Ya.

853. GLAUCOMA IN ORGANIC DISEASES OF THE DIENCEPHALON (Russian text) - Vilenkina A. Ya. - SBORN. INFORM. -METOD. MATERIAL. INST. 1956, 4 (37-41)

Seven patients with glaucoma and suffering from diencephalitis were under observation. Symptoms and signs were: headaches, weakness, disturbances of sleep, exophthalmos, thyrotoxicosis, disturbances of ocular movements, diplopia, autonomic imbalance, abnormal glucose tolerance curve, and inflammatory type of CSF. The course of glaucoma differed from the usual in that the anterior chamber was normal and glaucomatous cupping was absent in all cases. Visual acuity was diminished in 4 cases. Treatment of the infection led to improvement in the general condition, increase in visual acuity and lowering of intraocular tension. A parallel improvement of cerebral and glaucomatous symptoms was noticeable. A second group consisted of 7 chronic cases of irreversible changes in the diencephalon. The glaucomatous process here ran its usual course. The visual functions could be maintained by repeated courses of general therapy and by the use of miotics.

(S)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

[illegible], A. Ya.

Vilenkina, A. Ya. "Hypertensive retinopathy and arteriosclerosis," Sbornik nauch. rabot, posvyashch. pamyati akad. Averbakha, Moscow-Leningrad, 1946, p. 32-36

SO: U-3264, 10 April 1953 (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

BELOSTOTSKIY, Ye.M.; VILENKINA, A.Ya.; FRADKINA, M.Ya., professor, redaktor; AMASHUKELI, M.Ye., redaktor

[The fundus of the eye in hypertonia] Glaznoe dno pri gipertonicheskoi bolezni. Moskva, Trest "Meduchposobie," 1956. 175 p. (MLRA 9:12)
(HYPERTENSION) (EYE)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

VILENKINA, A.Ya.; SHAPIRO, Z.I.; ARIYEVICH, A.M., prof.

Blepharoconjunctivitis and kerato-iritis in discoid lupus erythematosus. Vest. oft. 76 no.3:71-72 My-Je '63. (MIRA 17:2)

1. Nauchno-issledovatel'skiy institut glaznykh bolezney imeni Gel'mgol'tsa TSentral'nyy kozhno-venerologicheskiy institut.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859810013-5

FRADKIN, M.Y., prof.; VILENKINA, A.Ya., doktor med.nauk; ITSLESON, L.Ya., kand.med.nauk; VAYNSHTEYN, Ye.S., nauchnyy sotrudnik

Radiation cataract and its treatment. Vest. rent. i rad. 36 no.4: 83-85 Jl-Ag '61. (MIRA 15:2)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta glaznykh bolezney imeni Gel'mgol'tsa (dir. A.V.Roslavtsev).
(RADIATION SICKNESS) (CATARACT)

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