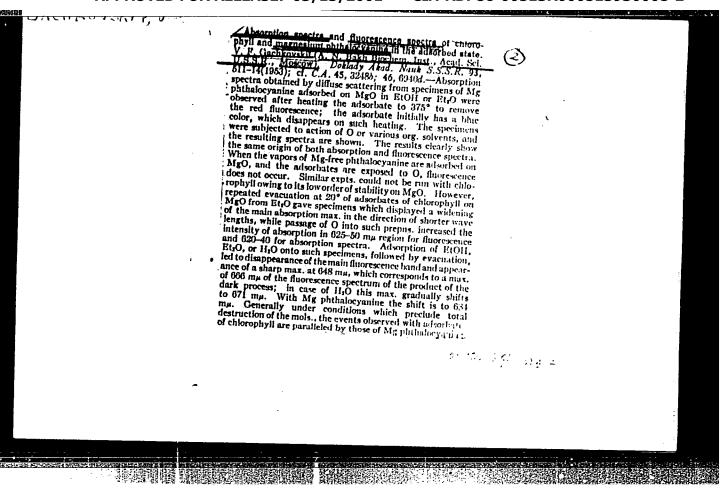


Dextrines

Interaction between proteins and A-dextrines with varying length of terminal molecular branches. Dokl. AN SSR 06, No. 1, 1952.

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



GACHKOVSKIY, V, F.

Category: USCR / Physical Chemistry - Surface phenomena. Adsorption.

Chromatography. Ich exchange.

B-13

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30187

Author : Gachkovskiy V. F.

Inst : Academy or Sciences USSR

Title : Structure of Adsorbates of Magnesium Frthalcoyanin on MgO, Al, 03,

ZnO, Glass and Their Fluorescence.

Crig Pub: Dokl. AN SSSR, 100, No 3, 408-410, 1956

Abstract: By means of the electron microscope a study was made of the distri-

bution of magnesium phthalocyanin (I) at crystal faces of various sorbents (S). At S capable of actively combining with molecules of I, for example at MgO, Al₂O₂, ZnO, a rigorcusty oriented adsorption takes place; shape of the particles is not altered; I is not eluted into solution. On increase of the amount of adsorbate, following repeated consecutive adsorption, there is observed the occurence of increased formations of conglomerated particles coated with the pigment. At this stage there is possible a description of I from

the S, or its sublimation in vacuum. At imactive S (glass or

Card : 1/2 -6-

15 FLY 7 15 (T) 1/1 / 1/5.				
, , , , , , , , , , , , , , , , , , , ,	PRIKHOT KO, A F			
	24/71		-	
	L'vov. Universytet	1164		
11	outselakes.	-		1
. 1	Materialy X Vsescyumogo soveshchaniya po spektroskoj Molekulyarnaya spektroskopiya (Papers of the 10th		•	
. [1
	Conference on Spectroscopy Vol. 1: Molecular Spe fundamental Conference Vol. 1: Molecular Spe printed. (Series: Its: Fizyohny zbirnyk, yp.	etroscopy)		
	Maintain a spinish and	1 A Chaobies	•	
			:	
	Pahethaniy, I.L., Dostor of Physical and Mathematica	Sciences Deceased),		
	Candidate And Mathematica	The state of the s		1
1 31	Candidate of Physical and Methodel Sciences.	Ravaldu a		
: [Candidate of Physical and Mathematical Sciences, Fil A. Ye., Candidate of Physical and Mathematical Sciences, Mathematical Sciences, Mathematical Sciences, Mathematical Sciences, Mathematical Sciences, Mathematical Scien	limovskiy, L.K.		
	Candidate of Physical Sciences and	of Olauberman,		
1	Card 1/30 Rathematical Sole	nees,		
		;		
	Yeliaeyev, Yu. A., L.A. Igonin, and A.N. Shabadash, Yeouum Container for the IKS-1 Infrared Spectro-			
!				f I
	Gashkovskiy, Y.F. Corplex Structure and Mature of the Assorption Speatre and Fluorescence of Magnesium Phtalogyanine and Chlorophyll Gurinovich	371		
	and Kan. Solowyev. Electron Spectra of Chlerophysica and Pheophysica and Martin Spectra of Chlerophysica	372		
	on the Absorption Spectra and Pluorescepes of Meso-derivatives of Arthur and Pluorescepes of	375		
Į.	Zinkei taka	381		
	Pinkel'ahtern, A.I., W.I. Malkina, and G.P. Machin. Absorption Spectra in the Ultraviolet Range and the Molecular Structure of Triazine Derivatives			
	Card 24/30	385		
		aintentur veriden energeneer	The second of the second comments in	STATE OF BUILDING

Nature of elementary photoreactions in the chlorophyll [with summary in English]. Biofizika 2 no.6:756-763 '57. (MIRA 10:12)

1. Institut biokhimii im. A.W. Bakha AN SSSR, Moskva. (CHLOROPHYLL) (LIGHT--PHYSIOLOGICAL EFFECT)

CIA-RDP86-00513R000513930008-2 "APPROVED FOR RELEASE: 03/13/2001

20-119-2-40/60 AUTHOR: \ Gachkovskiy, V. Two Forms of The Discrepancy , of the Conception of .TITLE: Chlorophyll - a Fluorescent and a Non-Fluorescent - With

the Spectral Properties of a Living Leaf (Nescotvetstviye kontseptsiy dvukh form khlorofilla (fluorestsiruyushchey i nefluorestsiruyushchey) spektral'nym svoystvam zhivogo lista)

Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 2, PERIODICAL:

pp# 333-335 (USSR) ***

ABSTRACT: The red shifting of the absorption and fluorescence spectra of chlorophyll in vivo is explained by several authors as the result of the aggregated state of its molecules in the leaf cells. Inspite of the fact that the absorption spectrum in the molecule aggregation is shifted in the direction of long waves while the same spectrum of the living leaf shows a red shifting, the state of the chlorophyll molecules in both of these cases is not at all identical as has been insistingly maintained. According to the opinion of the

author the concepts on the chlorophyll state in vivo are uncorrectly based on the first type of the shifting (ref. 1).

Card 1/4 Moreover, the author gives a critical survey of the opinions

THE REPORT OF THE PERSON OF TH

CIA-RDP86-00513R000513930008-2"

APPROVED FOR RELEASE: 03/13/2001

The Discrepancy of the Conception of Two Forms of 20-119-2-40/60 Chlorophyll - a Fluorescent and a Non-Fluorescent - With the Spectral Properties of a Living Leaf

in technical literature concerning this fact (ref. 1-6). According to this opinion the absorption bands of the aggregated non-fluorescent chlorophyll form should completely cover the not shifted fluorescence band of the moncmer active form in the plant (fig. 18). If it is assumed that a part of the band is not filtered (fig. 1A), the 2nd side maximum of the fluorescence of the monomer form should be in the range of the spectrum corresponding to the molecular solutions, that is at 720 m \mu and 2) the distance between the axes of the absorption band and the bands of the "apparent" main maximum of fluorescence should be decreased (fig. 1 a, quantity a'). However, in nature neither the first nor the second happens. From the following it can be seen that the spectral properties of chlorophyll in the living leaf do not correspond to the above points: The correctness of the rule of reflecting symmetry was proved for complicated spectra of the chlorophyll and of magnesium phthalocyanine having oscillating structure (ref. 5-8). This rule is also valid after various changes of the absorption spectra which take place

Card 2/4

The Discrepancy of the Conception of Two Forms of 20-119-2-40/60 Chlorophyll - a Fluorescent and a Non-Fluorescent - With the Spectral Properties of a Living Leaf

due to chemical conversions of the magnesium complexes in the molecules of these dyes (ref. 6). Thus, all fluorescence bands caused by a red shifting of the absorption spectrum are shifted as a uniform whole in the direction of the long waves at the red shifting of the fluorescence band. This holds good for the whole extent also for the red shifting of the fluorescence spectrum of chlorophyll in vivo (with Hibiscus rosa chinensis, fig. 2, moreover, ref. 4, as compared to the data of tab. 1). These data show that the position of the main maximum of fluorescence in chlorophyll in vivo can be determined with sufficient preciseness according to the position of its side maximum (~738 m ref. 10). The "red shifting" of the latter reflects an actual "red shifting" of the main maximum in vivo. Thus, the shifting of the fluorescence spectrum in the living leaf in the red direction cannot be explained by an apparent shifting caused by a filtering effect. Since the fluorescence spectrum is connected with the absorption spectrum by the rule of mirror symmetry the

Card 3/4

Chlorophyll - a Fluorescent and a Non-Fluorescent - With

Chlorophyll - a Fluorescent and a Non-Fluorescent - With

latter does not reflect the aggregated but the monomolecular state of chlorophyll in living leaf. Thus, the spectral properties of chlorophyll in vivo and in vitro make possible the determination of the monomolecular distribution of the chlorophyll molecules in the leaf cells of plants. Therefore, the concept of the "2 chlorophyll forms" has to be refused. This holds also for that of the "3 chlorophyll forms".

There are 2 figures, 1 table, and 12 references, 5 of which are Soviet.

Auton Fra Dowlet

ASSOCIATION: Institut biokhimii im. A. N. Bakha Akademii nauk SSSR (Institute for Biochemistry imeni A. N. Bakh, AS USSR)

PRESENTED: June 18, 1956, by V. N. Kondrat'yev, Member, Academy

SUBMITTED: January 4, 1957

Card 4/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513930008-2"

derestationes sur services de la company

Discrepancy between conception assuming two forms of chlorophyll (fluorescent and nonfluorescent) and the spectral properties of live leaves. Dokl. AN SSSR 119 no.2:333-335 Mr '58. (MIRA 11:5)

1. Institut biokhimii im. A.N. Bakha AN SSSR. Predstavleno skadenikom V.N. Kondrat'yevym.

(CHLOROPHYLL-SPECTRA) (LEAVES)

Mourescence spectra of photoreduced forms of chlorophyll and pheophytin [with summary in English]. Biofizika 4 no.1:19-26 Ja 159. (MIRA 12:1)

1. Institut biokhimii im. A.N. Bakha AN SSSR, Moskva. (CHLOROPHYLL.

fluorescence spectra of photoreduced forms of chlorophyll & pheophytin (Rus))

THE REPORT OF THE PROPERTY OF

\$/020/60/133/006/008/016 B004/B064

AUTHOR:

Gachkovskiy, V. F.

TITLE:

The Effect of the Molecular Weight on the Luminescence of

High-molecular Compounds

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 6,

pp. 1358-1360

TEXT: The author reports on a qualitative analysis of the fluorescence spectra of polyners. Polyphenylacetylene, poly-p-carboxy phenyl methacrylamide, polystyrene, polymethacrylate, as well as amino acids, desoxymibonucleic acid, and ribonucleic acid were analyzed. The fluorescence excited with a TPK -2 (PRK-2) lamp and a y ϕC -4 (UFS-4) light filter, was recorded on "Paninfra" plates by means of a spectrograph, and the spectrum was measured with an $M\phi$ -4 (MF-4) microphotometer. Fig. 1 (insert after p. 1332) shows the fluorescence spectra of some of the compounds mentioned. The author notes the similarity of the structures of these spectra, which is particularly marked in compounds with conjugate double bonds. The spectra are continuous in the range of Card 1/3

The Effect of the Molecular Weight on the Luminescence of High-molecular Compounds

S/020/60/133/006/008/016 B004/B064

300 - 700 mµ, with constant maxima in the red range and a broad diffuse peak in the blue-violet range. From the change in the spectra of polyphenylacetylene with rising molecular weight (1100, 1300, 1500) as shown in Fig. 2, the author concludes that it is possible to determine the molecular weight of polymers in the solid state on the basis of fluorescence spectra. The changes consist in a bathochromic shift, in a decrease of intensity of the broad blue-violet band, and in an increase of the intensity of the red band with rising molecular weight. The total light intensity of the fluorescence spectrum decreases with increasing molecular weight. The spectra of polystyrene (Fig. 3) with molecular weights of 300,000; 250,000; and 180,000 show the same behavior. The author thanks M. I. Cherkashin and O. G. Sel'skaya for the polyphenylacetylene samples placed at his disposal, and P.Yu.Butyagin, A. M. Dubinskaya and I. O. Kolbanev for polystyrene samples. There are 3 figures and 7 Soviet reference.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences USSR)

Card 2/3

The Effect of the Molecular Weight on the Luminescence of High-molecular Compounds

S/020/60/133/006/006/016 B004/B064

PRESENTED:

April 14, 1960, by V. N. Kondrat'yev, Academician

SUBMITTED:

April 5, 1960

Card 3/3

35570

S/020/62/143/001/025/030 B101/B147

AUTHOR:

Gachkovskiy, V. F.

TITLE:

Universal fluorescence spectra of polymers

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 143, no. 1, 1962, 150 - 152

TEXT: The quantitative examination of the spectra (Fig. 1) was conducted with an 7.77-73 (ISP - 73) sensitometer. The spectra are assumed to reach into the near infrared, an assumption being studied at present. The apparent "shift" of the maxima toward longer waves with increasing molecular weight (MT) is caused by a change in the intensity distribution in non-resolved fluorescence bands (e. g. of the 450 m. maximum). Solution of this problem with an apparatus of higher resolution is necessary. Chain elongation shifts the maximum intensity toward longer waves without affecting the bands. Thus, not the energy, but only the intensity of electron transfers changes. There are 1 figure and 1 Soviet-reference.

Card 1/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513930008-2"

THE PARTY OF THE P

Universal fluorescence ...

S/020/62/143/001/025/030 B101/B147 .

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR .(Institute of Chemical Physics of the Academy of

Sciences USSR)

PRESENTED:

October 16, 1961, by V. N. Kondrat'yev, Academician

SUBMITTED:

October 11, 1961

Fig. 1. Universal fluorescence spectra (in relative equienergetic units). (a) polyphenyl acetylene with average LW: (1) 1200; (2) 1300; (3) 1500 (slit 0.3 mm, exposure 15 min); (6) polystyrenes, MW: (1) 180.000; (2) 250.000; (5) 300.000 (exposure 3 min); (7) poly-para-carbethoxy phenyl-methacryl amice, fractionate MW: (1) 220.000; (2) 355.000; (3) 870.000 (exposure 12 min); (4) polyhexines, MW: (1) 8000 (exposure 24 min); (2) 80.000 (exposure 60 min).

Card 2/3

THE RESERVE TO SERVE THE PROPERTY OF THE PROPE

ACCESSION NR: AT4020715

\$/0000/63/000/000/0253/0259

AUTHOR: Benderskiy, V. A.; Kogan, B. Ya.; Gachkovskiy, V. F.; Shiyapnikova, I. A.;

TITLE: Electrical and magnetic properties of polymers with conjugated bonds.

SOURCE: Karbotsepnywye vywsokomolekulyarnywye soyedineniya (Carbon-chain macromolecular compounds); sbornik statey. Moscow, Izd-vo AN SSSR, 1963, 253-259

TOPIC TAGS: polymer, conjugated polymer, polymer electrical property, polymer magnetic property, polyphenylacetylene, paramagnetic resonance, phenylacetylene

ABSTRACT: This work initiates a study of the nature of paramagentic centers, the mechanisms of conductivity and the relationship between the two characteristics in conjugated polymers. The electron paramagentic resonance spectra, the electrical conductivity and the optical centers were investigated in fractions of the product of thermal polymerization of phenylacetylene (atomic weight 670). The benzeneand toluene-soluble fractions, with atomic weights ranging from 340 to 1870, were obtained by successive sedimentation. In the tests conducted in nitrogen at 90-370 K and, in part, in a 2·10-5 mm vacuum, a 975 kcps IKhF-2 paramagnetic resonance Spectrometer was used. The paramagnetic center concentration and the saturation

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513930008-2"

ACCESSION NR: AT4020715

factor determined from the electron paramagnetic resonance spectra, were found to increase as the molecular weight increases. The duration T₁ of spin-lattice relaxation and its dependence on temperature were determined. The signal intensity in unsaturated electron paramagnetic resonance absorption strictly follows the Curie law, the line center having the Lorentz form and the line wings being described by the Gaussian curve. A form analysis showed that a paramagnetic center contains at most II equivalent protons. It is concluded that the paramagnetism of the polymers stems from small local centers rather than from molecules of the basic substance, the activation energy of dark conductivity is independent of molecular weight, and the carriers' birth results from the thermal ionization of luminescent centers. "In conclusion, we would like to thank L. A. Blyumenfel'd for discussion of our work." Orig. art. has: 4 graphs and 14 formulas.

ASSOCIATION: INSTITUT KHIMICHESKOY FIZIKI AN SSSR (Institute of Chemical Physics,

AN SSSR)

SUBMITTED: 18Ju162 DATE ACQ: 20Mar64 ENCL: 00

SUB CODE: OC : NO REF SOV: 012 OTHER: 004

Card 2/2

EPR/EWP(1)/EPF(c)/EWT(1)/EWT(m)/BDS--AFFTC/ASD--Ps-L/Pc-L/Pr-L--PM/WW L 11216-63

ACCESSION NR: AP3001630

\$/0192/63/004/003/0424/0432

92 11

AUTEOR: Gachkovskiy, V. F.

TITLE: Universal fluorescence of polymers. 1. Results of qualitative measurement

SOUECE: Zhurnal strukturnoy khimii, v. 4, no. 3, 1963, 424-432

TOPIC TAGS: fluorescence of polymers, fluorescence spectra, polyphenylacetylenes, polypropylene, polyethylene, polyvinyl alcohol

ABSTRACT: The fluorescence spectra of the following polymers in solid state was investigated: polyphenylacetylenes, polyhexene, poly-p-diethynylbenzene, poly-p-phenylene, poly-p-xylylene, poly-styrene, polyacrylonitrile, polymethymethacrylate, poly-o- and poly-p-carbethoxyphenylmethacrylamides, polypropylene, polyethylene, polyvinyl alcohol, and polyvinyl chloride. The universal character of their fluorescence spectra was shown as well as the individuality of the dependence of the structural change of the fluorescence spectra on the degree of polymerization. This characteristic leads to the suggested method of determining the molecular weight of polymers of a homologous series by displacement of the blue-violet bands of the fluorescence spectra, or by changing their intensity. "The author expresses

Card 1/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513930008-2"

L 11216-63

ACCESSION NR: AP3001630

appreciation to M. I. Cherkashin, O. G. Sel'skaya, A. A. Slinkin, M. G. Krakovyak, I. V. Kolbanev, P. Yu. Butyagin, N. M. Cherkov, V. I. Tsvetkova and L. N. Raspopov for their gracious provision of polymer samples, and to A. M. Dubinskaya and R. R. Filatova for ultrasonic degradation of polyacrylonitriles." In conclusion, the author expresses deep appreciation to N. N. Semenov for permitting the execution of this work and to L. A. Blumenfel'd for constant interest in it." Orig. art. has: 8 figures and 2 formulas.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics,

SUBMITTED: 04May62

SUB CODE: 00

DATE ACQ: 01Ju163 ENCL:

NO REF SOV: 004

OTHER:

L'61647-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 EM ACCESSION NR: AP:015597 UR/0062/65/000/005/0932/0933 541.67+547.672

AUTHOR: Mulikov, V. F.; Gafurov, Kh. M.; Gachkovskiy, V. F.; Parini, V. P.; Blyumenfel'd, L. A.; Berlin, A. A.

TITLE: Effect of paramagnetic centers on some of the physical properties of anthracene 7

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 5, 1765, 932-933

TOPIC TAGS: anthracene, paramagnetic resonance, electron spin resonance, fluorescence, photoconductivity

ABSTRACI: It has been shown earlier that the presence of local magnetic centers affects the chemical behavior of compounds with conjugated bonds, particularly their reactivity (effect of local activation). The authors found that the presence of magnetic centers also has a considerable effect on the physical properties of such compounds. The soluble paramagnetic fraction (MW \sim 1000, ESR signal intensity 2.6 x 10^{18} spin/g) separated from the thermolysis products of anthracene was introduced into anthracene purified by zone melting. Samples of anthracene doped in this manner contained paramagnetic centers in concentrations. of

Card 1/2

L 61647-55

ACCESSION NR: AP5015597

 10^{10} - 10^{17} spin/g, which corresponds to one unpaired spin for 10^{11} - 10^{7} anthracene molecules. In all samples, light-excited fluorescence and the kinetics of the photoconductivity drop were studied. The relationships obtained indicate that both effects are ine to the same impurity centers. The character of these relationships changes in the range of paramagnetic center concentrations from 10^{11} - 5×10^{12} spin/g.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences, SSSR)

SUBMITTED: 15Feb55

ENCL: 00

SUB CODE: OC.NP

NO REF SON: 001

OTHER: 000

201 2/2

EWT(m)/EPF(c)/EWP(j)/TACCESSION NR: AP5021680 UR/0192/65/006/004/0649 .44 541. 67 AUTHOR: Gafurov, Kh. M.; Mulikov, V. F.; Gachkovskiy, V. F.; Parini Rerlin, A. A. A. Blyumenfel'd, L. A. 41.55 TITLE: Effect of local paramagnetic centers on the optical and photoelectric properties of anthracene A 1165 SOURCE: Zhurnal strukturnoy khimii, v. 6, no. 4, 1965, 649-651 TOPIC TAGS: anthracene, paramagnetism, pyrolysis, optic property, photoelectric property ABSTRACT: Soluble products of the pyrolysis of anthracene at 450C were subjected to thin layer chromatography on aluminum oxide and the fraction with a mean molecular weight of approximately 1000 was separated out. The intensity of the signal in the temperature interval from -15C to 25C obeyed Curie's law. The width of the symmetrical electron paramagnetic resonance line was about 6 oersteds. The elemental composition of the polymer fraction was: C = 92.98%; H=5.06%. The anthracene was purified by zone melting and was blended with the polymer fraction by mixing benzene solutions of both components. After holding for two days, the solution was chilled and the benzene was eliminated in vacuum. Card 1/2

L 1137-66

ACCESSION NR: AP5021680

3

The samples were then evacuated for 8 hours at a vacuum of 10⁻⁶ mm Hg. The electron spectra of the samples, taken in chloroform, were a superposition of the spectra of anthracene and the fraction with paramagnetic centers. Measurements of the fluorescence spectra and of the time characteristics of the decay of the photocurrent indicate that both of these quantities are extremely sensitive to very small amounts of paramagnetic centers. The symbatic change of the yields of fluorescence and photocurrent with a change in the concentration of paramagnetic centers permits the assumption that these centers affect these characteristics by the same mechanism. Orig. art. has: 3 figures

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical

Physics, AN SSSR) 14.55

SUBMITTED: 15Feb65

ENCL: '00

SUB CODE: 00,000

NR REF SOY: 020

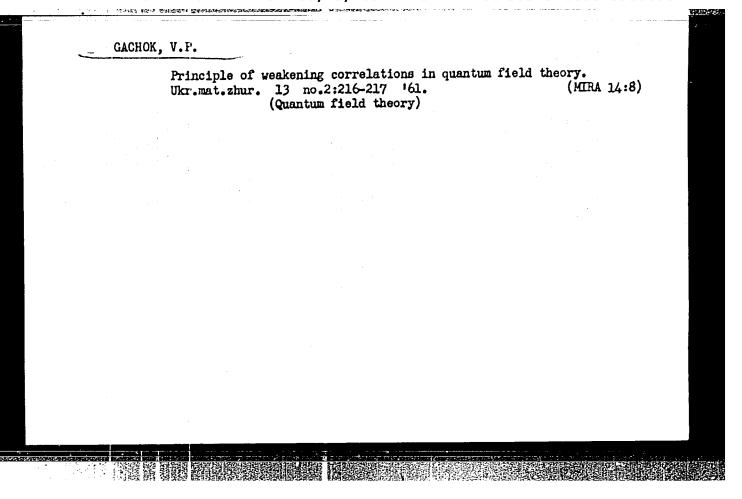
OTHER: 001

Cord 2/2

GAFUROV, Kh.M.; MULIKOV, V.F.; GACHKOVSKIY, V.F.; FARINI, V.P.; BERLIN, A.A.; BLYUMENFEL'D, L.A.

Effect of local paramagnetic centers on the optical and photoelectric properties of anthracene. Zhur. strukt. khim. 6 no. 48 649-651 Jl-Ag *65 (MIRA 19:1)

1. Institut khimicheskoy fiziki AN SSSR. Submitted February 15, 1965.



22141

S/056/61/040/003/021/031 B112/B214

24.45po

AUTHCR:

Gachok, V. P.

TITLE:

Asymptotic behavior of Green's function in quantum field theory

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40,

no. 3, 1961, 879-884

TEXT: N. N. Bogolyubov (Ref.3: Preprint OIYaI, 1960) has formulated a principle for the reduction of the correlation between particles of a system in statistical equilibrium. The present paper gives a generalization and proof of this principle for the quantum field theory. The author starts from a neutral scalar field represented by a Hermitian operator A(x) satisfying causality, translation invariance, and Lorentz invariance. It is assumed that there exists a unique, normalized vacuum state $|0\rangle$ but no state with a negative energy. A system M consisting of n+1 points x_1 is considered which is decomposed into two systems M_1 and M_2 with the points x_1, \ldots, x_1 and x_{i+1}, \ldots, x_{n+1} . If each of these partial systems is Cara 1/3

X

22141

S/056/61/040/003/021/031 B112/B214

Asymptotic behavior of ...

placed in a sphere of finite radius and if these spheres are so moved against each other that the point configurations change only inside the corresponding sphere, a principle analogous to that of Bogolyubov for the reduction of the correlation holds: The vacuum mean value $f(x_1,\ldots,x_{n+1}) = \langle 0 | A(x_1)\ldots A(x_1)A(x_{i+1})\ldots A(x_{n+1})|0 \rangle \text{ is decomposed into a product } \langle 0 | A(x_1)\ldots A(x_i)|0 \rangle \langle 0 | A(x_{i+1})\ldots A(x_{n+1})|0 \rangle \text{ of vacuum mean values if } M_1 \text{ and } M_2 \text{ are at an infinite distance from each other. For the proof, } f(x_1,\ldots,x_{n+1}) \text{ is decomposed into } \langle 0 | A(x_1)\ldots A(x_i)|0 \rangle \langle 0 | A(x_{i+1})\ldots A(x_{n+1})|0 \rangle \text{ and } f_1, \text{ and it is shown that } \lim_{n \to \infty} R^n = 0 \text{ for an arbitrary, } R \rightarrow \infty \text{ positive integral m if } R \text{ is the distance between the two spheres. The proof consists in studying some singular functions introduced by G.Källen and N. Wilhelmsson (Ref.6: Dan. Mat. Phys. Medd., 1, 9, 1959). Finally, Green's function for an infinite distance between the spheres is studied and it is found that <math>\langle 0 | T(x_1,\ldots,x_{n+1})|0 \rangle = \sum_{i=1}^{n} \theta(x_1-x_2)\ldots \dots \theta(x_n-x_{n+1})\langle 0 | A(x_1)\ldots A(x_{n+1})|0 \rangle = \langle 0 | T(x_1,\ldots,x_1)|0 \rangle\langle 0 | T(x_{i+1},\ldots,x_{n+1})|0 \rangle$ for $R \rightarrow \infty$, which confirms the hypothesis of E. Freese Card 2/3

22141

Asymptotic behavior of ...

S/056/61/040/003/021/031 B112/B214

(Ref. 1: Nuovo Cimento, 11, 51, 1955). There are 10 references: 1 Soviet-bloc and 9 non-Soviet-bloc.

ASSOCIATION: Institut matematiki Akademii nauk Ukrainskoy SSR (Institute of Mathematics of the Academy of Sciences, Ukrainskaya SSR)

SUBMITTED: September 27, 1960

X

Card 3/3

. GACHOK , V.P.

36269

24.4400

S/021/62/000/004/002/012 D299/D302

AUTHOR:

Hachok, V.P.

TITLE:

On a consequence of the weakened local-commutativity

condition

PERIODICAL: Akademiya nauk UkrRSR. Dopovidi, no. 4, 1962, 431-433

TEXT: The causal properties of field operators are considered. A theorem is proved on the equivalence between relativistic quantum field-theory which satisfies certain conditions, and free field-theory. In the references, it was shown that the theory of clothed operators which contains the local-commutativity condition, is equivalent to free field theory. In the following theorem, a stronger equivalence criterion is established; thereby the relaxed condition of local commutativity plays an essential part. The theorem proves that the causal properties of clothed operators cannot be described by the commutation condition of field operators. The proof is based on A.S. Wightman's functions (Ref. 5: Phys. Rev., 101, 860, 1956). From the theorem it is evident to what extent the relaxed condition of local commutativity replaces the condition of local commutativity.

S/021/62/000/004/002/012 D299/D302

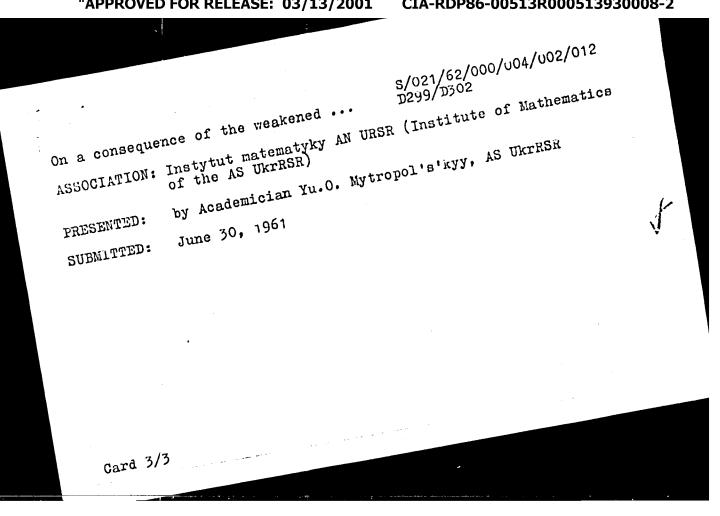
On a consequence of the weakened ...

CATHERINE WINDSHAFF BEEN BEARING WINDSHAFF

ty. The relativistic field-theory is considered, described by the Hermitian operator A(x). It is assumed that certain conditions are satisfied, with respect to the Lorentz group representation of Hilbert space, the existence of a normalized vacuum state. Ψ_0 and negative-energy states, as well as the asymptotic condition for A(x). Theorem: The relativistic field-theory which satisfies the above conditions and the commutativity condition

[A(x^0 , \vec{x}), A(x^0 , \vec{x})] = 0; $x^0 = x^0$, $\vec{x} \neq \vec{x}$, $(\vec{x} - \vec{x}) \in D$, (4) where D is an open region of 3-dimensional space with nonzero measure, is equivalent to free field-theory. The proof of the theorem is outlined. There are 9 references: 2 Soviet-bloc and 7 non-So-is outlined. There are 9 references to the English-language viet-bloc. The 4 most recent references to the English-language publications read as follows: 0.W. Greenberg and S.S. Schweber, Nuovo C., 8, 378, 1958; P.G. Federbush and K.A. Jonson, Phys. Rev., 120, 1926, 1950; D.W. Hall and A.S. Wightman, Dan. Mat. Fys. Medd. 31, 5, 1957; W. Zimmermann, Nuovo C., 10, 597, 1958.

Card 2/3



16.4600

AUTHOR:

Gachok, Y. P.

m = m = 12 .

Dressed operators and the commutivity condition

TITLE:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,

PERIODICAL:

no. 5, 1962, 1225-1232

TEXT: Results obtained by the author (UMZh, 13, 22, 1961) and by P. G. Foderbush et al. (Phys. Rev., 120, 1926, 1960) are generalized, and the properties of the operators in the relativistic field theory are studied. A more rigid equivalence criterion is set up with the dressing condition. The assumption of a commutivity condition for an arbitrary range of the three-dimensional x-space is essential for this study. A criterion is three-dimensional x-space is essential for this study. A criterion is derived which excludes the establishment of a satisfactory relativistic derived which excludes the establishment of a commutivity condition for an arbitrary range of the x-space.

ASSOCIATION: Institut matematiki Akademii nauk Ukrainskoy SSR (Institute of Mathematics of the Academy of Sciences Ukrainskaya SSR)

Card 1/2

T

GACHOK, V.P. (Kiyev)

Models in a relativistic field theory and Mandelstam's representations. Ukr. mat. zhur. 16 no.2:225-232 '64. (MIRA 17:3)

GACHOK, V.P.

Problem of moments in quantum field theory. Dokl. AN SSSR 165 no.3:506-509 N '65. (MIRA 18:11)

1. Institut matematiki AN UkrSSR. Submitted March 27, 1965.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513930008-2"

GACHOK, V.P. (Kiyev)

Self-adjoint field operators and the problem of moments. Ukr.
nat. shur. 17 no.513-13 *65.

(MIRA 18:12)

1. Submitted July 18, 1964.

SAMOCHOWIEC, L.; KOKOT, F.; KLEINHOK, Z.; GACHOWSKI, Z.

A . . G to the side and a supplementation of the supplementation of

Investigations on hypotensive properties of some galenical preparations of Viscum album gemus Loranthraceae. Farm. polska 11 no.6;128-132 June '55.

 Z Zakladu Farmakologii Slaskiej Akademii Medycznej w Rokitnicy Bytomskiej, Kierownik: doc.dr. J.Jeske. (PLANTS.

Viscum album genus Loranthraceae, hypotensive properties)

KOKT, Franciszek; KLEINROT, Zdzislaw; GACHOWSKI, Zbigniew

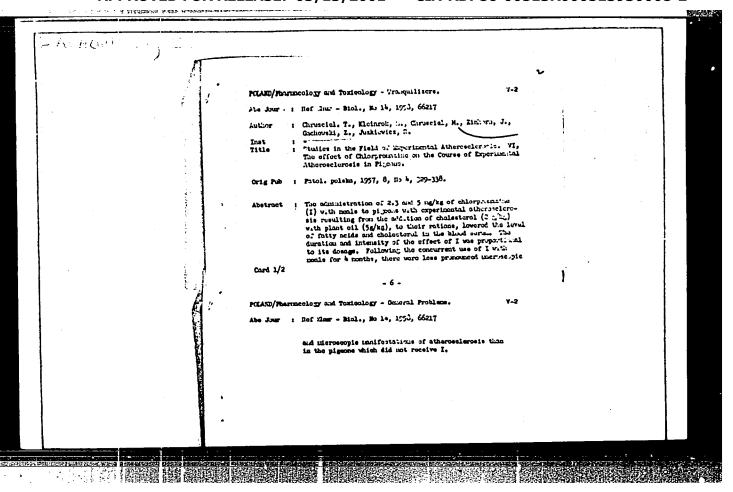
A CONTRACTOR STATE STATES STATES AND STATES AND STATES AND STATES AND SECURIOR SECURIOR STATES AND SECURIOR STATES AND SECURIOR SEC

nantiment of the first till

Edifect of prolonged administration of luminal and veronal on oxygen consumption by various tissues in rat. Pat. polska 8 no.1:41-45
Jan-Mar 57.

1. Z Zakladu Farmakologii Eksperymentalnej Sl. A. M. w Zabrzu-Rokitnicy Kierownik: doc. dr. J. Jeske. Adres autora: Zabrze, ul. K. Marksa 19. (BAHBITULTES, effects, on oxygen consumption by various tissues (Pol))

(METABOLISM, TISSUE, effect of drugs on, barbiturates, oxygen consumption by various tissues (Pol))



GACH'YA, P., Cand of Med Sci — (diss) "Angiopneumography for Lung Cancer and Some Other Diseases of the Lung and Mediastinum," Leningrad, 1959, 18 pp (First Leningrad Medical Institute im Academician I. P. Phylov) (KL, 8-60, 119)

GRZELAK, Z., inzh.; GACIAG, J., inz.

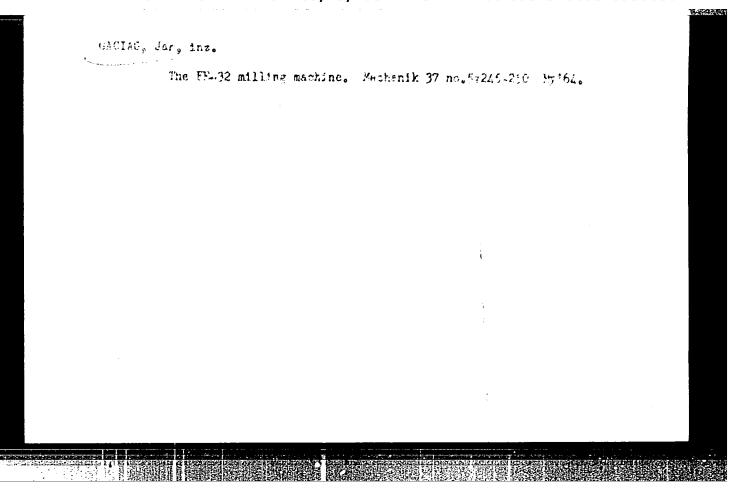
New types of knee type milling machines. Mechanik 35 no.5:249-251 My '62.

1. Zaklady Przemyslow 1. Maja.

GACIAG, Jan, inz.

FA modernized milling machines. Mechanik 34 no.10:513-517 161.

1. Zaklady Przemyslowe 1 Maja, Pruszkow.



JANKOWSKI, Władysław, mgr., inz.; KUBICKI, Jerzy, mgr., inz.; JANUSZEWICZ, Krystyna, mgr., 1nz.; DOMANSKA, Hanna, mgr., inz.; SAWICKI, hipolit., mgr., inz.; GACIAIZ, Kazimiarz, mgr., inz.

A chemical combinate for Turkey. Architektura Pol no.10:384-385 '61.

A STATE OF THE PROPERTY OF THE

GACINOVIC. O. M. SUCCESSE (IN The pull); Given Hausen

Country: Yugoslavia

Academic Degrees: not given

Affiliation: Health Physics Division, Institute of Nuclear Sciences

"Boris Kidrich"

Belgrade-Vintcha, Bulletin of the Institute of Nuclear Sciences Source:

"Boris Kidrich", Vol 11, Mar 1961, pp 189-197.
"Adsorption of Sr* Ion in Presence of Various Cations on the Data:

Montmorillonite-Type Clay."

Co-author:

MICIC, O. I., Health Physics Department, Institute of Nuclear Sciences "Boris Kidrich".

GACINOVIC, O.M.; MICIC, O.I.

Adsorption of Srtt ions in the presence of various cationites on montmorillonite. Bul Inst Nucl 11:189-197 '61.

1. Institute of Nuclear Sciences "Boris Kidrich," Health Physics Division, Vinca.

CIRCTEA, D.; GOJCCARU, I.; CACIU, J.; OGREZEANU, D.; TECHTO, V., Tele; TOMA, Gh., Ing.

Воли почторы или изменения выполняющим информациим почтороватьм.

Investigations on the dynamic and thermal stability of transformers in case of an abrupt short circuit. Energetica Rum 13 no.1:17-28 Ja 165.

1. Chief Engineer, "Electropatere" Plant (for Civates, Cojecuru, Gasiu, Ocrezeanu). 2. Head of the Transferric Technical Department, "Electropatere" flant (for New 1. Head of Hemologation Department, M.I.C.V. (for New 1.). Submitted July 20, 1964.

MOLDOVAN, I.; MOSCOVICI, Ana; Teodorescu, C.; GACIU, V.

Semil-industrial installation for manufacturing high-purity germanium. Rev chimie Min petr 15 no.8:510-513 Ag *64

GACJA, Petrit, kand. i shkenc. mjek.

A rare complication of intratracheal anesthesia: necroticohemorrhagic tracheitis of croupal type. Bul. univ. shtet. Tirane[Mjek] 3:56-60 '62.

(ANESTHESIA, INTRATRACHEAL) (TRACHEITIS)

GACJA, Petrit, kundidat i shkencave mjekesore.

A case of protracted apnea caused by the use of scoline (succinyl-choline). Bul. univ. shtet. Tirane [Mjek] 2:60-62 '63.

1. Katedra e Kirurgjise Pergjithshme, Universitetit Shteteror te Tiranes (shefi katedres Llambi Zicishti).

GACKOVSKI, J.

"The Cough Is Not Always a Sign of Tuberculosis. p. 23 (ZDROWIE) Vol. 5, No. 1/2, 1953
Warszawa, Poland.

SO: Monthly List of East European Accessions L.C., Vol. 2, No. 11, Nov. 1953, Uncl.

MISIEWICZ, Janina i wspolpracownicy: RATYCKI, W.; BURACZEWSKI, O.; GACKOWSKI, J.;
GURTAT, B.; KOBIERSKA, H.; KOZAKOW, H.; KRZYSZKOWSKA, A.; KURTIONICZ, W.;
KUZNIECOW, A.; MULLER, H.; RAFINSKI, T.; ROMANOWSKA, I.; SITEK, K.;
STOPNICKA, M.; SZCZEPANAKI, W.; SZUSTROWA, J.; WIERZBOWSKA, M.;
WIKTOROWICZ, J.

Early results of vaccination against tuberculosis with vaccines prepared from four different BCG strains. I. Gruzlica 25 no.3:243-250 Mar 57.

1. Z Instytutu Gruslicy w Warszawie Dyrektor: prof. dr J. Misiewicz.
Adres: Warszawa, ul Plocka 26.

(BCG VACCINATION, statist.

comparison of 4 strains (Pol))

GACKOWSKI, Jozef: KOSTRZENSKI, Wladyslaw; PAKLERSKA-POHRATYN, Hanna

Bacteriological diagnosis of tuberculosis in an open medical servica.
Gruzlica 26 no.2:127-138 Feb 58.

1. Z Pracowni Bakteriologicznej Wojewodzkiej Przychodni Przeciwgruzliczej w Warszawie. Kierownik Pracowni: mgr W. Kostrzenski. Dyrektor W.P.P.:
dr J. Gackowski. Adres: Warszawa, ul. Pasteura 10.

(TUBERGUIASIS, diag.
bact. diag. (Pol))

GACKOWSKI, Josef; KOSTRZENSKI, Wladyslaw; PAKLERSKA-PORRATYN, Hanna

Cytochemical tests in the diagnosis of tuberculosis. Gruzlica
27 no.6:483-491 June 59.

1. Z Pracowni Bakteriologicsnej Kierownik: mgr W Kostrzenski
Wojewodskiej Pradni Przeciwgruzliczej w Warszawie Dyrektor: dr.
J. Gackowski

((TUBERCULOSIS, diag.)

KOSTRZENSKI, Wladyslaw; PAKLERSKA-POBRATYN, Henna; SYROWATKA, Tadeusz; GACKOWSKI, Jozef.

Studies of a new tuberculostatic compound from the group of arylides of aromatic hydroxyacids. Arch. immun. ther. exp. 12 no.2:242-251 64.

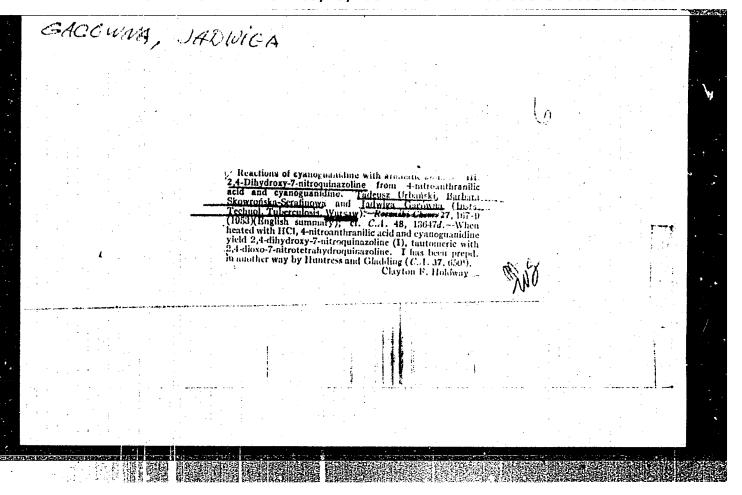
1. Bacteriological Laboratory of the Provincial Tuberculosis Dispensary, Warsaw.

.

GACKOWSKI, Zbigaiew mgr. inz.; KOTALIK, Z., inz. [translator]

Use of automatic computers in Poland. Podn org 18 no.8: 374-375 Ag '64.

1. Research Institute of Machine Industry Organization, Warsaw. (for Gackowski).



GORDENKO, V.I., inzh.; GACRYSHCHERKOV, G.P., inzh.

Redesigning of the drop sprinkler of a cooling tower. Energetik
ll no.10:14-15 0 '63. (MIRA 16:11)

HUNGARY

BERTA, Gylla; GACS, Gyula; TiGYI, Andras; Institute of Physical University (Orvostudomanyi Agyetem Elettani Intezete), Pecs.

"Determination of Serum Insulin Concentration by Means of Rat Epididymal Fat Tissue."

Budapest, Kiserletes Orvoatudomany, Vol 14, No 5, Oct 62, pp 545-548.

Abstract: [Authors' Hungarian summary] The rat epididymal fat tissue test for the quantitative determination of insulin was investigated. It was found that the normal insulin value of fasting humans is 0.10-0.30 microunits per ml, while in dogs it is 0.05-0.15 microunits per ml. The rates of glucose metabolism were also investigated and it was found that maximal glucose uptake is reached in the first hour. [16 references, predominantly Western.]

. 나 1/1

15 ----

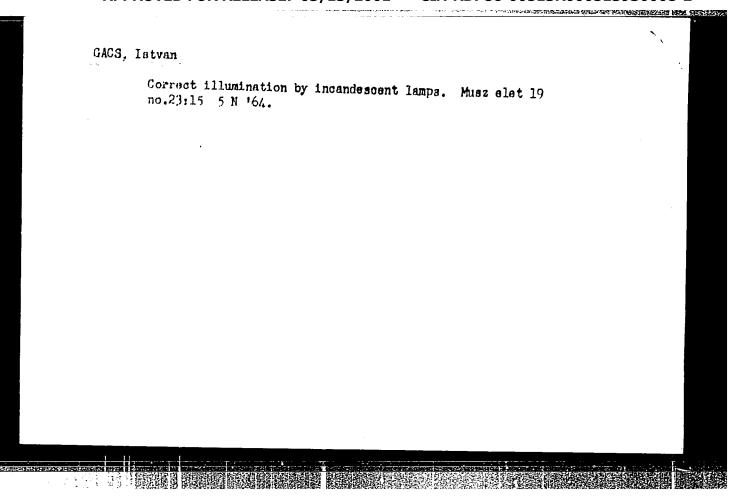
APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513930008-2"

MOPED projector laws with reason in	
MOPED projector lamps with xenon charge for small mo elet 15 no.11:10 My *60. (HungaryMotorcycles) (Xenon)	torcycle. Musz (EEAI 9:9)

GACS, Istven, okleveles gepeszmernok

From carbon filament incandescent lumps to krypton lamps. Villamossag 11 no.9:272-276 S '63.

Greet Illumination by incandescent lamps, Villenessag 12 no.8: 234-236 Ag +64.



GACS, Istvan; DEBRECZENI, Gabor

Illumination of picture galleries with special regard to the damaging effect of light. Villamossag 13 no.1:16-23 Ja '65.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513930008-2"

GACS, Istran, okleveles gepeszmernok (Budapest, VI., Izebella u. 71)

Illuminated umbrellas. Musz elet 20 no.4:6 25 F '65.

GACS, Janosne

BECK, Otto, dr.; GACS, Janosne, dr.; UNCAR, Imre, dr.

Exercise therapy of pulmonary tuberculosis. Tuberk, kerdesei 7 no.2:28-31 Apr 54.

1. Az Allami Koranyi Tudoheteggyogyinteset (igazgato: Dessauer Pal, dr.) koslemenye.

(TUBERCULOSIS, PULMOMARY, ther.

*exercise ther.)

(EXERCISE THERAPY, in various dis.

*tuberc., pulm.)

TO THE SECOND PROPERTY OF THE SECOND PROPERTY GACS V. GERO, Sandor; BAUMAN, Miklos; JAKAB, Mihaly; ROHONY, Belane; GACS, Jacos Antilipemic effects of heparin. I. Electrophoretic studies; the problems of the prealbumin fraction. Magy. belorv. arch. 10 no.5-6:129-138 Oct-Dec 57. 1. A Fudapesti Orvostudomanyi Egyetem III sz. Belklinikajanak (igazgato: Gomori Pal) es a Magyar Tudomanyos Akademia Elektronmikrosskopni Laboratoriumanak (vezeto: Guba Ferenc) kozlemenye. (HEPARIN, off. lipemia clearing mechanism, electrophoretic blood lipoprotein changes & appearance of pre-albumin fraction (Hun)) (LIPIDS, in blood lipemia clearing mechanism of heparin, electrophoretic blood lipoprotein changes & appearance of pre-albumin fraction (Hun))

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513930008-2"

GERO, Sandor; PERENYI, Laszlo; JAKAB. Hihaly; GACS. Janos

Mechanism of the reversal of heparin clearance. Kiserletes orvostud.
10 no.1:52-55 Feb 58.

1. Eudapesti Orvostudomanyi Egyetem III. sz. Belklinikaja.

(HEPARIN, eff.

lipemia clearing, mechanism of reversal in vitro (Hun))

(LIPIDS. in blood

lipemia clearing by heparin, mechanism of reversal in vitro (Hun))

FOGEL, Maria; SOMOGYI, Zauzan; GACS, Janos

Transposition of the pulmonary vein. Magy. radiol. 10 no.3:147-154 Sept 58.

1. A Budapesti Orvostudomanyi Egyetem III. Belklinika (Igazgato: Gomori Pal dr. egyet. tanar) es III. Sebeszeti Klinika (Igazgato: Rubanyi Pal dr. egyet tanar) rontgenosstalyanak (Vezeto: Fogel Maria dr.) kozlemenye. (VEINS, PULMONARY, abnorm. transposition, x-ray diag., case report (Hun))

GACS, Janos, dr.; POGATSA, Gabor, dr.

A study of blood circulation in cardiac shock. Orv. hetil. 102 no.37: 1735-1738 10 S '61.

1. Budapesti Orvostudomanyi Egyetem, II es III Belklinika.

(MYOCARDIAL INFARCT physiol) (BLOOD CIRCULATION physiol)

GACS, Janos, dr.; KEREKES, Erno, dr.; WURFER, Bela, dr.

On Wilson's disease (Hepatolenticular degeneration). Orv. hetil. 106 no.20:935-938 16 My'65.

1. Eudapesti Orvostudomanyi Egyetem, III. Belklinika (igazgato: Gero, Sandor, dr.) es Orszagos Traumatologiai Intezet (igazgato: Szanto, Gyorgy, dr.).

Nuclear Medicine

HUNGARY

CACS, Janos Dr. KELLER, Laszlo, Dr. PAL, Imre, Dr. TORKO, Janos, Dr. Medical University of Bulapest, III. Medical Clinic (director: GERO, Sandor, Dr) (Budapesti Orvostudomanyi Egyetem, III. Belklinika), and National Atomic Energy Commission, Isotope Institute (director: TETENYI, Pal, Dr) (OAB -- Orszagos Atomenergiai Bizottsag --, Izotop Intezet).

"Study of the Mg28 Metabolism of Individuals With Coronary Sclerosis."

Budapest, Orvosi Hetilap, Vol 107, No 35, 28 Aug 66, pages 1644-1645.

Abstract: [Authors' Hungarian summary] The disappearance from the plasma and excretion through the urine of i.v.-administered Mg²⁸ was studiedin 8 individuals with coronary sclerosis and 7 controls. The excretion of Mg²⁸ in the urine was found to be significantly decreased in coronary sclerosis. 2 Hungarian, 12 Western references.

1/1

KOVACS, Jozsef, dr.; GACSALYI, Marta

Measuring radioactive contamination of some Hungarian foodstuffs. Elelm ipar 15 no.12:367-370 D '61.

1. Fovarosi Vegyeszeti es Elelmiszervizsgalo Intezet, Budapest.

KALANTAR, N.G.; GLAZUNOV, V.I.; MANNAFOVA, V.S.; Prinimali uchastiye: GABSATAROVA, S.A.; YUSUPOVA, F.S.

Composition and properties of transformer oil distillates from Tuymazy petroleum. Khim.i tekh.topl.i masel 7 no.5:43-49 My 162. (MIRA 15:11)

1. Bashkirskiy filial AN SSSR.

(Tuymazy region—Petroleum) (Insulating oils)

RISKO, Tibor, dr.; GACSI, Ilona, dr.

Parturition in women with bone tuberculosis. Orv.hetil. 101
no.41:1450-1452 9 0 '60.

1. Allami Fodor Jossef Tbc. Gyogyinteset, I. sz. Sebesseti
Osztaly.

(TUBERCULOSIS OSTEOARTICULAR in pregn)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513930008-2"

FHUIGARY NYUL-TOTH, Pal, Dr., KOVACS, Laszlo, Dr., GAUSI, Ilona, Dr.; State Fodor Jozsef TB Sanitarium (Allami Fodor Jozsef TBC Gyogyintezet). "The Role of X-Ray Examinations in the Present Treatment of TB of the Hip Joint," Budapest, Orvosi Hetilap, Vol 103, No 45, 11 Nov 52, pages 2130-2133. Abstract: [Authors' summary] The authors call attention to the progress unde in the treatment of TB of the joints in the last 10 years. The cooperation of X-ray specialists and clinicians as well as the use of

antibiotic therapies made the possibilities of surgical treatment much greater. Healing is possible now with movable joints, ankylosis is speedier and more complete and the patient is released in a shorter time to his everyday living. [2 German, 1 Hungarian, 1 Western reference]

Experiences with birds inhabiting the middle-aged ock forest in the Great Hungarian Plain. Erde 12 no.11:514-518 N '63.

1. Erdeszeti Tudomanyos Intezet, Kerekegyhaza.

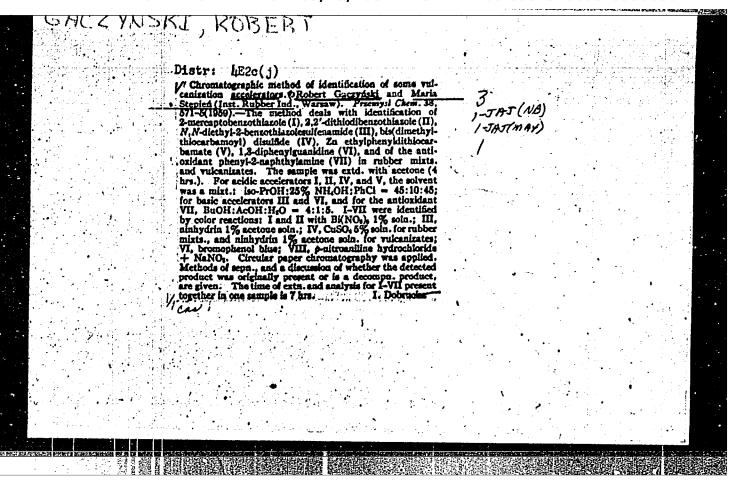
ZSOLNAI, Laszlo (Budapest); GACSO, Elek (Budapest); DENES, Vilmos (Budapest)

Forum of innovators. Ujit lap 16 no. 4:30 25 F '64.

WOYKE, Halina; GACZYNSKA, Jadwiga

The influence of the time of sowing on the quantity and quality of the yield of snap beans. Rocs nauk roln rosl 83 no.3:651-668 '61.

1. Katedra i Zaklad Warsywnictwa Sskoly Glownej Gospedarstwa Wiejskieg, Skierniewice.



STEPHEN, Maria; GACZYNSKI, Robert

Determination of mercaptobenzithiazole (Accelerator M) and 2-benzothiazyl disulphide (Accelerator DM) by paper chromatography. Chem anal 6 no.6:1045-1049 161.

1. Institute of Rubber Industry, Warsaw.

ORSZAGH, Andrzej; GACZYNSKI, Robert; ANTCZAK, Barbara

Grafting native rubber with methyl methacrylate. Polimery 7 no.4: 129-131 Ap '62

1. Uniwersytet, Warszawa (for Orszagh). 2. Instytut Przemyslu Gumowego, Warszawa (for Gaczynski and Antezak).

ORSZAGH, Andrzej; GACZYNSKI, Robert

Effect of gamma irradiation of natural cacutchouc modified by grafting. Polimery tworz wielk 8 no.4:140-142 Ap '63,

1. Universytet Warszawa (for Orszagh). 2. Instytut Przemyslu Gumowego, Warszawa (for Gaczynski).

GAD, D.Z.

Abundance of putrefactive and phosphate dissolving bacteria in various bottoms of bodies of freshwater. Vop. ekol. 5:31-32
'62. (MIRA 16:6)

1. Institut gidrobiologii AN UkrSSR, Kiyev.
(Bacteria, Phosphorus) (Soil micro-organisms)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000513930008-2

L 27293-66 EWI(1)/FCC ACC NR. AR6014568 SOURCE CODE: UR/0169/65/000/011/B050/B050 AUTHOR: Belyayev, V. P.; Beltadze, T. G.; Gadakchan, V. O.; Lominadze, V. P. TITLE: Some results of comparison of radiosonde and aircraft turbulence measurements in the free atmosphere SOURCE: Ref. zh. Geofizika, Abs. 11B342 REF SOURCE: Tr. Tsentr. aerol. observ., vyp. 63, 1965, 109-113 TOPIC TAGS: free atmosphere, atmospheric turbulence, radiosonde ABSTRACT: A method is presented for comparison of observations of atmospheric turbulence made from an aircraft and by radiosonde with an overload attachment. Results of the comparison showed the feasibility of using radiosonde with an overload attachment to indicate atmospheric turbulence zones. [Translation of author's abstract.] SUB CODE: 04/ SUBM DATE: none 551.511.6

GHIDEL FRANCE W. I USSR / Farm Animals. Silkworm.

Q-6

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54894.

: Gadakhbadze V. I., Iozashvili, O. V.

Inst : Not given.

: The Coefficient of the Weight of the Dry Cocoon Title

in Relation to the Raw One.

Orig Pub: Byul. nauchno-tekhn. inform. Gruz. n.-i. in-ta

shelkovodstva, 1956, 1, 52-56.

Abstract: No abstract.

Card 1/1

71

The introduction of white cocoon and hybrid cocoons. Tekst. prom. 16 no.6:8 Ag '56. (MLRA 9:10)

(Georgia-Silk manufacture)

L 1807-66 ETT(1)/FCC GW ACCESSION NR: AT5022886

UR/2789/65/000/063/0109/0113 551.551.5

AUTHOR: Belyayev, V. P.; Beltadze, T. G.; Gadakchan, V. O.; Lominadze, V. P.

TITLE: Some results of comparing radiosonde and aircraft measurements of turbulence in the free atmosphere

SOUFCE: Tsentral'naya aerologicheskaya observatoriya. Trudy, no. 63, 1965. Voprosy dinamiki atmosfery (Problems of atmospheric dynamics), 109-113

TOPIC TACS: atmospheric turbulence, free atmosphere, aircraft bumr, aircraft measurement, radiosonde measurement

ABSTRACT: Measurements made from aircraft of atmospheric turbulence are compared with radiosonde measurements (with an overload attachment) to determine the value of radiosonde data for predicting turbulent zones over air routes. To test the method it was necessary to make experimental plane flights to measure bumpiness intensity over the same area with the radiosonde measurements. Analyses showed that there were zones in which there was good agreement between data from the two sources, including agreement concerning the thickness of the disturbing zone. However, in other cases it was found that although radiosonde and airplane data simultaneously detected dis-

Card | 1/2

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000513930008-2

L 1.807-66

ACCESSION NR: AT5022886

turbed zones, the two methods yielded different values for the thickness of the zone (either method could yield the higher value). Good agreement was obtained in about This of the comparisons. Data from three series of tests in the Tbilisi region indicate that there is a 75-85% probability that turbulence will occur or not occur over a period of 1 1/2 hr. Orig. art. has: 1 figure and 1 table. (ER)

ASSOCIATION: Tsentral naya aerologicheskaya observatoriya (Central Aerological 44.55

Observatory)

SUBMITTED: 00

ENCL: 00

SUB CODE: ES

NO REF SOV: 002

OTHER: 000

ATD PRESS: 4/1/

CIA-RDP86-00513R000513930008-2" APPROVED FOR RELEASE: 03/13/2001

SARAKHANOV, Konstantin Konstantinovich; SHUL'MAN, Georgiy Yakovlevich;

GADALEV, Yu.A., red.; BARANOV, I.A., tekhn.red.

[Murmansk Economic Administrative Region] Murmanskii ekonomicheskii administrativnyi raion. Murmanskoe knishnoe isd-vo,
1959. 162 p. (MIRA 12:8)

(Murmansk Province--Economic conditions)

DECEMENTSOV, Viktor Semenovich; GADALEV, Yu.A., red.; BELYAYEV, N.P., tekhn.red.

[Animal world of Murmask Province] Zhivotnyi mir Murmanskoi oblanti. Petrosavodak, Murmanskoe knizhnoe izd-vo, 1959, 99 p.

(Murmansk Province--Zoology)

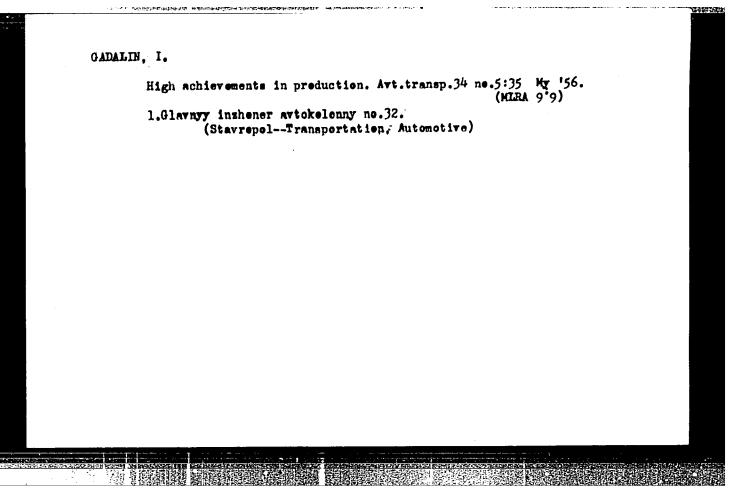
(Murmansk Province--Zoology)

FELIFEYCHENKO, Mikhail Vasil'yevich; GADALEV, Yu.A., red.; BARANOV,
I.A., tekhn. red.

[Along the rivers and lakes of the Kola Peninsula] Po rekam i
ozeram Kol'skogo poluostrova. Kurmanske knizhnoe izdvo, 1960. 100 p.

(Kola Peninsula—Description and travel)

(Kola Peninsula—Zoology)



YEGURTSOV, N.N.; KOLGANOV, V.I.; GADALIN, I.Ye.

Practice in the study of wells using the hydroacoustic method in the Krasnoyarsk and Belozerka fields. Trudy Giprovostoknefti no.5:129-133 '62. (MIRA 16:8)

(Kuybyshev Province-Oil field flooding)

GADALIN, V.N.; ZIMIN, A.S.; PILUGANOVA, E.A.

Investigating kinematic parameters of the SKhS-1,2 cotton harvesting machine. Trakt. i sel'khozmash. 31. no.6:27-30 Je '61. (MIRA 14:6)

1. Gcsudarstvennoye spetsial noye konstruktorskoye byuro po khlopkouborke. (Cotton-picking machinery)

CAMPLIN, Yu I.

USSR/Medicine-Insect Control

Card 1/1

Fub. 148 - 21/25

Author

: Yu. I. Gadalin; N. L. Gersakovica; N. N. Gorchakovskaya; A. B.

Levit; and V. A. Nabokov

Title

: The results of the use of insecticidal smokes to control Ixodes

persulcatus ticks

Periodical

: Zhur. mikro. epid. i immun. 4, 92-97, Apr 55

Abstract

: The results of the work of the multipurpose expedition of the Institute of Malaria, Parasitology and Helminthology, Ministry of Health USSR; the Institute of Virology imeni D. I. Ivanov-skiy, Academy of Medical Sciences USSR; and the Kuybyshev Oblast Antimalaria Station During 1954 are reported. Experiments with hexachlorane smoke aerosols produced by burning a special cartridge NBK (G-17) indicated that 95-98.5 percent of Ixodes persulcatus ticks in the treated area were killed. The results of the experiments are presented on two charts. No ref-

erences are cited.

Institution

10010401011

Submitted

: December 31, 1954

GADALIN, Yu,I

AID P - 2894

Subject : USSR/Medicine

Card 1/2 Pub. 37 - 11/20

Rakhmanova, P. I., Gadulin, Yu. I., Geminov, N. V., Kubatkin, V. I., Levit, A. B., Martensen, V. N., Authors

Popova, N. A.

Title : Use of zooprophylaxis against malaria in building new

populated localities

Periodical : Gig. i san., 9, 48-49, S 1955

Abstract : Discusses preventive measures against mosquitoes in

Pecherskiye Vyselki, a new development in the Kuybyshev Oblast'. The editorial office considers the material of this article insufficient for sanitary evaluation,

and recommends further studies. Chart.

Institutions: Institute of Malaria, Medical Parasitology and

Helminthology, Ministry of Health, USSR; State

Sanitary Inspection for the Kuybyshev Hydroelectric

AID P - 2894

Gig. i san., 9, 48-49, S 1955

Card 2/2 Pub. 37 - 11/20

Power Plant, Kuybyshev Regional Antimalaria Station, and "Kuybyshevsel'proyekt" Planning Office.

Submitted: J1 22, 1954

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513930008-2"

GADALIN, Yu.I.; GERSHKOVCIH, N.L.; GORCHAKOVSLAYA, H.N; LEVIT, A.B.

CONCRETED**

An experiment in destroying Ixodes persulcatus, the carrier of tickborne encephalitis in its natural environment [with summary in English]

Biul.MOIP. Otd. biol. 61 no.3:735-41 My-Je '56. (MLWA 9:10)

(FIGES) (DDT (INSECTICIDE))