

L 55122-65

ACCESSION NR: AP5017516

point of reverse martensite transformation). When cooled to room temperature, large martensite needles with plane faceting were observed on the samples. Orig. art. has 7 figures.

ASSOCIATION: Institut metallofiziki AN UkrSSR (Institute of Metal Physics AN UkrSSR)

SUBMITTED: 30 Sep 63

ENCL: 00

SUB CODE: MM, SS

KO REF Sov: 003

OTHER: 000

JPRS

Card 2/2

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930330002-1

LOBODYUK, V.A.; KHADROS, L.G.

~~Reorientation of crystals of the  $\gamma'$  phase during martensite transformation. Ukr. met. i metalloved. 18 no.4:573-579 O '64.  
1. Institut metallofiziki AN UkrSSR.~~

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930330002-1"

HUTNIK, Andrzej; DABROCKI, Jerzy; KAMIŃSKI, Irena; LOBODZIKI, Włodzimierz;  
MOŚCIECZEK, Zbigniew; PETRYNA, Alicja

Depth and exposition of the rectum and bladder in x-ray therapy  
of cancer of the cervix uteri. Nowotwory 14 no.4:417-421 C-D '64

I. z Zakładu Roentgenoterapii Instytutu Onkologii w Gliwicach  
(Kierownik: dr.med. A. Mliniak; Dyrektor: dr. med. J. Szwedek).

LOBODZIEC, Wladzimierz

Characteristics of the energy of the KID type ionization  
chambers used in diagnostic and therapeutic roentgen  
apparatus. Pol. przegl. radiol. 27 no.4:347-352 '63.

l. Z Instytutu Onkologii - Oddzial w Gliwicach Dyrektor: dr  
med. J. Swiecki.

(RADIOTHERAPY, DOSAGE) (RADIOMETRY)  
(EQUIPMENT AND SUPPLIES)

LUBAS, B.; LOPODZIUS, W.; RATTKA, P.; TYMIA, I.

Cobalt tele gammatherapy with the use of GUT-400 with a view toward radiologic protection. Pol. przegl. radiol. 28 no. 6: 565-574 N-D '64.

1. Z Instytutu Onkologii; Oddzial w Gliwicach (Dyrektor: dr. med. J. Swiecki).

HŁINIĄK, Andrzej; DĄBROWSKI, Jerzy; HŁINIĄK, Irena; ŁOBODZIĘĆ, Małgorzata,  
WOJCIĘŻEK, Zbigniew; PIĘTRYKA, Alicja.

Comparison of the size of x-ray irradiation fields to the route  
of metastases of cervical cancer. Nowotwory 14 no. 3:217-220  
Ag-S '84.

1. Z Zakładu Rentgenoterapii Instytutu Onkologicznego w Gliwicach  
(Kierownika dr. med. A. Hliniak; Dyrektora dr. med. J. Skieck).

LOBODZIEC, Włodzimierz

Distribution of doses at points screened by the bone in x-ray therapy generated in a roentgen tube of 200 kV peak tension.  
Nowotwory 15 no.1:93-96 Ja-Mr'65.

1. Z Instytutu Onkologii z Gliwicach (Dyrektor: dr. med. J. Świecki).

ZWIERZ, J.; DURLAKOWA, I.; LOBODZINSKA, M.

Survey of endemic leptospirosis region in Lower Silezia and other  
regions of Poland. Polski tygod. lek. 7 no. 35:1041-1045 1 Sept  
1952. (CLML 23:5)

1. Of the State Institute of Hygiene in Wroclaw.

ZWIERZ, J.; DURLAKOWA, I.; IOBODZINSKA, M.; SOBOLEWSKA, M.

Comparative studies on serological methods used most frequently in  
diagnosis of leptospirosis. Med. dosw. mikrob. 5 no.2:231-236 1953.  
(CLML 25:1)

1. Of Wroclaw Branch of the State Institute of Hygiene; Leptospirosis  
center.

ZWIERZ, Jozef; DURAKOWA, Irena; LOBODZINSKA, Maria; ZWIERZCHOWSKI, Jan

Studies on leptospiral antibodies in animals. Arch. immun. ter. dosw. 3:585-598 1955.

1. Filia Panstwowego Zakladu Higieny, Osrodek Leptospirowy we Wroclawiu (Kierownik: Doc. dr. Jozef Zwierz) Panstwowy Instytut Weterynaryjny, Pracownia do Badan nad Leptospiroza we Wroclawiu (Kierownik: Doc. dr. Jozef Zwierz).

(LEPTOSPIROSIS, immunology,  
antibodies in animals (Pol))

MAKOWER, Henryk; SKURSKA, Zofia; LOBODZINSKA, Maria; KIDANKIEWICZ, Tadeusz

Variability of Asian influenza virus cultured in chick embryo allantois.  
Postepy hig. med. dosw. 12 no.3:291-292 1958.

1. Instytut Immunologii i Terapii Doswiadczonej PAN im. Ludwika  
Hirschfelda Dział Wirusologii Wrocław, ul. Chalubinskiego 4.

(INFLUENZA VIRUSES, culture,  
Asian strains in chick embryo allantois, variability (Pol))

LOBOZDZINSKA, M.

SURNAME, Given Names

6

Country: Poland

Academic Degrees:

Affiliation:

Source: Warsaw, Postepy Higieny i Medycyny Doswiadczonej, Vol XV, No 1  
1961, pp 440-441.

Data: "Early and Late Influenza Virus Strains in Tissue Cultures of the  
Chick Embryo." English abstract of article originally published  
Arch. Immunol. i Terapii Dosw. 1960, 8, 101.

Authors:  
SKURSKA, Zofia, PhD, Deputy Chief, Department of Virology (Zak.  
Virologii), Ludwik Hirszfeld Institute of Immunology and Experi-  
mental Therapy (Instytut Immunologii i Terapii Doswiadczonej  
Ludwika Hirszfelda), Polish Academy of Sciences (PAN--Polska  
Akademia Nauk), Wroclaw; Director: Prof. Stefan SLOPEK, Dr.  
MAKOWIER, Henryk, MD., M Sc., Chief, Department of Virology, Lu-  
dwik Hirszfeld Institute of Immunology and Experimental Therapy, P.  
Academy of Sciences, Wroclaw; Director: Prof. Stefan SLOPEK,

SYPIELCJA, A.  
LOBOZDZINSKA, M.

KIDANKIEWICZ, T.

690 91

SURNAME, Given Names

3

Country: Poland

Academic Degrees: not given  
Affiliation: Ludwik Hirschfeld Institute of Immunology and Experimental Therapy (Instytut Immunologii i Terapii Doswiadczałnej im. Ludwika Hirszfelda), Polish Academy of Sciences (PAN--Polska Akademia Nauk), Wrocław; Director: Prof. Stefan SŁOPEK, Dr.  
Source: Warsaw, Postępy Higieny i Medycyny Doswiadczałnej, Vol XV, No 4, 1961, pp 439-440.  
Data: "Segregation of Influenza A<sub>1</sub>, A<sub>2</sub>, and B Viruses into Strains with Varying Sensitivity to Horse Serum Inhibitor."  
English abstract of article originally published in Arch. Immunol. i Terapii Dosw. 1960, 8, 687.

Authors:

ŁOBODZIŃSKA, M.  
KLUBIŃSKA, B.

6PO 981643

LOBODZINSKA, Maria; KLUBINSKA, Barbara

Segregation of influenza A, A<sub>2</sub> and B virus strains into strains  
with varying sensitivity to horse serum inhibitor. Arch.immun.ter.  
dosw. 8 no.4:687-694 '60.

1. Department of Virology, Institute of Immunology and Experimental  
Therapy of the Polish Academy of Sciences, Wroclaw.

(INFLUENZA VIRUSES) (IMMUNE SERUMS)

SKURSKA, Zofia; LOBODZINSKA, Marianna; KIDANKIEWICZ, Tadeusz; BALTOWSKA,  
Zofia; MAKOWER, Henryk.

Area irrigated with sewage. Its hygienic and sanitary evaluation.  
VII. Virological studies on sewage and rodents from fields irrigated  
with sewage water. Acta microbiol. pol. 10 no.4:457-468 '61.

1. z Zakladu Wirusologii Instytutu Immunologii i Terapii Doswiadczonej  
Polskiej Akademii Nauk we Wrocławiu.  
(SEWAGE virol) (RODENTS virol) (VIRUSES)

LOBODZINSKA, Marianna

Leukergy in experimental infection of rabbits with vaccinia virus. Arch. immun. ther. exp. 11 no.1/2:63-83 '63.

1. Department of Virology, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wroclaw.  
(VACCINIA) (LEUKOCYTES)

SYPULOWA, Alicja; LOBODZINSKA, Maria; SKURSKA, Zofia

Induced fluorescence in the study of cells in tissue cultures infected with viruses. I. Differential staining of nucleic acids in HeLa cells infected with vaccinia viruses. Aron. immun. ther. exp. 12 no.2:156-163 '64

1. Department of Virology, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wroclaw.

LOBODZINSKA, Maria; KIDANKIEWICZ, Tadeusz; SKURSKA, Zofia.

Selective hemagglutination of myxoviruses. Arch. immun. ther.  
exp. 12 no.2:164-172 '64

1. Department of Virology, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wroclaw.

LOBODZINSKA, Maria; SYFULOWA, Alicja; SKURSKA, Zofia

Induced fluorescence in the study of tissue culture cells infected with viruses. II. Nucleic acids in the kidney cells of chick embryos infected with influenza viruses. Arch. immun. ther. exp. 12 no.4:503-511 '64

1. Department of Virology, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wroclaw.

SKRZYDŁO, Zofia; ŁOBODZIŃSKA, Maria; BUEIMACZ, Iwina

Studies on the viruses of asiatic influenza. III. Effect of physicochemical factors. Arch. Immun. ther. exp. 13 no.2  
178-188 '65

I. Department of Virology, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wroclaw,  
and Department of Microbiology, Pharmaceutical Faculty, School of Medicine, Wroclaw.

I.C.BODZIŃSKA, Z.

*(2)*  
Titration of phosphoric acid and calcium hydroxide.  
J. Kameć and Z. Lohndzinska. Bull. intern. acad. polon. sci., Classe sci. math. nat., Ser. A 1951, 347-64 (Pub. 1952) (in English).— $H_3PO_4$  was treated with  $Ca(OH)_2$  soln., potentiometrically and conductometrically. Two series of titrations were made with approx. 0.04 and 0.006*N*  $Ca(OH)_2$  soln. Two inflection points occurred on the potentiometric curves corresponding to the formation of the monobasic and tribasic salts. Reverse titrations gave similar results. All titrations were carried out with an Sb electrode at room temp. and at 50°. Two series of titrations, 0.0045 and 0.0088*N*  $H_3PO_4$ , were titrated, conductometrically, with 0.04 and 0.0327*N*  $Ca(OH)_2$ . While conductometric curves were different in shape, titration results indicated the formation of the mono-, di-, and tri-basic salts.

Glen Dooley

LOBODZINSKA, Z.

(1) 6

Titration of phosphoric acid and barium hydroxide.  
J. Kamecki, Z. Lobodzinska and J. Sedlimir. *Bull. intern.  
acad. polon. sci., Classe sci. math. nat.*, Ser. A 1951, 353-77  
(Pub. 1952)(in English). —The Poggendorff compensation  
method with a standard calomel electrode and  $\text{Hg}$  electrode  
were used for potentiometric titrations. Two series of  
titrations, one with  $0.05N$  and the other with  $0.015N$   
 $\text{H}_3\text{PO}_4$ , were made with  $\text{Ba}(\text{OH})_2$  soln. Two inflection  
points occurred on the potentiometric curve corresponding  
to the formation of the monobasic and tribasic salts. In a  
more dil. soln. a characteristic max. appeared when the  
second equiv. of base was added. For conductometric  
measurements,  $0.0015$  and  $0.015$ - $0.020N$   $\text{H}_3\text{PO}_4$  solns. were  
titrated with  $\text{Ba}(\text{OH})_2$  soln. Three reflection points ap-  
peared though not sharp. *Glen D. Bradley*

✓

22859

S/044/60/000/012/003/014  
C 111/ C 333

16.3500

AUTHOR: Lobodzinskaya, I. G.

TITLE: Potentials of the fundamental boundary value problem  
for the equation  $\Delta^3 u = 0$

PERIODICAL: Referativnyy zhurnal, Matematika, no. 12, 1960, 78,  
abstract 13856. (Tr. Odessk. un-ta. Sb. molodykh  
nehenykh un-ta, 1958, 148, Nr 3, 115-128)

TEXT: The author considers the problem: Determine a function  
 $u(x, y)$  which satisfies the equation  $\Delta^3 u = 0$  in a certain domain and  
the conditions:  $u = f_1$ ,  $(\partial u / \partial n) = f_2$ ,  $\Delta u = f_3$  on the boundary L.  
For investigating this problem the author introduces the potentials:

$$w_1(P) = \frac{1}{\pi} \int_L u(Q) \cos^3 \theta(P, Q) R(P, Q) d\ell_Q$$

$$w_2(P) = \frac{1}{\pi} \int_L \lambda(Q) \cos^4 \theta(P, Q) d\ell_Q$$

Card 1/2

22859  


Potentials of the fundamental ...

S/044/60/000/012/003/014  
C 111/ C 333

$$w_3(P) = \int_L P(Q) \frac{\cos^5 \theta(P, Q)}{R(P, Q)} d\ell_Q$$

where  $\theta(P, Q)$  is the angle between  $R(P, Q)$  and the interior normal. At first the behavior of these potentials and of the functions  $(\partial w_i / \partial n_i) \Delta w_i$  is investigated for the passage through a marginal point, and analogies to the jump formulas are obtained. Then the solution is sought in the form  $u = w_1 + w_2 + w_3$ , where for the unknowns  $\mu, \lambda, p$  a system of three integro-differential equations is obtained. It is remarked that in the case of the unit circle the corresponding homogeneous system possesses the eigen value  $\frac{1}{\pi}$  with the multiplicity 1 and the general solution is a constant vector. An investigation of the inhomogeneous system in the general case is not given.

[Abstracter's note: Complete translation.]

Card 2/2

37504

S/044/62/000/004/043/099  
C111/C333

16. 3/750

AUTHOR:

Lobodzinskaya, I. G.

TITLE:

The potentials of the basic boundary value problem for the equation  $\Delta^m u = 0$ 

PERIODICAL:

Referativnyj zhurnal, Matematika, no. 4, 1962, 51,  
abstract 4B256. ("Nauchnoyezhegodnik. Odessk. un-t. Fiz.-  
matem. fak. i N.-i. in-t fiz.", no. 2, Odessa, 1961, 107-110)

TEXT:

The following boundary value problem is considered: Determine a function  $u(P)$  which satisfies the equation

$$\Delta^m u = 0$$

(1)

in the bounded domain  $\bar{D}$  and the boundary conditions

$$u|_{\partial D} = f(P_0), \quad u|_{\partial D} = f_1(P_0),$$

$$\frac{\partial u}{\partial v}|_{\partial D} = f_2(P_0), \quad \frac{\partial u}{\partial v}|_{\partial D} = f_3(P_0),$$

$$\Delta u|_{\partial D} = f_4(P_0), \quad \Delta u|_{\partial D} = f_5(P_0).$$

Card 1/2

S/044/62/000/004/043/099

C111/C333

The potentials of the basic ...

$\Delta^k u|_Y = f_m(P_0)$ , if  $m = 2k+1$ , or  $\frac{\partial^k u}{\partial n^k}|_Y = f_m(P_0)$ , if  $m=2k$  on the boundary  $Y$ . The solution is sought as sum of the potentials

$$u(P) = \sum_{i=1}^m u_i(P)$$

where

$$u_i(P) = \frac{1}{\pi} \int_Y u_i(Q) \cos^{2m-i} QR^{i-2} d\Omega_Q .$$

The case of the biharmonic equation has been investigated by O.I. Panich.

[Abstracter's note: Complete translation.]

Card 2/2

39884

S/044/62/000/007/029/100

C111/C222

163800

AUTHOR: Lobodzinskaya, I.G.

TITLE: The solution of the basic boundary value problem for the polyharmonic equation of VI-th order

PERIODICAL: Referativnyy zhurnal, Matematika, no. 7, 1962, 55, abstract 7B269. ("Nauchn. yezhegodnik. Odessk. un-t. Fiz.-matem. fak. i N.-i. in-t fiz." No. 2. Odessa, 1961, 110-115)

TEXT: The equation

$$\Delta^3 u + 3a_1 \Delta^2 u + 3a_2 \Delta u + a_3 u = 0$$

with the conditions  $u|_L = f_1$ ,  $\frac{\partial u}{\partial n}|_L = f_2$ ,  $\Delta u|_L = f_3$  is solved in the domain D with the sufficiently smooth boundary L. The constants  $a_1, a_2, a_3$  are so that the roots of the equation  $k^3 + 3a_1 k^2 + 3a_2 k + a_3 = 0$  are all of the potentials constructed in the paper, the

S/044/62/000/007/029/100  
C111/C222

The solution of the basic ...

equations of second kind. It is stated that the corresponding homogeneous system possesses only trivial solutions. Thus the unique solvability of the formulated boundary value problem is proved.

Abstracter's note : Complete translation.

GRIGULEVICH, V.I.; LOBODZINSKIY, V.A.

Some optimum relationships in the limitation of amplitude modulated oscillations. Elektrosviaz' 18 no.4:19-26 Ap '64.  
(MIRA 17:6)

S/0106/64/000/004/0019/0026

ACCESSION NR: AP4029221

AUTHOR: Grigulevich, V. I.; Lobodzinskiy, V. A.

TITLE: Some optimum relations in the limitation of AM oscillations

SOURCE: Elektrosvyaz', no. 4, 1964, 19-26

TOPIC TAGS: frequency multiplication, AM, AM limitation, AM suppression,  
radio pulse frequency multiplication

ABSTRACT: A method of evaluating the efficiency of AM suppression by limiters  
is suggested. The suppression is mainly intended for obtaining monochromatic  
oscillations from the spectrum of a radio-pulse frequency multiplier (V. I.  
Grigulevich, Elektrosvyaz', 1956, no. 6). The system consists of a quartz  
oscillator, a frequency multiplier, a preselector, a limiter, and a filter; the  
preselector converts the pulsed oscillations of the frequency multiplier into AM  
continuous oscillations. The nature and position of the extremum points in the

Card 1/2

ACCESSION NR: AP4029221

output wave differ from those at the limiter input: the modulation frequency is doubled which was experimentally corroborated. The modulation factor at the output is found to be equal to:  $m' \approx \frac{1}{12} \eta_0^2 m^2$ ; the efficiency of the amplitude limiter is  $\eta_{cp} = \frac{1}{12} \eta_0^2 m$  where  $\eta = \frac{U_n}{U_m} = \cos \theta$ . The case of limiting under frequency-multiplication conditions is also considered. Orig. art. has: 4 figures and 37 formulas.

ASSOCIATION: none

SUBMITTED: 09Jun63

DATE ACQ: 28Apr64

ENCL: 00

SUB CODE: EC

NO REF SOV: 003

OTHER: 000

Card 2/2

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930330002-1

GRIGULEVICH, V.I.; LOBODZINSKIY, V.A.

Spurious phase modulation in the limiting of AM oscillations.  
Elektrosviaz' 18 no.8:73-76 Ag '64. (MFA 17:2)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930330002-1"

L 29306-66 ENT(1)  
ACC NR: AP6012340

SOURCE CODE: UR/0108/66/021/004/0033/0039

AUTHOR: Shumlyanskiy, I. I. (Active member); Lobodzinskiy, V. A. (Active member) 3/  
b

ORG: Scientific-Technical Society of Radio Engineering and Electric Communication  
im. A. S. Popov (Nauchno-tehnicheskoye obshchestvo radiotekhniki i elektrosvyazi)

TITLE: Use of amplitude limiters in a frequency-selective system

SOURCE: Radiotekhnika, v. 21, no. 14, 1966, 33-39

TOPIC TAGS: filter circuit, receiver selectivity, tuned amplifier, amplitude  
modulation

ABSTRACT: The purpose of the investigation was to determine the optimal conditions under which an amplitude limiter used in conjunction with simple tuned filters increases the selectivity of a system intended for the separation of frequencies of a discrete spectrum. The optimal operating conditions of limiters with fixed and self bias are established, and the value of the grid leak resistance is established in a case of self bias. Operation with class A and class C operation are discussed and it is shown by analysis that a tuned amplifier operating in class C operation with self bias approaches the optimal conditions of amplitude limitations. These conclusions are borne out by experimental tests on a limiter operating a 6Zh9P tube

UDC: 621.395.664

Card 1/2

L 29306-66

ACC NR: AP6012340

at frequencies 235 and 0.2 kcs at a depth of modulation 0.15. Orig. art. has: 10  
figures and 9 formulas.

SUB CODE: 09/ SUBM DATE: 018ep65/ ORIG REF: 005

Card 2/2 BK

SKOROKHODOV, Aleksey Gavrilovich; BEREZOVSKIY, Semen Mikhaylovich;  
LOBOK, Abram Yakovlevich; TSYRUL'NIKOV, A.I., redaktor;  
AVRUTSKAYA, R.F., redaktor; BEKKER, O.G., tekhnicheskij re-  
daktor.

[Secondary ferrous metals] Vtorichnye chernye metally; spravochnik.  
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi  
metallurgii, 1954. 336 p. [Microfilm]  
(Scrap metal)

(MLR 8:1)

ARMAND, D.L.; Prinimal uchastiye: L'VOVICH, M.I.; RAUNER, Yu.L.;  
LOBOLEV, L.N.

Landform geophysics. Izv.AN SSSR. Ser. geog. no. 2:12-23  
(MIRA 17:5)  
Mr-Ap '64.

1. Institut geografii AN SSSR.

LOBNEK, F.

Hardenability of steels. p. 40. STAVÍČEK J. (Ministerstvo strojírenství, Praha. Vol. 5, no. 1, Jan. 1955.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1955

LOBOS, Tadeusz, mgr inz.

Two-phase network operation and correct action of the protective relays. Energetyka Pol 17 no.1:15-18 '63.

1. Katedra Zabezpieczen i Automatyki w Energetyce, Politechnika, Wroclaw.

IL'IN, R.S., kand.tekhn.nauk, dotsent; LOBOSOV, A., inzh., R.F.DI, N.I., 1958.  
Automatic recording split-beam microphotometer. [Trudy] MVTU no.110:  
(MIRA 16.6)  
17-26 '62. (Microphotometer)

KOPOTKA, V.

KOPOTKA, V. Karel Juva's Hosrodaření vodou zemědělství (Water Economy in Agriculture); a book review. p. 117.

Vol. 8, no. 2/3, 1986  
GEOGRAFICKY ČASOPIS  
GEOGRAPHY & GEOLOGY  
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1987

HODOTKA, V.

HODOTKA, V. Karel Jiva's Podrobnejší výzkum v zemědělství (More Economy in Agriculture); a book review. I. M. S.

Vol. 8, no. 2/3, 1957  
GEOGRAFICKÝ ČASOPIS  
GEOGRAPHY & GEOLOGY  
Czechoslovakia

See: East European Review, Vol. 6, No. 5, May 1957

LOBOTKA, V.

The Suez Canal during the last fifty years. p. 226

GEOGRAFICKY CASOPIS. (Slovenska akademie vied. Zemepisny ustav) Bratislava,  
Czechoslovakia, Vol. 11, no. 3, 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959  
Uncl.

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930330002-1

LOBOTSKAYA, Eleonora Stefanovna; KORNEYEV, S.G., red.; KHAYKINA,  
A.Ye., nauchn. red.; POPOV, V.I., tekhn. red.

[Treasures of the "Black sphere."] Sokrovishcha "Chernogo  
shara." Tambov, Tambovskoe knizhnoe izd-vo, 1962. 11 p.  
(Bibliotekha novatora, no.7) (MIRA 16:10)  
(Patents)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930330002-1"

Lobotskaya, L.I.

B

USSR/General Biology. Genetics

Abs Jour : Ref Biol., No 13, 1958, 57193

Author : Turbin N. V., Lobotskaya L. I., Kunitskit Ye. A.

Inst : Belorussian University  
Title : Main Results of the 1955-1956 Experiments for  
the Study of Varieties, Lines, and Hybrids of  
Maize as the Initial Form for the Selection of  
Hybrid Maize Under Conditions of Belorussian SSR

Orig Pub : Pub. Uch. zap. Belorussk. un-t, 1957, vyp. 37,  
255-327

Abstract : On the basis of preliminary studies the follow-  
ing initial forms are recommended as the best  
for the selection of corn in Belorussia: early  
ripening and medium early--Kichkasskaya, Mel-  
kaya khulinskaya, Severyanka, Belya Fireneys-  
kaya, Voronezhskaya 76; medium ripening--

C:

Card 1/2

33

RDP86-00513R000930330002

PALILOV, A.I.; LOBOTSKAYA, L.I.

Regular features in reaction of flowering plants to rhythmical  
pollination of different frequency. Sbor. bot. rab. Bel. otd.  
(MIRA 15:1)  
VBO no.2:81-88 '60.  
(Fertilization of plants)

PALILOV, A.I. [Palilau, A.I.]; ICETSKAYA, L.I. [Iabotskaja, L.I.];  
ANGERINA, V.S.

Differences of the effect of "basic" and "supplementary" pollen  
on the heredity; principles of the "supplementary pollination"  
concept. Vestsi AM BSSR. Ser. biol. nav. no.2:47-59 '64.  
(XIIA 1":11)

LOBOTSKIY, N.I.

Acute paraproctitis. Zdrav. Belor. 6 no.9:35-36 S '60. (MIRA 13:9)

1. Iz kafedry obshchey khirurgii (ispoln.obyazan. zaveduyushchego -  
dotsent A.A. Greymen) Minskogo meditsinskogo instituta i kafedry  
obshchey khirurgii (zaveduyushchiy - dotsent A.Ya.Mitroshenko)  
Vitebskogo medinstituta (direktor - dotsent I.I. Bogdanovich).  
(AMUS--DISEASES)

LOBOTSKIY, N.I. (Vitebsk, pr.Frunze, d.5, kv.17)

Pararectal fistulas. Vest.khir. no.1:76-79'63. (M.A 16:7)

1. Iz kafedry obshchey khirurgii (zav.-dotsent N.I.Bobrik [deceased] Minskogo meditsinskogo instituta i kafedry obshchey khirurgii (zav.-dotsent A.Ya.Mitroshenko) Vitebskogo meditsinskogo instituta (dir.-dotsent I.I.Bogdanovich) (RECTUM-DISEASES) (FISTULA)

LOBOTSKIY, N.I., assistent; LEPLYA, Ye.S., dotsent

Sensitivity of microflora to antibiotics in appendicitis. Zdrav.  
(MIRA 17:4)  
Bel. 9 no.7:32 Jl'63

1. Iz kafedry obshchey khirurgii ( zav. - dotsent A. Ya. Mitro-  
shenko ) i kafedry mikrobiologii ( zav. - dotsent Ye.S. Leplya )  
Vitebskogo meditsinskogo instituta ( rektor- prof. G.A. Medvedeva ).

AUL', inzh.; LOBOV, master; BORISOV, starshiy monter; SAFRONOV, V.I.

Concerning Tereshchenko's article "A fatal accident while climbing  
a pole." Energetik 9 no.12:25-26 D '61. (MIRA 15:1)  
(Electric lines--Poles) (Electricity, Injuries from)  
(Electric lines--Safety measures)

LOROV, A.

Repairing fuel pumps of mobile diesel-electric power stations. Muk.  
-elev.prom. 22 no.11:29 N '56. (MLRA 10:1)

1. Stavropol'skaya krayevaya kontora Zagotzerno.  
(Fuel pumps)

AUTHORS: Lobov, A.A. and Yartsev, V.I., Engineers SOV/118-58-2-14/19

TITLE: Experience in the Operation of Electric Gantry Cranes ('opyt ekspluatatsii elektrokozlovykh kranov)

PERIODICAL: Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958, Nr 2, pp 38-41 (USSR)

ABSTRACT: The introduction of various types of electric gantry cranes on the L'vov Railway sharply increased the labor efficiency and cut down the costs of loading and unloading operations. The authors give a detailed description of the organization of loading and unloading operations, and of the working brigades. They also list numerous defects of the telphers TV-501 constructed at the Tula plant. There are 3 photos.

1. Hoists--Operation    2. Electricity--Applications

Card 1/1

KOGAN, Liber Ayzikovich; kand.tekhn.nauk; GOMBERG, Yevgeniy Naumovich;  
VEKSLER, Vladimir Markovich; KHOTIN, Boris Mikhaylovich;  
Prinimali uchastiye: PETROVA, T.I., ANAH'IEVA, S.A.; TAL', K.K.;  
BUTSKII, A.M.; LOBOV, A.A. BOBROVA, Ye.N., tekhn.red.  
[Containers] Kontejnery. Pod obshchei red. L.A.Kogana. Moskva,  
Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniiia,  
1960. 318 p. (MIRA 14:3)  
(Railroads--Freight) (Containers)

SEMISALOV, L.P.; LOBOV, A.A.; AMSTISLAVSKIY, D.M.; VEKSEL'MAN, Z.N.;  
CHEBOTAREV, A.V.

Effect of the shape of coke pieces on some indices of size. Koks  
1 khim. no.9:33-37 '63. (MIRA 16:9)

1. Ukrainskiy uglekhimicheskiy institut (for Semisalov, Lobov).
2. Zhdanovskiy koksokhimicheskiy zavod (for Amstislavskiy).
3. Koksokhimstantsiya (for Veksel'man, Chebotarev).  
(Coke--Testing)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930330002-1

SURBEYAN, G. N., Eng.; and DANOV, A. I., Eng.

Cranes, Derricks, Etc.

Walking crane. Matematicheskii zhurnal, 6 no. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930330002-1"

ABRAMOVICH, I.I., inzh.; AUERBAKH, V.M., inzh.; LOBOV, A.G., inzh.  
"Building tower cranes" by I.IA.Kogan. Reviewed by I.I.Abramovich,  
V.M.Auerbach, A.G.Lobov. Stroi.dor.mashinostr. 4 no.5:38  
(MIRA 12:7)  
My '59. (Cranes, derricks, etc.)

LOBOV, A.G., inzh.

Modernization of tower cranes. Mekh.astroi. 7 no.3:14-17  
(MIRA 13:6)  
Mr '60.  
(Cranes, derricks, etc.)

L 14444-66

ACC NR: AP6002971

SOURCE CODE: UR/0286/65/000/024/0145/0145

INVENTOR: Lobov, A. G.; O1'shanskiy, A. V.; Shulepov, L. V.

15  
13

ORG: none

TITLE: A tractor with a bulldozer attachment. Class 63, No. 177286 [announced by the Red Banner Military Engineering Academy im. V. V. Kuybyshev (Voyenno-inzhenernaya krasnoznamennaya akademiya)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 145

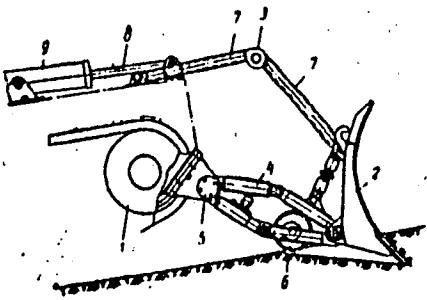
TOPIC TAGS: tractor, construction machinery

ABSTRACT: This Author's Certificate introduces: 1. A tractor with a bulldozer attachment including a scraper blade, a blade-raising mechanism, upper push rods, lower push rods which are four-link hinged mechanisms with flexible connections and a support roller mounted on one of the bottom links. The device is designed for uniform load distribution on the caterpillar tread of the tractor and for reduced frame vibration during motion. The rear end of the tractor body is made in the form of the bulldozer scraper attachment mounted so that it can be moved into the working

UDC: 621.868.238.6 : 621.878.23

Card 1/3  
APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930330002-1"

L 14444-66  
ACC NR: AP6002971



1 - tractor; 2 - scraper; 3 - hoist mechanism; 4 - four-link hinged mechanism; 5 - adjustable torsion device; 6 - support roller; 7 - upper push rods; 8 - cylinder rod; 9 - power cylinder.

L 14444-66

J

ACC NR: AP6002971

position by the hoist mechanism with interhinged upper push rods. One of these rods is also hinged to the scraper device and the others are hinged to the tractor. The rods of power cylinders mounted on the tractor are fastened by hinges to these push rods. 2. A modification of this tractor in which each of the hinged four-link mechanisms of the bulldozer attachment is made with a flexible connection in the form of an adjustable torsion device mounted in the hinge which fastens the four-link mechanism to the tractor.

SUB CODE: 13/ SUBM DATE: 26Nov64

QC  
Card

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930330002-1"

L 26161-66 EWP(h)/EWT(d)/EWP(1)  
ACC NR: AP6006350 (A)

SOURCE CODE: UR/0413/66/000/002/0084/0084

AUTHORS: Reznik, A. P.; Lobov, A. G.; Auerbach, V. M.; Trofimov, A. P.; Yashin,  
K. A.; Vasil'chenko, N. M.

20  
B

ORG: none

TITLE: A means of mounting upper sections of crane masts with the boom. Class 35,  
No. 178071

14

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 84

TOPIC TAGS: crane, construction equipment

ABSTRACT: This Author Certificate describes the mounting of upper sections of crane masts with the boom. The upper sections are set by means of crane mechanisms which are on the lower section of the mast which is on a rotating platform. The leading end of the boom and the base of the supporting part of the mast are joined by a cable which, in turn, is fastened to the edge of the platform. Thus the elevation of the upper sections of the mast is secured by the boom through their turning relative to the place where the truss joins the platform (see Fig. 1).

UDC: 621.873.25.002.72

Card 1/2

L 26161-66  
ACC NR: AP6006350

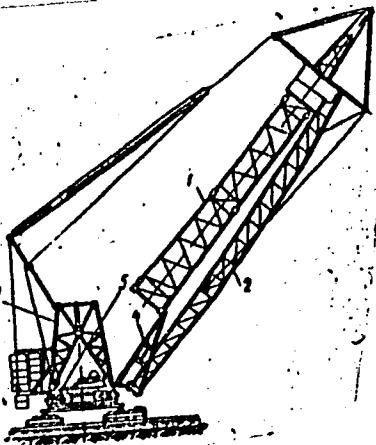


Fig. 1. 1 - upper sections of the mast;  
2 - boom; 3 - lower section of the mast;  
4 - truss; 5 - rotating crane platform.

Orig. art. has: 1 figure.

SUB CODE: 13 / SUBM DATE: 180ct63

Card 2/2 C.C.

LOBOV, B.; SHALASHOV, V.; YEROFEYEV, N.

Three years have passed. Okhr. truda i sots. strakh. 5 no.8:14-15  
(MIRA 15:7)  
Ag '62.

1. Zamestitel' nachal'nika kuznechnogo tsekha moskovskogo zavoda imeni  
Likhacheva. (for Lobov). 2. Predsedatel' komissii okhrany truda  
1-go moskovskogo chasovogo zavoda (for Shalashov). 3. Predsedatel'  
komissii okhrany truda fabrichnogo komiteta i-y moskovskoy  
sittsenabivnoy fabriki (for Yerofeyev).  
(Moscow--Industrial hygiene)

KALLISTRATOV, F.V.; LOBOV, F.P.

Manure-soil compost, a valuable fertilizer. Zemledelie 23 no.1:  
48-53 Ja '61. (MIRA 13:12)

1. Eksperimental'naya nauchno-issledovatel'skaya baza "Gorki  
Leninskiye" Instituta genetiki Akademii nauk SSSR.  
(Compost)

LOBOV, F.P., kand.sel'skokhozyaystvennykh nauk

Manure-soil composts. Biol. v shkole no.2:78-81 Mr-ap '62.  
(MIRA 15:2)

1. Eksperimental'naya nauchno-issledovatel'skaya baza "Gorki  
Leninskiye" Instituta genetiki Akademii nauk SSSR.  
(Compost)

S/056/60/039/003/021/045  
B006/B063

AUTHOR: Lobov, G. A.

TITLE: Polarization of Internal Conversion Electrons and Positrons  
Emitted After Beta Decay of the Nucleus

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,  
Vol. 39, No. 3(9), pp. 684-688

TEXT: As a result of the non-conservation of parity in beta decay, the decaying nucleus is polarized in the direction of emission of the beta electron. If the nucleus was initially unpolarized, and if the direction of emission of the neutrino is not recorded, the pair particles ought to be somehow polarized if the beta decay is followed by conversion with electron - positron pair production. The author now describes a theoretical study of the correlation of the direction of emission (polarizations) of the internal conversion electrons and positrons to the direction of emission of the electrons from the preceding beta decay. He considers the processes  $I_1 \rightarrow I_2$  ( $\beta$ -decay) and  $I_2, m_2 \rightarrow I_3, m_3$  (internal conversion with pair production), where  $I_1$  is the angular momentum of the parent

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930330002-1"  
Card 1/2

Polarization of Internal Conversion Electrons S/056/60/039/003/021/045  
and Positrons Emitted After Beta Decay of the B006/P063  
Nucleus

nucleus,  $I_2$  - momentum of the nucleus originating from the beta decay,  
 $m_2$  - projection of this momentum, and  $I_3$ ,  $m_3$  - dto. for the final nucleus.  
The author employs a density matrix given by V. B. Berestetskiy and  
A. P. Rudik (Ref. 1). Calculations are made in Born approximation (with-  
out considering the nuclear Coulomb field) for allowed beta transitions,  
the assumptions made for the beta-interaction Hamiltonian being most gene-  
ral. The resulting expressions hold for any  $2J$  pole electric and magnetic  
types of nuclear conversion transition. Next, the author considers the  
case of VA-types of beta coupling (with time parity being conserved)  
and the case of beta transitions involving a change by unity of the nuc-  
lear spin  $\Delta I = \pm 1$  ( $\Delta T = \pm 1$ ). The resulting formula (11) is used for  
a numerical computation of the polarization of the internal conversion  
electrons following the beta decay of  $\text{Na}^{24}$ :  $4^+(\beta^-)4^+(E2)2^+(E2)0^+$ . The author  
thanks I. S. Shapiro for having suggested this work and for his interest  
in it. B. V. Geshkenbeyn is mentioned. There are 5 Soviet references.

SUBMITTED: April 26, 1960

Card 2/2

S/056/62/043/005/035/058  
B102/B104

AUTHORS: Lobov, G. A., Shapiro, I. S.

TITLE: Radiative capture of a  $\mu^-$ -meson by a proton

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43,  
no. 5(11), 1962, 1821 - 1825

TEXT: The contributions from induced pseudoscalar interaction to the radiative muon capture  $\mu^- + p \rightarrow n + \nu + \gamma$  are investigated. In contradistinction to previous papers (Phys. Rev. 111, 354, 1958; 115, 694, 1959; Rev. Mod. Phys. 31, 797, 1959; 31, 802, 1959), all graphs (Figs. 1, 2) are taken into account. It can be shown that the contribution from the graphs of Fig. 2 is comparable with that from Fig. 1. The probability of radiative muon capture depends strongly on sign and magnitude of the pseudoscalar coupling constant  $g_p$ . Photonspectra due to the above graphs and photon circular polarization are calculated (Figs. 3, 4). The amount of circular polarization ( $\beta$ ) is strongly affected by the presence of induced pseudoscalar interaction; change in sign of  $g_p$  changes  $\beta$  by a factor of 5. Taking account of the graphs 5 and 8 of Fig. 2 raises the probability of radiative

Card 1/3

S/056/62/043/005/035/058

B102/B104

Radiative capture of...

$\mu^-$ -capture by almost 100%; change in sign of  $g_p$  reduces this probability from  $W=10.2 \cdot 10^{-2} \text{ sec}^{-1}$  for  $g_p = +8g_A$  to  $W=4.2 \cdot 10^{-2} \text{ sec}^{-1}$  for  $g_p = -8g_A$ . The radiative  $\mu^-$  capture due to induced pseudoscalar interaction and the processes  $n + p \rightarrow \pi^- + p$  and  $\pi^+ \rightarrow \mu^+ + \nu + \gamma$  are interrelated since the matrix element of the radiative capture in pole approximation can be expressed in terms of the form factors of the latter processes. There are 5 figures.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki Akademii nauk SSSR (Institute of Theoretical and Experimental Physics of the Academy of Sciences USSR)

SUBMITTED: June 1, 1962

Fig. 3. Spectra of the photons emitted in  $\mu^-$  capture.  $\Delta$  for graphs of Fig. 1 only,  $\square$  - for all graphs with  $g_p = +8g_A$ ,  $\diamond$  - for all graphs with  $g_p = -8g_A$ .

Fig. 4.  $\beta(x)$  for + (A) and - (B) sign of  $g_p$ ;  $x$  is the photon energy in terms of its maximum energy.

Card 2/3

Radiative capture of...

S/056/62/043/005/035/058  
B102/B104

Fig. 1

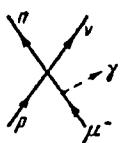


Fig. 2

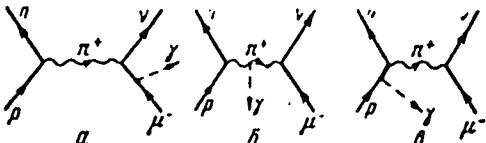


Fig. 3

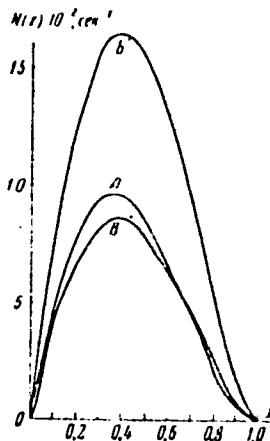
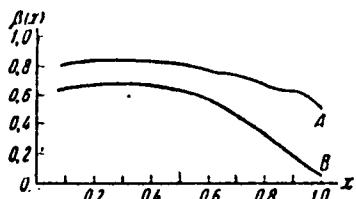


Fig. 4



Card 3/3

LOBOV, G.A.

Radiative capture of  $\mu^-$ -mesons in hydrogen. Zhur. eksp. i teor.  
fiz. 45 no.3:713-722 S '63.  
(MIRA 16:10)

1. Institut teoreticheskoy i eksperimental'noy fiziki.  
(Mesons-Capture)

L 00500-66 EWT(m)  
ACCESSION NR: AT5022123

UR/3138/64/000/302/0001/0026

AUTHORS: Kolkunov, V. A.; Lobov, G. A.

44,55

TITLE: Regge poles in a potential of the Coulomb-well type24  
B+1SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 302, 1964. Polyusa Redzhe v potentsiale tipa Kulonovskoy yamy, 1-28

TOPIC TAGS: potential well, Schroedinger equation, quantum theory

ABSTRACT: The behavior of Regge poles as a function of energy for a potential of the Coulomb-well type is studied in nonrelativistic theory on the basis of an exact solution of the Schrödinger equation. The work was done to extend the obtained results to the relativistic quantum field theory, to explain the structure of the 1-plane. The equation of the Regge poles is derived, and the general structure of the trajectories, the interrelationship of the motion of the poles, and the motion of the poles at high, medium, and low energies are considered. It is shown that the trajectories of the poles in a Coulomb-well potential at low and medium energies are of a Regge nature, and that the asymptotics of the pole trajectories at high energies coincides with the Coulomb case. Orig. art. has: 39 formulas and 7 figures.

Card 1/2

L 00500-66

ACCESSION NR: AT5022123

ASSOCIATION: none

SUBMITTED: 10Dec64

NO REF SOV: 010

ENCL: 00

SUB CODE: NP

OTHER: 012

*dg*  
Card 2/2

L 4067-66 EWT(m)/T/EWA(m)-2

ACCESSION NR: AT5022317

UR/3138/64/000/315/0001/0107

AUTHOR: Lobov, G. A. (Candidate of physico-mathematical sciences)

TITLE: Radiative capture of  $\mu^-$ -mesons by nuclei

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 315, 1964. Radiatsionnyy zakhvat mu minus-mezonov yadrami, 1-107

TOPIC TAGS: mu meson, radiative capture, proton, nucleon, photon, neutron, circular polarization, particle interaction

ABSTRACT: In order to obtain information on constants of weak interaction between muons and nucleons, the author has studied the radiative capture of  $\mu^-$ -mesons by protons ( $\mu^- + p \rightarrow n + \nu + \gamma$ ) and nuclei with  $Z \leq 35$ . The total probability of radiative  $\mu^-$ -capture and the spectrum and degree of circular polarization of photons are calculated in this dissertation. These quantities are strongly dependent on the constant of the effective pseudoscalar interaction  $C_p$ , which can be measured experimentally by means of the effect of radiation  $\mu^-$ -capture. The table of constants follows:

Card 1/3

L 4067-66

ACCESSION NR: AT5022317

I. Introduction

1. Theoretical and experimental data on the interaction of  $\mu^-$  mesons and nucleons

2. Contents and chief results obtained in the dissertation

Chapter I. Radiative capture of a  $\mu^-$ -meson by a proton

1. Matrix elements of the process  $\mu^- + p \rightarrow n + v + \gamma$

2. Matrix elements of the effective pseudoscalar interaction

3. Matrix elements of the process  $\mu^- + p \rightarrow n + v + \gamma$

Introduction of photon circular polarization vectors

4. Spectrum and degree of circular polarization of photons in the process  $\mu^- + p \rightarrow n + v + \gamma$

Chapter II. Radiative capture of  $\mu^-$ -mesons in hydrogen

1. Density matrix of the spin states ( $\rho\mu$ ) of a mesoatom

2. Spectrum and degree of photon circular polarization in the course of radiative capture of a  $\mu^-$ -meson from a given state of the hyperfine structure of the hydrogen atom

Chapter III. Radiative capture of  $\mu^-$ -mesons by medium-heavy nuclei

1. Matrix element of the process  $\mu^- + (A, Z) \rightarrow (A, Z-1) + v + \gamma$

Green function

Card 2/3

L 4067-66

ACCESSION NR: AT5022317

2. Spectrum and degree of photon circular polarization in the process  
 $\mu^- + (A, Z) \rightarrow (A, Z-1) + v + \gamma$
3. Spectrum and degree of photon circular polarization in the radiative capture of  $\mu^-$ -mesons by  $^{60}\text{C}^{12}$  nuclei
4. Experimental data on the radiative capture of  $\mu^-$ -mesons by nuclei

Acknowledgements

Appendix I. Calculation of the integrals  $A(K, Z)$  and  $B(K, Z)$   
Literature

"I express my deep appreciation to my scientific mentor, Doctor of Physico-matematical Sciences I. S. Shapiro, who proposed this topic and formulated most of the problems of this dissertation, for his assistance and for numerous fruitful discussions, which did much to elucidate the physical picture of the phenomena considered. I also express my gratitude to Doctor of Physico-mathematical Sciences A. M. Baldin for many valuable comments and suggestions." Orig. art. has: 10 figures, 2 tables, 187 formulas.

ASSOCIATION: none

SUBMITTED: 29Dec64

ENCL: 00

SUB CODE: NP

NO REF SOV: 042

OTHER: 073

BVK  
Card 3/3

L 1142-66 EWT(m)/T/EWA(m)-2  
ACCESSION NR: AP5019588

UR/0386/65/001/006/0007/0011

257

AUTHOR: Lobov, G. A.

TITLE: Nonconservation of time parity in strong interactions

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu.  
Prilozheniya, v.1, no. 6, 1965, 7-11

TOPIC TAGS: strong nuclear interaction, particle interaction, gamma quantum,  
gamma transition, parity principle

ABSTRACT: Pulse correlation is calculated for successive  $\gamma$ -quanta in the general case where both  $\gamma$ -transitions are mixed. A formula is derived for the angular cor-  
ty are taken to be of the order of  $10^{-3}$ , assuming that time parity may not be con-  
sidered in the amplitudes of all processes where strongly interacting particles par-  
ticipate. "The author is grateful to P. A. Krupchitskiy, who initiated this work,  
and to I. S. Shapiro for discussion and for a number of valuable comments." Orig.  
art. has: 4 formulas. 44, 55

ASSOCIATION: none

SUBMITTED: 04May65

NO REF Sov: 003

Card 1/1 *mll*

ENCL: 00

OTHER: 002

SUB CODE: NP

L 5415-66 EWT(1)

ACCESSION NR: AP5019246

UR/0056/65/049/001/0306/0314

AUTHOR: Kolkunov, V. A.; Lobov, G. A.

44,66

32

TITLE: Regge poles in a potential of the Coulomb well type

29

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 1, 1965,  
306-314

15

TOPIC TAGS: moving pole method, Schrodinger equation, Coulomb interaction, particle interaction, potential well

ABSTRACT: The energy dependence of the motion of the Regge poles is investigated on the basis of an exact solution of the Schrodinger equation for a potential of the Coulomb-well type, which is identical with a Coulomb potential at short distances, cuts off like a square-well potential at large distances, and has many features in common with the Yukawa potential. The equation of the Regge pole trajectory is derived and its general structure is discussed. The locations of the Regge poles at higher energies are obtained, and the relative motion of the poles is investigated. The motion of the poles at medium and low energies are also studied, and it is shown that the pole trajectories can have a Regge character at small and medium energies in a Coulomb-well potential. Differences in the results obtained with the different potentials are briefly discussed. Orig. art. has:

Card 1/2

09710887

L 5415-66

ACCESSION NR: AP5019246

6 figures and 26 formulas.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki GKIAE (Institute of Theoretical and Experimental Physics, GKIAE)

SUBMITTED: 24Feb65 ENCL: 00 44,55 SUB CODE: GP

NR REF Sov: 004 OTHER: 004

(3)

B/K.

Card 2/2

LOBOV, G.A.

CP-parity failure in the decay of polarized neutrons. IAd. fiz.  
2 no.4:716-719 0 '65. (MIRA 18:11)

1. Institut teoreticheskoy i eksperimental'noy fiziki  
Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii  
SSSR.

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930330002-1

LORCH, George

Nonconservation of the third virility in strong interactions. List. v red.  
Zher. eksp. i teor. fiz. 7 no.6:7-11. Je 1959. (MFA 18:10)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930330002-1"

LOBOV, G. A. and SHAPIRO, I. S.

"Radiative capture of  $\mu^-$  - Mesons in hydrogen"

report presented at the Intl. Conference on High Energy Physics, Geneva,  
4-11 July 1962

Institute of Theoretical and Experimental Physics, Moscow, USSR

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930330002-1

TOBOL, S. A., permanent ot militiaman

Battering rams in arm basket. Able to transport & handle 1000.

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930330002-1"

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930330002-1

LOBOV, Georgiy Ageyevich, general-leytenant aviatsii, Geroy Sovetskogo Soyuza

In ranks forever. Av. i kosm. 47 no.3:79-82 Mr '65.

(MIRA 12:3)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930330002-1"

LOBOV, G.D.; MIKHAYLOVSKIY, L.K.

Gas-filled detector for centimeter and millimeter waves. Nauch.  
dokl.vys.shkoly; radiotekh. i elektron.no.1:232-234 '58.  
(MIRA 12:1)  
1. Kafedra teoreticheskikh osnov radiotekhniki Moskovskogo  
energeticheskogo instituta.  
(Microwaves)

11 часа  
(с 18 до 22 часов)

Г. Н. Ромашт  
Водоудаление излишних электрических шумов с ме-  
тадиодного генератора

С. Г. Афонин

Об управлении частотой транзисторного генератора

А. Н. Чечин

Низкочастотные шумы стабилизации электрических

аппаратов

Н. С. Арапов  
Метод получения плавающих амплитудно-частотных ха-  
рактеристик выпуклых форм в интегральных эле-  
ментах диодов

12 часа  
(с 10 до 16 часов)

Е. В. Багров,

В. В. Гильев,

Л. С. Чирко

Влияние сбоя в цепи синхронизации на

35

Г. Д. Лобов  
Гидроакустический метод СВЧ измерений

А. Н. Фетисов,

В. Н. Залогин,

С. С. Шакиненко

Влияние уменьшения частоты на работоспособ-

ность электрических приборов

А. М. Харченко,

В. В. Басанов,

М. Н. Еланов,

Л. В. Зорин

Электрические параметры АФЧК в функции ча-  
стоты и времени

8 СЕКЦИЯ РАДИОИЗМЕРЕНИЯ

Руководитель Г. Д. Бурату

9 часа  
(с 10 до 16 часов)

А. Г. Смирнов

О методах измерения стабильности изобра-

зия генераторов для установки частоты

37

report submitted for the Centennial Meeting of the Scientific Technological Society of  
Radio Engineering and Electrical Communications in A. S. Popov (VSEKII), Moscow,  
8-12 June, 1959

9/4/200

88162

S/109/60/005/011/011/014  
E140/E485

AUTHOR: Lobov, G.D.

TITLE: Microwave Mixers Employing Gas-Discharge Detector

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol.5, No.11,  
pp.1848-1856

TEXT: The article considers the use of the gas-discharge detector as a microwave frequency converter. A theoretical study is given based on the theory of the "average" electron, taking into account only elastic electron collisions with molecules. The change in electron temperature with microwave power is calculated and is shown to lead to a change in discharge current through the tube. Calculations are given for H<sub>2</sub>, He, Ne, Ar and curves of frequency characteristics and conversion transconductance are presented with a tabulation of the sensitivities attainable for He and Ne. The local oscillator power required is of the order of 2 to 10 W. Certain of the theoretical conclusions have been verified experimentally. Acknowledgments are expressed to L.K.Mikhaylovskiy and S.F.Golyan for their assistance. There are 6 figures, 3 tables and 7 Soviet references.

Card 1/2

88162  
S/109/60/005/0117011/014  
E140/E485

X

Microwave Mixers Employing Gas-Discharge Detector

ASSOCIATION: Moskovskiy energeticheskiy institut  
Kafedra teoreticheskikh osnov radiotekhniki  
(Moscow Power Engineering Institute  
Department of Theoretical Fundamentals of Radio-  
engineering)

SUBMITTED: February 18, 1960

Card 2/2

9.4200 (also 1105)

21435

S/1. 7/31/0000 1/014/023  
E140/E163

AUTHOR: Lobov, G.D.

TITLE: Gas-discharge microwave detector

PERIODICAL: Radiotekhnika i elektronika, Vol.6, No.1, 1961,  
pp. 117-124

TEXT: The article concerns the theoretical analysis of one possible theory of operation of the gas-discharge detector. It is based on the fact that in application of a microwave field to the gas-discharge the electron energy changes. The change in electron energy may lead to variations of certain of the gas-discharge parameters, which in the last analysis is expressed in the magnitude of the constant component of discharge current through the tube. It can be assumed that variation of electron energy is expressed to a higher degree where the total electron energy is minimum. This discharge region is the Faraday dark space. The author derives the equation of electron energy balance in the gas-discharge, the temperature increase and transient duration of temperature increase in the gas-discharge with applied microwave field, the transfer factor of the gas-discharge detector.

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21435

S/109/61/006/001/014/023

Gas-discharge microwave detector

E140/E163

and presents experimental measured results. On the basis of the analysis and experimental results the author concludes that the gas-discharge detector is quadratic at small values of applied power; the transfer factor of the gas-discharge detector is proportional to the energy density of the detected signal and inversely proportional to the square of the signal frequency. Using standard waveguide in which to amount the gas-discharge detectors, the detector transfer factor will not depend on signal frequency, since with increase of frequency the corresponding energy density increases. The transfer factor increases with increase of discharge current only up to an optimal current, defined by the relationship between electron concentration and signal frequency. With increase of signal frequency this magnitude increases. The gas-discharge detector time constant depends on the type and pressure of gas. With increase of gas pressure the time constant decreases. Acknowledgement is made to E.V. Dmitriyeva for her assistance.

There are 7 figures, 3 tables and 14 references: 8 Soviet and 6 English.

Card 2/3

21435

S/109/61/006/001/014/023

Gas-discharge microwave detector. El40/E163

ASSOCIATION: Moskovskiy energeticheskiy institut  
Kafedra teoreticheskikh osnov radiotekhniki  
(Moscow Power Engineering Institute  
Department of Basic Theory of Radio Engineering)

SUBMITTED: April 9, 1960

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Card 3/3

93150  
94120

20582  
S/109/61/006/002/014/023  
E140/E435

AUTHORS: Lobov, G.D. and Yeremeyev, V.I.  
TITLE: Certain Effects Accompanying Detection in Gas Discharge  
PERIODICAL: Radiotekhnika i elektronika, 1961, Vol.6, No.2,  
pp.286-291

TEXT: An experimental verification is given of the hypothesis that microwave detection in gas discharge devices is accompanied by variation of both the discharge current and the magnitude of glow of the gas. Curves of various discharge parameters along the length of a special tube indicate that the maximum pulse detection coincides with the maximum of excitation, with these maxima occurring at the negative glow. The regions of maximum recombination intensity and of excitation do not coincide, giving maxima of the corresponding parameters in different locations in the gas discharge. The experimental results show agreement between the phenomena of detection and of variation of glow intensity. A qualitative explanation of the results can be based on the assumption that the microwave power varies the electron energy. Three physical phenomena in the tube are considered to be related to the detection process. These are the variation of the Card 1/2

20582

S/109/61/006/002/014/023  
E140/E435

Certain Effects ...

recombination factor, of the number of excited atoms and the number of collisions leading to excitation. These phenomena influence the discharge current and hence the detection process. There are 8 figures and 4 references: 2 Soviet and 2 non-Soviet.

ASSOCIATION: Moskovskiy energeticheskiy institut  
Kafedra teoreticheskikh osnov radiotekhniki  
(Moscow Power Engineering Institute, Department of  
Basic Theory of Radioengineering)

SUBMITTED: May 6, 1960

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Card 2/2

*6.4100**9.4120*30760  
S/141/61/004/003/017/020  
E192/E382AUTHOR: Lobov, G.D.

TITLE: Operation of a gas-discharge mixer at UHF at high intermediate frequencies

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy  
Radiofizika v. 4 no. 3, 1961 pp. 560 - 564

TEXT: The use of gas-discharge detectors as UHF mixers permits an increase in the sensitivity of certain devices (Ref. 1 - the author - Radiotekhnika i elektronika, 5, 1848, 1960), however, the operation of such a detector at narrow bandwidths is very complicated and it is therefore necessary to investigate the behaviour of the mixer at intermediate frequencies which are higher than the limit frequency. The spectral density of a gas-discharge tube can be expressed as (Ref. 2 - Ye.A. Zdornova - this journal 2 262, 1959):

$$I = I_0 / t^k$$

(1)

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30766  
S/141/61/004/003/017/020  
E192/E382

Operation of ...

where  $k$  is a constant coefficient for a given discharge gap, and  $I_o$  is the spectral-noise density at a frequency of 1 c.p.s.

The noise voltage in a bandwidth  $2\Delta f$  at the frequency  $f_o$  is expressed by:

$$\sigma_n \approx \sqrt{2\Delta f} I_o / f_o^k \quad (2)$$

provided  $\Delta f \ll f_o$ . If the sensitivity of the gas-discharge detector is defined as the minimum signal power at which the voltage  $\Delta U_{mp}$  of the intermediate frequency is equal to the noise voltage  $\sigma_n$ , the minimum UHF power is determined by:

$$\sigma_n = \Delta U_{mp}$$

The intermediate frequency voltage of the gas-discharge detector depends on the signal power  $P_s$  and the intermediate frequency  $f_{mp}$  and is expressed by:

Card 2/6

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Operation of ...

$$\Delta U_{\text{imp}} = A \sqrt{P_s} \frac{\alpha}{1 + (f_{\text{imp}}/f_{\text{cpl}})^2} \quad (3)$$

where  $f_{\text{cpl}}$  is the limit frequency of the mixer and  $A$  is a constant coefficient. By combining Eqs. (2) and (3) the minimum signal power is expressed by

$$P_{\text{min}} = \frac{2I^2}{A^2} \frac{(f_{\text{imp}}/f_{\text{cpl}})^2}{\pi^2 k T_{\text{imp}}} \quad (4)$$

When the intermediate frequency is increased, the bandwidth of the detector is also increased and the voltage at a fixed intermediate frequency is given by

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36755  
S-14-7617004/003/017/020  
E192/E382

Operation of ...

$$\frac{B}{U_{\text{tip}}} = \frac{t_{\text{tip}}}{t_{\text{tip}} + t_{\text{c}}}$$

where  $B$  is the voltage at  $t_{\text{tip}}$ . It is now possible to introduce the component an equivalent bandwidth such that  $\Delta U_{\text{tip}}$  decreases  $\sqrt{2}$  times at this bandwidth. The bandwidth is defined by:

$$\Delta t_{\text{eqB}} = t_{\text{tip}} \sqrt{\left( \frac{1}{2} + \frac{t_{\text{c}}}{t_{\text{tip}}} \right)^2 - 1} \quad (7)$$

The theoretical formulae were verified experimentally by using spatial sealed-off gas-maze tubes filled with parallel cylindrical electrodes made of molybdenum wire. The tubes were filled with Ne and He at various pressures (ranging from 18 - 44 mm Hg). The measurement of the sensitivity and conversion losses was performed at several fixed frequencies.

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Operation of ....

1; 10; 30 and 60 Mc/s. The spectral density of the noise as a function of frequency is illustrated in Fig. 1. From the curves of the figure, it is seen that the noise level is almost independent of the type of gas and pressure and that the noise spectrum decreases with frequency in the manner indicated by Eq. (1); the exponent  $k$  varies from 1 to 2 (the curves

corresponding to the characteristics of the type  $f^{-1}$  and  $f^{-2}$  are indicated by the dotted lines in Fig. 1). The experimental curves illustrating the sensitivity as a function of frequency and the conversion losses (as a function of frequency) were also taken. It was found that as the intermediate frequency was increased, the bandwidth of the gas-discharge detector was also increased. This was verified by means of a pulse test, in which the rise time of the pulses at the output of the second detector was recorded. The author expresses his gratitude to A.N. Shamanskiy for help in this work. There are 3 figures, 2 tables and 2 Soviet-bloc references.

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Card 5/6

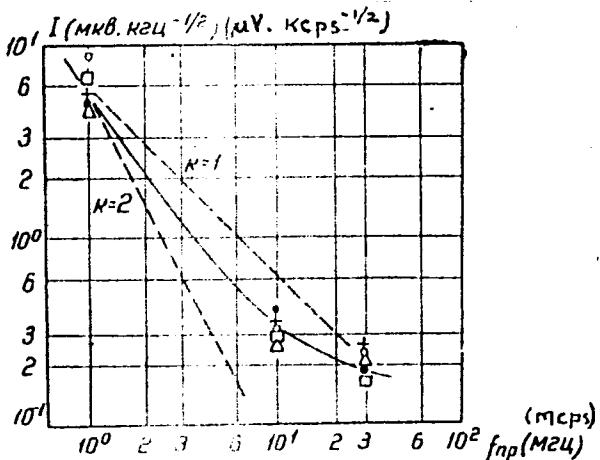
Operation of ....

S/141/61/004/003/017/020  
5193/E382

ASSOCIATION: Moskovskiy energeticheskiy institut  
(Moscow Power-engineering Institute)

SUBMITTED: September 5, 1960

Fig. 1:



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35995  
S/109/62/007/004/008/018  
D230/D302

9,4230

AUTHORS: Lobov, G.D., and Zakharov, V.V.

TITLE: Change of directional electron current in a gaseous discharge under the action of a microwave field

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 4, 1962,  
652 - 662

TEXT: It is shown theoretically that the microwave oscillatory power increases the electron directional velocity causing an increase in the discharge current through the tube. The theoretical results were verified experimentally and the variations in the directional part of the distribution function are reproduced on oscillograms. The experiments were conducted on tubes filled with neon at pressures between 5 and 8 mA. The analysis of an appropriate function  $\Phi$  shows that the variation in the discharge current under the action of the microwave field is fundamentally due to the change in electron velocity and not in their concentration. Denoting  $f_1$  - distribution function and  $n_e$  - electron concentration, function  $\Phi \equiv f_1$

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S/109/62/007/004/008/018  
D230/D302

Change of directional electron ...

$n_e$ ; This shows that during the bombardment in the discharge gap a change will take place in the form of  $\Phi$  as a result of the variations in  $f_1$  and  $n_e$ . The presence of the microwave field causes magnification of the total electron energy, as a result of which the response of  $f_1$  widens with its maximum decreasing and moving in the direction of the higher frequencies; this variation applies also to the response of  $\Phi$  for an unchanged electron concentration. On the basis of previously published information the full electron energy remains constant and the action of the e.m. field results in a change of electron concentration thus, increasing the microwave power only leads to an increase in the maximum response of  $\Phi$  without changing its form. On the basis of the evidence obtained the difference function  $\Delta \Phi = \Phi_d - \Phi_{d=0}$  should alternate in sign when the electron energy is changed and it should vary monotonically with the change in electron density when the energy is constant. The experimental data show that as a result of the action of the microwave power there is a change in the response of  $\Phi$  corresponding to the electron energy variation and to the variation of directional

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