SOV/50-32-4-23/47

THE REPORT OF THE PARTY OF THE

The Preparation of Lustrous Coatings by the Electric Deposition of Copper-Gold Alloys

The best results were obtained under the following conditions of electrodepositing: the concentration of metal gold - 2 g/l; of metal copper - 9 g/l; KCN<sub>free</sub> - 10 to 12 g/l; thiourea - 0.6 to 0.8 g/l; temperature - 60 free density of current - 1.5 amp/dm². The stirring of the electrolyte by means of mechanical stirrers or altrascund was found to produce a positive effect on the quality of deposits.

There are 3 grates, 1 table and 16 references - 2 of which are

There are 3 graphs, 1 table and 16 references, 7 of which are Soviet, 5 English, 3 German and 1 American.

SUBMITTED: July 8, 1957

Card 2/2

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516830

ACCESSION NR: AP4043037

5/0077/64/009/004/0254/0259

AUTHORS: Dimitrov, R. V.; Grin', Yu. F.

TITLE: The study of hyperspeed development kinetics. 2. Determining duration of various stages in film development

SOURCE: Zhurnal nauchnoy i prikladnoy fotografii i kinomatografii, v. 9, no. 4, 1964, 254-259

TOPIC TAGS: photographic film, camera, silver deposit, emulsion,/17 T film, double negative type A film, Kiev 16S 2 camera, SKS 1M camera

ABSTRACT: The method of I. B. Blyumberg and R. V. Dimitrov (Zh. nauchn. i prikl. fotogr. i kinematogr., 1963, 8, 161) were used to determine the photographic density continuously during film development. Two types of movie cameras were used: the Kiev 165-2 camera, 64 frames/sec and the SKS-1M camera with 500 frames/sec in white light. The development processes investigated were: swelling of film layer, penetration into this layer of the alkali, temperature front, induction period, and visible reduction of silver. The films used in the investigation were isopanchromatic films 17-T and Double-negative type A motion picture films. The D(t) curves of the following cases were constructed: dry films

Card 1/2

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516830

ACCESSION NR: AP4043037

and water-swollen films at 200 temperature immorsed in the developer and heated to 600; dry films and water-swellen films heated to 600 and immersed in developer at same temperature; films (swellen in alkali and sulfide solutions at 600) immersed in developer at the same temperature; films swellen in developer at 600 and immersed in alkali and sulfide solutions at the same temperature; and exposed films, with preliminary swelling in the developer at 600. The developer for the double-negative films was the same as for those of type 17-T except for the exclusion of the benzotriazole component. The maximum value of D in the D versus to curves for type 17-T film was 2.5, attained at various time rates from 2.2 to 1.0 seconds, depending on the process under study. The double-negative films showed no such maximu in D. The results also show the diffusion rates of the various developers used to be almost identical. The highest rate of the development process was registered by the Agial reduction reaction. The authors express their deep gratitude to I. B. Blymberg, Yu. Ye. Utamov and V. A. Karpov for assisting in the work." Orig. art. has: 5 figures and 1 table.

ASSOCIATION: Leningradskiy institut kinoinzhonorov (LIKI) (Leningrad Institute of Motion Picture Engineering, LIKI)

SUBMITTED: 18Jul63

ENGL: 00

SUB CODE: IS Cord 2/2 NO REF SOY: 003

OTHER: 003

DIMITROV, R.V.; GRIN', Yu.F. Analyzing the kinetics of high-speed developing, part in Determining the time of the various development stager. Zmar.neach. 1 prikl.fot. (MIRA 17:10) i kin. 9 no.4:254-259 J1-ag 164. 1. Leningradskiy institut kintinzhenerov (LIK'). 

GRIN', YU.T.

"Pair Correlations of Nucleins in Nuclei"

report submitted for the 2nd USSR Conference on Nuclear Reactions at Low and Intermediate Energies, Moscow, 21-28 July 1960.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516830

GRIN', Yu.T.; DROZOV, S.I.; ZARETSKIY, D.F.

Green's function for odd nucles. Zhur. eksp. i teor. fiz. 38
(MIRA 14:9)
no.1:222-228 Jan '60.
(Potential, Theory of) (Nuclei, Atomic)

83739

S/056/60/038/004/032/048 B006/B056

24.6520 AUTHORS:

Grin', Yu. T., Drozdov, S. I., Zaretskiy, D. F.

TITLE:

The Moments of Inertia of Odd Atomic Nuclei

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960,

Vol. 38, No. 4, pp. 1297 - 1303

EN REPERIORS AND STREET CONTROL STREET CONTROL OF STREET

TEXT: In the regions 150 < A < 190 and A > 225 the atomic nuclei are deformed and, besides single-particle levels, they have also rotational ones. It was found experimentally that the moments of inertia of odd nuclei surpassed those of even nuclei considerably. Several authors have dealt with the derivation of formulas for the moments of inertia of even and odd nuclei, without, however, taking pair correlation into account. The authors of the present paper, for the purpose of determining the moments of inertia (taking pair correlation into account), use the Green functions for a finite system having an odd number of particles. The calculation method is analogous to that used by A. B. Migdal for even-even nuclei (Refs. 3,4). An explicit formula (18) is obtained for δJ, in which the difference of the moments of inertia J<sub>e</sub>(x<sub>e</sub>) - J<sub>e</sub>(x<sub>o</sub>)

Card 1/2

The Moments of Inertia of Odd Atomic Nuclei

occurs as an unknown term (the subscripts e and o mean even and odd).  $\kappa = \hbar \omega \beta/2\Delta$ ,  $\hbar \omega_0 = 41 \text{ A}^{-1/3}$  Mev. The  $\Delta$  values are partly known from the experiment and partly determined by interpolation according to the formula  $\Delta_e = \Delta_o + 1/\varrho_o$ , where  $\varrho_o$  denotes the density of the single-particle levels near the Fermi surface. For calculating the difference of  $J_e$ ,  $\Delta_e$ ,  $\Delta_o$ ,  $\beta_e$ , and  $\beta_o$  must be known. These four parameters are given in Table 1 for a total of 19 nuclei between 64 Gd 155 and 96 cm 245, as well as the relative change in the moments of inertia for nuclei having odd numbers of neutrons  $\delta J/J_T$  (in %). ( $J_T$  is the moment of inertia of the solid;  $\delta J/J_T \sim A^{-1/3}$ ). Table 2 gives the same parameters for nuclei having odd numbers of protons (11 nuclei from  $67^{\text{Ho}}$  to  $95^{\text{Am}}$  243). The authors thank S. T. Belyayev and A. B. Migdal for discussions. There are 2 tables and 9 references: 4 Soviet, 1 US, 1 Dutch, and 3 Danish.

SUBMITTED:

November 17, 1959

Card 2/2

81,718

S/056/60/039/001/038/041/XX B006/B056

24.6520 AUTHOR:

Grin', Yu. T.

19

TITLE:

The Influence Exerted by <u>Pair Correlation</u> of Nucleons Upon the Probability of Electromagnetic Transitions in the Nuc-

leus

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,

Vol. 39, No. 1(7), pp. 138-140

TEXT: The author investigates the influence exerted by pair correlation of nucleons upon the electromagnetic transitions in a deformed nucleus, in which the inner state of the nucleons is determined by the projection of the total momentum of the nucleon upon the symmetry axis of the nucleus. The totality of  $\pm \Omega$  and of the remaining state characteristics is denoted by  $\pm \lambda$ . By using a wave function of a system with odd particle number. which was given by  $\frac{S}{N} = \frac{T}{N} = \frac{N+2}{N} = \frac{N$ 

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The Influence Exerted by Pair Correlation S/056/60/039/001/038/041/XX of Nucleons Upon the Probability of Electro- B006/B056 magnetic Transitions in the Nucleus

particle numbers in both states; the  $\Delta$  of the states are different:  $\Delta' - \Delta = \delta \ll \Delta$ . It may be shown that in the case of the so-called "singleparticle" transitions in an odd nucleus, in reality "single-quasiparticle" transitions are concerned. The matrix element of such a transition is a superposition of the matrix elements of a transition of particle  $+\lambda_2 \longrightarrow +\lambda_1$  and that of a hole  $-\lambda_1 \longrightarrow -\lambda_2$ . Thus, the pair correlation considerably changes the shape of the transition matrix element, and likewise, accordingly, the transition probability. Investigation of an electric multipole transition in the neighborhood of the Fermi surface shows that such a transition has a forbiddenness factor  $\sim A^{-2}/3$  in comparison to a singleparticle transition. M. Ye. Voykhanekiy and Yu. N. Gnedin have calculated single-particle transition probabilities, and found that the theoretical values deviate by about one order of magnitude from the experimental ones. If, however, the pair correlation is taken into account, the agreement between the theoretical and experimental values is good. The author finally thanks D. F. Zaretskiy and V. M. Strutinskiy for discussing the results obtained. There are 1 table and 3 references: 2 Soviet and 1 Danish.

SUBMITTED:

February 15, 1960

Card 2/2

W. 6300 AUTHORS:

Grin', Yu. T., and Zaretskiy, D. F.

TITLE:

Collective excitations of non-spherical nuclei

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizichekaya, v. 25, no. 9, 1961, 1169 - 1175

TEXT: This paper was read at the 9th Annual Conference in Nuclear Spectroscopy. The authors generalize the theory of collective excitations of non-spherical nuclei. An equation is set up for the frequencies of collective nuclear oscillations, and a relation between the frequencies of the excited  $\beta(k=0)$  and  $\beta(k=2)$  vibrational levels is derived in quasiclassical approximation. Using the Green's two-particle function

 $K = \langle \Phi_0 | T(a_1 a_2^+ a_3 a_4^+) | \Phi_0 \rangle$ , the equation

 $1 = \varkappa \sum_{12} \frac{(E_1 E_1 - \varepsilon_1 \varepsilon_2 + \Delta^2)}{2E_1 E_2 \left[\omega^2 - (E_1 + E_1)^2\right]} \left| (q_{2k})_{12} \right|^2$  (9)

Card 1/5

(16).

Collective excitations of non- ....

is obtained for the frequencies of the bound states of two quasi-particles. Within the framework of the Nilsson model Eq. (9) can only be solved numerically for a real model. Using the model of an axisymmetrically deformed oscillator potential, the authors attempt to find a solution to this equation. Eq. (9) is represented in the form

$$1 = \varkappa \sum_{\lambda\lambda'} \frac{2\Delta^{3} |q_{\lambda\lambda'}|^{3}}{E_{\lambda} (4E_{\lambda}^{2} - \omega^{3})} + \varkappa \sum_{\lambda\lambda'} \frac{(E_{\lambda}E_{\lambda'} - \epsilon_{\lambda}\epsilon_{\lambda'} - \Delta^{3}) (E_{\lambda} + E_{\lambda'})}{2E_{\lambda}B_{\lambda'} [(E_{\lambda} + E_{\lambda'})^{3} - \omega^{3}]} |q_{\lambda\lambda'}|^{2}, \quad (15)$$

The first term is the sum over all transitions without energy change, and the second term is the sum over all other transitions. Since  $\omega$  is negligible in the latter sum, Eq. (15) can be reduced to

$$1 = \varkappa' \sum_{\lambda \lambda'} \frac{2\Delta^{9}}{E_{\lambda} (4E_{\lambda}^{9} - \omega^{9})} |q_{\lambda \lambda'}|^{9},$$

where

$$\mathbf{x}' = \frac{\mathbf{x}}{1 - \mathbf{x} \sum_{\lambda \lambda'} \frac{E_{\lambda} E_{\lambda'} - e_{\lambda} e_{\lambda'} + \Delta^{g}}{2E_{\lambda} E_{\lambda'} (E_{\lambda} + E_{\lambda'})} |q_{\lambda \lambda'}|^{g}}.$$

Card 2/5

Collective excitations of non- ....

In quasi-classical approximation, Eq. (16) leads to

$$1 - \frac{4\Delta^2}{\omega^2 \sqrt{\frac{4\Delta^2}{\omega^2} - 1}} = \arctan \frac{1}{\sqrt{\frac{4\Delta^2}{\omega^2} - 1}} = \sum_{\lambda \lambda'} |q_{\lambda \lambda'}|^2 \delta(\epsilon_{\lambda}) = \sum_{\lambda \lambda'} |q_{\lambda \lambda'}|^2 \delta(\epsilon_{\lambda$$

The following explicit solutions are obtained from this equation: 
$$\omega = 2\Delta \sqrt{\frac{3}{2}} \cdot \sqrt{1-x'} \cdot \sum_{\lambda \lambda'} |q_{\lambda \lambda'}|^2 \delta(\epsilon_{\lambda})$$
 for  $\omega \ll 2\Delta$  and

$$\omega = 2\Delta \left\{ 1 - \frac{\kappa}{8} x^{2} \left[ \sum_{\lambda \lambda'} \left| q_{\lambda \lambda'} \right|^{2} \delta (\epsilon_{\lambda}) \right]^{2} \right\} \qquad \text{for } 2\Delta - \omega \ll 2\Delta.$$

An analysis of those solutions indicates that collective excitations with energies much less than 2 $\Delta$  may exist in deformed nuclei.  $\beta$ - and  $\beta$ vibrations are interrelated by

Card 3/5

Collective excitations of non- ....

$$\frac{\omega_{ii}^{2}}{\omega_{\gamma}^{2}} = \frac{\sum_{\lambda\lambda'} \frac{1 - g\left(\frac{\varepsilon_{\lambda} - \varepsilon_{\lambda'}}{2\Delta}\right)}{\left(\frac{\varepsilon_{\lambda} - \varepsilon_{\lambda'}}{2\Delta}\right)^{3}} (q_{23})_{\lambda\lambda'}^{2} \delta\left(\varepsilon_{\lambda}\right)}{\sum_{\lambda\lambda'} \frac{1 - g\left(\frac{\varepsilon_{\lambda} - \varepsilon_{\lambda'}}{2\Delta}\right)}{\left(\frac{\varepsilon_{\lambda} - \varepsilon_{\lambda'}}{2\Delta}\right)^{3}} (q_{30})_{\lambda\lambda'}^{3} \delta\left(\varepsilon_{\lambda}\right)}.$$
(23)

From this relation, it is concluded that the frequencies of  $\beta$ - and  $\beta$ -vibrations agree within the framework of the model of an axisymmetric oscillator potential. The agreement of the frequencies is closely related to the degeneracy of the levels in the oscillator potential. Finally, the Nilsson model without spin-orbital coupling is briefly discussed. The following values are obtained for the ratio  $\beta_{\beta}$   $\beta_{\alpha}$  as a function of  $\alpha = 2D\varepsilon_{0}/\omega_{0}$   $\Delta$ :

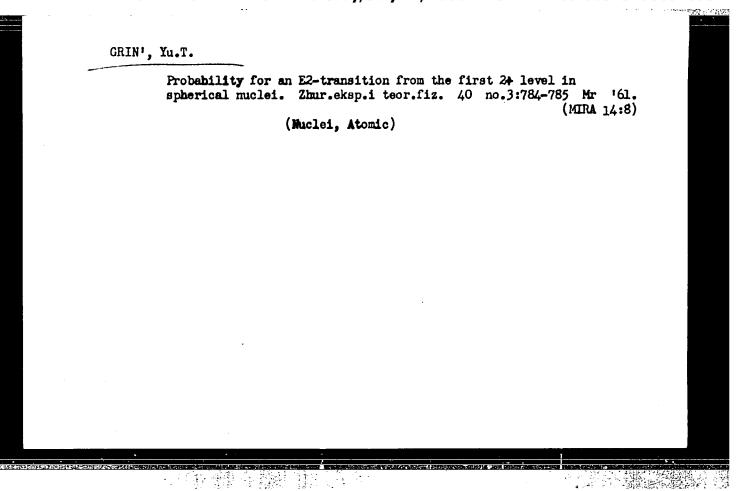
S. T. Belyayev (Zh. eksperim. i teor. fiz. 39, 1387 (1960)) is mentioned. Card 4/5

27480 \$/048/61/025/009/005/007 .. B104/B102

Collective excitations of non- ...

There are 11 references: 7 Soviet and 4 non-Soviet. The references to English-language publications read as follows: Marumori T., Progr. Theor. Phys., 24, 331 (1960); Baranger M., Phys. Rev., 120, 957 (1960); Perlman I., Proceedings of the International Conference on Nuclear Structure, p. 547, Kingston, Canada, 1960.

Card 5/5



Nuclei, Atomic—Spectra	<i>'</i> )	(MIRA 14:7)

S/056/61/041/002/014/028 B111/B112

AUTHOR:

Grin', Yu. T.

TITLE:

Effect of rotation on pair correlation in the nucleus

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41,

no. 2, 1961, 445 - 450

TEXT: Rotation of paired particles leads to a decrease of the energy gap A and to an increase of the moment of inertia. Since the change of  $\Delta$  depends on the velocity of rotation or the spin I of the system this effect requires a correction to the moment of inertia which is proportional to I(I+1) and

to the energy which is proportional to  $I^2(I+1)^2$ . The author gives diagonal corrections to the solution of A. Migdal (Ref.1: ZhETF, 37, 249, 1959).

 $\Delta = \gamma \int_{c} F^{*}(\vec{r}, \vec{r}, \omega) \cdot \frac{d\omega}{2\pi}$ , where  $F(\vec{r}, \vec{r}, \omega)$  - is a Fourier component of F with respect to time, y is the interaction constant of the particles. The contour C consists of the real axis and an infinite semicircle in the upper

Card 1/3

Effect of rotation on pair...

S/056/61/041/002/014/028 B111/B112

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semiplane. The diagonal corrections of the perturbation term  $\mathbf{M}^{\mathbf{X}}\Omega$ , where  $\mathbf{M}^{\mathbf{X}}$  is the angular momentum with respect to the x axis,  $\Omega$  is the angular velocity are given in second perturbation theoretical approximation. In second order  $\mathbf{\Delta}^{\mathbf{II}} = \mathbf{\Sigma} \mathbf{F}_{\lambda}^{\mathbf{II}}(0) / (\mathbf{\Sigma}^{\mathbf{I}}/2\mathbf{E}_{\lambda})$  is obtained for  $\Delta$  averaged over the

nuclear volume. An estimation shows that the corrections to  $\overline{\Delta}$  can be neglected due to changes of the chemical potential.

 $\Delta^{(1)} = -J_0 I(I+1) \cdot L(x_1,x_2)/(29\Delta^2 J^2)$  holds for axisymmetrical oscillator deformations.  $L(x_1,x_2)$  is an expression which was calculated by using the results obtained by A. Migdal (Ref.1). The energy correction in the rotational spectrum is found to be  $E \approx -J_0 I^2 (I+1)^2 L(x_1,x_2)/(49_0 \Delta^2 J^3)$  by using the results obtained by A. Migdal. In conclusion, the author states that rotation considerably influences pair correlation and that in the estimation of  $I_0$  (spin in the transition point) the change of  $\Delta$  can be neglected only in first approximation. The author thanks V. M. Galitskiy

Card 2/3

S/056/61/041/002/014/028 air... B111/B112

Effect of rotation on pair...

and A. B. Migdal. There are 5 references: 3 Soviet and 2 non-Soviet. The two references to English-language publications read as follows:
Ref. 3: B. Mottelson, J. Valentin, Phys. Rev. Lett., 5, 511, 1960; Ref.4:
F. Stephens, R. Diamond, I. Perlman, Phys. Rev. Lett., 3, 435, 1959.

SUBMITTED: February 4, 1961

Card 3/3

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516830

CRIN', Yu.T.; PAVLICHENKOV, I.M.

Collective gyromagnetic ratio for odd atomic nuclei. Zhur.
eksp.i teor.fiz. 41 no.31954-958 S '61. (MIRA 14:10)
(Nuclei, Atomic)

24 6200

39484 \$/056/62/043/002/018/055 B102/B104

AUTHORS: Grin', Yu. T., Pavlichenkov, I. M.

TITLE: Non-adiabatic corrections to the rotational spectrum of atomic nuclei

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoj fiziki. v. 43, no. 2(8), 1962, 465-472

TEXT: The rotational spectrum of deformed nuclei with 150 < 4 < 190 and 4 > 226 has an excitation energy which is related to the nuclear spin by  $E_{\rm T} = E_{\rm o} + I(I+1)/2J - BI^2(I+1)^2$ , where J is the moment of inertia, and  $E_{\rm o}$  is the ground-state energy. B is known to increase when the nuclei become spherical; it depends on the interaction between rotation and single-particle and vibrational motions. The authors calculated B in semi-classical approximation on the basis of the microscopic model and determined the contribution to B of the interaction between rotation and single-particle motion. In the case of a nuclear oscillator potential

 $B = J_0^2 \tilde{\mathcal{D}}(v_1, \alpha, v_2)/20 \gamma_0 \tilde{\mathcal{D}}^2 J^4,$ 

Card 1/3

\$/056/62/043/002/018/053 B102/B104

Non-adiabatic corrections to the ...

and in the limiting case of large  $\Delta$ ,  $B=C_1J_0^2/(c_0^2J_{11}^2)$ ; if the nuclear deformation is small  $(\beta \to 0)$ ,  $B=C_2/(c_0^2)^2 \sim 1/4$ . I denotes the energy gap,  $J_0$  the solid-state moment of inertia, and  $J_{11}$  the ideal-fluid moment of interia of the nucleus,  $J_1$  and  $J_2$  are the energy differences of the transitions:  $J_1(2)=(J_2-(+)J_2)/2$ ;  $J_2=(J_1-(+)J_2)/2$ ;  $J_3=(J_1-(+)J_2)/2$  is the total level denoity at the Fermi surface, and  $J_1$  is a tabulated function  $J_1$ . Conclusions: If pair correlation is taken into account, the contribution to  $J_1$  of the interaction between rotation and single-particle motion is much greater than in the case of non-interacting particles and may reach values which are experimentally observable. If  $J_1$  is given as the sum of the  $J_1$ 's of neutron and proton

$$B = B_n + B_p = \frac{J_0^2}{20J^4} \left[ \left( \frac{N}{A} \right)^2 \frac{\Phi(x_n)}{\Delta_n^2 \rho_{0n}} + \left( \frac{Z}{A} \right)^2 \frac{\Phi(x_p)}{\Delta_p^2 \rho_{0p}} \right], \tag{19}$$

Card 2/3

S/056/62/043/002/018/053 B102/B104

Non-adiabatic corrections to the ...

$$f_{\rm oN} = \frac{3}{76} \, A(A/N)^{2/3} \, MeV^{-1}$$
,

the agreement with experimental results is only qualitative. Even with strong deformations the experimental value is 2-5 times greater than 2. There are 2 figures and 3 tables.

SUBMITTED: January 6, 1962

Card 3/3

li3377 \$/056/62/043/005/041/058 B125/B104

AUTHOR:

Grin', Yu, T.

TITLE:

The moments of inertia of a heated nucleus and the angular anisotropy of fission fragments

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 5(11), 1962, 1880 - 1884

TEXT: Using results of A. B. Wigdal (ZheTF, 37, 249, 1959) the moment of inertia with respect to the axis i was found as a function of the excitation energy of a nucleus for  $T \neq 0$ :

$$J_{\ell} = -\sum_{12} |M_{\ell}|_{12}^{2} (G_{1}G_{2} - F_{1}F_{2}) =$$

$$= \sum_{12} \left[ \frac{(u_{1}v_{3} - v_{1}u_{3})^{2} \left( \operatorname{th} \frac{E_{1}}{2T} + \operatorname{th} \frac{E_{2}}{2T} \right)}{2(E_{1} + E_{2})} + \frac{(u_{1}u_{3} + v_{1}v_{3})^{2} \left( \operatorname{th} \frac{E_{1}}{2T} - \operatorname{th} \frac{E_{2}}{2T} \right)}{2(E_{1} - E_{2})} \right] |M_{\ell}|_{12}^{2}.$$
(3).

Omitting the part that is associated with the change in the pair correlation owing to rotation, and passing from the summation to the integral, Card 1/5

S/056/62/043/005/041/058 B125/B104

The moments of inertia of a...

one obtains

$$J_{\parallel} = \frac{1}{4T} \int_{-\infty}^{+\infty} \frac{d\epsilon}{\cosh^{3}(\sqrt{\epsilon^{3} + \Delta^{3}/2T})} \sum_{1} |M_{\epsilon}|_{11}^{2} \delta(\epsilon_{1}) = \frac{2\Delta}{T} \sum_{m=1}^{\infty} (-1)^{m+1} m K_{1} \left(\frac{m\Delta}{T}\right) J_{\parallel}^{0}. \tag{5}$$

 $J_{11}^{0} = \sum_{1} |M_{Z}|_{11}^{2} \delta(\epsilon_{1})$  is the moment of inertia of the rigid body with respect to the z-axis,  $K_{1}$  is a cylindrical function,  $\Delta$  is a quantity determining the pair correlation, which depends on temperature in a known manner. For the first time, eq. (5) was found by V. Strutinskii (Compt. Rend. Congress Intern. Phys. Nucl., Paris, 1959, p. 617) in a quasiclassical way. For  $T \ll \Delta$ , the expression for  $J_{11}$  which follows from (5) by way of an asymptotic expression for  $K_{1}$ , approaches zero according to an exponential law. Near the temperature  $T_{11}$  of phase transition the equations

$$J_{\parallel} = \left[1 - \left(\frac{\Delta}{2T}\right)^{2} \int_{0}^{\infty} \left(\frac{\ln x}{x}\right)^{2} dx\right] f_{\perp}^{\bullet},$$

$$J_{\parallel} = \left[1 - 0.9\left(1 - \frac{T}{T_{e}}\right)\right] f_{\parallel}^{\bullet}$$
(7)

Card 2/5

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The moments of inertia of a ...

S/056/62/043/005/041/058 B125/B104

are valid. At  $\triangle$  = 0 or at T = T<sub>C</sub>,  $J_{ij}$  =  $J_{ij}^{0}$  and  $J_{ij}$  jumplike assumes the value of 0 at T=0. The thermodynamic formulas can be used only when  $T\gg 1/\varrho_0$ , where  $\varrho$  is the density of the levels on the Fermi surface. The operator  $M_{_{\mathbf{X}}}$  of the projection of the angular momentum upon the x-axis contains non-diagonal elements. With  $d=e_1-e_2$ , the formula

 $J_{\perp} = \left\{ 1 - \frac{1}{d_{1}^{0} + d_{2}^{0}} \left[ d_{2}^{0} g\left(\frac{d_{1}}{2\Delta}\right) \operatorname{th} \frac{\sqrt{\Delta^{0} + d_{1}^{0}/4}}{2T} + d_{1}^{0} g\left(\frac{d_{1}}{2\Delta}\right) \operatorname{th} \frac{\sqrt{\Delta^{0} + d_{2}^{0}/4}}{2T} \right\} J_{\perp}^{0}, \tag{9}$  $J_{\perp}^{0} = \sum_{12} |M_{z}|_{12}^{2} \delta(\epsilon_{1}), \quad d_{1} = \omega_{1} - \omega_{2}, \quad d_{2} = \omega_{2} + \omega_{2}.$ 

is derived by the usual quasiclassical method assuming a vector potential,  $\omega_{_{\bf Z}}$  and  $\omega_{_{\bf Z}}$  are the oscillator frequencies with respect to the x-axis and z-axis. The effective moment of inertia  $J_{eff} = (1/J_{||} - 1/J_{\perp})^{-1}$  determines the angular anisotropy of the fragments flying off. Fig. 2 shows  $J_{eff}^{T/}(J_{eff}^{T}_{c})$  as a function of the excitation energy, as calculated from

The moments of inertia of a...

S/056/62/043/005/041/058 B125/B104

(5), (9), and

$$E^{\bullet} = TS/2 + \rho_{\bullet} (\Delta_{\bullet}^{0} - \Delta_{\bullet}^{0})/4.$$

(10).

 $\Delta$  and S were obtained from the theory of superconductivity by means of the

 $S = \frac{2\Delta^4 p_0}{T} \sum_{m=1}^{\infty} (-1)^{m+1} K_0 \left(\frac{m\Delta}{T}\right),$ 

(11)

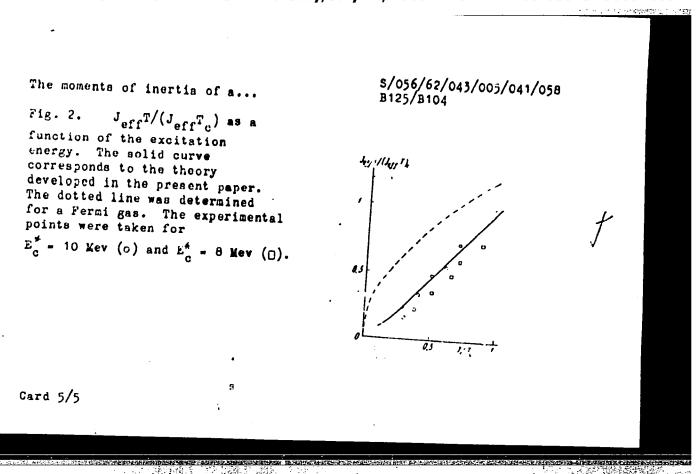
$$\ln\left(\frac{\Delta_0}{\Delta}\right) = 2\sum_{m=1}^{\infty} \left(-1\right)^{m+1} K_0\left(\frac{m\Delta}{T}\right).$$

(12).

The theoretical and the experimental data on the angular distribution of the fission fragments can be matched when the effects of pair correlation are consistently taken into account. There are 2 figures.

SUBMITTLL June 8, 1962

Card 4/5



L 16510-65 EWT(1)/EWT(m) DIAAP/IJP(c)/SSD/AFWL S/0056/64/047/005/1847/1854 ACCESSION NR: AP5000343

AUTHOF: Grin', Yu. T.; Pavlichenkov, I. M.

3 21

TITLE: Rules for the intensities of electromagnetic transitions in deformed nuclei |q

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 5, 1964, 1847-1854

TOPIC TAGS: electromagnetic transition, deformed nucleus, selection rule

ABSTRACT: To ascertain whether the deviations from the Alaga rule can be caused by factors other than the Coriolis forces in the deformed nucleus, the authors compare experimental data with proposed theoretical formulas, using concrete values of structure-dependent parameters calculated on the basis of existing nuclear models, and determine the ratios of the intensity of the electromagnetic single-

Card 1/3

L 16510-65 ACCESSION NR: AP5000343

particle transitions in deformed odd nuclei. It is shown that the corrections to the wave functions of the nucleus, due to the coupling between the rotation and the internal motion (Coriolis force), can explain the observed deviations from the Alaga rule and the asymmetry in the behavior of the electric dipole transitions with  $\Delta K=0$  and  $\Delta K=\pm 1$ . Comparison of the developed theory and experiments show that the observed deviations from the Alaga rule are essentially due to the Coriolis forces. The limits of applicability of the simple phenomenological description developed in this paper depend on the accuracy of the experiments and of the data reduction. "The authors express deep gratitude to A. M. Demidov for help in the selection and analysis of the experimental data." Orig. art. has: 12 formulas and 4 tables.

ASSOCIATION: None

SUBMITTED: 11May64

ENCL: 00

Cord 2/3

L 16510-65"
ACCESSION NR: AP5000343

SUB CODE: NP,EM NR REF SOV: 001 OTHER: 012

Cord 3/3

ACCESSION NR: AP5011215  AUTHOR: Grin', Yu. T.; Strutinskiy, V. M.  TITLE: Level densities and thermodynamic functions of atomic nuclei with regard to pair correlation effects  SOURCE: Yadernaya fizika, v. 1, no. 3, 1965, 420-425  TOPIC TAGS: nucleus, correlation, Fermi gas, nuclear physics, nuclear level, even	
ACCESSION NR: AP5011215  AUTHOR: Grin', Yu. T.; Strutinskiy, V. M.  TITLE: Level densities and thermodynamic functions of atomic nuclei with regard to pair correlation effects  SOURCE: Yadernaya fizika, v. 1, no. 3, 1965, 420-425	
TITLE: Level densities and thermodynamic functions of atomic nuclei with regard to pair correlation effects  SOURCE: Yadernaya fizika, v. 1, no. 3, 1965, 420-425	
TITLE: Level densities and thermodynamic functions of atomic nuclei with regard to pair correlation effects  SOURCE: Yadernaya fizika, v. 1, no. 3, 1965, 420-425	
TOPIC TAGS: nucleus, correlation, Fermi gas, nuclear physics, nuclear level, even	
even nucleus	
ABSTRACT: Thermodynamic functions, level densities, and moments of inertia of even-even deformed nuclei are calculated, taking account of the effects of pair correlation over the entire range of excitation energies where thermodynamic considerations are applicable—for energies approximately equal to 3-4 Mev and above.	
Existence of different pair correlation values for neutrons and protons is recognized. A comparison is made between experimentally determined values of neutron	
and proton pair correlation energies and those found from the formulas introduced here. The experimental values are known to within 20%; the theoretically derived	
values differ from them by less. Hence by proper choice of pairing correlation energies, values obtained from the formulas derived here for nuclear level density	-
Card 1/2	
where the second of the second	

## "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051683

L 48109-65 ACCESSION NR: AP5011215

0

at given neutron binding energy can be put in agreement with experimental results. The basic equation is

The anomaly in the nuclear level density that is associated with the phase transition is found to occur in an interval no smaller than 1.5-2 Mev. In this interval the nuclear level density changes by far more than the value of the "jump." Thus, it makes no sense to speak of the possibility of observing the phase "jump" or discontinuity in the level density. The level density in the nucleus is more than an order of magnitude less than in the Fermi-gas picture. Thus, additional study of pair correlation is very important for interpretation of the level density in the excited nucleus. Orig. art. has: 1 figure, 1 table, 19 formulas.

ASSOCIATION: none

SUBMITTED: 070ct64 ENCL: 00

SUB CODE: NP

NO REF SOV:

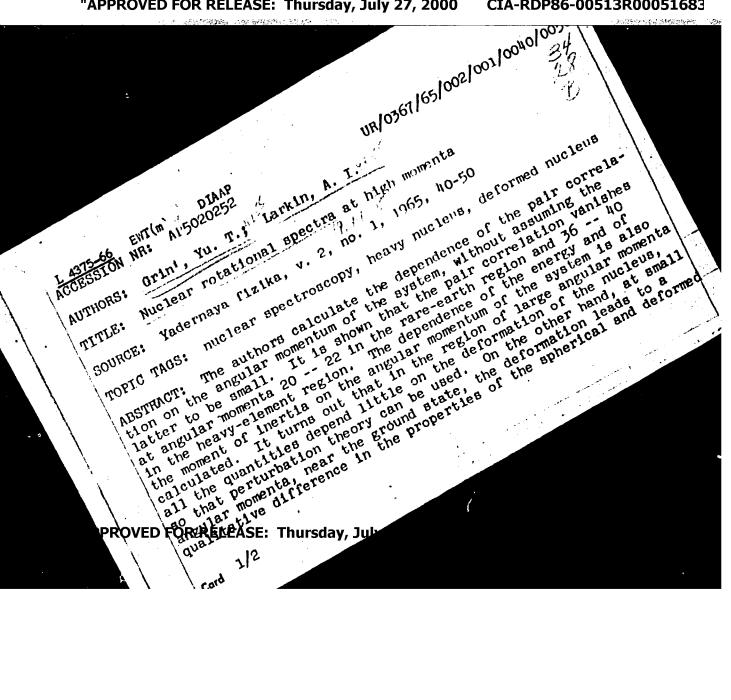
OTHER: 011

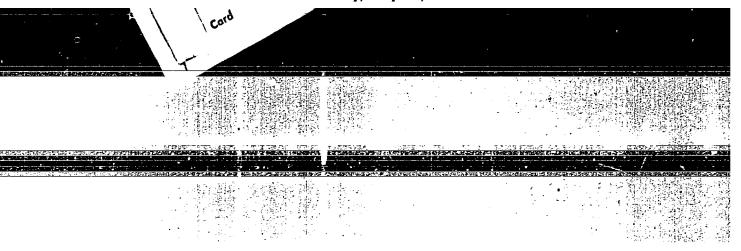
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#### CIA-RDP86-00513R00051683 "APPROVED FOR RELEASE: Thursday, July 27, 2000





ACCESSION NR: AP5020252 At small angular momenta the pair correlation causes the moment of inertia to decrease by a factor 2 -- 3 compared with the rigid-body value. With increasing angular momentum, the moment of inertia increases and reaches its rigid value at some critical angular

This corresponds to a second-order phase transition in an infinite system. Above the critical angular momentum, the moment of inertia remains that of a rigid body and its dependence on the angular momentum is much weaker than below the critical momentum, being determined only by the stretching of the nucleus by the rotation. The

theory developed is compared with experiment and a qualitative agreement is noted. The authors thank L. P. Gorkov and A. B. Migdal for useful discussions. Orig. art. has: 2 figures and 54 formulas.

ASSOCIATION: None

L 4375-66

SUBMITTED: 19Feb65

ENCL: 00

SUB CODE: NP. OP

NR REF SOV: 006

OTHER:

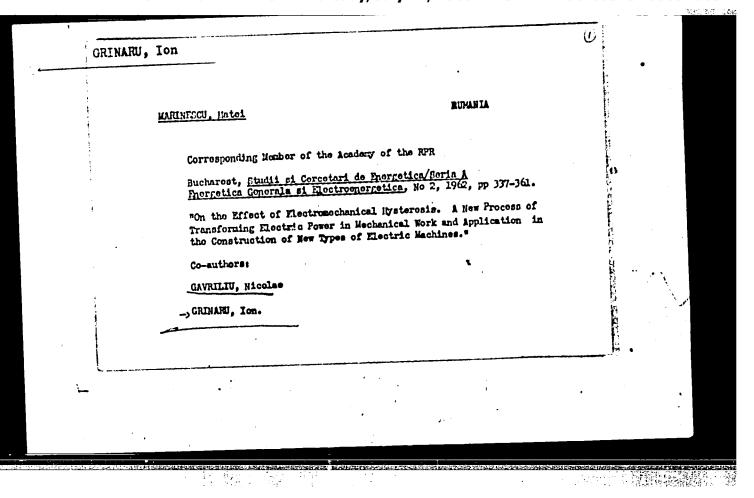
MALAKHOVSKIY, Yu.Ye.; MOLODYKO, N.P. GRIN', Z.A.

Bone marrow transplantation in acute leukemia in children. Probl. gemat.i perel.krovi no.9:21-26 '61. (MIRA 14:9)

l. Iz detskogo otdeleniya (zav. N.P. Molodyko) Kemerovskoy oblastnoy bol'nitsy (glavnyy vrach T.A. Litkova) i Oblastnoy stantsii perelivaniya krovi (glavnyy vrach Ye.S. Davydova).

(MARROW--TRANSPLANTATION) (LEUKEMIA)

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SAVUKYNAS, B.; VANACAS, A.A; VITKAUSKAS, V.; VCSYLYTE, K.;
ERMANYTE, I.; GRINAVECKIENE, E. otv. red.; SENKUS.J.,
red.; LUKOSEVICIUS, St., tekhn. red.

[Names of rivers sts., tekhn. red.

[Names of rivers are vardynas. Vilnius, Valstybine
politines ir mokslines literaturos leidykla, 1963. 225 p.

(MIRA 16:11)

1. Lietuvos TSR Mokslu Akademija. Vilna. Lietuviu kalbos
ir literaturos institutas.

(Names, Geographical--Dictionaries)

```
KORSHAKOVA, A.S.; BOLDYREV, T.Ye.; ALEKSANYAN, A.B.; SHATROV, I.I.; LEYTMAN,
L.V.; FROLOY, V.I.; SEMINA, N.A.; DEVOYNO, L.V.; SIZINYSEVA, V.P.;
HATTRINA, L.M.; ABAKAROV, U.A.; GRINAVTSEVA, V.P.; MEDZHIDOV, V.;
KORSHUHOVA, N.A.

Studies on the reactogenic properties of Gamaleia IEM polyvaccine.
Zhur.mikrobiol., epid.i immun. 30 no.11:37-41 N '59. (MIRA 13:3)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMM SSSR.

(DYSHETHEY BAGILLAR; immunel.)

(TYPHOID IMMUNEL.)

(PARATYPHOID FEVERS immunel.)

(VACCIMATION)
```

NERETIN, V.Ya., st. nauchn. sotr., red.; CRIHAVTSEVA, V.P., red.; GOROKHOVA, N.A., red.; SHEREMET, S.I., red.; OSTROVSKAYA, L.M., red.

[Progress in the diagnosis and treatment of nervous diseases; transactions of the Institute] Uspekhi v diagnostike i lechenii nervnykh zabolevanii; trudy instituta. Pod red. V.IA. Neretina.. Moskva, 1963. 358 p. (MIRA 17:6)

1. Moscow. Oblastnoy nauchno-issledovatel'skiy institut.

Ultrahigh-frequency therapy in some diseases of the peripheral nervous system. Eas.med.shur. 40 no.5:63-65 S-0 \*59.

(MIRA 13:7)

1. Is fixioterapevticheskogo otdeleniym (sav. - dotsent A.G. Grinbarg) Easanskogo meditsinekogo instituta.

(MERVOUS SYSTEM--DISEASES) (ELECTROTHERAPEUTICS)

BUYANOVSKAYA, A.A.; GRINBART, S.B.; ZAYTSEV, Yu.P.; VOLK, D.T.

Hydrobiological conditions and food reserves of the Dniester Liman.

Trudy problet tem.sev.no.1:93-99 '51. (MIRA 9:7)

(Dniester Liman-Biology)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516830

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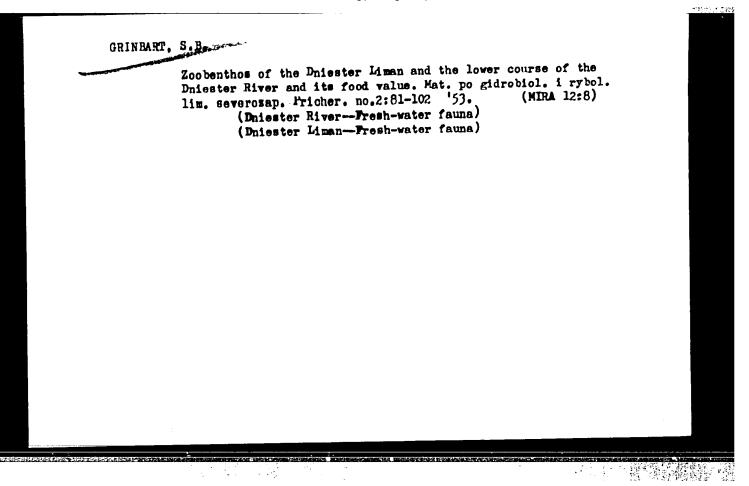
### "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051683

ORIFFART, S.B., dots, kend. Siol. rank

Zoobenthos in the limans of Is mil Province (Shabolat, Burnan, Alibor, Shagany) and its fond value, Mat. po gidrobiol, i rybol.lim. navarozap.
Pricher, [no.1]:75-53 152. (MIRA 12:7)

(Iswail Province—Marine fauna)



USSR / Farm Animals. Swine

Q-4

Abs Jour: Ref Zhur-Biol., No 3, 1958, 12132

Author : Grinbart S. B., Zambriborshch F. S., Gorobets G. P.

Inst:

Title : On the Utilization of Mytilus for Feeding Swine (Ob

ispol'zovanii midiy dlya kormleniya sviney)

Orig Pub: V pomoshch' s. kh. i rybovodstvu, Vyp. 1. Odessa,

1956, 21-22

Abstract: Feeding of porkers of the test group with Mytilus

mussels, both in a boiled and raw form, 1 to 4 kg. daily per head, has brought about their weight increase up to 770-800 g. (200-250 g. more than in control animals). The utilization of Mytilus, 1 kg. daily for weanlings and 2 kg. for porkers, is recom-

mended.

card 1/1

GRINBART, S.B., dots.

Immigration and dispersal of the crab Enitropanopeus harrissii in limans of the northern part of the Black Sea region. Pratsi Od. un. Ser.biol.nauk no.8(vol.147):143-146 '57.

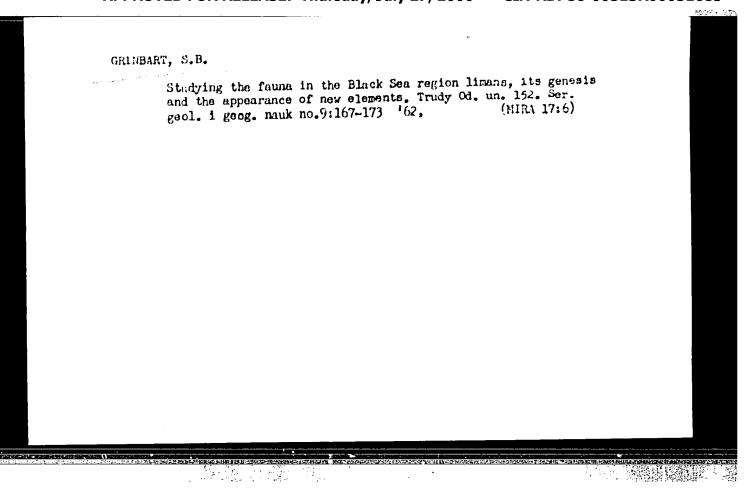
(MIRA 12:4)

(Black Sea region-Crabs)

GRINBART, S.B. [Hrinbart, S.B.]; RYABCHIKOV, P.I., [Riabchykov, P.I.]

Materials on the biology, distribution, and destructive activity
of shipworms (Teredo navalis L.) in the northwestern part of the
Black Sea. Nauk.sap.Od.biol.sta. no.1:140-152 '59. (MIRA 14:7)
(Black Sea.—Shipworms)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516830



# Pontoon made of corrugated sheets used for five ton capacity floating cranes. Biul.tekh.-ekon.inform. no.7:75-76 '58. (MIRA 11:9) (Cranes, derricks, etc.)

GRINBAUM, A.F., insh.; KREYN, Z.A., inzh.; LEPILOV, V.A., inzh.

Stability of freight and passenger ships on inland waterways.
Rech. transp. 17 no.8:48-52 Ag '58. (MIRA 11:10)
(Stability of ships)

ORINBAUM, A.F., inzh.; KREYN, Z.A., inzh.; LEPILOV, V.A., inzh.

Using gauffered plates en pentoons under cranes with a lead
capacity of five tens. Sudostroenie 25 no.3:56-58 Mr '59.
(MIRA 12:5)

(Penteens) (Cranes, derricks, etc.)

DORMIDONTOV, Nikolay Konstantinovich, doktor tekhn. nauk, prof.;

INSENKO, Lavr Georgiyevich, kand. tekhn. nauk; PAVLOV,

Aleksandr Ivanovich, dots., kand. tekhn. nauk; TERENT YEV,

Georgiy Borisovich, kand. tekhn. nauk; SHMUYLOV, Nikolay

Leonidovich, st. prepod. inzh.; Prinimal uchastiye KUZNETSOV, V.P.,

kand. tekhm.nauk; dots.; SMOINAKOV, B.N., dots., retsemment; GRINBAUM, A.F.,

insh.retsenzent; VARENOV, P.G., inzh., retsenzent; ASHIK, V.V., red.; VOICHOK,

K.M., tekhn.red.

[Design and arrangement of ships for inland navigation] Kon
struktsiia i ustroistvo sudov vnutrennego plavaniia. Pod ob
shchei red. N.K. Dormidontova. Leningrad, Izd-vo "Rechnoi

transport," Pt.2. [Metal ships] Metallicheskie suda. 1962.

(MIRA 15:12)

1. Kafedra arkhitektury i proyektirovaniya korablya Lenin-

l. Kafedra arkhitektury i proyektirovaniya korablya Leningradskogo instituta vodnogo transporta (for Dormidontov, Lysenko, Pavlov, Terent'yev, Shmuylov, Kuznetsov). (Naval architecture) (Ships, Iron and steel)

GRINBAUM, F.T.	DECEASED C' 1961	1%2/5
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	San III	
MICROBIOLOGY		
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# GRINEAUM, F.T. "Infectious diseases of man and their pathogens, edited by A.Grumbach, W.Kikuth. Reviewed by F.T.Grinbaum. Zhur.mikrobiol.epid.i immun. 31 no.9:146-150 S '60. (MIRA 13:11) (GRUMBACH, A.) (KIKUTH, W.)

PLETSITYI, Dmitriy Frantsevich; GRIDBAUD, F.T., red.; SERCHILO, K.K., tekhn. red.

[Dynamics of immunity] Dinamika immunitota. Moskva, Modgiz, 1961. 146 p. (NIRA 15:3)

(DMUNITY)

BUGROVA, V.I., kand. med. nauk; VINOGRADOVA, I.N., kand.biol. nauk; D'YAKOV, S.I., kand. med. nauk; ZHDANOV, V.M., prof.; ZHUKOV-VEREZHNIKOV, N.N., prof.; ZEMTSOVA, O.M., kand. med. nauk; IMSHENETSKIY, A.A., prof.; KALINA, G.P., prof.; KAULEN, D.R., kand. med. nauk; KOVALEVA, A.I., doktor med. nauk; KRASIL'NIKOV, N.A., prof.; KUDLAY, D.G., doktor biol. nauk; LEBEDEVA, M.N., prof.; PERETS, L.G., prof. [deceased]; PEKHOV, A.P., doktor biol. nauk; PLANEL'YES, Kh.Kh., prof.; POGLAZOVA, M.N., kand. biol. nauk; PROZOROV, A.A.; SINITSKIY, A.A., prof.; FEDOROV, M.V., prof. [deceased]; SHANINA-VAGINA, V.I., kand.biol. nauk; VYGODCHIKOV, G.V., prof., zamestitel otv. red.; ADO, A.D., prof., red.; BARCYAN, O.A., prof., red.; BILIBIN, A.F., prof., red.; BOLDYREV, T.Ye., prof., red.; VASHKOV, V.I., doktor med. nauk, red.; VYAZOV, O.Ye., doktor med. nauk, red.; GAUZE, G.F., prof., red.; COSTEV, V.S., prof., red.; GORIZONTOV, P.D., prof., red.; CRINBAUM, F.T., prof., red. [deceased]; GROMASHEVSKIY, L.V., prof., red.; YELKIN, I.I., prof., red.; ZASUKHIN, L.N., doktor biol. nauk, red.; ZDRODOVSKIY, P.F., prof., red.; KAPICHNIKOV, M.M., kand. med. nauk, red.; KLEMPARSKAYA, N.N., prof., red.; KOSYAKOV, P.N., prof., red.; LOZOVSKAYA, Ye.S., kand. med. nauk, red.; MAYSKIY, I.N., prof., red.; MUROMTSEV, S.N., prof., red. [deceased]; (Continued on nex (Continued on next card)

BUGROVA, V.I.——(continued) Card 2.

NIKITIN, M.Ya., red.; NIKOLAYEVA, T.A., red.; PAVLOVSKIY, Ye.N., akademik, red.; PASTUKHOV, A.P., kand. med. nauk, red.; PETRISHCHEVA, P.A., prof., red.; POKNOVSKAYA, M.P., prof., red.; POPOV, I.S., kand. med. nauk, red.; ROGCZIN, I.I., prof. red.; RUDNEV, G.P., prof., red.; SERGIYEV, P.G., prof., red.; SKRYABIN, K.I., akad., red.; SOKOLOV, M.I., prof. red.; SOLOV'YEV, V.D., prof., red.; TRIBULEV, G.P., dotsent, red.; CHUMAKOV, M.P., prof., red.; SHATROV, I.I., prof., red.; TIMAKOV, V.D., prof., red.toma; TROITSKIY, V.L., prof., red. toma; PETROVA, N.K., tekhn.red.;

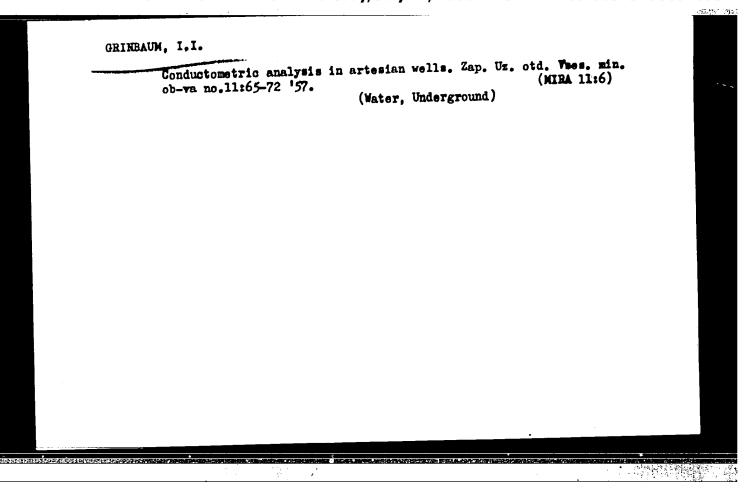
[Multivolume manual on the microbiology, clinical aspects, and epidemiology of infectious diseases] Enogotomnoe rukovodstvo po mikrobiologii klinike i epidemiologii infektsionnykh boleznei. Otv. red. N.N.Zhukov-Verezhnikov. Moskva, Medgiz. Vol.1. [General microbiology] Coshchaia mikrobiologiia. Otv. red. N.N.Zhukov-Verezhnikov. 1962. 730 p. (MIRA 15:4)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSA (for Zhdanov, Zhukov-Verezhnikov, Vygodchikov, Bilibin, Vashkov, Gromashevskiy, Zdrodovskiy, Rudnev, Sergiyev, Chumakov, Timakov, Troitskiy). (Continued on next card)

BUGROVA, V.I.——(continued) Card 3.

2. Chlen-korrespondent Akademii nauk SSSR (for Imshenetskiy, Krasil'nikov). 3. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Planel'yes, Baroyan, Boldyrev, Gorizontov, Petrishcheva, Rogozin). 4. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Muromtsev).

(MICROBIOLOGY)



ORINBAUM, I. I.: Master Geolog-Minerale Sci (diss) -- "Laminar determination of the rate of filtration of ground water from separate wells using a resistance meter". Tashkent, 1958, published by SAGU. 15 pp (Min Higher Educ USSR, Central Asia State U im V. I. Lenin), 150 copies (KL, No 4, 1959, 123)

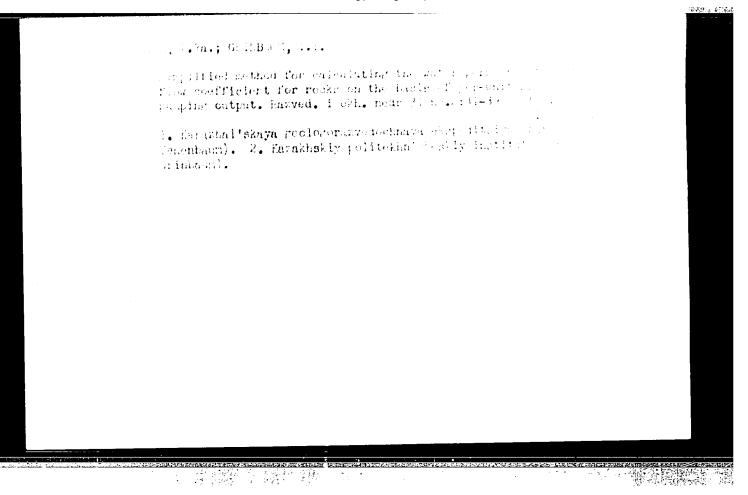
APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516830

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# ORINBAUM, I.I. Layer-by-layer determination of the seepage coefficient for rocks from isolated wells by means of a resistivity meter in flooding. Vop. rasved. geofis. no.3:191-203 164.

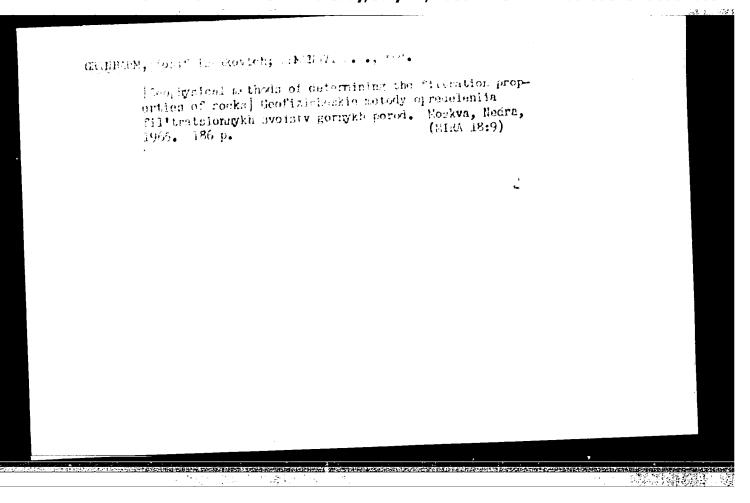
يقائي ،

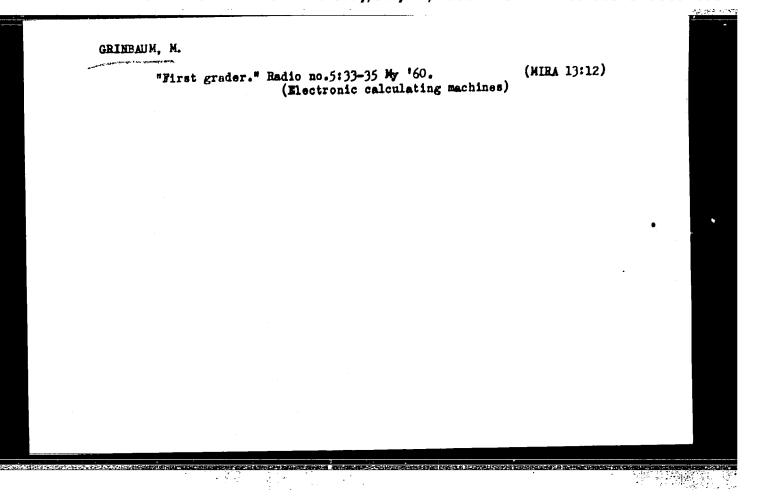
(MIRA 18:2)



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CIA-RDP86-00513R00051683





### GRINBAUM, M.I.

Model of an electronic calculating machine. Fiz. v shkole 20 no.6:56-62 N-D '60. (MIRA 14:2)

1. 122-ya sredmyaya shkola, Moskva.
(Electronic calculating machines)

GRINBAUM, M.I. (Moskva) Homemade physical instruments. Fiz. v shkole 21 no.2:87-89 (MIRA 14:8) Mr-Ap '61. (Physical instruments) 

GRINBAUM, M.I. Models of flaw detectors. Fiz.v shkole 21 no.4:91-96 J1-Ag 161. (MIRA 14:10) 1. 722-ya shkola, Moskva.
(Testing machines--Models)

# GRINBAUM, M.I. Model for illustrating the reflex activity of an organism. Fiz. v shkole 23 no.3:73-79 My-je '63. 1. 842-ya shkola, Moskva.

# GRINBAUM, M.I. Measuring the energy of photoelectrons by the method of damping voltage. Fiz. v shkols 23 no.5:58-59 S=0 '63. (MIRA 17:1) 1. 842-ya shkola, Moskva.

# GRINBAUM, N.B.; SMIRNOVA, A.M.

Types of curves of streptococcal antigen in patients with a first attack of rheumatic fever. Pediatriia no.8:42-47 161.

(MIRA 14:9)

1. Is kefedry pediatrii (zav. - prof. E.A. Gornitskava) I Leningradskogo meditsinskogo instituta imeni akad. I.P. Pavlova i otdele mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. V.I. Roffe) Instituta eksperimental noy meditsiny AMN SSSR. (RHEUMATIC FEVER) (STREPTOCOCCUS)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516830

一、自己是是這種的學樣的

GRINBAUM, N.B.; SMIRNOVA, A.M.

Streptococcal antigen and antibodies in the sera of children with a first attack of rheumatic fever. Vop. okh. mat. i det. 6 no.9: (MIRA 14:9) 32-36 S '61.

1. Iz kafedry pediatrii (zav. - prof. E.A.Gornitskaya) I Leningradskogo meditsinskogo instituta imeni akademika I.P.Pavlova i otdela mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. V.I.Ioffe) Instituta eksperimental poy meditsiny AMN SSSR. (RHEUMATIC FEVER) (STREPTOCOCCUS)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516830

POTANIN, N.V.; GRINBAUM, N.B.

,於其學與漢國國際,但其他

"Clinical aspects and treatment of capillarotoxicosis in children" by Z.A.Danilina. Reviewed by N.V.Potanin, N.B. Grinbaum. Vop.okh.mat.i det. 7 no.8:92-94 Ag '62. (MIRA 15:9) (PURPURA (PATHOLOGY))

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516830

# GRINBAUM, N.B. (Loningrad)

On the role of hemolytic streptococci in the pathogenesis of acute diffuse nephritis; review of foreign literature. Vop. okh.mat. 1 det. 7 No.12:39-40 D<sup>1</sup>62. (MIRA 16:7) (KIDNEYS—DISEASES) (STREPTOCOCCAL INFECTIONS)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516830

### "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051683

GRINHAUM, N.B., kand. med. nauk; MINKOVICH, A.Ye.

Late observations of children following recovery from kidney disease. Sov. med. 28 no.8:118-121 Ag '65. (MIHA 18:9)

1. Kafedra pediatrii (zav. - prof. E.A.Gornitskaya) I Leningradskogo meditsinskogo instituta imeni akademika I.P.Favlova i detskaya bol'nitsa No.l Oktyabr'skogo rayona Leningrada (glavnyy vrach Ye.N. Speranskaya).

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516830

GRINRAUM, Ta.; FEL'DSHTETH, V.

Movable dryers for ear corn. Muk.-elev. prom. 25 no.4:30 Ap
'59. (MIRA 13:1)

1.Zastavskiy khlebopriyemmyy punkt (for Grinbaum). 2.Odesskoye
oblastnoye upravleniye Goskhlebinspektsiya (for Fel'dshteyn).

(Corn (Maise)---Drying))

### "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051683

GRINBLAG, A.

USSR/Chemical Technology. Chemical Products and their Application. J-12

Glass. Ceramics. Construction Materials.

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27779.

Author : A. Grinberg.

Title : Reconstruction of Recuperators of Rotating Furnaces.

Orig Pub: Tsement, 1956, No 5, 29.

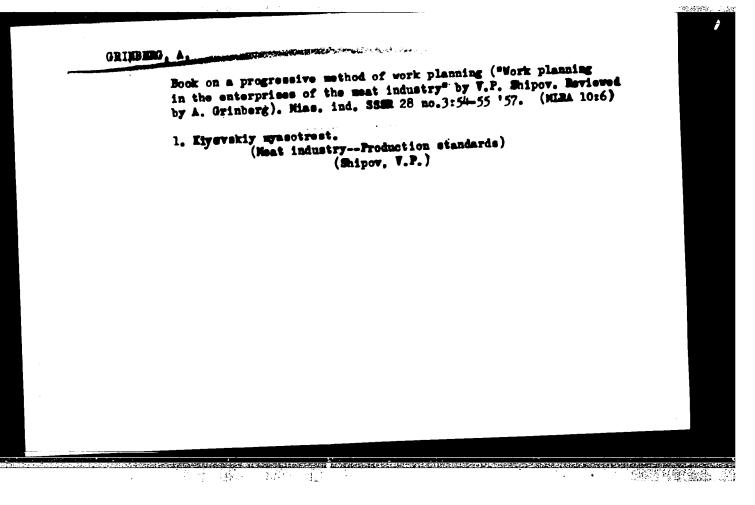
Abstract: The measures carried out at the "Proletariy" cement works with

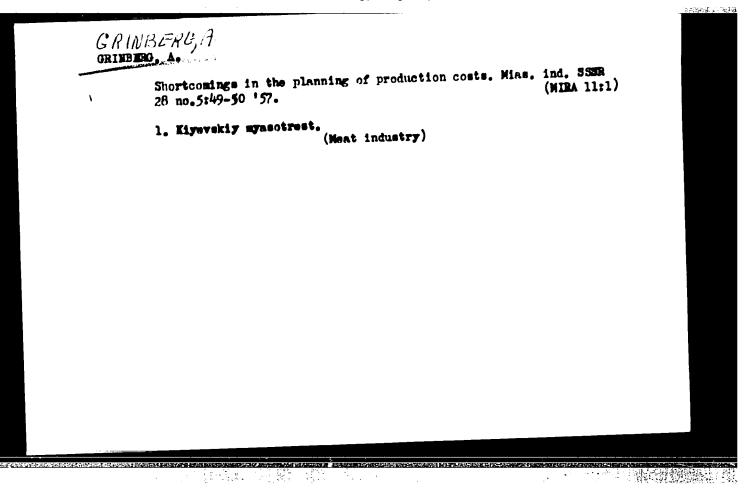
a view to improve the work of recuperators are described.

: 1/1 Card

-124-

ORIHARDO, A., inshener-mekhanik. Standardizing small cylinder capacity motorcycles. Za rul. 14
(MIRA 10:3) no.7:6 0 156. (Motorcycles) 





SARBAYEV, M.; GRINBERG, A. Utilization of workers during the interseason period. Mias.ind.

시 시설 시설 사람들은 어떻게 되었다.

(MIRA 15:7)

1. Kiyevskiy myasokombinkt.
(Meat industry)

SSSR 33 no.3:31-32 162.

學的問題

GRINBERG, A.; SHCHUR, V.

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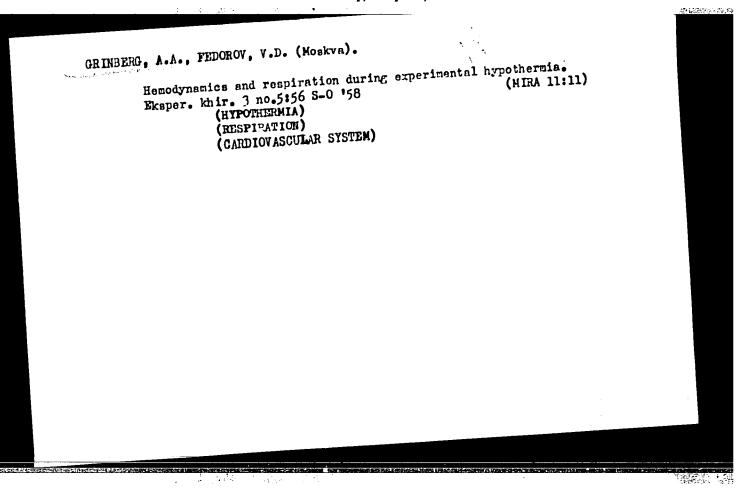
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What practicing physicians talk about. Zdravookhrananie ?
What practicing physicians talk about. Zdravookhrananie ?
(HIRA 12:10)
no.3:3-6 My-Je '59.

1. Glavnyy vrach Respublikanskogo tuberkuleznogo sanatoriya
"Vornicheny" (for Draganyuk). 2. Zamestital' glavnogo vracha
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HAKULEV, A.M., akad.; SAVELIYEV, V.S., doktor med.nauk; RYNEYSKIY, S.V., kand.med.nauk; GRINHERG, A.A.

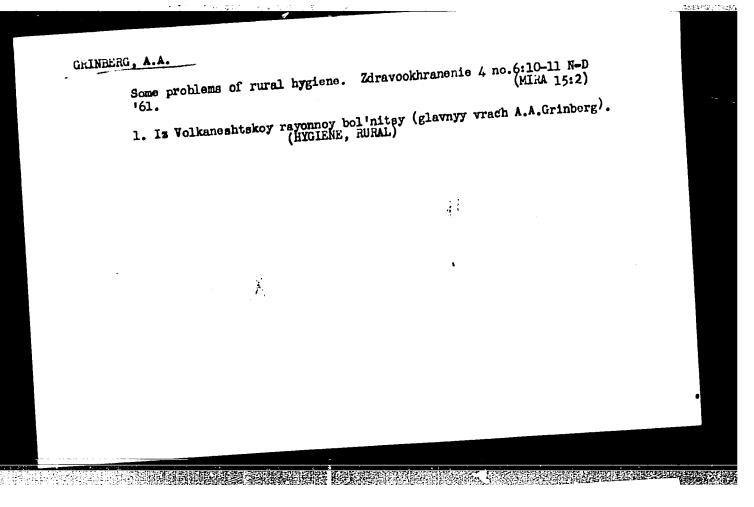
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(AORTA--DISEASES)

(ARTERIOSCLEROSIS)



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1. Fakul'tetskaya khirurgicheekaya klinika imeni S.I. Spasokukotskogo
Pirogova (dir.- akademik A.N. Bakulev) i 1-ya Moskovskaya

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Spasokukotskogo (dir. - akademik A.M.Bakulev) II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova (dir. - actsent M.G.Sirotkina). Adres avtorov: Noskva V-49, Loninskiy prospekt, d.S, I Gorodskaya Moskovskaya bol'nitsa.

(AORTA -- DISEASES) (ILIAC ARTERY--DISEASES)

(THROMBUSIS)

VAYSBORD, N.A.; GRINBERG, A.A., kand. med. nauk

Pelvic arteriography; a review of literature. Akush. 1 gin.
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40 no.2:24-89 Mr-Ap '64.

1. Gorodskaya klinicheskaya bol'nitsa No.29 imeni Baumana
(vedushchiy khirurg - kand. med. nauk I.M. Shnaper, glavnyy
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BAKULIV, A.N., akademik; KOMAROV, B.D. kand. med. nauk; GRINEERG, A.A.

Aortography in the diagnosis of diseases of the abdominal aorta
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(direktor - akademik A.N. Bakulev) II Moskovskogo meditsinskogo
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vosstaniya, dom 1, kvartira 35.

BOYCHEVSKAYA, N.O. (Moskva, Bol'shaya Dorogomilovskaya, 1, kv.6); GRINBERG, A.A. KOMAROV, B.D.

Kidney function before and following reconstructive surgery of the abdominal aorta. Vest. khir. 92 no.1:44-47 Ja '64. (MIRA 17'11)

l. Iz fakul'tetakoy khirurgicheskoy kliniki imeni Spasokukotakogo (dir. - akademik A.N. Bakulev) 2-go Moskovskogo meditsinskogo instituta imeni Pirogova.

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GRIBERG, A.A. (Monkyn, Leningredskiy prospekt, M., ov. 10); INCREDITENT,

Complications in translambar sortography. Vent. Knir. 32 10-42

130-131 Ap '64

i. In Sakul'tetskoy khirurgicheckey khimiki imen S.1.5; sorau-ketskogo (direktor - akad-nik A.H. Bakuley) 2-20 Methorskogo molitainskogo instituta i gordskoy klimichecky beliniter

Mo.1 imeni M.1. Pironova (glavnyy yrasn - gaslosnos g. vrsch

ESFSR L.D. Cherryshov).

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ACC NR: AP6036983 (A,N) SOURCE CODE: UR/0181/66/008/011/3350/3353	
AUTHOR: Grinberg, A. A.; Kramer, N. I.  ORG: Physicotechnical Institute im. A. F. Ioffe AN SSSR, Leningrad (Fizikotechnicheskiy institut AN SSSR)  TITLE: Photoionization of shallow impurity level in semiconductors with participation of phonons  SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3350-3353  TOPIC TAGS: light absorption, absorption coefficient, impurity center, photoionization, phonon interaction, electron interaction, temperature dependence ionization, phonon interaction, electron interaction, temperature dependence ionization. In view of the fact that the experimental coefficient of absorption of photons by shallow impurities does not agree with theory based on direct photon of photons by shallow impurities does not agree with theory based on direct photon capture, the authors evaluate the effect that phonons play on the photon absorption capture, the authors evaluate the effect that phonons play on the photon absorption momentum, and thus make a noticeable contribution to the corresponding ionization momentum, and thus make a noticeable contribution to the corresponding ionization.	
probability. It is shown that the phonon can impart to the induction investigation probability. It is shown that the phonon can impart to the induction investigation investigation investigation interaction itself is small.	
probability, in spite of the electron energy greatly exceeds the lateral lit is shown further that when the electron energy greatly exceeds the lateral lit is shown further that when the electron energy greatly exceeds the lateral lit is shown further that when the electron energy greatly exceeds the lateral lit is shown further that when the electron energy greatly exceeds the lateral lit is shown further that when the electron energy greatly exceeds the lateral lit is shown further that when the electron energy greatly exceeds the lateral lit is shown further that when the electron energy greatly exceeds the lateral lit is shown further that when the electron energy greatly exceeds the lateral lit is shown further that when the electron energy greatly exceeds the lateral lit is shown further that when the electron energy greatly exceeds the lateral lit is shown further that when the electron energy greatly exceeds the lateral lit is shown further that when the electron energy greatly exceeds the lateral lit is shown for the lateral little li	

# of low temperature, the absorption coefficient is proportional to the reciprocal of the frequency (ω), whereas without allowance for the phonons it is proportional to the frequency (ω), whereas without allowance for the phonons it is proportional to the frequency (ω), whereas without allowance for the phonons is by acoustic phonons, ω 3.5. In the case of high temperatures and the scattering is by acoustic phonons, the absorption cross section decreases. Comparison of the theoretical calculations the authors thank with experimental data confirm the correctness of the calculations. The authors thank with experimental data confirm the correctness of the calculations. Orig. art. has: 1 A. A. Klyuchikhin and O. V. Konstantinov for a useful discussion. Orig. art. has: 1 figure and 5 formulas. SUB CODE: 20/ SUBM DATE: 12Mar66/ OTH REF: 004

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H-8

GRINDENG A.A.

USSR/Electronics - Semiconductor Devices and Photoelements

: Referat Zhur - Fizika, No 5, 1957, 12382 Abs Jour

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Contribution to the Theory of Non-Stationary Voltage-Inst Title

Current Characteristics of Diodes with Electron-Hole

Junctions.

: Dokl. AN UzSSR, 1956, No 7, 31-36 Orig Pub

The authors calculate theoretically the transient characteristic of an electron-hole transition upon sharp change-Abstract

over from the forward to the backward direction. Owing to the barrier capacitance, the voltage on the junction is not established instantaneously, and this superimposes definite requirements on the boundary conditions at the transition. Taking these conditions into account, the authors

solve the diffusion equation and obtain the transient

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