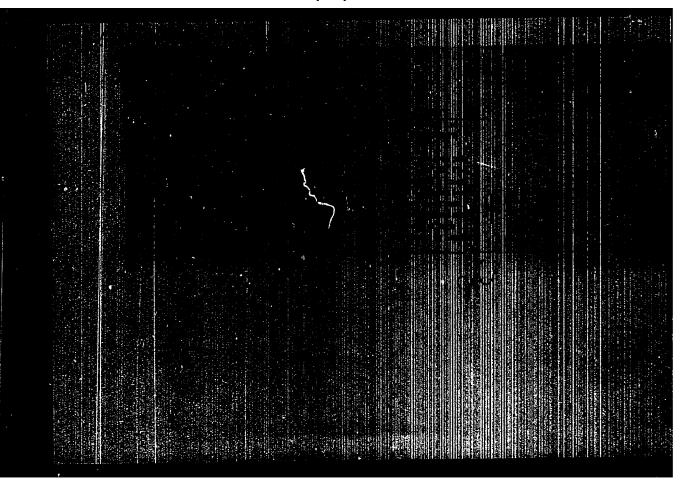
Zurn.eksp.i teor.fis, 31, fasc.4, 722-723 (1956) CARD 2 / 2 be considered to be a straight-lined trajectory in the domains in which retardation is still essential. One finds $T = 2T_0 - T_1$, where T_0 denotes the ionization deceleration of the electron alone, and T_1 an interference term. When computing T_1 it is of essential importance that the transversal difcomponents of the pair be considerably greater than the ference of the longitudinal difference. In the integral expression for T, the limiting value for the dielectricity constant ξ of the medium at high frequencies is essential. We finally find: $T_1 = (ce^2 \lambda^2 / \pi) \int (cos k_x s / (k_x^2 + k_y^2 + \lambda^2))$ $dk_x dk_y = 2e^2 c \lambda^2 K_o(s \lambda)$. Here k_o denotes a corresponding BESSEL function and it holds that $s = (x_2 - x_1)$. The convergence of this integral for T_1 means that in the interference effect the large distances (for which macroscopic observation is permitted) are of importance. The analogous integral for T is known to diverge and must be limited by a certain maximum value of the transversal wave vector k_m . In the case of great s (s $\lambda >> 1$) the interference effect vanishes. At s A << 1 it is possible to use the representation $K_0(z) = \ln(2/z)$ with $f = e^{C} = 1,781$ and it is then true that $T_1 =$ =2e²c λ^2 ln(r_{max}/s).with r_{max} = 2/ λ . If T is written down in an analogous form: T_o=ce² λ^2 ln(r_{max}/r_{min} = a($\frac{1}{2}$ /mc) $\sqrt{$ mc²E_m(a=1,85, it is possible to represent T in the form T=2T_oln(s/r_{min})/ln(r_{max}/r_{min}). The quantity E_m entering into r_{min} denotes the maximum energy that is transferred to the atom of the electron. INSTITUTION:

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514930005-4



APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514930005-4"

AUTHOR:

Geshkenbeyn, B.V.

56-6-46/47

TITLE:

The Influence Exercised by the Finite Dimensions of the Nucleus Upon the Effects Connected with the Nonconservation of Parity in β -Decay (Vliyaniye konechnykh razmerov yadra na effekty, svyazannyye s

nesokhraneniyem chetnosti v β -raspade)

PERIODICAL:

Zhumal Eksperimental'noy i Teoreticheskoy Fiziki, 1957, Vol. 33,

Nr 6(12), pp. 1535-1536 (USSR)

ABSTRACT:

For β -decay, especially for the forbidden transitions, the influence of the nuclear field is of essential importance. The wave function of the electron is here constructed in the same manner as in a previous work by V.B. Berestetskiy et al. [Ref. 1]. It is explicitly written down. For the Hamiltonian of β -interaction the author puts:

down. For the Hamiltonian of β -interaction the author puts: $H = \sum \left\{ g_i(\bar{\psi}_2, 0_i, \psi_1)(\psi_e, 0_i, \frac{1-f_s}{2}, \psi_v) + g_i'(\bar{\psi}_2, 0_i, \psi_1)(\bar{\psi}_e, 0_i, \frac{1+f_s}{2}, \psi_v) \right\}$

where summation must be carried out over $i \neq S,T,V,A,F$. If the theory of the two-component neutrino is correct, $g_1 = 0$ corresponds to the simultaneous emission of a neutrino and an antineutrino, and $-g_1 = 0$ corresponds to the emission of the neutrino. The results obtained for

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The Influence Exercised by the Finite Dimensions of the Nucleus 56-6-46/47 Upon the Effects Connected with the Nonconservation of Parity in β -Decay

the permitted β -transitions and for the transitions forbidden in the first order are expressed by the known tabulated functions L_0 , M_0 , N_0 , P_0 , Q_0 , R_0 , L_1 , P_1 [Ref. 6.7.8]. Taking account of the finite nuclear dimensions does not modify the results obtained for the permitted and unique transitions Δ j=2 (ja). The finite nuclear dimensions are essential only for the transitions 0-0(ja), if the pseudoscalar variant furnishes an essential contribution towards β -decay. The axial component is here assumed to be lacking. On this assumption the expression for the longitudinal polarization of the electrons and for the angular correlation electron-neutrine are explicitly written down. At Ze² << 1 the finite dimensions of the nucleus are not essential and the aforementioned expressions can be explicitly written down. If the pseudoscalar variant is lacking, and if the neutrino is a two-component one, (and if β is real), the value of polarization differs only little from v/c (\sim 3%). In the case of the existence of a pseudoscalar variant, polarization can differ from v/c only in the comparatively narrow interval of

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The Influence Exercised by the Finite Dimensions of the Nucleus 56-6-46/47 Upon the Effects Connected with the Nonconservation of Parity in f^3 -Decay

the values λ_p . If the neutrino is not a two-component one, polarization may apparently take any form. There are 9 references, 5 of which are Slavic.

SUBMITTED: September 30, 1957

AVAILABLE: Library of Congress

Card 3/3

AUTHOR:

Geshkenbeyn, B. V.

SOV/56-34-5-57/61

TITLE:

On the β -Transitions 0-0 With Change of Parity (0 β -perekhodakh 0-0 s izmeneniyem chetnosti)

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1958,

Vol. 34, Nr 5, pp. 1349-1350 (USSR)

ABSTRACT:

At present an examination of the possible variants of the β -decay interactions is performed. Before, it was assumed to be proved by experiments that the vector interaction and the axial vector interaction do not supply any contribution to the process of β -decay. At present, however, these experiments are regarded as questionable. If the universal scheme of all weak interactions is correct only the A- and the V-variant are present in β -decay. As is known the spectrum of the transitions 0-0 (sic) with a high degree of accuracy agrees with the Fermi spectrum, i.e. the factor of correction also depends on the energy. This distribution now is to direct attention to the fact that the form of the spectrum 0-0 (sic) of the transitions agrees well with the A-variant. The V-variant does not participate because of the selection rules.

In this work also the formulae for the polarisation of the

Card 1/2

On the $\beta\text{-Transitions}$ O-O With Change of Parity SOV/56-34-5-57/61

> decay electrons and for the electron-neutrino angular ccrrelation are given. The wanted formulae are obtained from the formulae for the T-P-variant by the author (Ref 4). There are 4 references, 2 of which are Soviet.

SUBMITTED:

February 24, 1958

- 1. Beta decay--Analysis 2. Particle transitions--Analysis
- 3. Mathematics-Applications

Card 2/2

21(8), 24(5)

SUV/56-35-5-26/56

AUTHOR:

Geshkenbeyn, B. V.

TITLE:

Polarization of Internal Conversion Electrons Which Follow a β -Decay (Polyarizatsiya elektronov vnutrenney konversii,

sleduyushchey za \(\beta - raspadom \)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958. Vol 35. Nr 5, pp 1235-1242 (USSR)

ABSTRACT:

Because of the non-conservation of parity in ß-decay, the nucleus remaining after decay is polarized in the direction of the emitted electron. The mother nucleus is assumed to be not polarized, and the direction in which the neutrino is emitted is not recorded. If, after decay, an internal conversion occurs, the conversion electrons must be polarized. This phenomenon was already investigated in the case of the conversion in the K-shell and without taking the electric nuclear field into account, by Berestetskiy and Rudik (Ref 1). The electric field of the nucleus, however, exercises considerable influence upon the effect of inner conversion, and it medifies the conversion coefficient; thus, it also exercises considerable influence on the conversion electrons. In the present paper the author there-

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SOV/56-35-5-26,56

Folarization of Internal Conversion slectrons Which Police a factory

fore investigates the correlation between the polarization of conversion electrons and the direction of emission of the electrons in preceding \$\beta\$-decay, always taking the nuclear electric field into account. Conversion may occur in any shell. Por the special case of electrons converted in the K-shell, the nuclear electric field causes a considerable effect, as a result of which an appreciable transverse polarization component occurs in magnetic transitions; for electric transitions a considerable increase of the amount of polarization is found. The author in conclusion thanks V. B. Berestetskiy and A. P. Rudik for raising the problem and discussing it, and he also expresses his gratitude to A. I. Alikhanov, Academician, and to V. A. Lyubimov for their interest; finally, he thanks Professor L. A.Sliv for solving integrals. There are 5 references, 3 of which are Soviet.

SUBMITTED:

May 31, 1958

Card 2, 2

GESHKENBEYN, B. V., Candidate Phys-Math Sci (diss) -- "Some effects connected with the failure to retain an even number in beta-decomposition". Moscow, 1959.

9 pp (Acad Sci USSR, Inst of Theoretical and Experimental Phys) (KL, No 24, 1959, 124)

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24.6520

AUTHOR: Geshkenbeyn, B. V.

TITLE:

The Polarization of Internal Conversion Electrons After

β-Decay /9

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol. 23, No. 12, pp. 1480 - 1486

TEXT: A nucleus resulting from $\beta\text{-decay}$ will be polarized, due to nonconservation of parity, in the direction of the $\beta\text{-emission.}$ A nonpolarized parent nucleus is assumed. The direction of the path of the outgoing neutron may not be recorded. In the case of internal conversion after β -decay the conversion electrons must have a definite polarization. This polarization is theoretically investigated here. The polarization vector $\langle \vec{\sigma} \rangle$ of the conversion electrons is defined by

 $\langle \vec{\sigma} \rangle = a(\vec{v}\vec{n})\vec{n} + b(\vec{v} - (\vec{v}\vec{n})\vec{n})$, where a and b are constants, depending on nuclear spin, kind and multipolarity of radiation and on the transition

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The Polarization of Internal Conversion Electrons After $\beta\text{-}Decay$

\$/046/59/023/012/006/009 B006/B060

energy, \vec{v} denotes the velocity of the β -electron and \vec{n} the unit vector in the outgoing path direction. When denoting the nuclear spin before β -decay with I, the nuclear spin after β -decay with I_1 , and the spin after conversion with I_2 , the following expression is obtained for arbitrary pure M-transitions from the K-shell or from a shell with $l_1 = 0$ $j_1 = 1/2$ and $u_1 = -1$:

$$\langle \vec{\sigma} \rangle = \alpha \frac{j(j+1) + I_1(I_1+1) - I_2(I_2+1)}{2j(j+1)I_1(1+|\gamma_K^{(o)}|^2)} \left\{ (\vec{v}\vec{n})n \right\}$$

+ $\sqrt{j(j+1)}$ Re $\gamma_{K}^{(0)}(\vec{v}-(\vec{v}\vec{n})\vec{n})$. $\gamma_{K}^{(0)}$ is given by the generalized formula (5). In special cases like Z = 0 $\gamma_{K}^{(0)}$ = 0 holds and for large Z and

low energy of the conversion electrons $\eta_{K}^{(o)}$ becomes $\eta_{K}^{(o)} = \sqrt{\frac{j}{j+1}}$.

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The Polarization of Internal Conversion Electrons After $\beta\text{-}\text{Decay}$

S/048/59/023/012/006/009 B006/B060

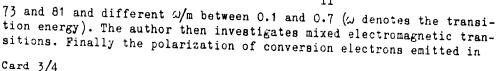
Table 1 shows $\eta_{K}^{(0)}$ values for Z = 80, j = 1,2,3 and for different ω/m (computed by means of the values of the radial integrals R by L.A. Sliv). Similar conclusions are made for pure E-transitions. Formula (9) gives $\eta_{K}^{(1)}$ for conversion from the K-shell, for free electron approximation

 $\eta_{K}^{(1)} = -\sqrt{\frac{1}{j+1}} \frac{2\xi_{2}}{\xi_{2}-m}$ holds, where ξ_{2} denotes the energy of the conver-

sion electron. Table 2 gives $\gamma_{K}^{(1)}$ for Z = 80. The values of

 $\eta_{L_{I}}^{(1)} / (1 + |\eta_{L_{I}}^{(1)}|^{2})$ for conversion from the L_{I} -shell for different Z and

G/m are compiled in Table 3. Table 4 shows $\chi_{L_{II}}^{(1)}$ for j = 2, Z = 57, 65,



1χ

The Polarization of Internal Conversion Electrons After β-Decay

S/048/59/023/012/006/009 B006/B060

cascades together with one or more y-quanta is briefly discussed. The author thanks V. B. Berestetskiy and A. P. Rudik for posing the problem and discussing results, A. I. Alikhanov and V. A. Lyubimov for interest, and L. A. Sliv for supplying the radial integrals. There are 5 tables and 3 Soviet references.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki Akademii nauk SSSR (Institute of Theoretical and

Experimental Physics of the Academy of Sciences, USSR)

Card 4/4

CIA-RDP86-00513R000514930005-4" APPROVED FOR RELEASE: 09/24/2001

21(8),24(5) AUTHORS:

Geshkenheyn, 3, V.,

SOV/56-36-2-25/63

Nemirovskaya, S. A., Rudik, A. P.

TITLE:

The Polarization of the /3-Electrons From RaE (Polysrizatsiya

β-elektronov ReE)

PERIODICAL:

Zhurnal eksperimentalinov i teoreticheskov fiziki. 1959.

Vol 36, Nr 2, pp 517-525 (USSR)

ABSTRACT:

After the nonconservation of spatial parity had become known, the /3-decay of RaE was investigated by several research scientists. Lewis (Lyuis)(Ref 1), Fujita (Fuzhita) et al. (Ref 2) also pointed out the possible nonconservation of time parity, and Alikhanov showed by experiment (Ref 3) that the longitudinal polarization of /3-electrons from RaE deviates from v/c and that the degree of deviation characterizes the measure of the nonconservation of parity with respect to time Also in the present paper the authors derive a formula for the longitudinal polarization of the /3-electrons, viz. for S- and

T- interaction as well as for V-A - interaction, besing upon the results of references 7 and 8. Numerical results are given by a number of tables. Thus, table 1 shows (6)/(v/c) for

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The Polarization of the /3-Electrons From RaE

SOV/56-36-2-26/63

S- and T- interaction and table 2 shows the same for V-A at $r_0 = 1.17.10^{-13}$. Tables 5 and 6 show $\langle \delta \rangle / (v/c)$ at

 $F^2=6.10^{-3} (V-A)$, figure 7 shows $\langle \tilde{p} \rangle/(v/c)$ for S- and T- interaction types for various F values. The experimental data relating to the magnitude of the polarization of the RaE β -electrons considerably restrict the region of a possible violation of time parity. VA-interaction type: In the case of nonconservation of time parity the measured extremal polarization excludes F < 0 at $F^2=6.10^{-3}$ and $F^2=3.10^{-3}$. For F > 0

experimental and theoretical results agree for

 $x \approx 0.2(F^2=6.10^{-3})$ or $0.7(F^2=3.10^{-3})$. ST-interaction type: At $F^2=6.10^{-3}$ and $F^2=3.10^{-3}$ F ≤ 0 is excluded and at F > 0 agreement is found for any such F^2 values within the range of $x \approx 1.7$.

The authors finally thank Academician 4. I. Alikhanov for

Card 2/3

The Polarization of the /3 -Electrons From RaE

304/56-36-2-26/63

suggesting this work and for his discussions, and they also thank B. L. Ioffe and V. A. Lyubimov for discussions. There are 9 tables and 12 references, 2 of which are Soviet.

SUBMITTED:

July 24, 1958 (initially) and October 28, 1958 (after revision)

Card 3/3

\$/056/60/038/006/040/049/XX B006/B070

24.6200 AUTHORS:

Geshkenbeyn, B. V., Rudik, A. P.

TITLE:

The Relationship Between the Polarization of :-Electrons the Form of the β -Spectrum

FERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960. Vol 38. No 6, pp. 1894 - 1895

TEXT: The coefficient of the form of the β -spectrum is given by $C(W) = \sum M_{i}(Z_{i}W)f_{i}(W|X)$; and the longitudinal polarization of Belectrons is given by $\langle \vec{\sigma} \rangle = \frac{\vec{v}}{c} \sum_{i} M_{i}(Z,W) f_{i}(W,X) a_{i}(Z,W) / \sum_{i} M_{i}(Z,W) f_{i}(W,X)$ (Z - atomic

number of the nucleus; \boldsymbol{W} and \boldsymbol{v} - energy and velocity, respectively. of ϕ electrons: X - nuclear matrix elements: \mathbf{M}_1 and \mathbf{a}_1 - complex functions describing the motion of the electrons in the Coulomb field of the daughter nucleus; the function f. depends on the electron energy and the matrix elements). Both these formulas are briefly discussed in the present paper Card 1/2

The Relationship Between the Polarization of S/056/60/038/006/040/049/XX β -Electrons and the Form of the β -Spectrum B006/B070

It is pointed out that for Fermi form of the spectrum, the polarization of β -electrons is practically coincident with v/c. As, however, first forbidden β decays are also known where the longitudinal polarization of β -electrons is essentially different from v/c, the spectrum is not of Fermi type. In this connection the classical example of RaE (1 \rightarrow 0) β -decay is discussed. The β -decay of Au 198 (2 \rightarrow 2 $^{+}$) is also discussed, for which the longitudinal polarization of β -electrons is widely divergent from v/c for small energies (according to data of A. I. Alikhanov et al.) For high energies it is equal to v/c. These deviations are explained by a deviation of the spectrum from the Fermi form. The cases for p^{32} and In 114 are analogous (see L. A. Mikaelyan and P. Ye. Spivak). Academician A. I. Alikhanov and V. A. Lyubimov are thanked for their interest in the work. There are 10 references: 6 Soviet. 3 US. and 1 Canadian

SUBMITTED: February 15, 1960

Card 2/2

GESHKENBEYN, B.V.; POPOV, V.S.

Radiative corrections to β-decay. Zhur.eksp.i teor.fiz. 41 no.1:199-204 Jl '61. (MIRA 14:7) (Beta rays) (Radioactive substances—Decay)

GESHKENBEYN, B. V.; POPOV, V. S.

"On the Radiative Corrections to eta -Decay"

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

Institute of Theoretical and Experimental Physics

GESHKENBAYN, B. V. and IOFFE, B. L.

"The Restrictions on Coupling Constants Value in Field Quantum Theory"

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

Inst. of Theoretical and Experimental Physics, Moscow, USSR

S/056/62/043/005/037/058 B102/B104

AUTHORS: Geshkenbeyn, B. V., Ioffe, B. L.

TITLE: An experimental possibility of verifying hypotheses on the nature of resonances

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 5(11), 1962, 1841 - 1842

TEXT: It is shown that there is no need to attribute all of the numerous recently discovered narrow mesonic or baryonic resonances to real particles. Since the mass of many resonances differs only little from the sum of masses of any particles C and L, the resonance Z can be assumed to correspond with a CD bound state, its wiath being determined by the transitions C+L >A+B, or it can be assumed that Z is a Breit-Aigner resonance level of the system A+B. In any case Z is assumed to have a non-zero isotopic spin. Here an experimental possibility is discussed which makes it possible to decide if the first mentioned hypothesis is tenable. This possibility is based on the fact that, if Z is a CD bound state with small binding energy (e² < ALC, ALC, - = MC+ML+MZ), the mass difference ALC Card 1/3

5/056/62/043/005/057/056 3102/8104

An experimental possibility of ...

different isotopic components of the resonance have to equate the mass difference of the initial particles forming these components. This will not be valid if Z is a Breit-Wigner resonance level of A+B. This method is applied to the Y_1 -resonance and the K/L-resonance. Y_1 : I=1, s=-1, M = 1385 MeV. Y_1 can be considered as an NK bound state; (Y_1 a pK°, Y_2 an nK°, and Y_1 a 50:50 mixture of pK° and nK° bound states). The mass differences will be

$$\begin{split} M_{Y_1^+} - M_{Y_1^-} &= (M_p + M_{K^*}) - (M_n + M_{K^-}) = 2.6 \text{ MeV}. \\ M_{Y_1^+} - M_{Y_1^0} &= (M_p + M_{K^*}) - \frac{1}{2} (M_p + M_{K^-} + M_n + M_{K^*}) = 1.3 \text{ MeV} \end{split}$$

the latter is given without correction for pKT Coulomb interaction. With it, 1.8 MeV result. Ak : I = 1/2, M = 1650 MeV. This resonance can be considered as a AK bound state (+1/2 component: $\sum +K^{\circ} + \sum +K^{\circ} + \sum$

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An experimental possibility of ...

S/056/62/043/005/037/058 B102/B104

 $M_{1/1} - M_{-1/2} = {}^{1}/_{3} (M_{\Sigma^{+}} + M_{K^{0}}) + {}^{1}/_{3} (M_{\Sigma^{0}} + M_{K^{+}}) - {}^{1}/_{2} (M_{\Sigma^{-}} + M_{K^{+}}) + {}^{1}/_{3} (M_{\Sigma^{0}} + M_{K^{0}}) = -3,1 \text{ MeV}.$

if the first hypothesis is correct. With correction for Coulomb interaction, one obtains -2.5 Mev. Similar considerations of the Σ -hyperon resonance show that Σ cannot be a Λ^π bound state; the experimentally observed mass differences differ too much from the calculated ones.

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

SUBMITTED: June 5, 1962

Card 3/3

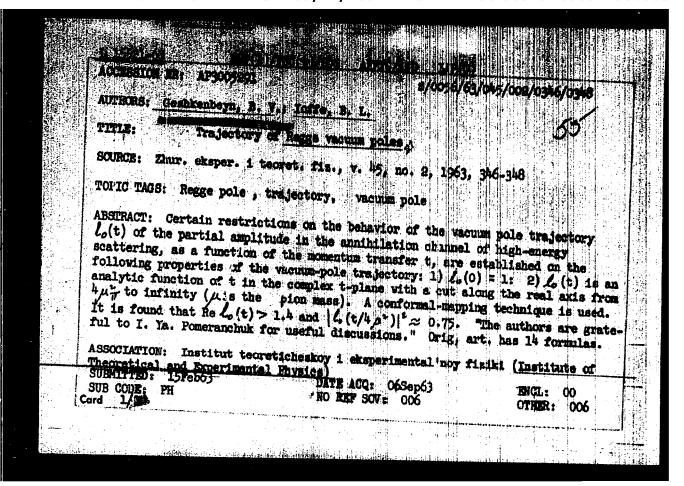
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AUTHORS:	Geshkenbeyn, B. V., Ioffe, B.						
TITLE	Restrictions as to the magnit quantum field theory. I.					10	
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agrees with the prev	iously obtained result that for small decreases in proportion to $\sqrt{\Delta}$. In ple, $g^2 = 12a_0^2\sqrt{\Delta/2\mu_s}$, ϕ_{min} can also	OT HERITON-brash	
and lytically by mean	as of a conformal transformation.	In this case	
	$\Phi_{min} = \frac{n!}{4} \frac{\sqrt{1-1}+\sqrt{1-\alpha}}{\sqrt{1-\alpha}(1+\sqrt{1-\alpha})!}.$	(28)	
is obtained. Similar Only in the nonrelat	r calculations are made for the castivistic case (1-a (1), are simple	e of a being a ferm relations obtained:	ion.
	$\Phi_{min} = \frac{\pi}{4} \sqrt{\frac{1-\lambda}{1-\alpha}} (1+1/\overline{\lambda}),$	(59)	
	$g^a < 4 \sqrt{\Delta/2} \mu m_o/m_b, \mu = m_b m_o/(m_b + m_b)$	(60).	
For an interaction	$g^4 < 2\pi/3\Phi_{min} = 85$	(74)	
Birth action in The Control of the C	$f^{a} = (\mu/2m)^{a} g^{a} < 0.47.$	(75).	

Resti	rictions	an to	the magn	itude			s/056/ B102/B	63/04 <i>4/</i> 186	/004/01	7/044		
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GESHKENBEYN, B.V.; IOFFE, B.L.

Restrictions on the coupling constants and vertex part of three particle interaction in quantum field theory. Zhur. eksp. 1 teor. fiz. 45 no.3:555-564 S '63. (MIRA 16:10)

1. Institut teoreticheskoy i eksperimental'noy fiziki. (Quantum field theory)

ACCESSION NR: AP4025922

s/0056/64/046/003/0902/0904

AUTHORS: Geshkenbeyn, B. V.; Ioffe, B. L.

TITLE: Restrictions imposed by the analyticity conditions on the cross section for the conversion of an electron positron pair into a pion pair

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 46, no. 3, 1964, 902-904

TOPIC TAGS: S matrix theory, field theory, elementary particle interaction, S matrix analyticity, form factor, charged pion form factor, pair conversion, pair conversion cross section

ABSTRACT: The authors assume that the electromagnetic form factor F(x) of the charged pion has the following properties as a function of complex x: it is analytic in the entire cut complex plane, it is real on the real axis to the left of x = 1, it grows no faster than

Card 1/2

ACCESSION NR: AP4025922

a finité power as x goes to infinity in complex directions, and it is normalized to 1 at x=0. From these properties they derive restrictions on the cross section for $e^+ + e^- \rightarrow \pi^+ + \pi^-$ averaged over the energy. This work is related to previous work of the authors (Geshkenbeyn and Ioffe, ZhETF v. 44, 1211, 1963). "The authors express their gratitude to L. B. Okun' for useful remarks."

ASSOCIATION: None

SUBMITTED: 12Ju163

DATE ACQ: 16Apr64

ENCL: 00

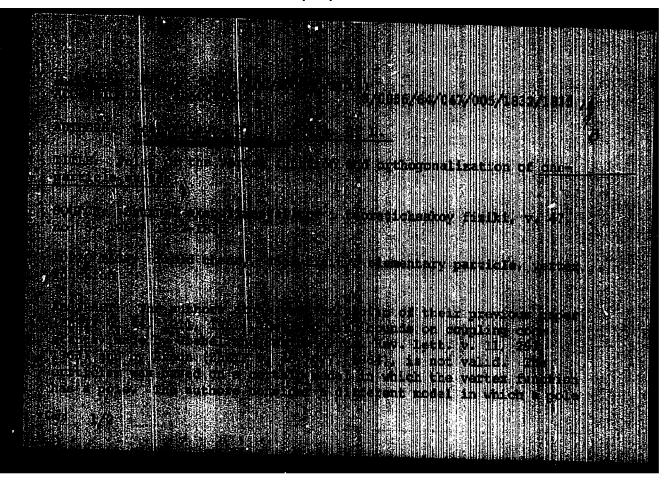
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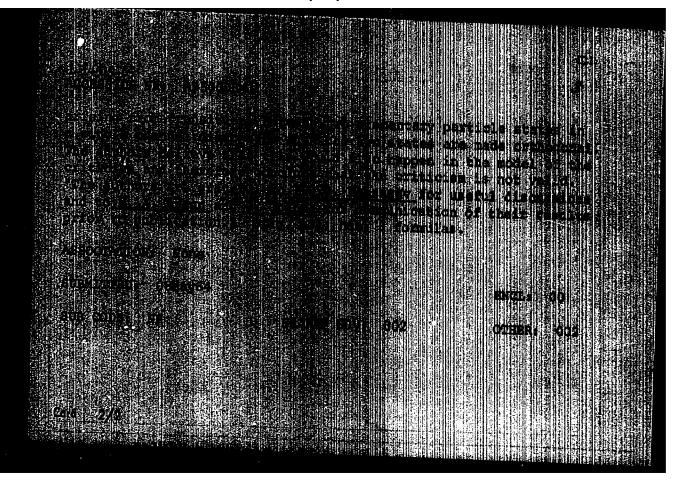
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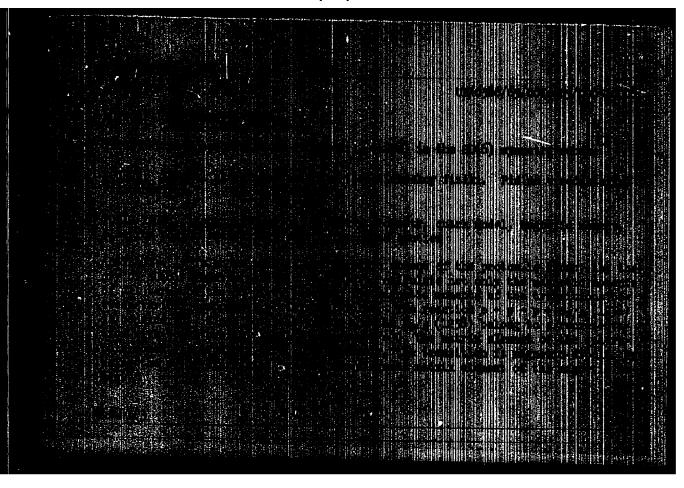
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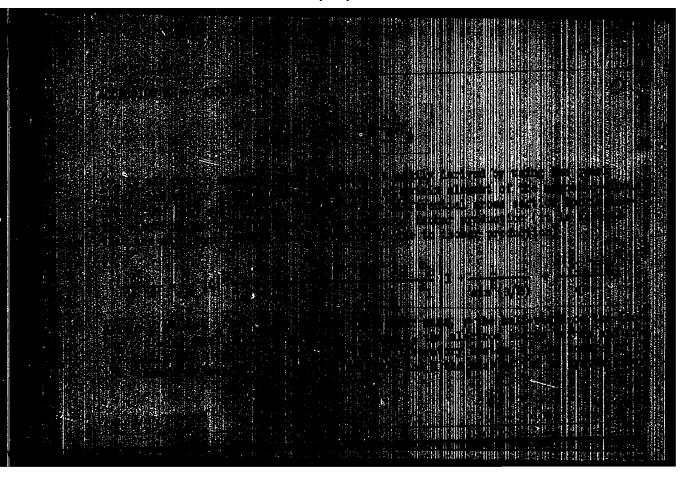
L 2149-66 EWT(m)/T/EWA(m)-2 ACCESSION NR: AT5022128 UR/3138/64/000/299/0001/0008 AUTHORS: Geshkenbeyn, B. V.; Ioffe SOURCE: USSR. Cosudarstvennyy komitet po ispol! zovaniyu atomnoy snergii. Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 299, 1964. O raspade K* -> K pi pi, 1-8 TOPIC TAGS: K meson, pi meson ABSTRACT: The probability of $K^* \to K \pi \pi$ decay is calculated in SU_3 theory on the basis of the hypothesis that ω and ϕ mesons are a mixture of a singlet and the T = 0, Y = 0 component of a unitary octet (S. Okubo. Fhys. Lett., 5, 165, 1963; S. L. Glashow. Phys. Rev. Lett., 11, 48, 1963). The obtained ratio of the probabilities of K* \rightarrow K $\pi\pi$ and $\omega \rightarrow 3\pi$ decays is which leads to the following experimentally observable value of the ratio of the Card 1/2

1	L 2143-66
	ACCESSION NR: AT5022128
	width of K* \rightarrow K $\pi\pi$ decay to the total width of K*: $\frac{F(K^* \rightarrow K\pi\pi)}{\Gamma_{K^*}} = 0.015 \text{ of } \frac{1}{\Gamma_{K^*}} = 0.0024 \text{ of } \approx 0.001$ For a value of the rights are the first second of the rights are the righ
	for a value of the mixing parameter of $\alpha = 0.64$. Experimental observations of $K^* \rightarrow K\pi\pi$ decays and their comparison with the theoretical prediction allow independent determination of the mixing parameter if the above hypothesis is valid. The authors thank V. V. Vladimirskiy, L. B. Okun', and V. M. Shekhter for useful
	discussion and remarks. Orig. art. has: 16 formulas:
	discussion and remarks. Orig. art. has: 16 formulas: 42 17 ASSOCIATION: none
	discussion and remarks. Orig. art. has: 16 formulas:
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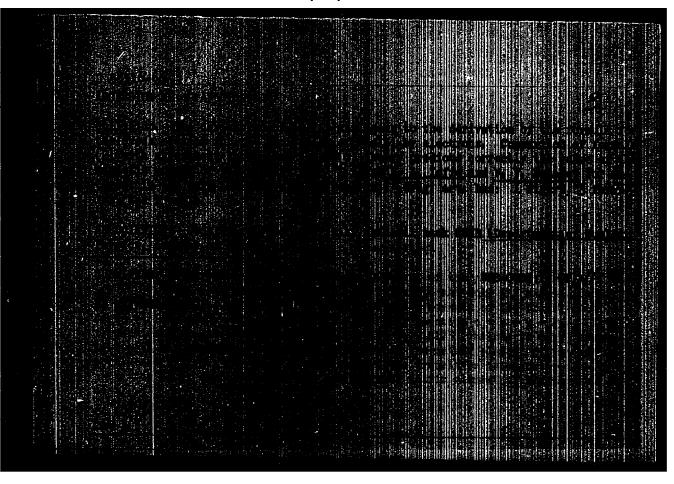
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AUTHOR:	Geshkenbeyn, B. V. Ic	offe, B. L.: Harrison	UR/0386/65/001/6	06/0023/0028	
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TOPIC TAGS	: particle symmetry,	Witam amine		recentallys.	
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GESHKENBEYN, B.V.

Electroproduction of an $N_{3/2}$ (1238) isobar in the SU(6)-symmetry scheme. Pist. v red. Zhur. eksper. i teor. fiz. 1 no.5:5-8 Je *65. (MIRA 18:11)

1. Otdeleniye yadernoy fiziki AN SSSR. Submitted April 19, 1965.

<u>L 14440-66</u> BVT(m)/T

ACC NR: AT6002502

SOURCE CODE: UR/8138/65/000/377/0001/0007

AUTHOR: Geshkenbeyn, B. V.

28 22.

ORG: none

TITLE: Electroproduction of the $N_{\frac{1}{2}}$ (1238) isobar in relativistic SU(6) symmetry

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 377, 1965. Elektrorozhdeniye izobary N3/2(1238) v skheme relyativistskoy SU(6) simmetrii (SU(6),), 1-7

TOPIC TAGS: particle symmetry, unitary symmetry, nuclear isobar, particle physics, electron interaction, nuclear interaction

ABSTRACT: The author applies the representation of SU(6) symmetry to the process $e + p + e + N_{\frac{3}{2}}$ (1238).

This reaction is studied in a system K where the velocity of the proton before collision \vec{v}_1 and the velocity of the isobar after collision \vec{v}_2 are equal in magnitude

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Card 1/2

APPROVED FOR RELEASE: 09/24/2001

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L 14440-66

ACC NR: AT6002502

and opposite in direction

 $\dot{v}_{1} = -\dot{v}_{2} = \dot{v}$.

It is found that the formula for electroproduction of the isobar in SU(6) is the same as in the SU(6) system but that this formula must be applied in a "quasi-Breit" system K instead of in the laboratory system K'. A comparison of the formula for the laboratory system with experimental data gives the transition form factor. It is found that this coefficient coincides with the magnitude form factor for the proton at transmitted momenta from 2F² to 100F². In conclusion I am grateful to Yu. A. Golf'and, B. L. Ioffe, I. Yu. Kobzarev, M. S. Marinov, I. Ya. Pomeranchuk and V. V. Sudakov for interest in the work and useful consultation. Orig. art. has:

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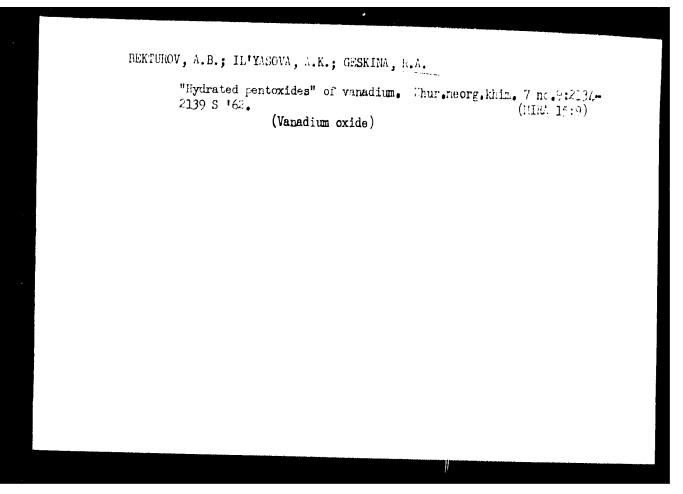
Card 2/2

MAKAROV, D.I.; GOL'DBERG, A.S.; GESKIN, E.S.; GIL'HAN, S.M.; KRAVCHENKO, A.Ya.; GAMBAROV, V.I.

Simple control of air flow. Avtom.i prib. no.1:24-26 Ja-Mr 163. (MIRA 16:3)

1. Ukrainskiy gosudarstvennyy proyektnyy institut "Metallurgavtomatika" (for all except Kravchenko, Gambarov). 2. Metallurgicheskiy savod imeni Petrovskogo (for Kravchenko, Gambarov).

(Open-hearth furnaces) (Electronic control)



GESHKO, Ye.1. [Heshko, IE.I.]; KUSHTA, G.P. [Kushta, H.P.];
MIKHAL'CHENKO, V.P. [Mykhal'chenko, V.P.]

Temperature dependence of the intensity of roentgen interferences of tungsten over a temperature range of 3000-11000K. UKr. fiz. zhur. 8 no.12:1358-1363 p '63. (MIRA 17:4)

1. Chernovitskiy gosudaratvennyy universitet.

VENGRINOVICH, R.D. [Venhrynovych, R.D.]; GESHKO, Ye.I. [Heshko, IE.I.]; KUSHTA, G.P. [Kushta, H.P.]; MIKHAL'CHENKO, V.P. [Mykhal'chenko, V.P.]

Temperature dependence of the intensity of X-ray interferences in nickel in the 300° - 1100°K temperature range. Ukr. fiz. zhur. 10 no.2:196-205 F '65. (MIRA 18:4)

1. Chernovitskiy gosudarstvennyy universitet.

USSR/Zooparasitclogy. Ticks and Insects as Disease Vectors.
Mites.

Abs Jour: Ref Zhur-Diol., No 17, 1958, 77027.

Author : Gadlin, Yu. I.; Geshkovich, N. L.; Gorchakovskaya,

N.N.; Levit, A.B.

Inst

Title : On the Problem of the Destruction in Nature of the

Carrier of Tick Encephalitis of the Tick Ixodes per-

sulcatus Sch.

Orig Pub: Dyul. Mosk. o-va ispyt. prirody. Otd. biol., 1957, 62,

No 2, 43-49.

Abstract: Results of investigations during 1952-1955 in the

deciduous forests of the Kuybyshevskaya oblast are presented. The duration was studied of the effect of a single anti-tick treatment of the forest floor

Card : 1/3

USSR/Zeoparasitelegy. Ticks and Insects as Disease Vectors. G

Abs Jour: Ref Zhur-Fiel., No 17, 1958, 77027.

creased to 0.2-0.3 $\rm g/m^2$, or it can be replaced by GKhTsG in the same dosage.

Card : 3/3

GESHTOVT, N.

The observers should also be recognized. Radio no.10:17 0 162. (MIRA 15:10)

 Predsedatel¹ revisionnoy komissii Alma-Aginskogo radiokluba Dobrovol¹nogo obshchestva sedeystviya armii, aviatsii i flotu.

(Radio operators) (Amateur radio stations)

GESHTOVT, Yu.N., aspirant; MAKAROV, V.S.; YEPANESHENKOV, 1.B.; DAYNICHENKO, G.S., aspirant; GRYAZEV, 1.1.

Economic effectiveness of the use of herbicides. Zashch. rast. ot vred. i bol. 9 no.2:9-11, 32 164.

(MIRA 17:6)

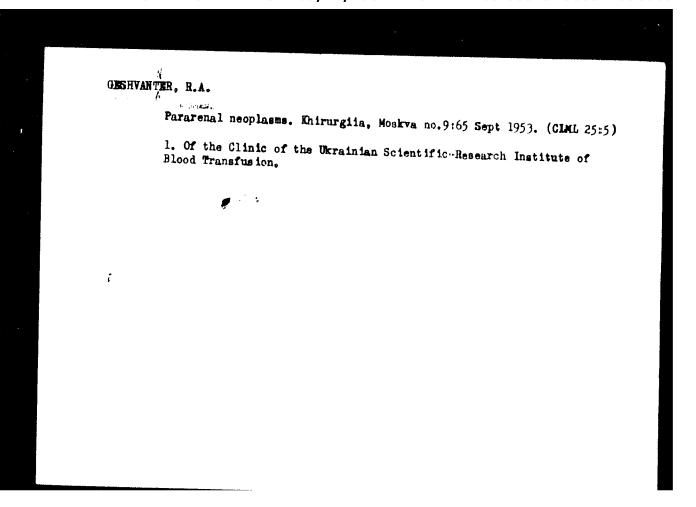
1. Kishinevskiy sel'skokhozyaystvennyy institut (for Daynichenko).

2. Nachal'nik Ul'yahovskoy stantsii zashchity rasteniy (for Grazev).

3. Severnyy filial Kazakhskogo instituta zashchity rasteniy, Kokchetav (for Geshtovt).

4. Starshiy agronom po zashchite rasteniy Nerchinskogo proizvostvennogo upravleniya, Chitinskaya obl. (for Makrov).

5. Glavnyy agronom po zashchite rasteniy Gorodetskogo proizvodstvennogo upravleniya, Gor'kovskaya obl. (for Yepaneshenkov).



GESHVANTHER, R.A., starshiy nauchnyysotrudnik

Some data on the effect of transfusing blood and its components on the blood coagulating system in patients with acute gastroducdenal hemorrhages in peptic ulcer. Vop.perel.krovi 4:107-115 '55.

(BLOOD—TRANSFUSION)

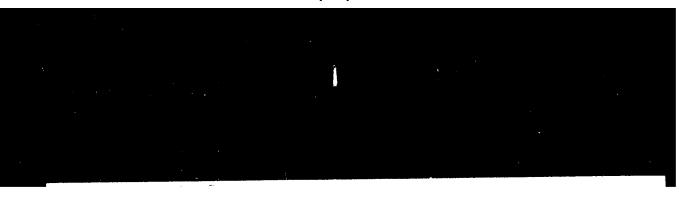
(PEPTIC ULCER)

(BLOOD—COAGULATION)

EXCERPTA MEDICA Sec. 6 FVol. 11/10 Cct. 57 GESHVANTNER N. A.

6440. ARLOZOROV Z.G., GESHVANTNER N.A., ZALKINA A.P. and SHARGO M.I. Ukrainian Inst. of Blood Transfusion and Emerg. Surg., Kiev, USSR. *Thromboplastin transfusion in patients with thrombocytopenia and haemorrhage (Russian text) VRAC.DELO 1956, 9 (909-912)

The effectiveness of thromboplastin in stopping haemorrhage has been studied. Thromboplastin was given in the form of donor plasma rich in platelets (500,000 -1,700,000 per cu. mm.). This was transfused in doses of 100 - 300 ml. Two groups of patients were treated, 18 with haemorrhage due to thrombocytopenia and suffering from Werlhof's disease and 53 patients with gastro-duodenal bleeding. The transfusion was combined with ascorbic acid and sometimes with whole blood or the globulin fraction of the plasma. Eight cases of Werlhof's disease showed lessening or cessation of haemorrhage, increase in the number of thrombocytes in the peripheral blood and reduction in bleeding time. Four cases showed improvement without increase in the number of platelets; 6 patients showed no improvement. The use of thromboplastin in patients with acute gastro-duodenal haemorrhage (due to ulcers) produced a reduction or cessation of the bleeding, normalization of the pulse and blood pressure, increase of appetite, sound sleep and well-being in the majority; some patients had an increase in the number of thrombocytes, but in some there was no improvement noted at all. The results showed that thromboplastin transfusion has a greater haemostatic effect than the use of ordinary plasma and that the effectivity increases with increased concentration of thrombocytes. This type of transfusion should be included in the treatment of various haemorrhages, particularly in thrombocytopenic patients. Guseva - Moscow



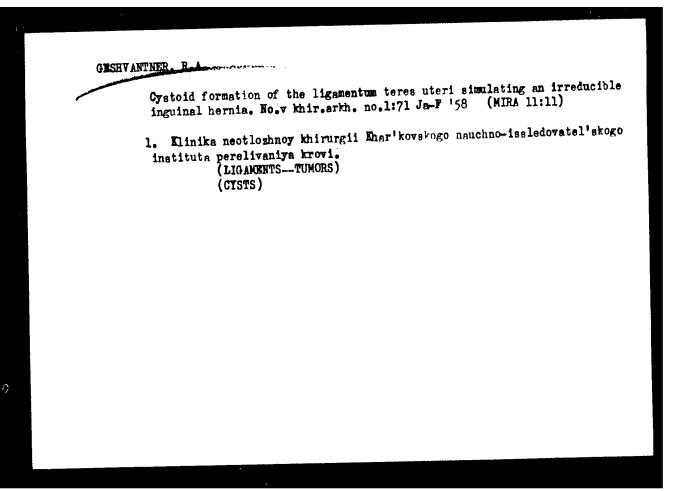
After the transfusion of thromboplasmin, especially when combined with internal administration of "vikasol" and ascorbic acid, an increase in the prothrombin level, platelet count, and decreased coagulation time and blood flow were noted, these findings being noted more frequently than when blood was transfused.

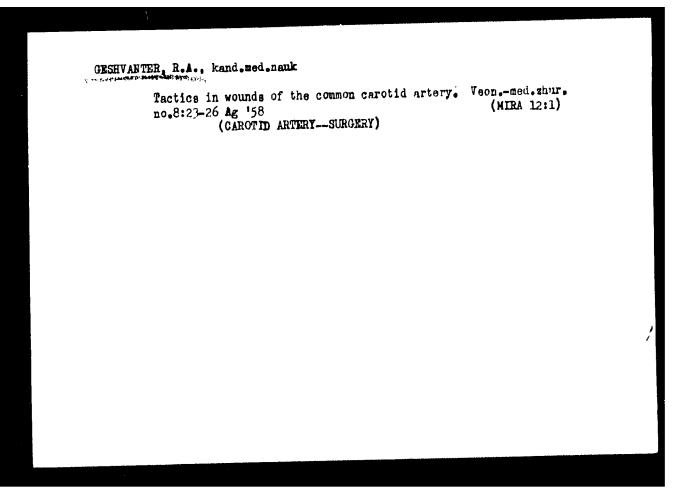
As a result of their findings, the authors recommend the use of thromboplasmin as a hemostatic measure in the treatment of hemophilia due to thrombocytopenia and hemorrhages of other etiology. (U)

GESHVANTNER, R.A., kendidet meditsinskikh nauk (Khar'kov)

Brief report on the work of the Kharkov Province Surgical Society in 1955. Nov.khir.arkh. no.2:86-87 Mr-Ap '57. (MLRA 10:8)

(SURGERY)





Report to the work of the Kharkon American Surgical Society for 1958. Howelstranks. no.3:120-1 in Society for 1958. Howelstranks sekretar Kharland obligations obtained with the society sekretar Kharland obligations obtained with the society. (Kharkov Province of Stal Society Elections)

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GESHVANTNER, R.A. (Khar'kov, ul. Petrovskogo, d.36, kv.9)

Acute hemorrhages in gastric tumors. Vop.onk. 5 no.7:46-71 '59.

(MIRA 12:12)

1. Iz kliniki (rukovoiitel' - prof. N.N. Milostanov) Ukrainskogo nauchno-issledovatel'skogo instituta perelivaniya krovi i neotlozhnoy khirurgii (dir. - starshiy nauchnyy sotrudnik Yu.M. Orlenko).

(STOMACH - neoplasms)

(HEMORRHAGE, GASTROIMTESTIHAL etiology)
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GESHVANTNER, R.A.

Short account of the work of the Kharkov Province Society of Surgeon: in 1959. Nov. khir. arkh. no.3:117-119 My-Je '60.

(KHARKOV PROVINCE_SURGICAL SOCIETIES)

(KHARKOV PROVINCE_SURGICAL SOCIETIES)

GAVRILOV, G. B.; GESHVANTNER, R. A.

Transfusion of dry plasma following prolonged periods of preservation. Probl. gemat. i perel. krovi no.4:50-51 162. (MIRA 15:4)

l. Iz Ukrainskogo nauchno-issledovatel'skogo instituta perelivaniya krovi i neotlozhnov khirurgii (dir. - dotsent L. A. Ripyakh)

(BLOOD_COLLECTION AND PRESERVATION)
(BLOOD_TRANSFUSION)

GESIAK, Mieczysław; PAWLOWSKI, Leszek

Strength of tire cord and economy in using it. Polimery tworz wielk 8 no.5:198-202 My '63.

l. Instytut Przemyslu Gumowego, Lodz.

Resigne testing of time cord. Political two laws to law no.50188-192 Ny 642.

GESING, R

Poresters' tasks in the afforestation campaign. p.1

LAS POLSKI. (Ministerstwo Lesnicta oraz Stowarzyszenie Naukowo-Techiczne Inzynierow i Technikow Lesnictwa i Drzenwinetwa) Warszawa, Poland Vol.29, Ro.S May. 1959

Monthly list of East European "Accessions (ERAI) LC, VWol.9, no.2, Feb. 1960 Uncl.

JAGIELSKI, Mieczyslaw; GESING, Roman, mgr inz.; LISTOWSKI, Anatol, prof. dr

Jubilee in honor of the 75th anniversary of the birth of Prof. Stanislaw Bac. Gosp wodna 22 no.12:560 D '62.

- Minister Rolnictwa, Warszawa (for Jagielski).
 Hinister Lesnictwa i Przemyslu Drzewnego, Warszawa (for Gesing).
 Sekretarz Wydzialu V Polskiej Akademii Nauk, Warszawa (for
- Listowski).

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4

GESING, Roman, mgr inz.

Major problems of water management in the public administration of forests and wood industry. Gosp wodna 23 no. 8% -316+323 Ag-S *63.

1. Minister of Forestry and Wood Industry, Warsaw.

Reorganization of medical service for industrial workers. Vrach.
delo no.7:104-106 J1 '60. (MIRA 13:7)

(BERDYANSE--LABOR AND LABORING CLASSES--MEDICAL CARE)

GOL'DFARB, E.M., kand. tekhn. nauk; GESKIN, E.S., inzh.; GOL'DBERG, A.S., inzh.; GULENKO, G.V.

Applying the principle of control by perturbation for openhearth furnace control systems. Stal' 23 [i.e. 24] no.4:372-374 Ap '64. (MIRA 17:8)

1. Dnepropetrovskiy metallurgicheskiy institut i Ukrainskiy gosudarstvennyy proyektnyy institut "Metallurgavtomatika".

Optimizing temperature conditions for flame furnaces by the method of linear and quadratic programming. Report no.1. Isv.vys.ucheb. zav.; chern. met. 8 no.1: 59-163 '65 (Nara 18:1)

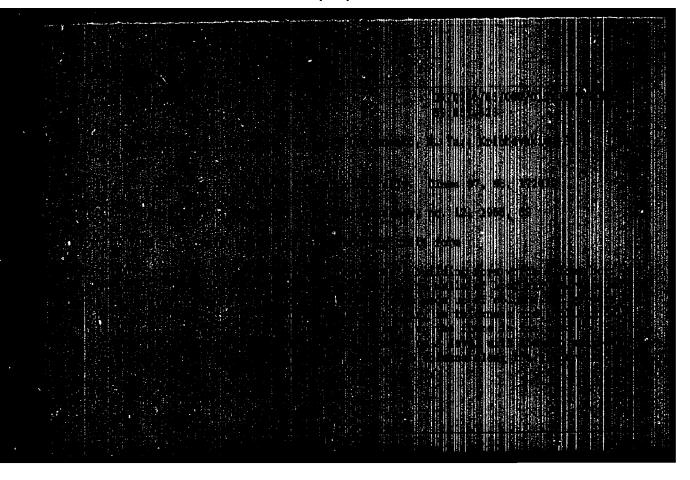
1. Inepropetrovskiy metallurgicheskiy institut.

GESKIN, G., inzh.; MOISEYENKO, G., inzh.; kULLINGV, P., inzh.

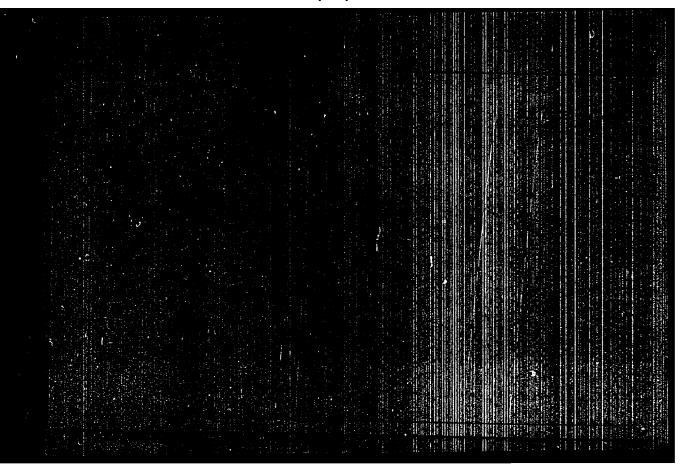
Laying the foundation for the "1760" Rolling Mill. iron.stroi.
i inzh.spor. 3 no.2:17-21 Mr-Ap '61. (MIRA 15:3)

(Foundations)

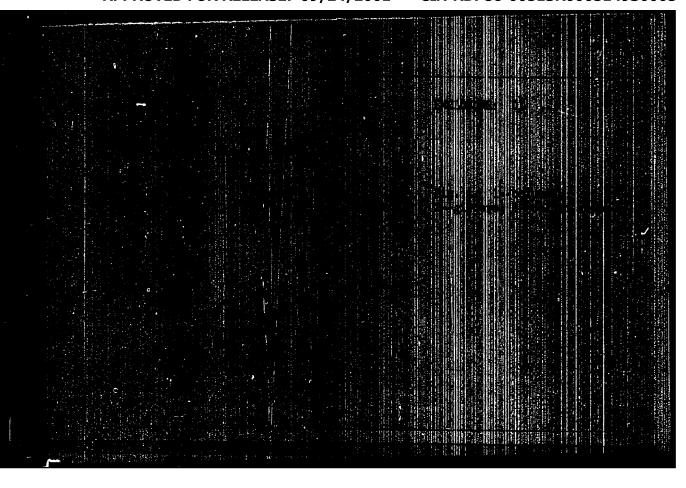
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GEOVI	N, I.Z.
	Multiple hemorrhagic pseudosarcomatosis with laryngeal and pharyngeal involvement. Vest. oto-rin., 14, No 4, 1952.

GESKIN,S.A., kandidat tekhnicheskikh nauk; SAVKIN,P.V., inzhener

The rolling of precise dimension pipes on a continuous rolling will. Stal' 15 no.7:621-629 J1 '55. (MIRA 8:9)

1. Dnepropetrovskiy truboprokatnyy zavod im. Lenina. (Rolling (Metalwork))

PIVEN', O.Ye.; GESKINA, D.S.

Some data on the use of corticosteroids in chronic suppurative otitis. Vrach.delo no.9:141-142 S '62. (MIRA 15:8)

1. 24-ya gorodskaya bol'nitsa, Dnepropetrovsk.
(CORTICOSTEROIDS) (EAR--DISEASES)

3	GESKINA.	* ***	3
1 .	- Union Links	73	-i # -

2. USSR (600)

4. Vegetables

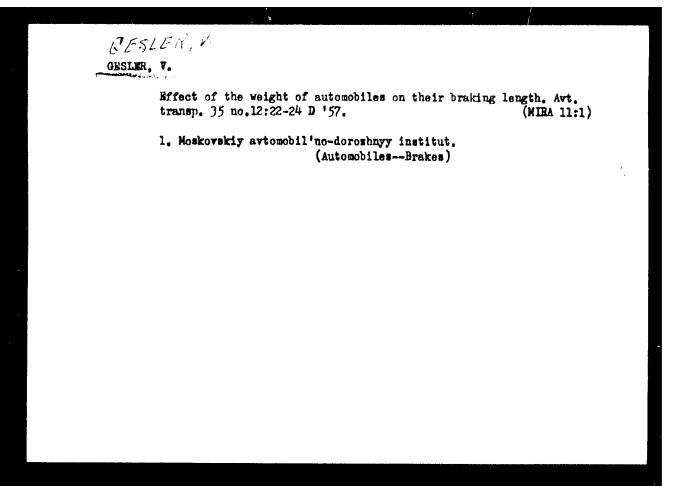
7. "Regional classification of varieties of vegetables, vine errors and fodder root plants according to natural zones of the Autonomous societies Socialist Republics and the territories and provinces of the R.S.F.S.R." Reviewed by Te. G. Geskina. Sad i og. no.9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

HAJKOVA, I.; BUCKOVA, H.; GESKOVA, E.; NATHEROVA L.

Study of tennins in some species of the genus Geranium. Cesk. farm. 13 no.4:183-185 19764

1. Katedra farmak mosie farmaceutiche fakulty un [University Komenskeho], Bratislawa.



GESNER, V.

Treatment of Cellulose Staple Fiber Fabrics by Infrared Rays. Leka Promishlenost (Light Industry), #10:40:0ct. 1955

GESLER, V., kand.tekhn.nauk; SHAKHBAZOV, O., inzh.

Use of brake retarders for motor vehicles operating on mountain areas. Avt. transp. 39 nc.5:43-46 My '61. (MI::A 14:5)

(Motor vehicles-Brakes)

KANAVETS, P.I.; GESS, B.A.; MELENT'YEV, P.N.; CHERNYSHEV, A.M.; CHERNYKH, V.I.; SPORIUS, A.E.

Method of chemical catalysis for nodulizing finely ground materials without sintering. Trudy IGI 22:5-30 '63.

(MIRA 16:11)

ACCESSION NR: AP4010070

8/0129/64/000/001/0024/0027

AUTHORS: Gorbach, V.G.; Maly*shev, K.A.; Gcas, A.V.; Ustyugov, P.A.

TITLE: Effect of high temperature nonrecrystallizing work hardening on the mechanical properties of precipitation hardened steels.

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 1, 1964, 24-27

TOPIC TAGS: precipitation hardened steel, austenitic steel, work hardening, aging, high temperature work hardening, vanadium containing steel, brittleness, recrystallization, strength, impact strength

ABSTRACT: A study of austenitic steels (containing Cr-Ni-Mn, Cr-Ni-Mn-V and Cr-Mn-V) showed that high temperature work hardening affected their properties favorably after aging, increasing strength and impact strength. The high temperature work hardening decreased the transcrystalline brittleness developed by precipitation hardening. The partial growth of recrystallization by the high temperature work hardening does not eliminate the possibility of getting Cord 1/2

ACCESSION NR: AP4010070

higher mechanical properties (in comparison to properties of steels not subject to high temperature work hardening) by subsequent precipitation hardening. Austenitic steel containing 1.5% vanadium, when subjected to a combination of high temperature work hardening and aging has high mechanical properties even by partial recrystallization during the high temperature deformation process. Orig. art. has: 2 tables and 4 figures.

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CHERNYSHEV, A.M.; GESS, B.A.; KANAVETS, P.I.; MELENT'YEV, P.N.; KISELEV, G.P.; ISYLEV, L.M.; BORISOV, Yu.I.; CHERNYKH, V.I.

Metallurgical properties of granules prepared by the method of chemical catalysis. Trudy IGI 22:39-49 163.

(MIRA 16:11)

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Experimental pilot plant stand for the nodulizing of finely ground materials by the method of chemical catalysis. Trudy IGI 22:57-69 '63. (MIRA 16:11)

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Pilot plant for the nodulizing of finely ground charge mixtures by the method of chemical catalysis. Trudy IGI 22: 93-109 '63. (MIRA 16:11)

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Experimental blast furnace smelting with replacement in the charge of 20-per cent of the fluxed sinter by granules prepared by chemical catalysis. Trudy IGI 22:310-113 163.

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(Sintering)

(Granular materials---Testing)