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Relation Between the Matrices of Various
Transitions and Multiple Processes

S/056/60/039/003/053/058/XX
B006/B070

that a large number of bosons are produced; all the bosons have about the same energies. On these assumptions, the equation for the matrix $\gamma(ON,22)$ is set up according to formula (2), and the solution obtained is discussed. The authors thank Ye. L. Feynberg and D. S. Chernavskiy for valuable comments. There are 6 non-Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: April 18, 1960

Card 3/3

38880

S/188/62/000/003/005/012
B111/B112

34.6510

AUTHORS: Vavilov, B. T., Verdiyev, I. A., Goncharova, N. G.,
Grigor'yev, V. I., Meledin, G. V.

TITLE: Quantum field theoretical investigation of multiple processes

PERIODICAL: Moscow. Universitet. Vestnik. Seriya III. Fizika,
astronomiya, no. 3, 1962, 46-59

TEXT: Multiple production of π -mesons in π -N, γ -N, N-N, and π - π collisions is studied and the corresponding graphic renormalization equations are given. The mathematical structure of the theory is similar to that of the Tamm-Dankov method. It differs only in that the infinite system of equations does not break off, but a solution being reached through a reduction of the propagation function and on other assumptions. Proceeding from the Tomonaga-Schwinger equation

$$i \frac{\delta}{\delta \sigma} U_{[\sigma, \sigma_0]} = H(x) U_{[\sigma, \sigma_0]}$$

where

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$$U_{[\sigma, \sigma_0]} = \sum_{ij, nm, kl} U_{[\sigma, \sigma_0]}^{(ij, nm, kl)}$$

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$U(ij, nm, kl)$ is the transition matrix for a graph with i, n, k incoming, and j, m, l outgoing boson, fermion and antifermion lines, respectively. For $U(ij, nm)$ it is established that

$$U_{[\sigma, \sigma_0]}^{(ij, nm)} = \int d^4z \sum_{\alpha=1}^m \prod_{\beta=1}^{\alpha-1} \bar{u}(\vec{p}_\beta) \prod_{\beta=1}^n u(\vec{p}_\beta) \prod_{\gamma=1}^l \psi^{(+)}(\vec{p}_\gamma) \prod_{\delta=1}^l \psi^{(-)}(\vec{p}_\delta) \times$$

$$\times Q^{(ij, nm)} \exp \left[iz \left(\sum_{\alpha=1}^m p_\alpha + \sum_{\gamma=1}^l p_\gamma - \sum_{\beta=1}^n p_\beta - \sum_{\delta=1}^l p_\delta \right) \right]. \quad (4),$$

where $Q^{(ij, nm)}$ is a coefficient function, for the individual collisions, as determined from the graphs. This method offers the advantage that summation does not necessitate all graphs being written explicitly as in the perturbation theory. Since a closed solution is impossible, the procedure is simplified by disregarding the production of nucleon-antinucleon pairs in the intermediate and final states, disregarding spin effects, and assuming low energy in the mesons produced. In addition, scalar and pseudoscalar mesons with scalar interaction are

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studied. Following the determination of $Q^{(1j, nm)}$ for the π -N, ρ -N collisions the probability W_n

$$W_n = n! (2\pi)^4 \int \frac{d^3p}{2E_p} \prod_{i=1}^n \frac{d^3k_i}{2k_{0i}} |Q^{(n, 11)}|^2 \times \delta(E_p + \sum_{i=1}^n k_{0i} - \epsilon_0) \delta^3(\vec{p} + \sum_{i=1}^n \vec{k}_i). \quad (8)$$

is obtained by insertion into (4) where p, k_i is a four-momentum of the final particles. The integral in (8) is the "generalized phase integral" which, for N-N and π - π collisions has similar shape. Its calculation is illustrated for π -N collisions. For N-N collisions, similar considerations as for π -N collisions, give

$$W_n \sim (gm)^{2n} \left(\frac{\pi}{2u^2} \right)^{n/2} \frac{n! (z-1)^{2n-1}}{[(n+1)!]^2 (2n-1)!}$$

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where $z = \frac{E_0}{m}$. For π - π collisions the interaction is brought about by a nucleon-antinucleon pair (a term λ^4 being added in the interaction Hamiltonian). If meson scattering only is considered, this influences the multiplicity only slightly. The angular distribution tends to higher isotropy in the presence of meson interaction. For the angular distribution of relativistic mesons in N-N collisions $\frac{dn(\theta)}{d\theta} \sim \frac{1}{\sin^3\theta}$, and for the energy distribution

$$\frac{dn(k)}{dk} \sim \frac{1}{k^2} + \frac{k^2}{4k^2} \cdot \ln \left(\frac{\omega + k}{\omega - k} \right)^2, \quad \omega^2 = k^2 + k^2.$$

Summary of the results for multiplicity:

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$$\bar{n}_{N-N} \approx \frac{\pi^{1/2}}{3} \left(g \frac{m}{\mu} \right)^{1/2} (z^{1/2} - 1)^{1/2}, \quad z = \frac{W \mu \epsilon}{2m},$$

$$\bar{n}_{\kappa-N} = \bar{n}_{1-N} = \frac{\pi^{1/2}}{4^{1/2}} g^{1/2} \left(\frac{m}{\mu} \right)^{1/2} \left[\left(\frac{W \mu \epsilon}{2m} \right)^{1/2} - 1 \right]^{1/2},$$

$$\bar{n}_{\kappa-\kappa} \sim \begin{cases} \left(\frac{E^c}{2\mu} - 1 \right)^{1/2} & \text{(I)} \\ \left(\frac{E^c}{2\mu} - 1 \right)^{1/3.5} \div \left(\frac{E^c}{2\mu} - 1 \right)^{1/2} & \text{(II)} \end{cases}$$

No qualitative agreement could be found between the formulas and the experiment. There are 5 figures and 1 table.

ASSOCIATION: Kafedra elektrodinamiki i kvantovoy teorii (Department of Electrodynamics and Quantum Theory)

SUBMITTED: July 16, 1961

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GRIGOR'YEV, V.I.; SIDOROV, N.A.

Determining the permissible internal pressure in casings.
Neft. khoz. 41 no.2:25-29 F '63. (MIRA 17:8)

ACCESSION NR: AP4043799

S/0188/64/000/004/0056/0061

AUTHOR: Grigor'yev, V. I.

TITLE: Broadening and shift of energy levels

SOURCE: Moscow. Universitet. Vestnik. Seriya 3. Fizika, astronomiya, no. 4, 1964, 56-61

TOPIC TAGS: energy level, perturbation, renormalization, quantum theory; boson, fermion

ABSTRACT: The problem of the broadening and shift of energy levels of a system subjected to the influence of perturbations has been considered in many papers. In this article an attempt is made to develop an approach suitable for the study of processes with an arbitrary number of particles in the initial and final states. There is also a discussion of how the renormalization method can be used for eliminating discrepancies. The conditions for determining the renormalization constants are written in the form:

$$\begin{aligned} \langle 1 | S^{(1)} | 1 \rangle &= 0, \\ \langle 1 | S^{(2)} | 1 \rangle &= 0, \end{aligned} \quad (1)$$

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where $V \rightarrow 0$, that is, in the absence of an external field, where $| >$ is a single-boson state vector and $| >$ is a single-fermion state vector. Before writing expressions for the shift and broadening of energy levels the author cites

$$\Psi_j = \Psi(\sigma) = \sum_n \Psi_n C_n(\sigma), \tag{2}$$

where Ψ_n is the full set of state vectors (with quantum numbers denoted by the single letter n) in the absence of perturbation

$$\frac{\delta \Psi_n}{\delta \sigma(x)} = 0. \tag{3}$$

Using the orthonormal character of the system Ψ_n it is possible to write equations for C_n

$$\begin{aligned} i \frac{\delta C_n}{\delta \sigma(x)} &= \sum_{n' \neq n} \Psi_n^+ \hat{H}(x) \Psi_{n'} C_{n'} + \Psi_n^+ \hat{H}(x) \Psi_n C_n, \\ i \frac{\delta C_0}{\delta \sigma(x)} &= \sum_{n' \neq 0} \Psi_0^+ \hat{H}(x) \Psi_{n'} C_{n'} + \Psi_0^+ \hat{H}(x) \Psi_0 C_0. \end{aligned} \tag{4}$$

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with the initial conditions

$$C_n(\sigma_0) = \delta_{nn}, \quad (5)$$

$C_n[\underline{\sigma}']$ is rewritten (when $n \neq n_0$) in the form

$$C_n(\sigma) = K_n(\sigma) C_0(\sigma). \quad (6)$$

Substituting this into (4) it is found that the formal ($K[\underline{\sigma}']$ has not yet been found) solution has the form

$$C_0(\sigma) = \exp \left\langle -i \int_{\sigma_0}^{\sigma} d^4x \left[\sum_{n \neq n_0} \Psi_n^+ \hat{H}(x') \Psi_n K_n(\sigma') + \Psi_{n_0}^+ \hat{H}(x') \Psi_{n_0} \right] \right\rangle, \quad (7)$$

where x' is a point of four-dimensional space-time lying on the hypersurface σ' , so that in the exponent there will be the T product of the operators entering into $\hat{H}(x')$ and $K_n[\underline{\sigma}']$. C_n is easy to relate to the S matrix. In actuality, since

$$\Psi(\sigma) = S(\sigma\sigma_0) \Psi(\sigma_0) \quad (8)$$

and since in "scattering type" problems $\Psi[\underline{\sigma}'] = \Psi_{n_0}$, it is easy to show that

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$$C_0(\sigma) = \Psi_0^+ S(\sigma) \Psi_0 \quad (9)$$

This makes it possible to rewrite C_0 in a convenient form:

$$C_0(\sigma) = \exp \left\langle -i \int_0^\sigma d^4x \frac{\Psi_0^+ \tilde{H}(x) S(\sigma' \sigma_0) \Psi_0}{\Psi_0^+ S(\sigma' \sigma_0) \Psi_0} \right\rangle \quad (10)$$

where Δm and Δx^2 are determined by condition (1). Width and shift of levels can be found as the real and imaginary parts of the expression

$$\lim_{\substack{\sigma \rightarrow +\infty \\ \sigma_0 \rightarrow -\infty}} \frac{1}{C_0(\sigma)} \int d^4x \frac{\delta C_0(\sigma)}{\delta \sigma(x)} \quad (11)$$

Certain peculiarities of this expression are discussed, followed by analysis of a case in which, in the initial state, there is one fermion and no bosons. The case $V \neq 0$ is considered separately. The perturbation method was used to obtain $C_0(\sigma)$. It would be possible to make the analysis in a different approximation, such as within some ladder approximation. The renormalization method does not require use of any specific approximation. Formula (10) and others in the paper are correct for cases of both spontaneous and forced radiation. Orig. art. has: 29 formulas and 1 figure.

ACCESSION NR: AP4043799

ASSOCIATION: N11YeF

SUBMITTED: 03Oct63

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NO REF SOV: 002

ENCL: 00

OTHER: 004

Card

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L 34206-65 EPA(s)-2/EWT(m)/EPF(n)-2/EWP(t)/EWP(b) Pt-10/Pu-4 IJP(c) JD/WW/JG
ACCESSION NR: AP5007376 S/0286/65/000/004/0036/0036

AUTHOR: Bazarov, Ye. N.; Zolin, V. F.; Grigor'yev, V. I. 34
B

TITLE: Method of eliminating optical bias lighting effects on frequency standards based on alkali element vapors. Class 21, No. 168335

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 36

TOPIC TAGS: frequency standard, optical bias lighting, frequency standard stability

ABSTRACT: The proposed method employs optical bias lighting with a frequency equal to the pulse repetition rate. Such bias lighting exceeds the contribution of alkali-atom relaxation to the width of the line at a duty factor exceeding two. This improves the stability of the frequency standard and decreases the widening of the line. [DW]

ASSOCIATION: Institut radiotekhniki i elektroniki AN SSSR (Institute of Radio Engineering and Electronics, AN SSSR)

SUBMITTED: 21Mar63

ENCL: 00

SUB CODE: EC

NO REF SOV: 000

OTHER: 000

ATD PRESS: 3212

Card 1/1

ADRIANOV, G.F.; SHATILOVICH, S.A., starshly nauchnyy sotrudnik; GRIGORIYEV,
V.I., starshly nauchnyy sotrudnik.

New method for turning the elastic top rolls of spinning
machinery drafters. Tekst. prom. 24 no.5:23-25 By '84
(LIRA 18:2)

1. Fachal'nik priyadil'noy laboratorii Yaroslavskego proyektno-
tehnologicheskogo i nauchno-issledovatel'skogo instituta
Verkhne-Volzhskego soveda narodnogo khozyaystva (for Adrianov).
2. Yaroslavskiy proyektno-tehnologicheskiy i nauchno-issledo-
vatel'skiy institut Verkhne-Volzhskego soveda narodnogo khoz-
yaystva (for Shatilovich, Grigor'yev).

GRIGOR'YEV, V.I.

Conditions for effective use of the direct connections system.
Vest. svyazi 24 no.10:3-5 O '64. (MIRA 17:12)

1. Vedushchiy konstruktor Tsentral'nogo nauchno-issledovatel'skogo
instituta svyazi.

BOGIN, H.A.; PULAVED, A.G.; MUDIMANOV, A.M.; ~~REDACTED~~; YEFREMOV, P.V.;
SANKHAROV, V.N.; MARGOLIN, I.M.; ~~REDACTED~~; TASHKOV, Yu.S.;
SOVERCHAYEV, V.A.; FEDOROV, V.G.

Brief news. Meteor. i gidrol. no.9:61-64. S 195.

(MIRA 18:8)

AVETISYAN, N.S., GRIGORIYEV, V.I.

Effect of a curved and vibrating drilling-string bottom on
the well wall. Neft. khoz. 45 no.3:22-27 Mr '65. (MIRA 18:6)

ALEKSEYEV, V. V.; GROMOVYEV, V. I.

Description of steady states in the representation of interaction.
Vest. Mosk. un. Ser. 3. Fiz., astron. 20 no. 1:42-46 Ja-F '65.
(MIRA 18:3)

1. Katedra elektrodinamiki i kvantovoy teorii Moskovskogo universiteta.

FAKUL'TET, S.S.; U. S. S. R. ACADEMY, U. S. S. R.

Rock pressure and its effect on soil resistance, the behavior of supports at great depths. Izv. AN SV. SSSR. Ser. Tekh. Nauk. no. 2:84-89 '65. (MIRA 12:8)

1. Institut geologo dela in. A. A. Shchitsinskogo i sushchestvennogo po tekhicheskoy promyshlennosti pri Gosplanu SSSR.

GRIGOR'YEV, V. I. Cand Tech Sci -- (diss) "Combatting ~~the~~
Arbitrary Deformation of Bore Hole Configurations ⁱⁿ ~~at~~ Turbine
Drilling: " Krasnodar, 1957. 18 pp 20 cm. (Min of Petroleum
Industry USSR, Krasnodar Affiliate of the All-Union Petroleum
and Gas Scientific Research Inst), 120 copies (KL, 18-57, 96)

GRIGOR'YEV, Vitaliy Ivanovich; SIDOROV, Nikolay Aleksandrovich; SHISHCHENKO,
R.I., prof., doktor tekhn.nauk, red.; PETROVA, Ye.A., inzh., vedushchiy
red.; POLOSINA, A.S., tekhn.red.

[Controlling deflection of well shafts in turbodrilling] Bor'ba
s iskrivleniem stvolov skvazhin v turbinnom burenii. Pod red.R.I.
Shishchenko. Moskva, Gos.nauchno-tekhn.izd-vo nefi i gorno-toplivnoi
lit-ry, 1957. 87 p. (MIRA 10:12)
(Turbo-drills) (Oil well drilling)

GRIGOR'YAN, V.I.

GRIGORYAN, A.M., inzhener; GRIGOR'YAN, V.I.

Using deflectors for drilling horizontal multiwells. Neftianik
2 no.5:3-5 My '57. (MIRA 10:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut burnefti
(for Grigoryan) 2. Starshiy nauchnyy sotrudnik Krasnodarskogo
filiala Vsesoyuznogo neftyanogo nauchno-issledovatel'skogo
instituta. (for Grigor'yev).

(Oil well drilling)

GRIGOR'YEV, V. I.

Defense of Dissertations, Jan-Jul 1957, Section of Technical Sci.
Vest. AN SSSR, 1957, Vol. 27, No. 12, pp 122-123

At the Petroleum Institute.

Applications for the degree of Cand. of Tech. Sci.:

ANIYAN, V. A. - Putting into operation, utilization and repair of fountain wells.

GRIGOR'YEV, V. I. - The Prevention of the Arbitrary bending of Opening Shafts
in Turbine Drilling.

SERGEYEVICH, V. I. - Investigation of the Viscosity and the Density of Deposit
Water of Mineral Oil Deposits and the Binary Electrolyte Solutions in Dependence on
Temperature and Pressure.

SHIMKELVICH, Yu. S. - Activation Analysis of Rocks under the Conditions of
Drill Holes and their Utilization for the Determination of the Position of Mineral oil
and Water-containing Deposits.

Application for the degree of Candidate of Chemical Sci: N. Ya. CHERNYAK - The
kinetics and the Mechanism of the Liquid-phase oxidation of dibenzyl and
"dicyclohexyl ethane.

GRIGOR'YEV, V.I.

~~Using natural deflections of wells in drilling formations containing~~
great dip angles. Neft.khoz. 35 no.2:15-18 F '57. (MLRA 10:3)
(Oil well drilling)

GRIGOR'YEV, V.I.

Change in the destruction force in relation to the angle between
the direction of application of this force and the bedding plane
of rocks. Trudy VNI no.17:101-105 '58. (MIRA 12:1)
(Kuban—Oil well drilling) (Rocks, Sedimentary)

ORIGON'YV, V.I.

Method for combating the deflection of shafts in turbodrilling.
Trudy VNII no.17:123-130 '58. (MIRA 12:1)
(Oil well drilling)

GRIGOR'YEV, V.I.

Improving directional drilling methods. Trudy KN VNI no.2:
161-165 '59. (MIRA 13:11)
(Oil well drilling)

SIDOROV, N.A.; GRIGOR'YEV, V.I.; ZARNITSKIY, G.E.

Temperatures of casing columns during well exploitation. Trudy
KF VNII no.5:126-137 '61. (MIRA 14:10)
(Oil well casing)

GRIGOR'YEV, V.I.

Increasing the operating effectiveness of deflecting tools in
controlled drilling of deflected wells. Trudy KF VNII no.5:178-
184 '61. (MIRA 14:10)

(Oil well drilling)

GRIGOR'YEV, V.I.; SIDOROV, N.A.

Strain and resistance of casing columns subjected to excessive
internal pressure. Trudy KF VNII no.5:193-200 '61. (MIRA 14:10)
(Oil well casing) (Strains and stresses

GRIGOR'YEV, V. I.

For a better organization and accuracy of raw material
accounting in butyl-acetone and alcohol production. Spirt.
prom. 28 no.8:27-29 '62. (MIRA 16:1)

1. Yefremovskiy spirtovoy zavod.

(Distilling industries—Accounting)

AVETISYAN, N.G.; GRIGOR'YEV, V.I.

Changes in the configuration of a hole due to the contact pressure
of a curved and vibrating drilling-string bottom. Burenie no.9:12-
13 '64. (MIRA 18'5)

1. Krasnodarskiy filial Vsesoyuznogo neftegazovogo nauchno-
issledovatel'skogo instituta.

GRIGOR'YEV, V.I.; SIBIRYOV, N.A.; ALICHA YAN, N.K.

Concerning the nature of the relationship between
of a drilling string. Keft. khov. 40 no. 12:11-12 D 164
(1912. 1814)

SUKURENKO, Ye.I.; GRIGOR'YEV, V.I.; BONDAREV, V.I.

Causes of circulation loss in the oil fields of the Kuban.
Burenie no.2:15-18 '65. (MIRA 18:5)

1. Krasnodarskiy filial Vsesoyuznogo neftegazovogo nauchno-
issledovatel'skogo instituta.

BRONZOV, Anatoliy Samsonovich; VASIL'YEV, Yuriy Sergeyevich;
SHETLER, Georgiy Arvidovich; GRIGOR'YEV, V.I., red.;
ISAYEVA, V.V., ved. red.

[Turbodrilling of inclined wells] Turbinnoe burenie naklon-
nykh skvazhin. 2. dop. i perer. izd. Moskva, Nedra, 1965.
247 p. (MIRA 1874)

GRIGOR'YEV, Vladimir Ivanovich; MYAKISHEV, Gennadiy Yakovlevich;
VERES, L.F., red.

[The forces in nature] Sily v prirode. Moskva, Nauka,
1964. 366 p. (MIRA 18:1)

GRIGOR'YEV, VIKTOR YEROFEYEV

721
.08

Zelen'noye i Kolkhoznoye Pravo (Land and Collective Farm Right, by) V. K. Grigor'yev, B. V. Yerofeyev i N. S. Lipetsker, Pod Red. I. V. Pavlova, Moskva, Gosyurizdat, 1957.

270 P.

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GRIGOR'YEV, Vladimir Kirillovich; KOPYAKHIN, L.G., red.; LAZAREVA,
L.V., tekhn.red.

[State management of collective farms] Gosudarstvennoe rukovodstvo kolkhozami. Moskva, Izd-vo Mosk.univ., 1961. 56 p.
(MIRA 14:4)

(Collective farms)

GRIGOR'YEV, V.K.

Automatic machine for polishing journals of stepped shafts.
Bul. tekhn.-ekon.inform. no.1:31-33 '62. (MIRA 15:2)
(Grinding machines)

GRIGOR'YEV, V.K.

The MK-62 and MK-79 automatic machines for decorative polishing
of small part areas. Biul.tekh.-ekon.inform. no.12:31-33 '61.
(MIRA 14:12)

(Grinding machines)

GRIGOR'YEV, V.K.

The 3R210 automatic circular grinding machine. Biul.tekh.-ekon.-
inform.Gos.nauch.-issl.inst.nauch. i tekh.inform. no.6:37-39
'62. (MIRA 15:7)

(Grinding machines)

GRIGOR'YEV, Vladimir Kirillovich

[Rights and duties of members of collective farms] Prava i
obiazannosti chlenov kolkhoza. Moskva, Gos.izd-vo iurid. lit-
ry, 1953. 61 p. (MIRA 15:9)

(Collective farms)

GRIGOR'YEV, V.K.

Industrial testing of the PD-1m unit in shaft sinking at Mine
No. 122, Saran Combine, Karaganda Mine Building Enterprise.
Trudy TSNIIPodzemshakhtstroia no.1:62-79 '62. (MIRA 16:8)

(Karaganda Basin--Shaft sinking--Equipment and supplies)

~~GRIGOR'YEV, Vitaliy Konstantinovich; KIRILLOV, Grigoriy Konstantinovich;~~
KUBIN, Isaak Yakovlevich; SHORIN, D.M., red.; ALESHIN, V.I.; red.
isd-va; FILIPPOV, A.L., tekhn. red.

[Maneuverability of oil barges in push-type towing] Upravliaemost'
neftenalivnykh sostavov pri tolkanii. Moskva, Isd-vo "Nauchnoi
transport," 1958. 55 p. (MIRA 11:7)

(Towing)

GRIGOR'YEV, V.K.; BALASHOV, Ye.G.

Hydraulic ejection equipment used for pumping petroleum from
tank-vessels. Biul.tekh.-ekon.inform. no.6:71-72 '58. (MIRA 11:8)
(Petroleum--Transportation)

GRIGOR'YEV, V.K.; ISTOMIN, A.I.

Inclining pontoons used for removing petroleum-product re-
minders from river barges. Biul.tekh.-ekon.inform. no.10:73-74
' 58. (MIRA 11:12)

(Tank vessels)

RABBY, M.L.; GRIGOR'YEV, V.K.; RZHAVSKIY, Ye.L.

Using ejectors for pumping petroleum and petroleum products with
high vapor pressure. Neft. khoz. 36 no.1:59-63 Ja '58. (MIRA 11:2)
(Oil well pumps)

GRIGOR'YEV, V.K.

Transportable shelter for a pumping and power plant. "eft. khoz.
39 no.11:64-65 N '61. (MIRA 14:12)
(Roofs, Shell) (Pumping machinery)

GRIGOR'YEV, V.K.

Annular automatic line for machining micrometer gauge. Biul.
tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform.
no.5:35-38 '62. (MIRA 15:7)
(Machine tools) (Automation)

GRIGOR'YEV, V.K.

Automatic turret lathes for machining forgings. Biul. tekhn.-
ekon. inform. Gos. nauch.-issl. inst. nauch. i tekhn. inform.
17 no.3:39-40 '64. (MIRA 17:9)

L 55333-65 EPA(s)_2/EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) MJW/JD/GS

ACCESSION NR: AT5014630

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681.142.324

29
B+1

AUTHOR: Grigor'yev, V. K.; Kireyev, V. I.

TITLE: Experimental utilization and comparison of the dynamic characteristics of new magnetically soft materials.

SOURCE: ~~Vsesoyuznoye soveshchaniye po magnitnym elementam avtomatiki i vychislitel'noy tekhniki. 9th, Yerevan, 1963. Magnitnyye analogovyye elementy (Magnetic analog elements); doklady soveshchaniya. Moscow, Izd-vo Nauka, 1965, 174-179~~

TOPIC TAGS: magnetically soft alloy, rectangular hysteresis loop, thermo stable magnetic alloy, alloy hysteresis loop, alloy magnetic property / 35NKKhSP alloy, 37NKDP alloy, 68NMP alloy, 50NP alloy

ABSTRACT: Three new alloys - 35NKKhSP, 37NKDP, and 68NMP - with rectangular hysteresis loops and high magnetic properties, have been developed by TsNIICHERMET. They are earmarked for use in magnetic amplifiers, pulse transformers, and other magnetic equipment. The present article compares the magnetic properties of the new materials with the properties of the existing 50NP alloy, describes the thermal processing of the cores and the measurement of

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L 55333-65

ACCESSION NR: *5:14630*

their magnetic properties, and presents experimental data. The results show that: 1) the new alloys have better static and dynamic properties than 50NP; 2) the best frequency characteristics are found in 35NKKhSP and 68NMP (the limiting operating frequencies are 6-7 Kc (8-10 Kc) for 0.05 mm strips and 15-20 Kc (28-30 Kc) for 0.02 mm strips, respectively); 3) the 37NKDP alloy has the best properties with DC or at low frequencies; 4) the temperature stability within the -40 to +100C interval is excellent. The production technology of these alloys differs from the one used during the production of 50NP alloy by additional annealing within a magnetic field. Orig. art. has: 5 figures and 3 tables.

ASSOCIATION: T^oNIICHERMET

SUBMITTED: 28Dec64

ENCL: 00

SUB CODE: *MM, EC*

NO REF SOV: 001

OTHER: 000

JO
Card 2/2

GRIGOR'YEV, V. K., VISHNEVSKIY, M. E., YERGA KOV, V. A., NIKITIN, S. Y.,
PUSHKIN, E. V., and TREBUKHOVSKIY, Yu. V. AS USSR, Moscow

"On the Polarization of Electrons, in β -Decay," Journal of Nuclear
Physics, Amsterdam, No. 4, pp 240-247, 1957.

21(7)

AUTHORS:

SOV/56-36-4-56/70
Trebukhovskiy, Yu. V., Vladimirskiy, V. V., Grigor'yev, V. K.,
Yergakov, V. A.

TITLE:

The e- ν -Angular Correlation in the β -Decay of the Free Neutron
(Uglovaya korrelyatsiya e- ν pri β -raspade svobodnogo neytrona)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36,
Nr 4, pp 1314-1316 (USSR)

ABSTRACT:

In the present "Letter to the Editor" the authors report about a method of determining the electron-neutrino angular correlation in the β -decay of the free neutron; this method is carried out by spectrum analysis of the decay electrons with fixed momentum of the recoil protons. The experimental arrangement is schematically represented by figure 1. The collimated neutron beam (diameter 35 mm) used for this investigation was obtained from the heavy water reactor of the AS USSR. The neutron beam incides direct on to a lead- and boron-carbide-shielded monitor by which flux is controlled. The electrons are conveyed via magnetic lenses to a Geiger-Müller counter, and eventually reach a photomultiplier; the recoil protons encounter an electronic multiplier. Work was carried out with double coincidence connection

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SOV/56-36-4-56/70

The e-V-Angular Correlation in the β -Decay of the Free Neutron

(for the purpose of eliminating such electrons as had penetrated both detectors) and with triple coincidence connection (between the proton- and electron detectors). The former had a time resolution of 0.2 μ sec and the latter of 0.7 μ sec. During measurements, the results of which are shown by a diagram in figure 2, the effectivity of the electronic multiplier was checked by calibration with an α -source and that of the Geiger-Müller counter and the photomultiplier by means of an Sr^{90} source. Figure 2 shows the calculated curves for 5 λ -values between -1 and +1. The measured values (which are also plotted) have a standard error. Dealing with the results according to the method of the smallest squares gave $\lambda = -0.06 \pm 0.13$, by which only the statistical error is taken into account. The value deviates somewhat from that obtained by Robson (Ref 3) ($\lambda = +0.07 \pm 0.12$). Proceeding from the assumption that in β -decay the main contribution is made by the axially-vectorial and the vectorial variant (cf Refs 4-7), it holds, in accordance with the λ -value of the authors, that $R = g_A^2/g_V^2 = 1.3_{-0.53}^{+1.5}$. The authors finally thank Academician A. I. Alikhanov for his advice, Ye. K. Tarasov

Card 2/3

The $e-\nu$ -Angular Correlation in the β -Decay of the Free Neutron

SOV/56-36-4-56/70

for calculations, and D. P. Zharkov, G. K. Tumanov, and N. I. Afanas'yev for their help in carrying out the experiments; they further thank V. Ye. Nesterov for assisting in constructing the experimental set-up, and they thank chief engineer of the heavy-water reactor, S. A. Gavrilov, and his collaborators for keeping the reactor in permanent operation. There are 2 figures and 8 references, 4 of which are Soviet.

SUBMITTED: December 25, 1958

Card 3/3

85338
S/120/60/000/005/006/051
E032/E514

24.6810

AUTHOR:

Grigor'ev, V. K.

TITLE:

An Electrostatic Spectrometer for Recoil Nuclei /9

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No.5, pp.33-34

TEXT: A new type of electrostatic spectrometer for energies up to a few keV and singly charged particles is described. It has a large solid angle (2π) and is based on the time of flight method for measuring energy. The principal part of the instrument is an electrostatic mirror in the form of a truncated ellipsoid of revolution as shown in Fig.1. The electrostatic mirror is formed by a capacitor with plates in the form of two confocal ellipsoids. The inner ellipsoid is in the form of a grid and a constant potential difference is applied between the two plates. The source of the particles under investigation is placed in one of the foci. On passing through the grid, the particles enter the electric field. If their energy is less than a certain maximum value, they are reflected by the electric field and are collected in the second focus. A detector is placed at the second focus. If the energy is greater than the maximum value, the particles reach the outer plate of the capacitor. The maximum energy mentioned above is
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E032/E514

An Electrostatic Spectrometer for Recoil Nuclei
given by the relation

$$e_m = V/\cos^2 \alpha \quad (1)$$

where α is the angle at which the particle leaves the source and V is the potential difference between the capacitor plates. The energy of the particles is determined by measuring the time of flight over the distance from the source to the detector. In view of the focal property of the ellipsoid, these paths are equal and are independent of α . It is clear that this method of measuring the energy can only be used when it is possible to determine the instant of time at which the particle leaves the source, for example, in studying the spectrum of recoil nuclei produced during β -disintegration. In this case the time of exit of the nucleus from the source is determined by recording the β -particle emitted at the same time. An estimate was made of the possible aberrations of the instrument. These aberrations are due to two factors, namely, the fact that the distance between the capacitor plates is finite and the fact that the inner plate is in the form of a grid. The first type of aberration is of no importance in practice and
Card 2/4

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E032/E514

An Electrostatic Spectrometer for Recoil Nuclei

simple calculations show that these aberrations are zero in the first approximation. The grid structure of the inner electrode is more difficult to deal with. The over-shoot h due to this cause is approximately given by

$$h = \rho l v / 4 d s \quad (2)$$

where ρ is the path length from the mirror to the detector, l is the grid spacing, d is the distance between the plates, v is the potential difference and s is the particle energy. It follows from this equation that the aberration can be reduced by suitable choice of the grid parameters. It should be noted that the construction of the grid has an effect on the "transparency" of the instrument. Special tests carried out with the aid of an electron gun have shown that the above formulae for the aberrations are correct and that the transparency is about 70%. The construction of the instrument is illustrated in greater detail in Fig.2. The parameters of the ellipsoid were chosen to be $a = 640$, $b = 400$ mm. The outer electrode was made of aluminium 3 mm thick, the inner electrode was in the form of bands of beryllium bronze 0.4 mm thick

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E032/E514

An Electrostatic Spectrometer for Recoil Nuclei

and 3 mm wide. The outer electrode was insulated by teflon packing. The instrument is particularly convenient in β -decay studies. It has also been used in studying the proton spectrum produced as a result of the disintegration of free neutrons (Ref.1). Fig.3 shows the proton spectrum obtained. The continuous curve shows the theoretical results. The difference between the experimental and the theoretical values is due to the finite resolution of the instrument. The resolution depends on the width of the time analyser channels and on the dimensions of the source. Acknowledgments are made to V. V. Vladimirovskiy for assistance and advice, to Yu.V.Trebukhovskiy for assistance in the design of the instrument and to D.P.Zharkov for the development of its final form. There are 3 figures and 1 Soviet reference.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki
AN SSSR (Institute of Theoretical and Experimental
Physics AS USSR)

SUBMITTED: August 12, 1959

Card 4/4

VLADIMIRSKIY, V.V.; GRIGOR'YEV, V.K.; YERCAKOV, V.A.; ZHARKOV, D.P.;
TREBUKHOVSKIY, Yu.V.

Electron-neutrino angular correlation in free neutron decay.
Izv. AN SSSR. Ser. fiz. 25 no.9:1121-1123 '61. (MIRA 14:8)
(Neutrons—Decay)
(Neutrinos)
(Electrons)

ACCESSION NR: AP4043608

S/0056/64/047/002/0400/0403

AUTHORS: Grigor'yev, V. K.; Grishin, A. P.; Vladimirskiy, V. V.;
Trostina, K. A.; Yerofeyev, I. A.; Tikhomirov, G. D.

TITLE: Investigation of the reaction $\pi^+ + p \rightarrow p + \pi^- + \pi^+ + \pi^-$ at
2.8 BeV energy

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 2, 1964, 400-403

TOPIC TAGS: pi meson product, negative pi meson, positive pi meson,
pion scattering, scattering cross section, resonance scattering

ABSTRACT: The experimental material used by Yu. V. Trebukhovskiy
et al. (Phys. Lett., v. 6, 190, 1963) to investigate the reaction
 $\pi^- + p \rightarrow p + \pi^- + \pi^0 + \pi^0$ (1) at a primary pion momentum 2.8 BeV/c,
was used by the authors to analyze the analogous reaction with charged
pions in the final state, namely $\pi^- + p \rightarrow p + \pi^- + \pi^+ + \pi^-$ (2).
About 70% of the photographs (total 30,000) obtained in the earlier

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ACCESSION NR: AP4043608

investigation were used, and 550 events were selected to check the distribution of the latter reaction relative to the three pion mass. The selection criteria are briefly described. The value obtained for the ratio of the cross sections of reaction (2) to that of (1) (0.8 ± 0.4) offers evidence that these reactions are more likely to proceed via three-pion resonance than via formation of ρ and Δ resonances (ρ meson and Δ isobar). The irregularity in the three-pion-mass distribution in the vicinity $0.9\text{--}1.0 \text{ BeV}/c^2$ indicates that three-pion resonance can exist with $T = 1$ or $T = 2$ (T -- isotopic spin). "The authors are grateful to V. A. Shebanov, Yu. S. Krestnikov, and V. V. Barmin for supplying the material, to Yu. V. Trebukhovskiy for participating in the work during its earlier stage and for useful discussion, Ye. M. Lapidus, V. M. Polyakova, and V. N. Lyakhovitskiy for guidance of the mathematical reduction of the measurement data, to the accelerator crew, and to the computer crew for collaboration. Orig. art. has: 4 figures and 8 formulas.

Card 2/5

ACCESSION NR: AP4043608

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

SUBMITTED: 29Jan64

ENCL: 02

SUB CODE: NP

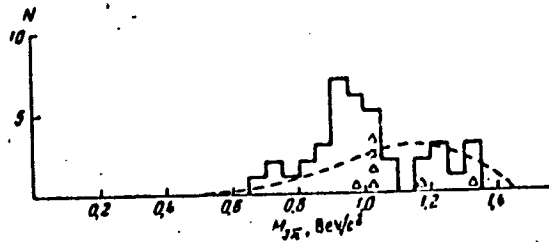
NR REF SOV: 001

OTHER: 002

Card 3/5

ACCESSION NR: AP4043608

ENCLOSURE: 01

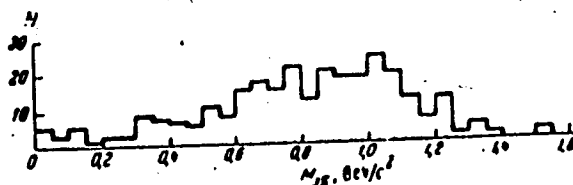


Distribution of events relative to the three-pion mass for the interval between 2.75 and 2.90 BeV. The triangles denote events satisfying the hypothesis $\pi^- + p \rightarrow \Delta^0 + p^0 \rightarrow p + \pi^- + \pi^+ + \pi^-$

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ACCESSION NR: AP4043608

ENCLOSURE: 02



Three-pion mass distribution for total energy
larger than 2.90 BeV

Card 5/5

GRIGOR'YEV, V.

USSR/Radio - Clubs

Jul 51

"It Is Time to Regain a Lost Reputation,"
V. Grigor'yev

"Radio" No 7, p 59

Before the war, Rostov had one of the best radio clubs in USSR. After the war, amateurs reorganized club, equipped a laboratory, elected a council, and did good work. However, dictatorial policies of Dir Talsain, who took over at the end of 1947, ruined the work of the club.

195T83

1. GREGOR'YEV, V.
2. USSR (600)
4. Telecommunication
7. Model communication system for communism's great construction projects, Sov. sviaz., No. 10, 1951.

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

GRIGOR'YEV, V.

The annual plan for the establishment of radio facilities in the village has been fulfilled ahead of schedule. Sov.sviyaz.2 no.12:6
D '52. (MLRA 7:8)

1. Nachal'nik Rostovskoy oblastnoy direktzii radiotranslyatsion-
noy seti.
(Radio)

GRIGORYEV, V.

USSR/Electronics - Radio centers

Card : 1/1 Pub. 89 - 3/24

Authors : Grigoryev, V., Head of the Regional Radio-Relay Network Department

Title : Radiofication of Rostov Region

Periodical : Radio 6, 5 - 6, June 1954

Abstract : Information is given on the number of radio centers operating in the Rostov region, particularly in the rural districts, on the newly installed radio-outlet points, and on the mileage of underground and overhead lines. An outline of a future program for new radio installations and for training of qualified personnel is presented.

Institution : ...

Submitted : ...

GRIGOR'YEV, Y. (Rostovskaya obl.); LESNICHENKO, P. (L'vovskaya obl.);
~~YAKUBEN'~~, M. (Moskovskaya obl.); KITOV, P. (Khar'kovskaya obl.);
KORNEV, V. (Mytishchinskiy radiousel); BRATANOVSKIY, B. (Pavlo-
vo-Posadskiy radiousel).

Our complaints against the radio industry. Radio no.9:9 S '54.
(MLRA 7:9)

1. Nachal'niki DRTS (for Grigor'yev, Lesnichenko, Yakuben', Kutov)
2. Nachal'niki radiouselov Voskovskoy oblasti (for Kornev & Bratanovskiy)
(Radio industry)

GRIGOR'YEV, V.

Military radio operators in training. Radio no. 8:10 Ag '56. (MLRA 9:10)
(Radio operators) (Radio, Military)

GRIGOR'YEV, V.Kh.

Dissemination of progressive practices in radio installation work
and in district communications. Vest.sviazi 16 no.3:21-22 Mr '56.
(MIRA 9:7)

1.Nachal'nik Rostovskoy direksii radiostraslyatsionnoy seti.
(Rostov-on-Don--Radio--Congresses)

COUNTRY : USSR
CATEGORY : Soil Science. Tillage. Improvement. Erosion. J
ABS. JOUR. : Ezhsel., No. 3 1959, No. 10724
AUTHOR : Grigor'yev, V. L.
INST. :
TITLE : Effectiveness of Mole Drains on Excessively Wet
Soils of Prikerpat'ye.
ORIG. PUB. : Byu. nauk. inform. po zemlerobstvu, 1958, No. 3. 19-21
ABSTRACT : No abstract.

CARD: 1/1

SHUL'ZHENKO, Mikhail Nikitich; MOSTOVOY, Anatoliy Solomonovich;
GRIGOR'YEV, V.I., inzhener, retsenzent; BURAKOVA, O.N., redaktor;
LOSEVA, G.F., redaktor izdatel'stva; GLADKIKH, N.H., tekhnicheskiy
redaktor

[A course in the construction of airplanes] Kurs konstruktsii
samoletov. Moskva, Gos. izd-vo obor.promyshl., 1956. 528 p.
(MLBA 9:8)

(Airplanes--Design and construction)

GRIGOR'YEV, V.L., gornyy inzh.

Systems of mining and mine timbering in mines of the "Slantsy"
Combine. Ugol' 39 no.7:21-22 J1 '64. (MIRA 17:10)

1. Institut gornogo dela im. A.A. Skochinskogo.

PANOV, Andrey Dmitriyevich, kand. tekhn. nauk,; TISHCHENKO, Nikolay Andreyevich,; ZAMYATIN, Ivan Stepanovich,; SHAVRINA, Raisa Fedorovna,; PAVLYUCHENKO, Dmitriy Nikolayevich,; GRIGOR'YEV, Vladimir Leonidovich,; pri uchastii: Adamidze, D.I.; Kraanikova, Yu. D.; Cherkasheninova, V.I.; Chukayevoy, Ye. V. ; SOSNOV, V.D., otv. red.; RATNIKOVA, A.P., red. izd-va,; PROZOROVSKAYA, V.L., tekhn. red.

[Narrow-gauge mining of coal in thin and medium seams] Uzkosakhvatnaya vyenka uglia na plastakh tonkikh i srednei moshchnosti. Moskva, Ugletekhizdat, 1958. 321 p. (MIRA 11:12)
(Coal mines and mining)

GRIGOR'YEV, V.L.
GRIGOR'YEV, V.L., insh.

Concerning the article "Increase cross sections of haulageways";
"Bezopasnost' truda v promyshlennosti" no.4, 1957. Bezop. truda
v prom. 2 no.1:27-28 Ja '58. (MIRA 11:1)

1.Vsesoyuznyy nauchno-issledovatel'skiy ugol'nyy institut.
(Mining engineering)

AUTHOR: Grigor'yev, V.L., Engineer SOV-118-58-9-15/19

TITLE: Experience With German Coal Cutting Machines (Opyt raboty nemetskikh ugol'nykh strugov)

PERIODICAL: Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958, Nr 9, pp 42-43 (USSR)

ABSTRACT: The article deals with West German coal cutting machines (Westfallen - Luenen), which were tested in the US and recently introduced in the Soviet coal mining industry. There is 1 diagram.

1. Coal industry--USSR
2. Cutting tools--Applications
3. Coal--Processing

Card 1/1

GRIGOR'YEV, V.L., gornyy inzh.

Setting longwalls without organ-pipe supports. Uspol' 31 no. 7:12-
16 J1 '58. (MIRA 11:7)

(Mine timbering)

GRIGOR'YEV, V.L., inzh.

Roof supporting without battery stulls in coal-plow mining of
longwalls. Bezop.truda v prom. 3 no.5:7-8 № '59.
(MIRA 12:8)

(Coal mines and mining)

11(7)

SOV/118-59-9-18/20

AUTHOR: Grigor'yev, V.L., Engineer

TITLE: A New Cutting Aggregate

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1959,
Nr. 9, p 64 (USSR)

ABSTRACT: A short description is given of new mining equipment
shown in Essen (West Germany) for the first time in
1958. There is 1 diagram.

Card 1/1

GRIGOR'YEV, V.L., gorn.insh.

Roof caving without the use of battery stulls in the 7th western
longwall of mine no. 12-12b of the Kranochnugol' Trust. Ugol'
35 no.5:37-70 My '60. (MIRA 13:7)
(Lugansk Province—Coal mines and mining)

GRIGOR'YEV, Vladimir Leonidovich; KOZ'MINA, N., red.; SUKHAREVSKAYA, N.,
tekhn. red.

[Roof caving with the use of battery stulls] Bezorgannaiia posadka kroyli.
Lugansk, Luganskoe oblastnoe izd-vo, 1961. 37 p. (MIRA 14:7)
(Coal mines and mining)

GRIGOR'YEV, V.L.

Conveyers with continuous coal crushers. Ugol' Ukr. 5 no.2:43 P '61.
(MIRA 14:3)
(Germany, West--Coal mining machinery)

SERDYUKOV, I.A., gornyy inzhener; SHEVCHENKO, V.F., gornyy inzh.;
GRIGOR'YEV, V.L., gornyy inzh.

Results of the testing of metal girders in roof caving without
batter stulls. Ugol' Ukr. 5 no.11:17-18 N '61. (MIRA 14:11)
(Mine timbering)

GRIGOR'YEV, V. L., CAND TECH SCI, "^{Study} INVESTIGATION OF A
METHOD FOR CONTROLLING ~~COMPLETE ROOF~~ ^{roofs by means of timber} CAVING WITHOUT THE
USE OF ORGANPIPE TIMBERING ON ~~THE~~ SLOPING BEDS OF ^{the} DONETS
BASIN." LENINGRAD, 1961. (MIM OF HIGHER AND SEC SPEC ED
RSFSR, LENINGRAD ORDER OF LENIN AND ORDER OF LABOR RED
BANNER MINING INST IN G. V. PLEKHANOV). (KL, 3-61, 214).

GRIGOR'YEV, V.L., gornyy inzh.; SHEVCHENKO, V.F., gornyy inzh.;
STAKHANOV, A.I., gornyy inzh.

Application of the method of roof caving without the use of
battery stulls in the Donets Basin mines. Ugol' Ukr. 6
no.2:14-16 F '62. (MIRA 19:2)
(Donets Basin--Mine timbering)

STAKHANOV, A.I., inzh.; GRIGOR'YEV, V.L., kand.tekhn.nauk, starshiy
nauchnyy sotrudnik; SHEVCHENKO, V.F., inzh., starshiy nachnyy
sotrudnik

Longwall mining with roof caving on stope timber. Bezop.truda
v prom. 6 no.6:26-27 Je '62. (MIRA 15:11)

1. Nachal'nik Upravleniya Luganskogo okruga Komiteta po nadzoru
za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru
pri Sovete Ministrov UkrSSR (for Stakhanov). 2. Institut gornogo
dela im. A.A.Skochinskogo (for Grigor'yev). 3. UkrNIIGidrougol'
(for Shevchenko).

(Donets Basin--Coal mines and mining)

GRIGOR'YEV, V.L., kand.tekhn.nauk

Readers' response to I.A. Grigor'ev and I.A. Tkachenko's article
"Roof caving without the use of battery stulls." Ugol' 37 no.5:
52-53 My '62. (MIRA 15:6)

(Mine timbering)

(Grigor'ev, I.A.)

(Tkachenko, I.A.)

GRIGOR'YEV, V.L., kand. tekhn. nauk; ZHUKOV, V.Ye., kand. tekhn. nauk

Conference on the problems of mining coal deposits at
great depths. Ugol' 39 no.3:74-75 My'64. (MIRA 17:5)

GRIGOR'YEV, V.L., kand. tekhn. nauk

Examination of the basic principles of the overall plan for
expanding the Kuznetsk coal basin. Ugol' 39 no.6:70-71 ~~1971~~
(MIRA 17:7)

1. Sekretar' seksii podzemnoy razrabotki uglya i slantsa
nauchno-tekhnicheskogo soveta Gosudarstvennogo komiteta
po teplivnoy promyshlennosti pri Gosplane SSSR.

CHERNOMIR, V. M., kand. tekhn. nauk, PALLIUMSKIY, V. I., goruy inzh.

Working deep levels in Donets basin coal mines. Ugol. # 40 no. 2;
65-67 P. 165. (MIRA 13:4)

1. TSentral'nyy nauchno-tekhnicheskiy sovet na probleme glubokikh
shakht.

GRIGOR'YEV, V.I., *Engel. Tekhn. Nauk*; GUMEN', K.K., *Engel. Tekhn. Nauk*

Information report on the conference of the Central Scientific
Technological Council for designates. *Usp' 10 no. 6. 1965.*
(MIRA 18:6)

ZABOLOTNAYA, N.P.; NOVIKOVA, M.I.; SHATSKAYA, V.T.; GINZBURG, A.I.,
glavnyy red.; POLYAKOV, M.V., sam. glavnogo red.; APEL'TSIN,
F.R., red.; GRIGOR'YEV, V.M., red.; RODIONOV G.G., red.;
TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.; KHRUSHCHOV, N.A.,
red.; CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red.;
SHCHERBINA, V.V., red.; KYGELES, M.A., red.; KOLOSHINA, T.V.,
red. isd-va; BYKOVA, V.V., tekhn. red.

[Tungsten-molybdenum-tin-beryllium deposits and their formation].
Vol'fram-molibden-olovo-berillievye mestorozhdenia i uslovia
ikh obrazovaniia. Moskva, Gosgeol'tekhnizdat, 1962. 94 p. (Geo-
logiia mestorozhdenii redkikh elementov, no.18).

(MIRA 16:4)

(Metals, Rare and minor)

MONDZHI, G.S.; GRIGOR'YEV, V.M.; CHURBAKOV, V.F.

Conditions governing the accumulation and characteristics of the
distribution of germanium in iron ores. Min.syr'e no.7:28-33 '63.
(MIRA 16:9)

(Germanium) (Iron ores)

GRIGOR'YEV, V.M., kand.tekhn.nauk; BOGOLYUBOV, K.S., inzh.

Use of rotary vacuum pumps with a liquid plunger for the evacuation of water-air mixtures. Khim.mashinostr. no.3:39 My-Je '63. (MIRA 16:11)

AID P - 4850

Subject : USSR/Engineering
Card 1/1 Pub. 103 - 10/26
Author : Grigor'yev, V. M.
Title : Control device for measuring the thickness of a coating
Periodical : Stan. i instr., 2, 28, F 1956
Abstract : The principle and design of the instrument to measure the thickness of non-magnetic coatings, such as lacquer, placed on material which has a magnetic base, is briefly outlined. This device equipped with a micro-ammeter, could be used on flat or curved surfaces. One photo.
Institution : Bureau of Interchangeability of the Ministry of Machine Tools and Apparatus Industry.
Submitted : No date

SOV/122-59-6-24/27

AUTHOR: Grigor'yev, V.M., Engineer

TITLE: Pneumatic Pulley Block Hoists

PERIODICAL: Vestnik mashinostroyeniya, 1959, Nr 6, pp 85-87 (USSR)

ABSTRACT: Pneumatic hoists of new design, series-produced by the Rizhskiy turbomakhanicheskiy zavod (Riga Turbo-mechanical Works) are described. Two carrying capacities of 200 or 400 kg, different numbers of pulleys in the blocks and different hoisting line attachments, make up 10 different models. Two opposed air cylinders, contained in the hoist, have pistons whose rods are attached to pulley blocks, so that the blocks move relative to each other horizontally inside the hoist. The lifting cable emerges over a guide pulley attached centrally to the hoist structure. The fixed end of the cable is also attached to the structure. The piston stroke, multiplied by 2 (to allow for the two opposed cylinders) and multiplied by the number of pulley pairs, yields the total lifting height. The air inlet to the cylinders is controlled by a valve on a suspended control grip. The air exit is damped by restriction orifices to avoid an excessive rate of load dropping. Pneumatic piston

Card1/2