S/056/62/043/005/017/058 B102/B104

AUTHORS:

Kumekin, Yu. P., Meshcheryakov, M. G., Nurushev, S. B.,

Stoletov, G. D.

TITLE:

Triple scattering of 660-Mev protons. III. Angular

dependence of parameter R

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 43,

no. 5(11), 1962, 1665-1671

TEXT: Further experiments on triple scattering of protons were made within the scope of the program of reconstructing the pp-scattering matrix for $E_p = 660$ MeV (cf. I: ZhETF, 35, 1398, 1958; II: ZhETF, 38, 1451, 1960). The change in primary-beam polarization \overrightarrow{P}_1 was measured which depends on the polarization tensors \mathbf{D}_{ip} and \mathbf{K}_{iq} of the scattered and recoil protons, respectively:

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CIA-RDP86-00513R001033 **APPROVED FOR RELEASE: Wednesday, June 21, 2000**

Triple scattering of 660-Mev protons ...

 $P_{2p} = \frac{P_{2p}^{(0)} + D_{ip}P_{1l}}{1 + P_{2}^{(0)}P_{1}}, \quad P_{2q} = \frac{P_{2q}^{(0)} + K_{lq}P_{1l}}{1 + P_{2}^{(0)}P_{1}} \cdot \qquad |D_{ip}| = \frac{n}{K} \begin{vmatrix} D_{nn} & 0 & 0 \\ 0 & X & Z \\ 0 & -Z & Y \end{vmatrix}.$

 $P_{2}s_{2} = RP_{1} [n_{2}k_{2}] + AP_{1}k_{2},$ $P_{2}k_{2} = RP_{1} [n_{2}k_{2}] + AP_{1}k_{2},$ $R = Z \sin(\theta/2) + Y \cos(\theta/2), A = Z \cos(\theta/2) - Y \sin(\theta/2),$ $R' = -Z \cos(\theta/2) + X \sin(\theta/2), A' = Z \sin(\theta/2) + X \cos(\theta/2).$

The subscripts p and q refer to the measured polarization components of scattered and recoil protons, P(0) is the polarization arising when an unpolarized beam is scattered, the subscript i refers to the initial polarization of the incident beam. The geometry of the experiment may be seen from Fig. 1. The parameter R is related to the asymmetries by $R = \frac{1}{3} s/(c_3 \sin g_2)$ where $\frac{1}{3} = \frac{1}{3} P_1 P_3 \sin g_2 = \frac{1}{3} \frac{1}{3} \frac{1}{3} e^{-\frac{1}{3}} \frac{1}{3} e^{-\frac{1}{3}} \frac{1}{3} e^{-\frac{1}{3}} e^{-\frac{1}{3}} \frac{1}{3} e^{-\frac{1}{3}} e$

for $\frac{1}{12}=90^{\circ}$ (which is the case in Fig. 1) these relations are simplest. The experiments were made with protons of 640+12 MeV and with Card $\frac{2}{6}$

S/056/62/043/005/017/058

Triple scattering of 660-Mev protons ... B102/B104

 $P_1=0.58\pm0.03$ from the six-meter synchrocyclotron of the OIYaI. The experimental arrangement of monitor; targets and counter telescopes was such as to satisfy the geometrical demands. The results were used for a phase-shift analysis and for determining the moduli of the scattering matrix M_{pp} . For $\theta=90^{\circ}$ and $E_p^{\approx}640$ MeV:

 $|M_{ss}| = (0.24 \pm 0.11) \cdot 10^{-13} \text{ cm},$ $|M_{01}| = (0.51 \pm 0.05) \cdot 10^{-13} \text{ cm}, |M_{10}| = (0.40 \pm 0.06) \cdot 10^{-13} \text{ cm}$ (13)

 $\cos f_{01,10} = -0.96\pm024$ and $\cos f_{01,88} = 0.84\pm0.42$. There are 5 figures and 1 table.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint

Institute of Nuclear Research)

SUBMITTED: June 30, 1962

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s/056/62/043/005/017/058

Triple scattering of 660-Mev protons ... B102/B104

Fig. 4. Energy dependence of the moduli of the elements of $M_{pp}(90^{\circ})$ Fig. 5. Energy dependence of the phase angles of the elements of $M_{pp}(90^{\circ})$ assuming $|M_{01}(640 \text{ MeV}, 90^{\circ})| = 180^{\circ}$.

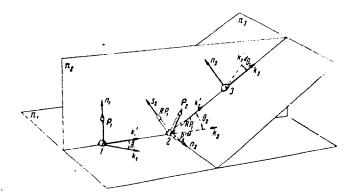
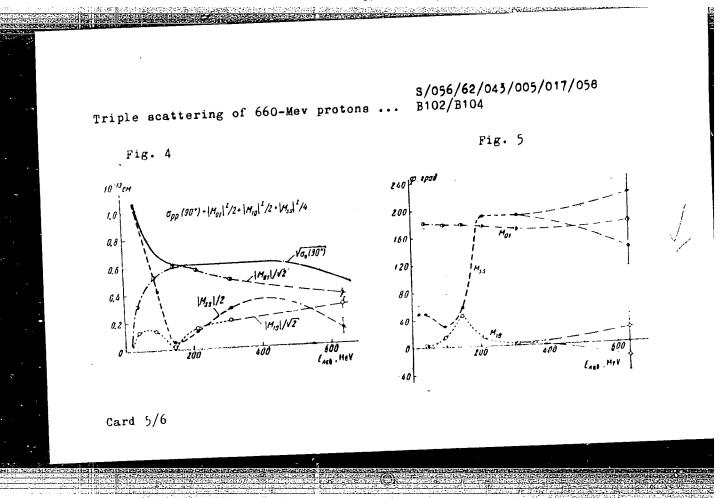


Fig. 1

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в. гра	ε35± Δε35.	ε ₁ <u>+</u> Δε ₁ .	$R + \Delta R$	D ± AD
54 72 90 108 126	6,8+1,0 5,5±1,4	13,8±0,7 21,1±1,3	0,45±0,08 0,49±0,08 0,26±0,07 0,32±0,06 0,49±0,13	0,93±0,17 0,28±0,16

Table

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5/056/62/043/006/039/067 B125/B102

Azhgirey, L. S., Kumekin, Yu. P., Meshcheryakov, M. G., AUTHORS:

Nurushev, S. B., Stoletov, G. D.

The nucleon-nucleon scattering amplitudes and the complexity TITLE:

of the spin-orbit potential of interaction between nucleons

and nuclei

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 43, PERIODICAL:

no. 6(12), 1962, 2194 -2198

TEXT: Information as to the nucleon-nucleon scattering at high energies can be obtained from experimental data on the scattering of nucleons by nuclei. The differential elastic cross sections of protons scattered by: carbon nuclei through small angles and the polarization of these protons were determined by L. S. Azhgirey et al. (ZhETF, 44, 1, 1963) at E = 660 Mev. The real and imaginary parts of the Born amplitudes were obtained from these cross sections G(0) and H(0), and the relations

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APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

S/056/62/043/006/039/067 B125/B102

The nucleon-nucleon...

$$G(1) = N'(k/k_0) \left[\frac{3}{4} A_1(q) + \frac{1}{4} A_0(q) \right],$$

$$H(q) = -iN(k/k_0)^2 \left[\frac{3}{4} C_1(q) + \frac{1}{4} C_0(q) \right],$$
and the

between the amplitudes of nucleon-nucleus scattering and the NN-scattering

Detween the amplitudes of nucleon-nucleus scattering and to amplitudes following from the superposition model lead to

Titudes of the superpost wing from the superpost
$$\bar{A}^R$$
 (0) = $^3/_4A_1^R$ (0) + $^1/_4A_0^R$ (0) = -0.36 ± 0.03 .

 \bar{A}^R (0) = $^3/_4A_1^R$ (0) + $^1/_4A_0^R$ (0) = 0.72 ± 0.04 .

 \bar{A}^I (0) = $^3/_4A_1^I$ (0) + $^1/_4A_0^R$ (0) = -0.33 ± 0.28 .

 \bar{C}^R (0) = $^3/_4C_1^R$ (0) + $^1/_4C_0^R$ (0) = 0.77 ± 0.20 .

 \bar{C}^I (0) = $^3/_4C_1^R$ (0) + $^1/_4C_0^R$ (0) = 0.77 ± 0.20 .

The samplitudes A and C , the samplifudes A and C , the samplifudes A .

for the real and imaginary parts of the amplitudes A and C, averaged over the jactonic states of the momentum transferred. The subscripts 1 and for the real and imaginary parts of the amplitudes A and C, averaged over the isotopic states. Q is the momentum transferred. The subscripts 1 and the isotopic states with T = 1 and T = 0 of the zero refer respectively to the isotopic states with T = 1 and T = 0. two-nucleon system considered. The negative sign of the real part A (0)

Card 2/4

The nucleon-nucleon...

S/056/62/043/006/039/067 B125/B102

of the zero-spin amplitude is due to the effect of the repulsive hard core in nucleon-nucleon interaction. In first Born approximation the spin amplitude $\overline{C}(0)$ corresponds with the spin-orbit potential of nucleon-nucleus interaction, as is shown by comparing experimentally obtained data on NN-scattering with the phase shift analysis. Between 40 and 660 MeV the energy dependence is described satisfactorily by

$$\bar{A}'(0) = (7.20 \pm 0.20) / E_{\text{u. w.}} + (4.68 \pm 0.26) \cdot 10^{-3} E_{\text{u. w.}},
\bar{A}^{R}(0) = (0.673 \pm 0.03) - (6.88 \pm 0.35) \cdot 10^{-3} E_{\text{u. w.}},
\bar{C}'(0) = (0.188 \pm 0.038) + (3.86 \pm 0.70) \cdot 10^{-3} E_{\text{u. w.}},
\bar{C}^{R}(0) = (2.45 \pm 0.42) \cdot 10^{-3} E_{\text{u. w.}} - (1.97 \pm 0.84) \cdot 10^{-6} E_{\text{u. w.}}^{3}.$$
(5)

The energy $E_{(I_0,M_0)}$ in the c.m.s. is given in Mev and the amplitudes in 10^{-13} cm. The amplitude \overline{A}^I describes mainly the energy dependence of the total cross sections $\overline{\sigma}$ of nucleon-nucleon interaction (averaged over the isotopic spin). The energy dependence of $\overline{A}^R(0)$ leads to the relation $\sigma(0) = (k\sigma_t/4\pi)^2$ for the nucleon-nucleus scattering cross section through Card 3/4

The nucleon-nucleon...

\$/056/62/043/006/~~0/067 B125/B102

the angle 0°. It also implies the existence of a pure shadow scattering at ~ 400 MeV in the lab system. $\overline{C^I}(0)$ is positive throughout the energy range investigated. Hence up to 660 Mev the real part of the spin-orbit potential V of nucleon-nucleus interaction has the same sign as in the shell model. The parameters of the optical potentials, determined from the nucleon-nucleon scattering, are tabulated. The data obtained on nucleonnucleon scattering indicate that the real part of v_{SR} diminishes with increasing energy. According to nucleon-nucleon experiments the imaginary part of V_{SR} is likely to be non-zero. There are 1 figure and 1 table.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: June 30, 1962

Table

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E, MeV	CR. MeV	VCI. MeV	VSR. MeV	V _{S1} , MeV
40 90 147 210 310 660 -	52±4 33±4 17±7	57±3 46±3 46±3 43±3	3,8±0,4 3,1±0,2	-0.85 ± 0.56 -0.65 ± 0.09 -0.58 ± 0.07

80384

s/020/62/145/006/006/015 B181/B102

21 2300

Azhgirey, L. S., Kumekin, Yu. P., Meshcheryakov, M. G., AUTHORS:

Corresponding Member AS USSR, Nurushev, S. B., Stoletov, G. D.,

and Huang Tieh-ch'iang

Excitation of C¹² nuclei by 660-Mev protons TITLE:

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 145, no. 6, 1962, 1249-1252

TEXT: A graphite rod, 1 cm thick, was bombarded by protons having energies of 660 \pm 3.0 MeV and a flux density of about $3 \cdot 10^9$ p/cm² sec. The protons scattered through 4.2, 5.2, 7.0, 9.1 and 10.70 were deflected magnetically and then conducted through two quadrupole lenses and a collimator into an ionization chamber with three scintillation counters.

The inelastic diffusion scattering cross section for 7° is 130·10⁻²⁷cm²/sterad. The maximum energy distribution of the inelastically coattered protons is connected with the energy from the giant photoresonance of the c12 nuclei, but is much wider. Interaction between the incident proton and

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APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

Excitation of C¹² nuclei...

S/020/62/145/006/006/015 B181/B102

the bound nucleons may cause stable collective excitations of the nucleus, i.e. spin, isospin, and spin-isospin waves (ZhETF, 43, no. 8, 1962). Giant photoresonance excitation and excitation of the nucleus by spin waves of the giant resonance energy may set in simultaneously. This is probably what causes the widening of the curve. There are 3 figures.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: May 11, 1962

Card 2/8 2

S/089/63/014/001/004/013 B102/B186

AUTHORS:

Meshcheryakov, M. G., Kumenkin, Yu. P., Nurushev, S. B.,

Stoletov, G. D.

TITLE:

The longitudinally polarized proton beam of the six-meter

synchrocyclotron

PERIODICAL:

Atomnaya energiya, v. 14, no. 1, 1965, 38-40

TEXT: The program for a full investigation of the pp scattering at the Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research) included also experiments with longitudinally polarized proton beams. The experimental arrangement was suggested by S. B. Nurushev (Preprint OIYaI P-278, 1959) and is described here in detail. On account of the proton spin precession the longitudinally

polarized component is obtained at the angle $\lambda = \frac{\mu_{D}}{\sqrt{1-\beta^2}} \psi$. The precession

is due to the anomalous magnetic moment of the proton. The longitudinal component of the polarization resulting from this is $P_{long} = P_{long} + P_{long}$ where

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The longitudinally polarized ...

\$/089/63/014/001/004/013 B102/B186

 \mathbf{P}_1 is the polarization of protons elastically scattered from carbon nuclei, $\mu_{\mbox{\footnotesize p}}$ is the proton magnetic moment in terms of nuclear magnetons, β is the proton velocity in c-units, and ν is the angle of deflection of the proton beam in the magnetic field. For $\hat{\chi}=90^{\circ}$ only the longitudinal component exists. By a suitable choice of q, ($\frac{1}{2} = 30^{\circ}$ for proton primary energy of 660 MeV) it is possible to have the whole beam longitudinally polarized. A flux of $2:10^6$ p/cm sec could be attained for an energy $\log = 612\pm 9$ Mev. The angle of precession under these conditions is $\chi = 89\pm 2.5^\circ$. The value $P_1 = 0.43\pm 0.03$ agrees well with the data published in Zh. eksperim. i teor.fiz.,44,no.1,1963. There is 1 figure.

SUBMITTED:

October 16, 1962

Card 2/2

L5369

s/056/63/044/001/034/067 B188/B180

24,6600

Azhgirey, L. S., Kumekin, Yu. P., Meshoheryakov, M. G., AUTHORS:

Nurushev, S. B., Stoletov, G. D., Khuan De-teyan

Elastic small angle scattering of 660 Mev-protons by carbon TITLE:

nuclei

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 44,

no. 1, 1963, 177- 191

TEXT: The differential elastic scattering cross section of 660 Mev protons by carbon nuclei was measured in the range (1.80 \pm 9 \pm 90) where nuclear and Coulomb scattering interfere. The polarization of the scattered protons was also measured, and the results were used to calculate the scattering amplitudes and the corresponding nuclear potentials of the optical model. Determination of the energy spectra of the scattered protons shows that inelastic competes with elastic scattering at small angles also. Reliable results on elastic scattering cross sections at high proton energies can only be obtained if inelastically scattered protons are carefully separated. Here this is done by deflection in a magnetic field. Fig. 4 gives the differential cross section Card 1/4

CIA-RDP86-00513R001033 APPROVED FOR RELEASE: Wednesday, June 21, 2000

s/056/63/044/001/034/067 B188/B180

measured for elastic scattering, and Fig. 5 the polarization of scattered Elastic small angle scattering ... protons as a function of the scattering angle. Hence, the components of scattering amplitudes obtained by the method of least squares are (in

scattering amplitudes of the scattering amplitudes
$$(0) = -5.05 \pm 0.45$$

 $(0) = -10.4 \pm 13.3$

$$g_{NI}(0) = 37.6 \pm 9.3$$

 $h_{NI}(0) = 37.6 \pm 9.3$

The corresponding radii of the central and spin-orbital potentials are

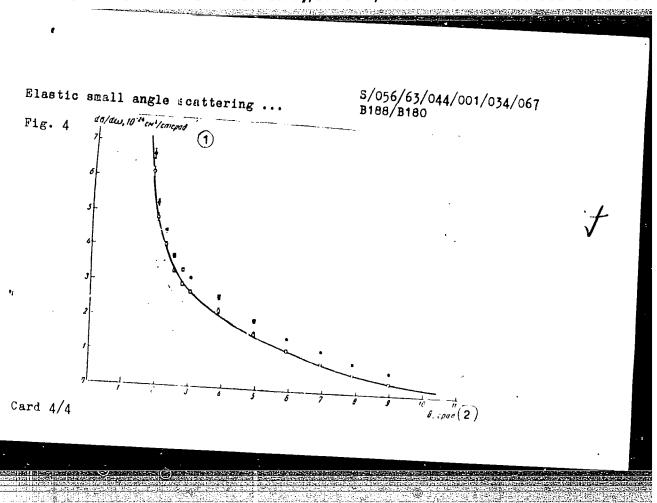
They are much larger than when determined from electron scattering. The values of the integrated potentials of the optical model according to the

Born approximation are: $((-127 \pm 12) + i(257 \pm 14)) \cdot 10^{-39}$ MeV·cm³, spin-orbital potential W = $((14.8 \pm 3.9) + i(6.3 \pm 5.4)) \cdot 10^{-65}$ MeV·cM⁶.

There are 5 figures and 1 table.

Card 2/4

\$/056/63/044/001/034/0697 Elastic small angle scattering ... B188/B180 ASSOCIATION: Ob'yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research) SUBMITTED: June 30, 1962 Fig. 4: Differential scattering cross section for 660 Mev protons by carbon. 0 - secondary protons with more than 60 Mev; 0 elastically scattered protons. Solid curve: calculated values. Legend: (1) $d\sigma/d\omega$, 10^{-24} cm²/sterad, (2) 0, degrees. Fig. 5: Polarization of protons Fig. 5 (primary energy 660 Mev) after 0,6 elastic scattering by carbon nuclei. The P value at 6.30 was Q5 taken from ZhETF, 35, 89, 1958; 4 bold, solid curve: calculated values with optimum adaptation; 43 hatched area: range of error. Legend: (1) 9, degrees. á2 91 Card 3/4



APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033

KUMEKIN, Yu.P.; MESHCHERYAKOV, M.G.; NURUSHEV, S.B.; STOLETOV, G.D.

Triple scattering of 660 Mev. protons. Part 4: Angular dependence of the A parameter. Zhur. eksper. i teor. fiz. 46 no.1:50-58 Ja*64. (MIRA 17:2)

1. Ob"yedinennyy institut yadernykh issledovaniy.

ACCESSION NR: AP4025940

\$/0056/64/046/003/1074/1078

AUTHOR: Azhgirey, L. S.; Klepikov, N. P.; Kumekin, Yu. P.; Meshcheryakov, M. G.; Nurushev, S. B.; Stoletov, G. D.

TITLE: Purther refinement of pp scattering phase shifts at 657 MeV

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 46, no. 3, 1964, 1074-1078

TOPIC TACS: pp scattering, scattering phase shift, triple scattering parameter, mixing parameter, absorption parameter, phase shift real part, unique phase shift set, statistical reliability

ABSTRACT: In view of additional information recently obtained by various investigators, the results of a phase shift analysis of pp scattering at 657 MeV are refined by taking into account new data on the angular dependence of the triple-scattering parameter A. These experimental data are found to be represented with statistical reliability by a set of the real rarts of the phase shifts, the mixing parameters, and the averaged absorption parameters. Arguments are presented which indicate that the obtained phase shift set is unique, particularly in view

Card 1/3

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033

of the smooth transition between the solution and the corresponding curves for energies below 345 MeV. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 30Aug63

ACCESSION NR: AP4025940

DATE ACQ: 16Apr64

ENCL: 01

SUB CODE: PH

NR REF SOV: 006

OTHER: 003

Card 2/3

26682-66 EWT(m)/T ACC NR: AP6016898 SOURCE CODE: UR/0367/65/002/005/08	92/0896
AUTHOR: Azhgirey, L. SAzgirey, L. S.; Kumekin, Yu. PKumekin, Ju. P.; MOShcheryakov, M. GMescheryakov, M. G.; Stoletov, G. D.; Nurushay, S. G.;	21 B
Colov'yanov. V. LSolovyanov, V. L. ORG: Joint Institute for Nuclear Research (Ob"yedinennyy institut yedernykh i	seledo-
PITIE: Measurement of polarization in pp-scattering with 667 mev	
SOURCE: Yadernaya fizika, v. 2, no. 5, 1965, 892-896'7	
TOPIC TAGS: proton scattering, proton polarization	. • *
ABSTRACT: The polarization in pp-scattering in the interval $4.40 \le 0 \le 48.2^{\circ}$ is found from an experiment on double scattering of protons by protons; for large angles, by means of renormalization of the measurements with 635 mev. An increase in polarization in pp-scattering appeared with an increase in energy from 602 to 656 mev. Analysis of the angular dependence of the polarization showed that with 667 mev a significant contribution to the polarization is made by the triplet states with angular momentum up to and including $L=5$. The set of phase shifts is described by the values of polarization obtained with other experimental data in the vicinity of 660 mev. Orig. art. has: 2 figures and 1 tables.	
SUB CODE: 20 / SUBM DATE: 02Jul65 / ORIG REF: 004 / OTH REF: 005 SOV REF: 004	

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033

ZVONOV, H.V.; ALEKSENKO, Yu.N.; STROGONOV, V.A.; MESHCHERYAKOV, M.S.; BUYNITSKAYA, V.I.; YAROSLAVTSEV, S.Ye.

[Critical tests of an organic moderator - monoizopropylbiphenyl] Kriticheskie opyty s organicheskim zamedlitelem-monoizopropildifenilom. Foskva, In-t atomnoi energii AN SSSR, 1960. 42 p. (MIRA 16:12) (Nuclear reactors--Materials) (Biphenyl)

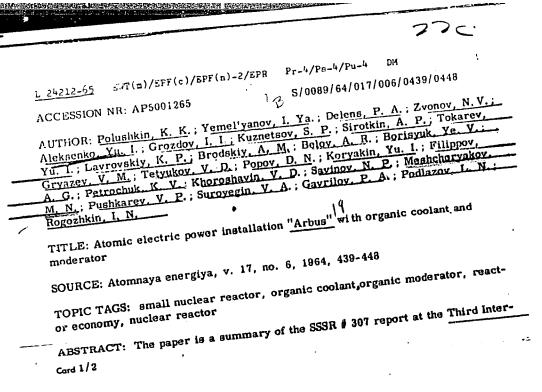
中国各种的国际政治的企业和国际企业中

EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EWO(m)/EPR/EWP(j)/T Pc-4/Pr-4/ L 1,0001-65 El'A(S)s/0000/64/000/000/0182/0193 ACCESSION NR: ATSO07908 AUTHOR: Aleksenko, Yu. H. (Candidate of technical sciences); Buynitskaya, Vele; Zaslavskiy, Vele; Zvonov, Neve; Kozlov, Vele; Kozhcheryakov, H. Ne; Rogozhkin, Leve; Stolpnik, Vele; Strogonov, Vele; Yaroslavtsev, B. Te. TITLE: Critical tests with the organic moderators, monoisopropylbiphenyl and SOURCE: Moscow. Institut atomnoy energil. Issledovaniya po primeneniyu organicheskikh teplonositeley-zamedliteley v energeticheskikh reaktorakh (Research on the use of organic heat-transfer agents and moderators in power reactors). Moscow, Atomizdat, 1964, 182-193 TOPIC TAGS: organic reactor coolant, power reactor, nuclear power plant, thermal reactor, heat transfer agent, organic moderator, isopropylbiphenyl, gas oil, ABSTRACT: The article presents the results of critical tests on the organic moderabstract: and stracts presents the description of anexperimental organic reactors, and some results of measurements carried out on this reactor. Graphs are incor, and some results or measurements carried out on this reactor. eraphs are the cluded showing the distribution of thermal neutrons for different values of lattice spacing, the calculated dependence of the effective addition for gas oil and mono-

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

I 10001-65 ACCESSION EX: AT5007908 isoptopylbiphenyl, the dependence of the critical number of channels for monoiso- propylbiphenyl on the lactice spacing and for gas old un both the temperature and propylbiphenyl on the lactice spacing and for gas old un both the temperature and propylbiphenyl and the lactice spacing and for gas old un both the temperature and lactice spacing, as well as the calculated values of the gas old. The authors conclude that the physical experiments with critical assemblies the physical experiments with critical assemblies phenyl and gas old have made it possible to verify the method and system of constant used for calculating than physical characteristics of reactors with organic hear- transfer agents. Orig. art. has: 12 figures and 2 cebies. ASSOCIATION: Bone SURKITED Olaugiá ENCL: 00 SUB CODE: EP, ID Card 2/2 yell Card 2/2 yell					
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ACCESSION NR: AP5001265

national Conference on Peaceful Uses of Atomic Energy, 1964. It describes an installation of a reactor in which organic liquid serves as the coolant, and as the moderator. The low-power reactors of about 5 Mw are expected to be economical in the remote regions where the usual energy sources are not available. A regeneration system is described for the coolant which removes the products of radiolysis. Orig. art. has: 7 figures

ASSOCIATION: None

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Card 2/2

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

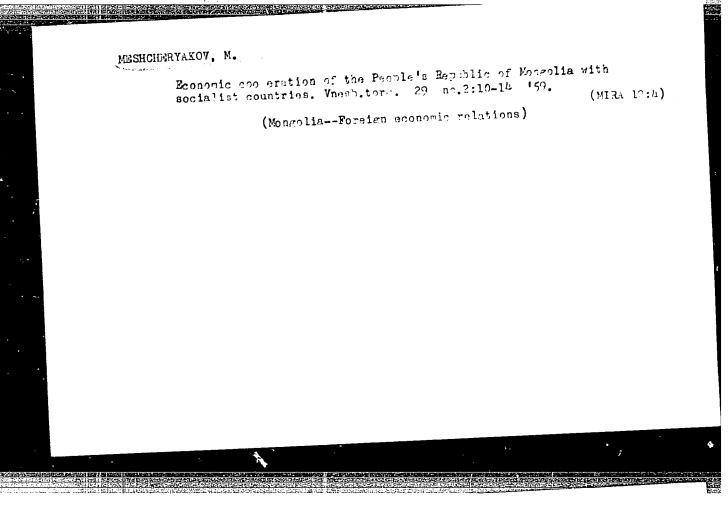
MESHCHERYAKOV, Marklen Tikhonovich

[Labor movement in Spain from 1918-1939; lectures] Rabochee dvizhenie v Ispanii v 1918-1939 godakh; lektsii prochitannye v Kazanskoi Vysshei partiinoi shkole. Moskva, 1958. 53 p. (MIRA 14:12)

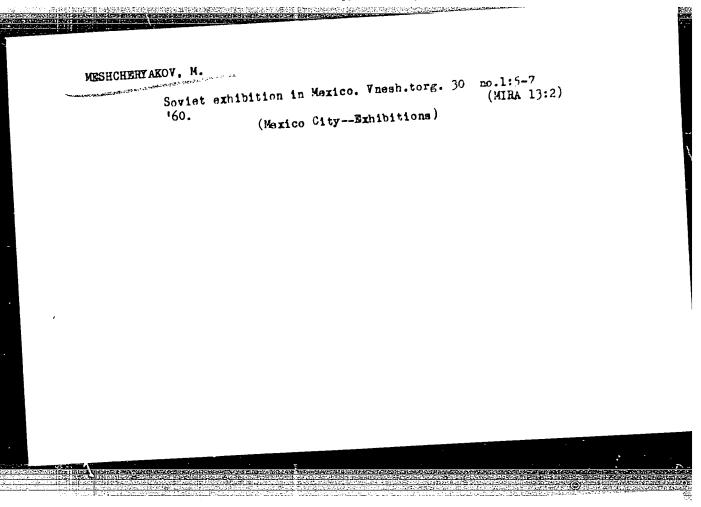
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MESHCHERAKOV, M. Expansion of trale and economic relations of the Mongolian People's Republic. Vnesh.torg. 30 no.7:26-28 160. (MIRA 13:7) (Mongolia-Foreign economic relations)

BAVRIN, Ye.P.; MESHCHERYAKOV, M.V.; SLADKOVSKIY, M.I., doktor ekon. nauk, red.; ZINCHENKO, V.S., red. izd-va; TSAGURIYA, G.M., tekhn. red.

[The Mongolian People's Republic; economy and foreign trade] Mongoliskaia Narodnaia Respublika; ekonomika i vneshniaia torgovlia. Moskva, (MIRA 14:11)

Vneshtorgizdat, 1961. 151 p.

(Mongolia—Commerce) (Mongolia—Economic conditions)

MESHCHERYAKOV, M. People's Mongolia expands its foreign economic relations [with Fenglish summary in insert]. Vnesh. torg. 41 no.7:19-24 '61. (Mongolia--Economic conditions) (Russia--Foreign economic relations--Mongolia) (Mongolia--Foreign economic relations--Russia)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033

	MESHCHERYAKOV, N. A.,	
	"Lipoma of the Bronchus," <u>Vest Khir</u> , No 2, 1955.	
, ,	Second Faculty Surgical Clinic, Military Medical Academy imeni Kirov.	
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Use of artificial hypotension in surgery [with summary in English]. Vest.khir. 79 no.11:31-40 H '57. (MIRA 11:3) 1. Iz khirurgicheskoy kliniki usovershenstvovaniya vrachey (nach.prof. P.A.Kupriyanov) Voyenno-meditsinskoy ordena Lenina akademii im. S.M. Kirova. (SURGERT, OPERATIVE hypotension, controlled, indic. (Rus) (HTPOTENSION, CONTROLLED) in surg., indic. (Rus)

MESHCHERYAKOV, N.A.; UVAROV, B.S.; SHANIN, Yu.N.

Use of ganglion-blocking agents in surgery of the major blood vessels and of the heart. Grud. khir. 1 no.4:44-50 Jl-Ag 159. (MIRA 15:3)

1. Iz khirurgicheskoy kliniki dlya usovershenstvovaniya vrachey i kafedry anesteziologii (nachal'nik - deystvitel'nyy chlen AMN SSSR prof. P.A. Kupriyanov) Voyenno-meditsinskoy ordena Lenina akademii imeni 5.M. Kirova. Adres avtorov: Leningrad,pr.Karla Marksa,d.7/8, Khirurgicheskaya klinika dlya usovershenstvovaniya vrachey Voyenno-meditsinskoy akademii imeni S.M. Kirova. vrachey Voyenno-meditsinskoy akademii imeni S.M. Kirova. (BLOOD VESSELS-SURGERY)

MESHCHERYAKOV, N. A, UVAROV, B. S., SHANIN, Yu.N., GRIGORYEV, M. S. (Prof.)
AKSENOV, B. N., and IZBINSKIY, A. P., -- Leningrad

"Anthesia for Intrathoracic Operations on the Esophagus."

Report submitted for the 27th Congress of Surgeons of the USSR, Moscow, 23-28 May 1960.

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

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MESHCHERYAKOV, N.A., podpolkovnik meditsinskoy sluzhby Use of ganglionic blocking agents for the prevention of massive hemorrhage and shock during operations. Voen,-med. zhur. no.3:56-62 Mr 160. (SURGERY, OPERATIVE) (AUTONOMIC DRUGS) (HEMORRHAGE)

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

KUPRIYANOV, P.A.; VINOGRADOV, V.M.; MESHCHERYAKOV, N.A.; UVAROV, B.S.; SHANIN, Yu.N.

Demands of contemporary anesthesiology on pharm-cology and pharmaceutical chemistry. Vest. khir. 84 no. 4:86-93 ap '60.

(ANESTHESIOLOGY) (PHARMACOLOGY)

SHANIN, Yu.N.; STASYUNAS, V.P.; UVAROV, B.S..; MESHCHERYAKOV, N.A.

Use of imbretil in anesthesia with controlled respiration. Vest.AMN SSSR 17 no.8:53-56 '62. (MIRA 15:12)

1. Kafedra anesteziologii Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.

(IMERETIL) (ANESTHESIA)

AUTHORS:

Klassen, V. I., Meshcheryakov, K. F.

SCV/20-12 4 54,74

TITLE:

Flotation of Mineral Grains Under 10 μ by Jases Evolving From Solution (Flotatsiya zeren mel'che 10 μ gazami, vyiel

yayushchimisya iz rastvora)

PERIODICAL:

Doklady Akademii nauk SSSR, 1956. Vol. 121, Nr. 4.

pp. 697 - 699 (USSR)

ABSTRACT:

The lower limit of size of mineral grains which can be effectively separated by flotation is 10 5µ. The selection in the flotation of grains with a size beyond this limit is insufficient and their extraction is inconsiderably small. That is why precious ores of many deposits are nonworkable; in several dressing plants fine muds are practically not enriched. There are a number of opinions on the cause of

this poor separation (Ref 1). These causes are due to physical factors; one of the most wide-spread factors is the low probability that the grains collide with air bubbles. The

probability that the grains collide with air bubbles. The finest grains are carried away by the water current and do not touch the bubbles long and intimately en ugh to become

attached (Refs 2-5). Already earlier the authors proved

Card 1/4

Flotation of Mineral Grains Under 10 μ by Gases Evolving SOV/20-121-4-34/54 From Solution

theoretically the necessity of the process mentioned in the title (Ref 9). In this case it is not necessary that the grains collide with the bubbles: The latter are formed on the sufficiently hydrophobic surface of the grains Kinetics as well as mechanism of the formation of bubbles have been quite thoroughly investigated (Refs 1,9). In practical investigation the so-called "vaccum process" was applied. Thus supersaturation of the gas solution was brought about in suspension by reduction of the pressure above the suspension. The possibility of using this process for grains below 10μ is denied; today the application of this process is practically abandoned (Ref 10). In the course of ex periments with grains below 10 µ the authors compared the two methods of: Vacuum and mechanical flotation. In the case of mechanical flotation air is dispersed by the mechanical effect of the medium. Figure 1 reveals a scheme for both methods. The process is described. Figures 2,3 show character istic results. When studying the effect of waterglass the authors found that the vacuum method improves flotation considerably by increasing the barite or fluorite content

Card 2/4

Flotation of Mineral Grains Under 10 μ by Gases Everyrng SOV/20 121 4 34/74 From Solution

by 15 - 20% and the extraction for 10 - 13%. In the diluted pulp the advantage of the suggested method appears in a particularly clear way. Flotation may be controlled by the degree of supersaturation of the solution with air (modification of vacuum). There are 3 figures and 9 references, 6 of which are Soviet.

PRESENTED:

April 2, 1958, by A.A Skochinskiy, Member, Academy of Sciences,

USSR

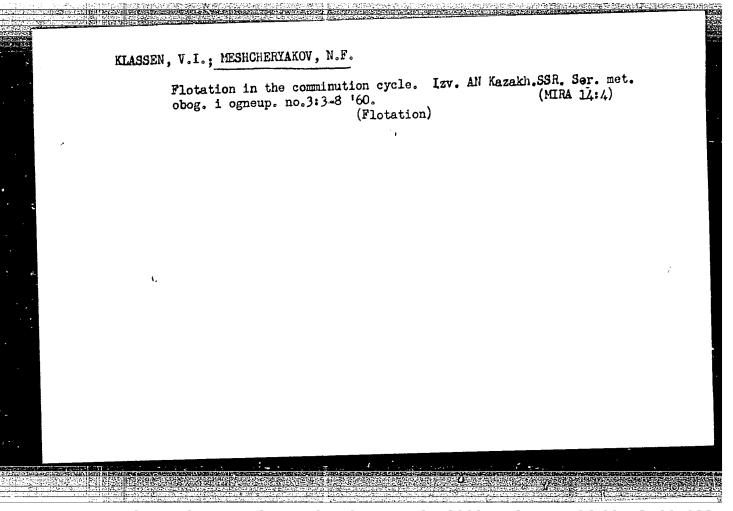
SUBMITTED:

April 2, 1958

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APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033

MESHCHERYAKOV, M. 7.: Daster Tello Re (1.88) -- The Modards of the scale with gases evolved from solution". Moseov, 1909. 2-pp (Acad to 1908, include Mining), 450 copies (KI, N. 13, 1969, 190)



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Differential flotation as a way of dressing ores. Gor. zhur. (MIRA 15:9) no.9:62-64 S '62.

1. Gosudarstvennyy nauchno-issledovatel skiy institut gornokhimicheskogo syr'ya, Moskva. (Flotation)

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Ways for improving the treatment of sulfur ores of the Gaurdak Deposits. Khim.prom. no.10:736-739 0 '62. (MIRA 15:12) (Gaurdak—Sulfur)

ARUTYUNYAN, B.Sh.; MESHCHERYAKOV, N.F.

Results of industrial testing of deep air lift flotation machines.

TSvet.met. 35 no.8:17-20 Ag '62. (MIRA 15:8)

(Flotation—Equipment and supplies)

KNAUS, O.M.; MESHCHERYAKOV, N.F.

Means of increasing the efficiency of the gravity methods of flotation in a spiral separator. Gor. zhur. no.6:76-77 Je (MIRA 16:7)

1. Gosudarstvennyy institut gornokhimicheskogo syr'ya, Moskva. (Flotation—Equipment and supplies)

ARUTYUNYAN, B.Sh.; BORISOV, V.M.; ZHEPLINSKIY, B.M.; MESROPYAN, N.N.;

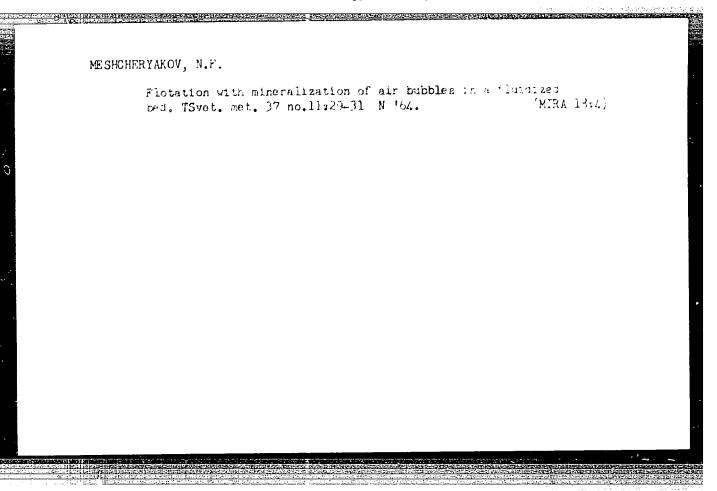
MESHCHENYAKOV, N.F.; ULIYANOV, N.S.

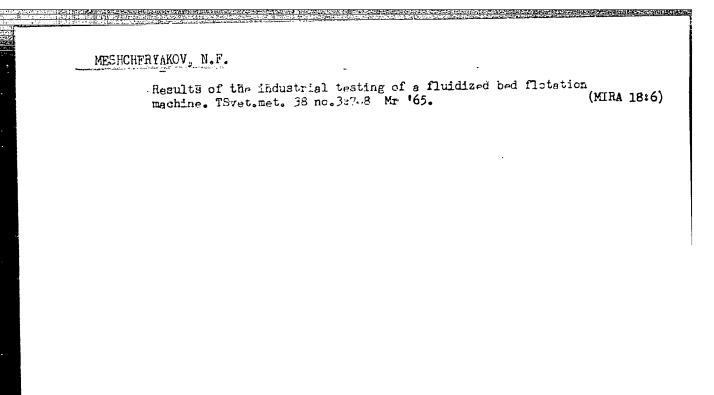
Apparatus for the destruction of flotation froth. Khim. prom.

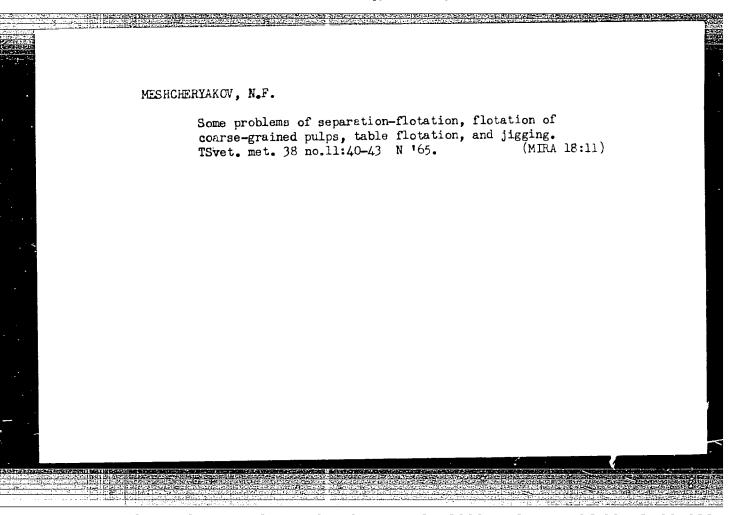
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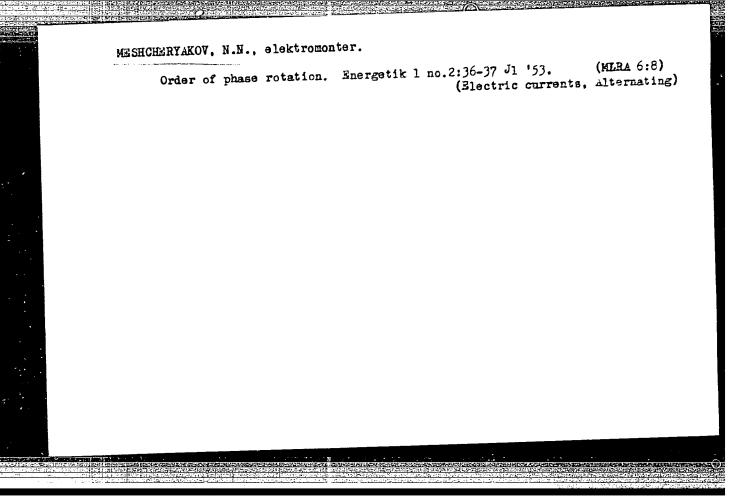


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Electric Meters

Use of seals made from waste steel, Rab, energ, 2, no. 3, 1952.

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Dissertation: "The Viscosity of Hydrocarbon Gases and Their Mixtures Under High Pressures." Cand Tech Sci, Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov, 23 Jun 54. (Vechernyaya Moskva, Moscow, 14 Jun 54)

SO: SUM 318, 23 Dec 1954

USSR/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria, Physical-Chemical Analysis, Phase Transitions.

B-8

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3831.

Author : N.V. Meshcheryakov, I.F. Golubev.

: State Scientific Research and Planning Institute of Nitrogen Inst

Industry.

: Viscosity of Hydrocarbon Gaseous Mixtures at High Pressures. Title

Orig Put: Tr. Gos. n.-i. i proyektn. in-ta azotn. prom-sti, 1954, vyp. 3,

Abstract: The viscosity of gaseous mixtures methane (I) - propane (II),

ethane - ethylene, ethane - propylene at temperatures up to 250° and pressures up to 600 abs. atm. and of mixtures ethane ethylene - propylene at 50, 100 and 1500 and pressures up to 450 abs. atm. was determined by the capillary method (RZhKhim, 1955, 53138). The lower the temperature is, the more the mix-

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USSR/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria, Physical-Chemical Analysis, Phase Transitions.

B-8

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3831.

ture viscosity increases with the pressure increase; under low pressure, viscosity increases with the temperature, and it decreases with the temperature rise under high pressures. The experimental values under all pressures are below the values computed according to the additivity rule and agree satisfactorily with values computed according to the equation of Golubev and with values computed according to the equation of Golubev and Petrov $\eta_{R_*} = \eta_{R_*} + a(P_{R_*} / T)^{\eta}$, where a and n are constants for each of the gases, P_* is the pressure at the temperature t, for each of the gases, P_* is the pressure at the temperature t and pressures P and of 1 atm. correspondingly. The value of a for gaseous mixtures can be computed from the equation $s_{M_*} + a_1 x_1 / a_2 + a_2 x_2 / a_3 + a_3 x_3 / a_4 a_4 / a_4 a_5 / a_5$

card : 2/3

-72-

USSR/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria.

Physical-Chemical Analysis, Phase Transitions.

B-8

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3831.

determined by the rolling ball method and the data of the authors were stated.

card : 3/3

-73-

CIA-RDP86-00513R001033 "APPROVED FOR RELEASE: Wednesday, June 21, 2000

MesHcheRYAKov N.V.
USSR/Chemistry - Ammonium nitrate

FD-2643

Card 1/1

Pub. 50-8/18

Authors

: Kil'man, Ya. I., Meshcheryakov, N. V., Klevke, V. A.

: Concerning the design of granulation towers for ammonium nitrate

Title

Periodical

: Khim. prom. No 3, 156-157, Apr-May 1955

Abstract

: Discuss a method of cooling granulated ammonium nitrate proposed by A. I. Brushteyn in Khim. prom. No 4, 200, 1954, and propose

other procedures for this purpose.

SOV/124-58-1-873

Translation from: Referativnyy zhurnal, Mekhanika, 1958. Nr 1, p 117 (USSR)

Golubev, I.F., Meshcheryakov, N.V., Olevskiy, V.M.

Rotor Rectification Columns With Turbulence Stimulation in Liquid and AUTHORS: TITLE:

Vapor (Rotornyye rektifikatsionnyye kolonki s turbulizatsiyey

zhidkosti i para)

Tr. Gos. n.-i. i proyektn. in-ta azotn. prom-sti, 1956, Nr 5. PERIODICAL:

pp 316-328

The authors present designs for rotor-type rectification columns (glass or metal) with concurrent mechanical turbulence stimulation ABSTRACT:

in the liquid and the vapor; these designs were developed and tested in the Process and Equipment Laboratory of the GIAP (Gosudarstven-

nyy institut azotnoy promyshlennosti - State Institute of the Nitrogen Industry! In operations on standard and working mixtures the

columns exhibited an elevated effectiveness with a comparatively

small hydraulic resistance. The angular speed of the rotor did not exceed 1400 rpm. The design of a multicylinder rotor rectification

column with opposite-sense rotation of adjacent cylinders is des-

cribed. The authors are of the opinion that columns of such type Card 1/2

CIA-RDP86-00513R001033 APPROVED FOR RELEASE: Wednesday, June 21, 2000

Rotor Rectification Columns With Turbulence Stimulation Liquid (cont.)

may be capable of high productivity. Considerations are adduced relative to the advisability of the application of rotor rectification columns with mechanical turbulence stimulators for vacuum rectification. Bibliography: 9 references.

Yu. A. Lashkov

Card 2/2

DESHUHERIAKOL

USSR / Gases.

D-7

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, No 9064

Author

: Galubev, I.F., Meshcheryakov, N.V.

Title

: Use of the Law of Corresponding States in the Determination of the Viscosity of Gases at Various Temperatures and Pres-

sures.

Orig Pub

: T:. gas. n.-i. i proyekt. in-ta azot. prom-sti, 1956, vyp.

6,52-55

Abstract

: It is shown that the law of corresponding states, in which one of the variables is the ratio of the viscosity of the substance at a pressure P and temperature to the viscosity at the same temperature and pressure of one atmosphere, namely $m_{\rm p,t}/m_{\rm t}$ gives a correct qualitative picture for the variation of viscosity of various substances (Referat Zhur Fizika, 1955, 641) with the temperature and pressure. The authors give a corresponding graph in the form of isotherms

Card

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USSR / Gases.

D-7

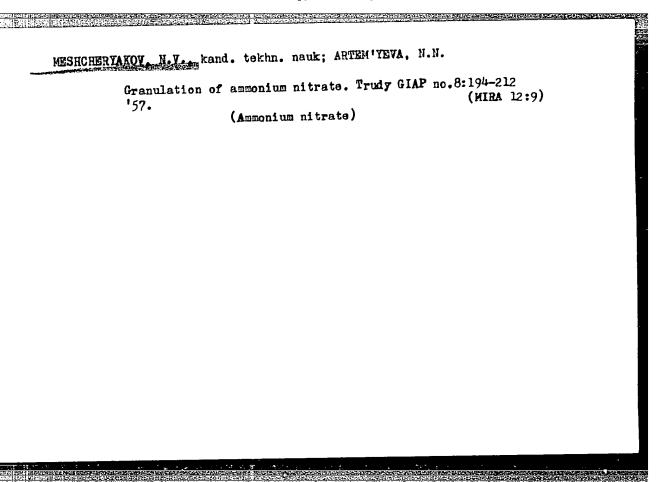
Abs Jour

: Ref Zhur - Fizika, No 4, 1957, No 9064

Abstract

: showing the dependence of $\mathcal{N}_{p,t}/\mathcal{N}_{p,t}$ on $\mathcal{T}_{p,t}$ is the reduced pressure, corresponding to the pressure range from 1 -- 800 atmospheres) at reduced temperatures $\mathcal{T}_{=}$ 0.85, 0.9, 1.0, 1.1, 1.4 and 2.5. There are considerable quantitative discrepancies which reach 30 percent for some substances with the exception of propane and propylene (\sim 3 percent). As $\mathcal{T}_{p,t}$ increases, the discrepancies diminish noticeably.

Card : 2/2



s/064/60/000/02/10/025 B022/B005

Kazakova, Ye. A., Meshcheryakov, N. V., Artem'yeva, N. N.

Cooling of Granulated Ammonium Nitrate in a Pseudo-liquid AUTHORS : TITLE 3

Khimicheskaya promyshlennost¹, 1960, No. 2, pp. 132 - 138

TEXT: The authors made experiments with periodic and continuous air cooling of ammonium nitrate granules in a pseudo-liquid layer the results of which are given in the present paper. The experiments of periodic cooling of granules were made in a laboratory plant described. Some results obtained in this plant for the granules of ammonium nitrate and of urea in a pseudo-liquid layer are given in Table 1. Experiments with continuous cooling of granules were carried out in the workshop of the Kemerovskiy ATZ (Kemerovo ATZ), The diagram of the experimental arrangement used is shown in Fig. 1. The output of the plant was varied within 161 = 268 kg/h, and the height of the pseudo-liquid layer within 50 = 150 mm while the air velocity was 0.6 - 0.8 m/sec. The influence of the air-flow velocity on the amount of heat abducted from the granules

Card 1/2

Cooling of Granulated Ammonium Nitrate in a Pseudo-liquid Layer

\$/064/60/000/02/10/025 B022/B005

(Fig. 2), and the mean heat emission coefficient (Fig. 3), are studied, The results obtained in experiments of continuous cooling of ammonium nitrate granules in a pseudo-liquid layer are compiled in Table 2. Fig. 4 shows the dependence of the mean heat emission coefficient on the Reynolds number for different heights of the pseudo-liquid layer, and Fig. 5 the influence of the height of the pseudo-liquid layer h on the mean heat emission coefficient. Further, the influence of the output of the plant, the wear and the entrainment of granules are investigated. Fig. 6 shows the dependence of the specific heat abducted from the granules on the specific air consumption in cooling, Fig. 7 the dependence of the temperature drop of granules on the specific air consumption in the cooling of granules. Table 3 gives the results obtained for the temperature drop in the cooling of granules, Table 4 indicates the results obtained for the cooling of granules on the passage of one and two pseudo-liquid layers. Fig. 8 shows the sketch of a granulation tower with a device for cooling the granules in a pseudo-liquid layer. There are 8 figures, 4 tables, and

Card 2/2

Production of gramular urea. Khim.prom. no.12:865-868 D 161.

(Urea)

KAZAKOVA, Ye.A., kand.tekhn.nauk; MESHCHERYAKOV, N.V., kand.tekhn.nauk; MUZYCHENKO, L.V.; DENEGA, A.I.; KHCRDINA, Yu.A.; HIKIFCHOVA, N.V.

Cooling of granulated fortilizers in a fluidized bed. Khim. prom. no.5:330-336 My '62. (MIFA 15:7) (Fertilizers and manures) (Fluidization)

TOLSTOV, Yu.G., doktor tekhn. nauk, prof., otv. red.; LEVITOV, V.I., kand. tekhn. nauk, red.; MARKEVICH, I.M., doktor tekhn. nauk, prof., red.; MIKHMEVICH, G.V., doktor tekhn. nauk, red.; MESHCHERYAKOV, P., kand. tekhn. nauk, red.; STEKOL'MIKOV, I.S., doktor tekhn.nauk, prof., red.

[Operating modes of electrical systems and regulation of synchronous machines] Rezhimy raboty elektrosistem i regulirovanie sinkhronnykh mashim. Moskva, Nauka, 1964. 150 p. (MERA 17:9)

1. Moscow. Energeticheskiy institut.

MESHCHERYAKOV, P. A.

"Data on the Pathophysiology of Ascaris Infestation (Intoxication) (Experimental Investigation)." Dr Vet Sci, Kazan' State Veterinary Inst, Kazan', 1953. (RZhBiol, No 5, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

St: Sum. No. 521, 2 Jun 55

ZAYKOV, M.A.: TSELUYKOV, V.S.; KAMINSKIY, D.M.; DALOCHKIN, N.V.; LAR'KINA, F.G.; MESHCHERYAKOV, P.A.; Prinimali uchastiye: PERMYAKUV, V.M.; MERKUTOV, V.N.; PROKOP'YEV, KAFTNAOV, M.P.; MARAMYGIN, G.F.; ZHURAVIEV, M.A.; MARININ, P.G.; NASIBUDIN, A.S.; MANCHEVSKIY, I.V.; PELYAVSFIY, M.A.; SERGEYEV, V.V.; CHVANOV, L.E.; KOBYLEV, V.K.; KUCHKO, I.I.; MIRENSKIY, M.L.

Pressure of the metal on rolls in rolling carbon and alloyed steels on a three-bigh billet mill. Izv. vys. uchet. zav.: ohern. met. 4 no.8:78-93 *61. (MIR. 14:9)

 Sibirskiy metallurgicheskiy institut. (Rolling mills)

ZAYKOV, M.A.; TSELUYKOV, V.S.; KAMINSKIY, D.M.; DADOCHKIN, N.V.;

MESHCHERYAKOV, P.A.; MARININ, P.G.; MIRENSKIY, M.L.; PROKOP'TEV,

A.V.; OVCHINNIKOVA, R.F.; Prinimali uchastiye; HELYAVSKIY, M.A.;

KAFTANOV, M.P.; KUCHKO, I.I.; LAR'KINA, F.Ye.; MANCHEVSKIY, I.V.;

MARAMYGIN, G.F.; MERKUTOV, V.N.; NASIBULIN, A.S.; NEFEDOV, M.K.;

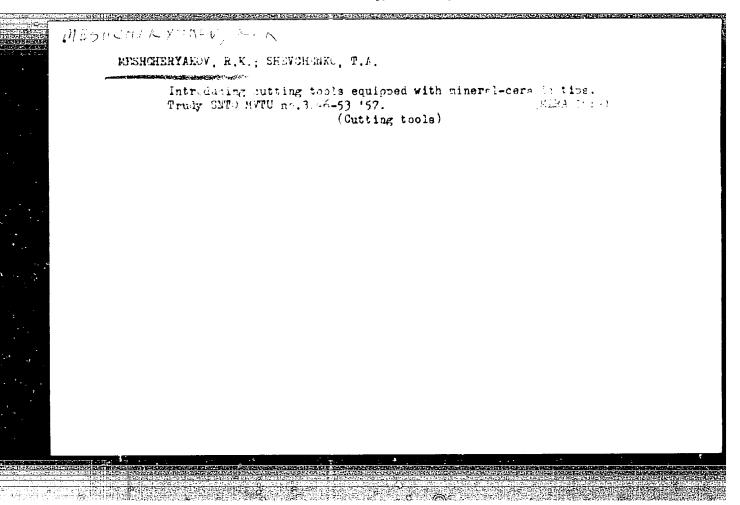
PERMYAKOV, V.M.; CHELYSHEV, N.A.; CHVANOV, L.K.

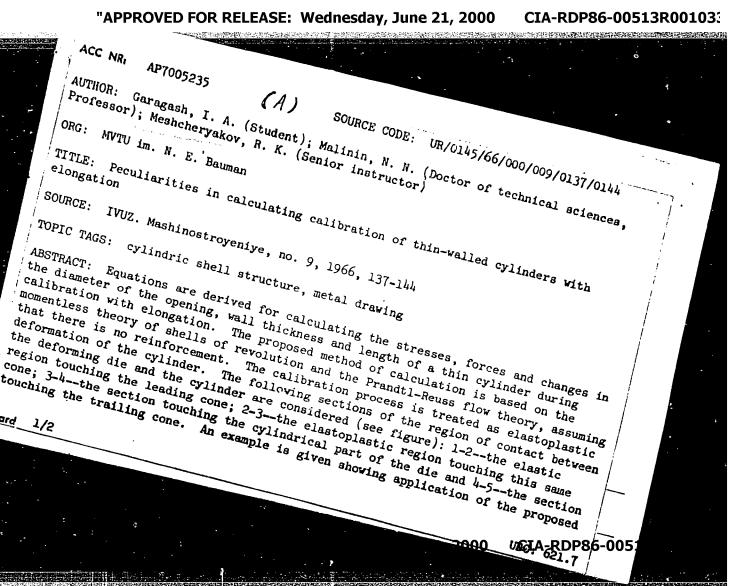
Investigating conditions of rolling on three-high billet mills.

Izvy vys. ucheb. zav.; chern. met. 6 no.10:74-83 '63.

(MIRA 16:12)

1. Sibirskiy metallurgicheskiy institut i Kuznetskiy metallurgicheskiy kombinat.





"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

method to calculation of the calibrating process
for the shock absorbers in the Moskvich-408 automobile. A comparison of the absolute values of wall
thicknesses calculated by the proposed method with
experimental data shows a difference of only a few
experimental data shows a difference of only a few
microns, which is quite satisfactory for practical
microns, which is quite satisfactory for practical
problems. The observed discrepancies are partially
problems. The observed discrepancies are partially
problems of the cylinder walls which may be as high
thickness of the cylinder walls which may be as high
as 0.25 mm. Orig. art. has: 3 figures, 3 tables, 26 formulas.

SUB CODE: 13/ SUBM DATE: 30Mar66/ ORIG REF: 03

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

BERZIN, A.K.; MESHCHERYAKOV, R.P.; YAKOVLEV, B.M.

Space distribution of radiation from a betatron. Izv. vys. ucheb.

zav.; fiz. no.4:130-134 '59.

(MIRA 13:3)

1.Tomskiy politekhnicheskiy institut imeni S.M. Kirova.

(Betatron) (Bremsstrahlung)

5/139/59/000/05/023/026 E032/E114

AUTHORS: Berzin, A.K., Meshcheryakov, R.P., and Yakovlev, B.M. Threshold Energies for the (γ, n) Reactions for Elements including Isotopes with 50 and 82 Neutrons

TIILE:

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1959, Nr 5, pp 148-153 (USSR)

AB3TRACT: The present work is a continuation of the work reported in Refs 1 and 2 by the first of the present authors. Threshold energies have been measured for 26 isotopes.

Of these, 15 thresholds for photoneutrons have been measured for the first time and 8 have been measured with The experimental error present in + of the thresholds measured in Ref 2 has been removed.
A 25 MeV betatron was used as the source of the gamma radiation, and in the majority of cases the neutrons were detected as in Refs 1 and 2, using two scintillation counters in coincidence. The results obtained are summarised in Table 1 (p 152) in which the first column gives the name of the isotope, the fourth column gives the threshold measured in the present work (in MeV), the

fifth column gives the threshold as measured by other Card 1/3

S/139/59/000/05/023/026 E032/E11⁴

Threshold Energies for the (γ , n) Reactions for Elements including Isotopes with 50 and 82 Neutrons

workers, and the last column gives the references. results are also shown in the form of graphs in Figs 2 and 3 (these include results of other workers). shows that the thresholds for even-even isotopes containing 50 neutrons lie on a single straight line (except for z_r 90 which has two thresholds because of the presence of a metastable state). A similar situation is observed in the case of isotopes with 82 neutrons (Fig 3). Here the exception is the isotope Sml44. the case of the isotope Xel36 the threshold was measured with the aid of the apparatus shown schematically in Fig 1. The irradiated gas was in a metallic envelope A which was connected to the recording part of the apparatus B by means of a needle valve a. The recording of conversion electrons with energies of about 0.5 MeV which are formed as a result of the formation of a metastable state of Xe was carried out with the aid of a sodium iodide crystal.

Card 2/3

S/139/59/000/05/023/026 E032/E114

Threshold Energies for the (γ, n) Reactions for Elements including Isotopes with 50 and 82 Neutrons

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There are 3 figures and 14 references, of which 9 are English and 5 Soviet. There is also 1 table.

ASSOCIATION: Tomskiy politekhnicheskiy institut imeni

S.M. Kirova

(Tomsk Polytechnical Institute imeni S.M. Kirov)

SUBMITTED: December 27, 1958

Card 3/3

82839 S/048/60/024/008/016/017 B012/B067

9.3000

Vlasov, A. G., Vorob'yev, A. A., Kislov, A. N., AUTHORS:

Meshcheryakov, R. P.

TITLE:

Investigation of the Losses in Electrons Due to

Scattering in the Residual Gas in the Accelerating

-W Chamber

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 8, pp. 1006-1012

TEXT: In the present paper the theoretical calculations of the losses in accelerated particles due to scattering in the residual gas were experimentally examined. A suggestion is made for calculating these losses. First, only the definite results of calculations according to the methods by N. M. Blachman and E. D. Courant (Refs. 5,6), J. M. Greenberg and T. H. Berlin (Refs. 7,8) and A. N. Matveyev (Refs. 9,10) are studied and compared in a Table. This comparison shows that the various methods lead to different results. The control method and the

Card 1/3

CIA-RDP86-00513R001033 APPROVED FOR RELEASE: Wednesday, June 21, 2000

Investigation of the Losses in Electrons Due to Scattering in the Residual Gas in the Accelerating Chamber 82839 S/048/60/024/008/016/017 B012/B067

experimental apparatus are then described. Fig. 1 shows the measuring block diagram. The results of measurements are given and compared with the results of theoretical calculations. In conclusion the following is stated: character and quantitative comparison of the curves shown in Fig. 6 indicate that the losses in electrons due to scattering in the residual gas can be calculated according to the method of Greenberg and Berlin as well as according to that of Matveyev with sufficient accuracy since the results differ only by 1.5 $\frac{1}{2}$ 1.7 times from one another. According to the method of Blachman and Courant the losses in protons due to scattering in the gas may be estimated, whereas for the electrons the values obtained by this method are too low. The sufficient agreement between the experimental and the theoretical results also confirm the correctness of the method of measurement chosen. V. G. Shestakov assisted in the measurements. The collaborators of the NII TPI and FTF assisted the authors in this work. There are 6 figures, 1 table, and 15 references: 8 Soviet and 7 British.

Card 2/3

CIA-RDP86-00513R001033 "APPROVED FOR RELEASE: Wednesday, June 21, 2000 THE STATE OF THE S

Investigation of the Losses in Electrons Due to Scattering in the Residual Gas in the Accelerating Chamber

82839 5/048/60/024/008/016/017 B012/B067

ASSOCIATION:

Nauchno-issledovatel'skiy institut pri Tomskom

politekhnicheskom institute im. S. M. Kirova (Scientific Research Institute at the Tomsk Polytechnical Institute

imeni S. M. Kirov)

Card 3/3

s/058/63/000/001/030/120 u5u21 A062/A:01

H.5150

Yakovlev, B. M., Meshcheryakov, R. P., Gryaznov, A. L.

AUTHORS:

On the distribution of thermal neutrons emerging from a betatron

TITLE:

F-RIODICAL:

Terrativnyy zhurnal, Fizika, no. 1, 1963, 65, abstract 1A564 (In collection: "Elektron. uskoriteli". Tomsk, Tomskiy un-t,

1961, 178 - 183)

The thermal neutron background was investigated in the betatron laboratory of the Tomsk Polytechnic Institute (near the 25-MeV betatron and in the neighboring premises). It is shown that the maximum value of the thermal neutron flux in the main /-ray beam is equal to 7.103 neutron/cm2 per 1 roentgen of 7-bremsstrahlung. The magnitude of the neutron flux in the experimental room strongly depends on the design of the protective shields and the collimator, bestrongly depends on the design of the protective shiretus and the collimator, the ing in the worst case equal to 2.103 neutron/cm² per 1 roentgen of bremsstrahlung. It is pointed out that shielding against the bremsstrahlung from accelerators does not yet ensure a complete shielding against the neutrons. The measurements of the thermal neutrons were carried out by different methods (with the

Curd 1/2

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On the distribution of thermal restriction	s/058/63/000/001/03 0/120 a062/a101
standard type "Effir-1" radio: $3/3$. In \ln^{110} and \ln^{50}).	The last usuring the induced activity
	V. Kanunnikov
[Abstractor's note: Complete translation]	
•.	
•	
	,

8/058/63/000/001/021/129 A062/A101

AUTHORS:

Meshcheryakov, R. P., Yakovlev, B. M.

TITLE:

Device for determining the center of a /-ray beam

PERIODICAL: Referativnyy zhurnal, Fizika, no. 1, 1963, 44, abstract 1A419 (In collection: "Elektron. uskoriteli". Tomsk. Tomskiy un-t,

1961, 284 - 287)

To determine the position of the beam center of the 25 - 30 MeV /-bremsstrahlung in betatrons, it is proposed to measure the induced activity TXXIT: in a radiator made of aluminum or lead. This measurement is carried out, while the betatron is in operation, with the aid of 4 counters arranged in two pairs opposite to one another, using for this purpose only the 3/4 of the magnetic field variation period, when no electron acceleration takes place. The pulses from the counters are fed to two comparison circuits utilizing in their output pointer microammeters. A drawback of the device resides in the strong effect ef the background induced in the counters and its shield. V. Kanunnikov

[Abstracter's note: Complete translation]

Card 1/1

3/058/63/000/001/013/120 A062/A101

AUTHOR:

Vlasov, A. G., Kislov, A. N., Meshcheryakov, R. P.

TITIE:

Apparatus for measuring short-life isometric transitions

DERIGICAL: Referativnyy zhurnal, Fizika, no. 1, 1963, 37, abstract 1A353 (In collection: "Elektron, uskoriteli", Tomsk, Tomskiy un-t, 1961,

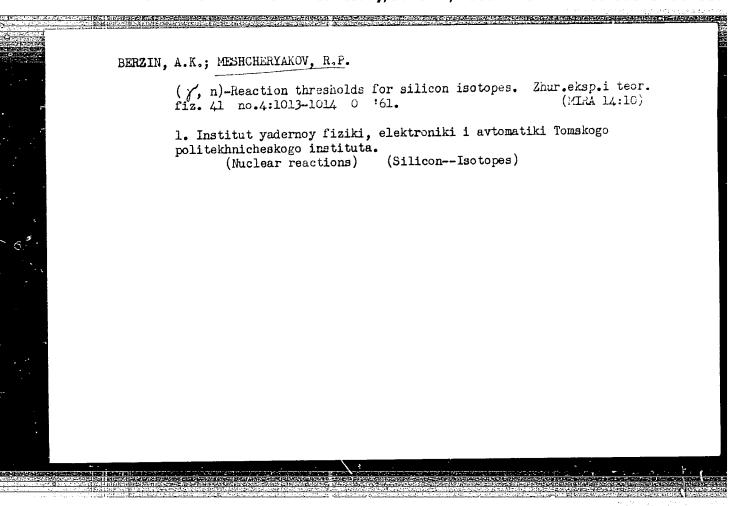
288 - 201)

Apparatus for measuring short-life isometric transitions is described The measurements were carried out on a betatron of 25 MeV maximum energy. The apparatus comprised a cutting-off circuit which permitted also the control of the maximum energy of bremsstrahlung and the prevention of the error due to osaillations of the radiation intensity, a scintillation spectrometer operating with a puise supply, an amplitude analyzer and a 16-channel time analyzer. The duration of the cut-off was 3 usec.

K. Aglintsev

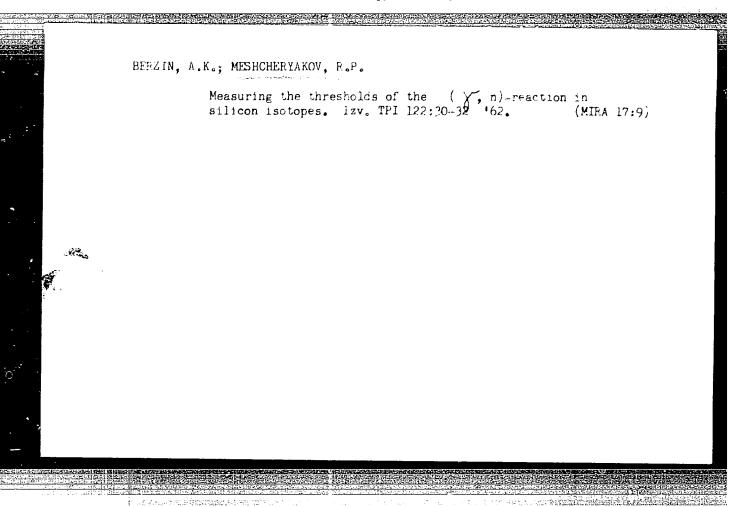
[Abstracter's note: Complete translation]

Card 1/1



TITLE: The connection between the wlath of the nucleus reaction and filling of the energy levels of the nucleus of the surface of the nucleus of the nucleus of the surface of the threshold energies of the nucleus of the surface of	es of the Mo and Nd 18 Mo92, Mo94, Holco, was for the ation. The sales while processing
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for isotopes of La, Ce, the ineignificant differ isotope and nuclei havin No. 150 nucleus, since strowidth. From this fact (what too high values of the threshold energic were also studied cross sections of the (7, and Privi), Nd, Nd142, and Nd150. The author rence in the widths of the glant resonances f as a filled neutron shell indicates slight de angly deformed nuclei have high values for the together with data on the thresholds of the	n)-reactions is note that for the Md150 formation of the se giant resonance
ard 2/2		



s/0139/63/000/006/0129/0134

ACCESSION NR: AP4025096

AUTHORS: Meshcheryakov, R. P.; Mikhaylov, G. P.

TITLE: Effect of a surface charge on photomultiplier operation

SOURCE: IVUZ. Fizika, no. 6, 1963, 129-134

TOPIC TAGS: photomultiplier operation, impulse regime, oscillogram, blanketing pulse, scintillation spectrometer, loading characteristic, divider current

ABSTRACT: A detailed review of experimental analyses on photomultiplier operations has been presented along with some additional investigations by the authors. The study includes operation in the impulse regime of several photomultipliers (FE)-13B, FEU-11B, FEU-12B, and FEU-29) as recorded on oscillograms. The characteristics of the recorded curves seem to be independent of both the operation region of the photomultipliers and the method of pulse feed generation. The inertia in photomultipliers is discussed, and the necessity of increasing the blanketing pulse duration is considered. The operation of photomultipliers at various counter speeds is investigated in the scintillation spectrometer regime with NaI(Tl) crystals, using two sources of Co (1 and 0.03 μ curie activity). The loading Card 1/2

ACCESSION NR: AP4025096

characteristics are displayed graphically, and they show no dependence on the intercascade divider current. Finally, the volt-ampere characteristics are measured at 8 x 10 and 2 x 10 imp/sec counter speeds. Orig. art. has: 6 figures.

ASSOCIATION: NII pri Tomskom politekhnicheskom institut imeni S. M. Kirova (NII, Tomsk Polytechnical Institute)

SUBMITTED: 18May62

DATE AQ: 14Feb64

ENCL: CO

SUB CODE: GE

NO REF SOV: Oll

OTHER: 004

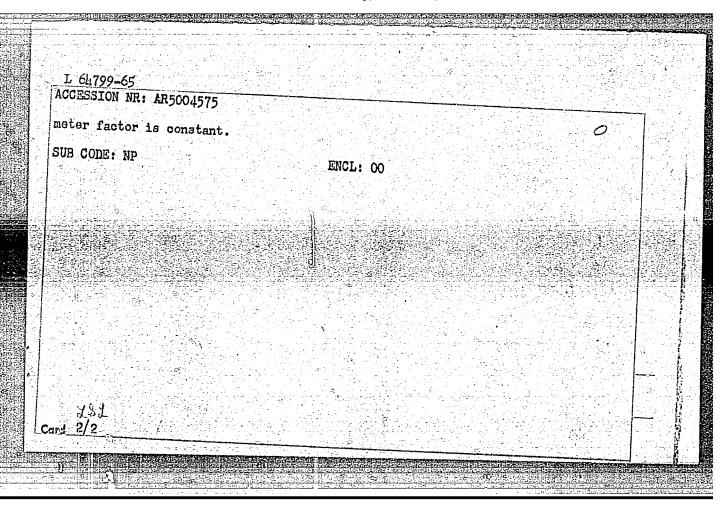
Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

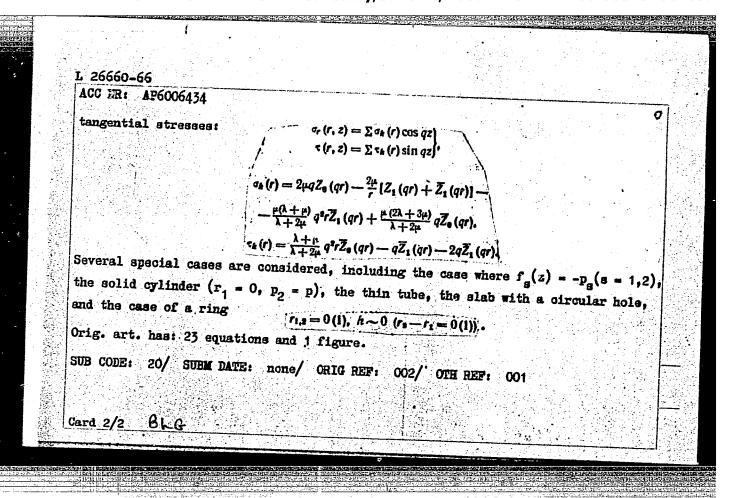
CIA-RDP86-00513R001033

ACCESSION NR: AR5004575 S/0275/64/000/011/A054/A054 SOURCE: Ref. zh. Elektronika i yeye primeneniye. Svodnyy tom, Abs. 11A340 AUTHOR: Meshcheryakov, R. P. TITLE: Design of a quantometer for measuring bremsstrahlung with a maximum energy under 100 Mev (A) (4),55 (W) TOPIC TAGS: quantometer, bremsstrahlung measurement TRANSLATION: A method is considered of eliminating the inaccuracy of integration of the area under the transition curve of a quantometer intended for measuring segment, a method of Gaussian quadrature with six nodes. The results are submitted can. The calculation of the diameter and thickness of plates and gaps for a quantometer entire transition allows for straying electrons.	
TITLE: Design of a quentometer for measuring bremsstrahlung with a maximum energy under 100 Mey CITED SOURCE: Sb. Elektron. uskoriteli. M., Vyssh. shkola, 1964, 417-419 TOPIC TAGS: quantometer, bremsstrahlung measurement TRANSLATION: A method is considered of eliminating the inaccuracy of integration of the area under the transition curve of a quantometer intended for measuring segment of the transition curve, a method of parabolas is used; for the ascending of calculation of the diameter and their six nodes. The result	
TRANSLATION: A method is considered of eliminating the inaccuracy of integration of the area under the transition curve of a quantometer intended for measuring segment of the transition curve, a method of Daussian quadrature with six nodes. The result is descending to the diameter and that it is nodes. The result is a second in the diameter and that it is nodes. The result is the descending the second in the diameter and that it is nodes. The result is the descending the second in the diameter and that it is nodes. The result is the diameter and that it is nodes.	
regment, a method of Gaussian quadrature with six nodes. The regulation of the descending	
aving a gap of 7 mm between the first plates and a total plate thickness of 11.3 and 1/2	

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001033



		(v)/T-2/EWP(k)/EWA SOURCE CODE: UR/04	20/65/000/003/0	EM 136/004
AUTHORS: Shun, M. S	.; Meshcheryakov, S.	F.	, in the second	
ORG: none	المتعاديدين والمتعادية والمتعادية والمتعادية والمتعادية والمتعادية والمتعادية والمتعادية والمتعادية والمتعادية	exa.	3/	1
TITLE: On the edge	effect in a finite to	ha undon		2
SOURCE: Samoletostr	oyeniye i tekhnika vo	Zdushnogo flota	7 4000 -4	
TOPIC TAGS: stress	malysis, pressure ef	fect	3, 1965, 36-43	
ABSTRACT: The soluti teoriya uprugosti. ON edge effects and unde	on for infinite tube TI NKTP SSSR, 1935) or arbitrary axial los	s by Lyame (e.g., A. is generalized to fi	Lyav, Matematic	cheskay es with
acted upon by forces	on its surface as		mise cylinder	
where $f_i(-z) = f_i(z)$, in two dimensions are		$=f_{\ell}(z)$ $(\ell=1,2),$	•	
	solved to yield the	 The governing dis 	placement equat	iona



IJP(c) ENT(d)/ENT(1)/EPF(n)-2 ,43 SOURCE CODE: UR/0420/65/006. 17012-66 ACC NR: AP6006435 AUTHOR: Meshcheryakov, S. F. ORG: none TITLE: Nonsteady-state temperature field inside an infinite cylinder in the presence of an internal heat source SOURCE: Samoletostroyeniye i tekhnika vozdushnogo flota, no. 3, 1965, 41-43 TOPIC TAGS: heat transfer, temperature distribution, temperature profile ABSTRACT: An analysis was made of the nonsteady-state temperature distribution in an infinite cylinder containing a heat source of variable intensity. The heat source initially had a temperature T and the other parts of the cylinder a temperature of zero. The cylinder was ideally insulated. Expressions for the temperature profile as a function of time were obtained by means of Laplace and Fourier transforms. Orig. art. has: 10 formulas. 21/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 001/ ATD PRESS:4207 SUB CODE:

