VLASOV, M.A.; KUPERMAN, A.L.

Results of the testing of lug-type tires for standard ZIL and GAZ trucks. Avt.prom. no.9:23-25 S 61. (MIRA 14:9)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut. (Motortrucks--Tires)

Our experience in raising chicks for meat production. Ptitsevodstvo 9 no.5:20-25 My 159. (MIRA 12:7)

1. Predsedatel kolkhoza "Voskhod," Krasno-Polyanskogo rayona,
Moskovskoy oblasti (for Vlasov). 2. Kolkhoz "Voskhod," Krasnopolyanskogo rayona, Moskovskoy oblasti.

(Poultry)

VLASOV, M.

Sorniaki khlopchatnikh i bor'ba s nimi (Weeds in cotton and their control). Alma-Ata, Kazgosizdat, 1953. 68 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 6, Sep. 1954

VLASOV, M.D.

SOV/4896

PHASE I BOOK EXPLOITATION

Moskovskiy dom nauchno-tekhnicheskoy propagandy imeni

- Avtomatichemdye rotornyye linii sredstvo kompleksnoy avtomatizatsii proizvodstva. (Rotary-Transfer-Machine Lines-a Means of Full Automation of Production) Moscow, Mashgiz, 1960. 221 p. I0,000
- Ed.: L. N. Koshkina; Ed. of Publishing House: I. Vasil'yeva; Tech.

 Ed.: G. V. Smirnova; Managing Ed. for Literature on Metalworking and Machine-Tool Making: V. I. Mitin, Engineer.
- The book is intended for technical personnel in the machin-
- COVERAGE: This collection of articles explains the principles of full automation based on the use of rotary transfer machines in various industries. The rotary operational transfer machines used for basic processing are discussed, and also the special power equipment and

~Card-1/4-

Shumilin, D. V. Rotors for Chemical Processing	42 52
Sirotin, P. I. Rotors for Mechanical Processing	32
Luk'yanov, V. I. Rotors for Die-Pressing Operations Vlasov, M. D. Rotors for Heat Treatment	21
PART I. ROTARY TRANSFER MACHINES FOR BASIC MANUFACTURING PROCESSES	3
Koshkin, L. N. Basic Problems in the Full Automation of Product Manufacture	
accessories for these machines and [production] lines. alities are mentioned. There are no references. TABLE OF CONTENTS:	No person-
Rotary-Transfer Machine (Cont.) SOV/48	96

28365-66 EPF(n)=2/EWT(m)/ETC(f)/EWG(m)ACC NR: AP6001700 /N) SOURCE CODE: UR/0089/65/019/005/0467/0468 AUTHOR: Vertebnyy, V. P.; Vlasov, M. F.; Kirilyuk, A. L. ORG: Institute of Physics of AN UkrSSR (Institut fiziki AN UkrSSR) TITLE: Effect of core arrangement upon neutron spectra obtained from horizontal channels of VVR-M reactor SOURCE: Atomnaya energiya, v. 19, no. 5, 1965, 467-468 TOPIC TAGS: nuclear research reactor, neutron spectrum, nuclear reactor component/VVR-M nuclear reactor ABSTRACT: Experiments were conducted at the Institute of Physics of the Ukrainian Academy of Sciences in order to determine the best arrangement of core elements and thus to get a maximum yield of slow neutrons in a reactor measuring channel. The VVR-M nuclear research reactor was used in connection with a mechanical chopper. The neutron spectra were investigated for three arrangements in the channel proximity. In the first case, only heat-releasing elements were used as neutron sources. The second arrangement was composed of elements and a 5.5-cm water layer The water was substituted by a beryllium layer of the same thickness in the third version. These three arrangements were schematically illustrated by the reactor core cross-section and their effects on spectra 621.039.519 Card 1/2

nent was the death of the last of the last of the last original art.	he version w Pilipts, Cl itute assiste has: 3 fig	ith beryllium hief Engineen ants for the ures.	n moderator.	A gratitude itute of Phenduoting ex	

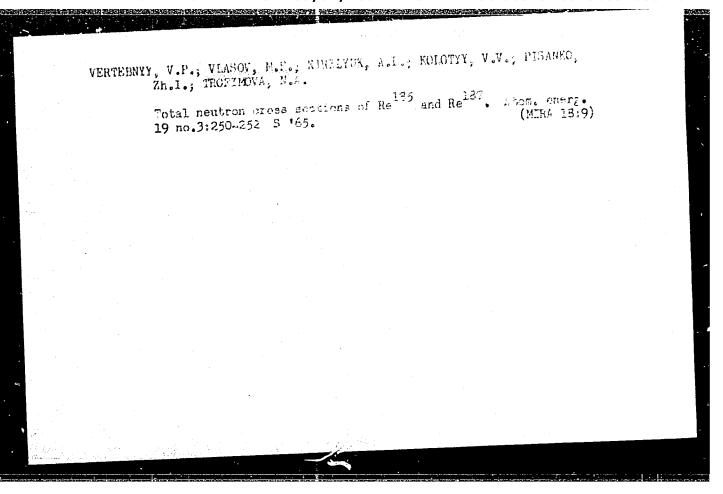
VLASOV, Mikhail Fedorovich

N/5 741.753 .V8

Sborka I Regulirovka Elektroizmeritel'nykh Priborov (The Assembling and Adjusting of Electric Meters, By) M. F. Vlasov, S. M. Pigin I V. I. Chervyakova. Moskva, Gosenergoizdat, 1955.

245 (3) p. Illus., Diagrs., Tables.

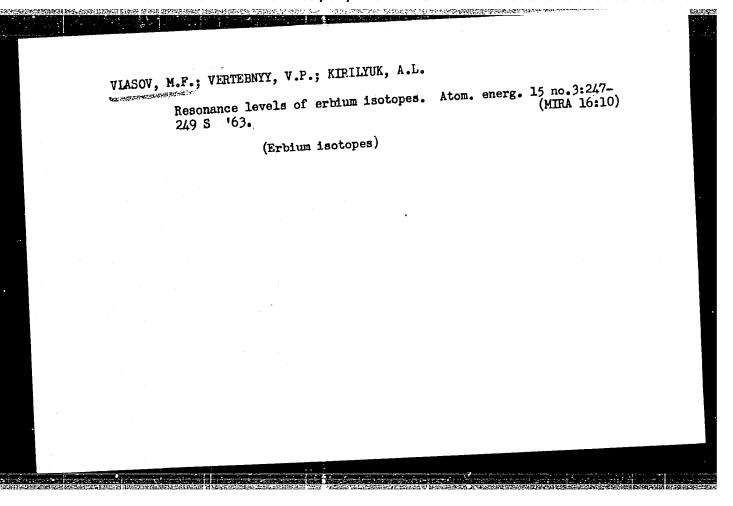
"Literatura": p. (247)



PASECHNIK, M. V.; BARCHUK, I. F.; VERTEBNYY, V. P.; VLASOV, M. F.; KOLOTIY, V. V.; MAYSTRENKO, A. N.; MOSTOVOY, V. I.; NAZARCHUK, M. M.; PILIPETS, D. T.

"The parameters of the WWR-M reactor of the Inst of Physics, AS UKSSR and its application in nuclear physics research."

report submitted for 3rd Intl Conf, Peaceful Uses of Atomic Energy, Geneva, 31 Aug-9 Sep 64.



VLASOV, Mikhail Fedorovich; PIGIN, Sergey Mikhaylovich; CHERVYAKOVA, Vera Ivanovna; LAVRUKHIN, M.A., retsenzent; TKALIN, I.M., retsenzent; LEKHSHTEYN, L.I., red.; ZHISHNIKOVA, O.S., tekhn. red.

[Assembly and adjustment of electric measuring devices]Sborka i regulirovka elektroizmeritel'nykh priborov. Izd.2., perer. Moskva, Gosenergoizdat, 1963. 260 p. (MIRA 16:3) (Electric meters)

VLASOV, M.F.; KIRILYUK, A.L. [Kyryliuk, A.L.]

Identification and determination of the parameters of resonance levels in erbium. Ukr. fiz. zhur. 8 no.9:947-953 S 163.

(MIRA 17:8)

l. Institut fiziki AN UkrSSR, Kiyev.

VLASOV, Mikhail Fedorovich; PIGIN, Sergey Mikhaylovich; CHERYTAKOVA,

VAR IVANOVIA; BLEKHSHTEYN, L.I., redaktor; ZABRODINA, A.A.,

tekhnicheskiy redaktor.

[Installation and regulation of electric measuring appratus]
Sborka i regulirovka elektroismeritel'nykh priborov. Moskva,

Gos.energ.itd-vo, 1955. 245 p.

(Electric meters)

(Electric meters)

28434 S/185/61/006/002/006/020 D210/D304

21.6000

Vlasov, M.F., Fedorov, M.B., and Vertebnyy, V.P.

AUTHORS: TITLE:

Methane diffusion cloud chamber for neutron

spectrometry

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 2, 1961,

186 - 190

TEXT: In this article the authors describe the constructions and operation of a methane diffusion cloud chamber for spectrometry of neutrons of energy 1 to 3 MeV. The construction of the chamber is shown. The chamber was operated at one atmosphere of methane using methanol for diffusion, giving a sensitive volume of 3 cm high by 20 cm diameter. The electrodes are made of two screens connected together and kept at a potential of lkV relative to the base plate and the methanol groove. The flow of the cooling liquid nitrogen and the methanol temperature were controlled automatically to give base plate and methanol temperatures -70 and 10°C respectively, to

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Methane diffusion cloud ...

within ± 0.5°C. The chamber was operated by means of an electronic arrangement, given in the original paper, which starts the neutron generator, switches on the electric field and the pulse lamps, and winds the photographic film in the required sequence. The chamber was tested by analyzing the neutron spectrum from the D(d, n) reaction in the direction of the denterium beams of 150 keV energy, and the dispersion of the apparatus was found to be 8 % half-intensity. There are 5 figures.

ASSOCIATION: Instytut fizyky AN URSR, m. Kyyiv (Institute of Physics, AS UkrSSR, Kiyev)

August 22, 1960 SUBMITTED:

Card 2/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860310004-8"

EWT (m)/EFF(c)/ETC/EFF(n)-2/EWG(m)/EWA(h) WW/DM UR/0089/65/019/003/0250/0252 L 2226-66 ACCESSION NR: AP5023764 539.172.4:539.170.2 44.55 AUTHOR: Vertebnyy, V. P.; Vlasov, M. F.; Kirilyuk, A. L.; Kolotyy, V. Zh. I.; Trofimova, N. TITLE: Total neutron cross sections of Re super 185 and Re super 187 SOURCE: Atomnaya energiya, v. 19, no. 3, 1965, 250-252 TOPIC TAGS: neutron cross section, rhenium, nuclear energy level, thermal neutron ABSTRACT: The total neutron cross sections of the separated isotopes Re^{185} and Re^{187} were determined in the resonance, thermal, and cold energy range. The measurements were carried out on the VVR-M nuclear reactor of the Institut fiziki AN USSR (Institute of Physics, AN SSSR) by using the time-of-flight technique. The cross section of Re 187 obeys the 1/v law in the range below 0.5 - 2 e.v., and that of Re¹⁸⁵, below 0.08 e.v. The contribution of positive levels to the thermal cross sections of Re¹⁸⁵ amounts to about 56%, and that of Re^{187} to about 3% of the total cross section. Analysis of the thermal cross sections show that for Re 187 the energy of the negative level closest to zero is Card 1/2

 . 2226-66 ACCESSION NR: AP5023764		0
 10 e.v. $ E_0 > 5$ e.v., and these levels are at least 15 times	for ${ m Re}^{185}$, $ { m E}_0 \gg 10$ e.v. The mes greater than the average widt 85 at 2200 m/sec is 118 ± 2 barn, figures, 2 tables, and 1 formula.	and that of the
ASSOCIATION: None SUBMITTED: 15Dec64	ENCL: 00	SUB CODE: NP
NO REF SOV: 005	OTHER: 003	

VERTERNYY, V.P. [Vertebnyi, V.P.]; VIASOV, M.F.; PASECHNIK, M.V. [Pasichnyk, M.V.]; TOTSKIY, I.A. [Tots'kyi, I.A.]

Spherical electron-pulse ionization chambers for the study of fast neutons [in Ukrainian with summary in English]. Ukr. fiz.zhur. 3 (MIRA 11:6) no.2:196-203 Mr-Ap '58. (Neutrons) (Ionization chambers)

CIA-RDP86-00513R001860310004-8 "APPROVED FOR RELEASE: 09/01/2001

s/089/62/012/004/007/014 B163/B102

AUTHORS:

Vertebnyy, V. P., Vlasov, M. F., Kolotyy, V. V., Maystrenko,

A. N., Pasechnik, M. V.

TITLE:

Spectrum of slow neutrons from the horizontal channel of a

BBP-M (VVR-M) reactor

Atomnaya energiya, v. 12, no. 4, 1962, 324-326 PERIODICAL:

TEXT: The energy distribution of slow neutron from a horizontal channel beginning in the active zone of a VVR-M reactor at the Institut fiziki AN USSR (Institute of Physics, AS UkrSSR) was measured by the time-of-flight method. A 14 cm thick beryllium layer is arranged between the fuel elements and the channel entrance. The measuring arrangement consists of a mechanical interrupter of 300 mm diameter with 26 slits of 0.5 mm width each, which can be rotated at a speed of 10² to 10⁴ revolutions per minute, a drift tube of 25 m length and a battery of boron counters. Another arrangement with a 175 m long drift tube is being completed. The time of flight is measured by means of a multichannel time analyzer MBA-1 (IVA-1), developed in the laboratory of nuclear electronics of the Card 1/2

Spestrum of slow neutrons ...

S/089/62/012/004/007/014 B163/B102

same institute. The measured energy distributions can be well approximated by Maxwell distribution. The temperatures resulting from this least-squares-approximation are very near to the temperature of the active zone. Small systematic deviations from a Maxwell distribution that can be observed at the low energy end of the spectrum are explained by the filtering action of the beryllium. An indenture in the energy distribution curve at 0.025 ev is related to a corresponding maximum in the total cross-section of beryllium. There are 3 figures and 3 Soviet references.

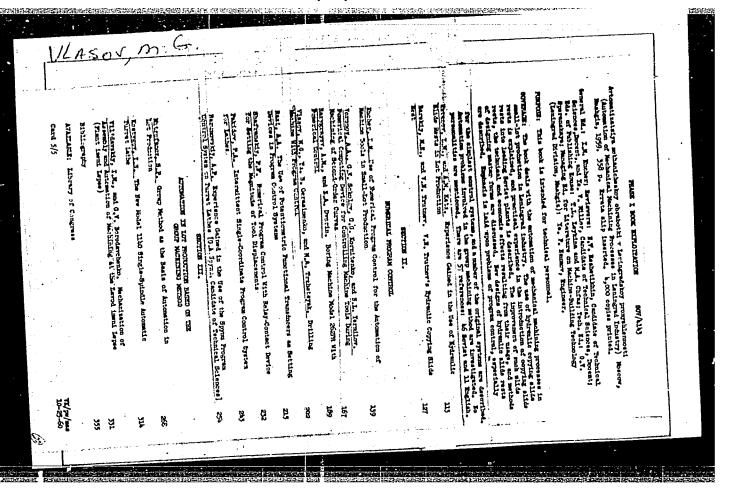
SUBMITTED: July 5, 1961

Card 2/2

VERTEBNYY V.P.; VLASOV, M.F.; KIRILYUK, A.L.

Effect of the configuration of the core of a VVR-M reactor on the spectrum of neutrons from a horizontal channel. Atom. energ. 19 no.5:467-468 N 165. (MIRA 18:12)

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860310004-8



RYBALKO, K.S.; PEREL'SON, M.Ye.; SHRETER, A.I.; VLASOV, M.I.; GUBANOV, I.A.; PIMENOVA, R.Ye.; NOVOSEL'TSEVA, R.P.; SEREBRYAKOVA, A.A.

Preliminary evaluation of plants of the family Compositee for their sesquiterpenic lactone content. Apt. delo 14 no.5:37-41 S-0 165. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovetel skiy institut lekaratasnnykn i aromaticheskikh rasteniy, Bittsa, Moskovskoy oblasti.

KUVAYEV, V.B.; VLASOV, K.I.; GUBANOV, I.A.

Larkspur Delphinium confusum M. Pop., a new medicinal plant.
Bot. zhur. 49 no.72997-1002 Jl '64 (MIRA 1728)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekaratvannykh i aromaticheskikh rasteniy, Moskovskaya ohlast'.

15-57-10-14914

Referativnyy zhurnal, Geologiya, 1957, Nr 10, Translation from:

p 262 (USSR)

AUTHOR:

Vlasov, M. I.

TITLE:

A Technical Conference of the Problem of Selecting the Most Rational System of Mining Operation (Tekhnicheskaya konferentsiya po voprosu vybora naiboleye ratsional'nykh

sistem razrabotki)

PERIODICAL:

Ugol' Ukrainy, 1957, Nr 1, pp 47-48

ABSTRACT:

The paper gives a short account of the content of reports at a conference on the systems of mining operations in coal fields. This conference was called

by the Voroshilovgrad Oblast Committee of the Ukrainian Communist Party together with the Oblast Administration of the Scientific-Technological Mining Society and the Voroshilovgrad House of Technology... It was noted at the conference that approximately 60 galleries were being mined at the beginning of 1957 in the principal Voroshilovgrad coal district by the

Card 1/2

15-57-10-14914

A Technical Conference of the Problem of Selecting (Cont.)

long-pillar system. In the principal Donbass anthracite district, 114 galleries were being worked at that time. At the mines of the "tresta Sverdlovugol'" (Sverdlov Coal Trust), the use of the pillar system has permitted an increase in the advance of the galleries from 28 m to 36.5 m. Further progress in the coal industry is seen in the decrease in delivery of rock to the surface. This accomplishment has required the introduction of all manner of methods for working wider passages. In the Voroshilovgrad coal district, 25 mining operations are conducted by wide passages; in the Donbass anthracite field, 20 such operations are in use. The conference recommended the expansion of working the coal beds in the Donbass by long pillars (longwall method) along the strike and to change to driving drifts by wide passages.

Card 2/2

88716

12 2000

s/127/60/000/007/004/011 BO12/BO52

AUTHORS:

Vlasov, M. I., Mining Engineer, Golovin, Yu. P., Mining

Engineer, and Baryshev, V. M., Mining Engineer

TITLE:

Sinking of horizontal workings by blowing-up deep boreholes

section by section

PERIODICAL:

Gornyy zhurnal, no. 7, 1960, 39-40

TEXT: In the mines of Gornaya Shoriya, horizontal workings with small holes are advanced by applying cone and line cut. In the Temir-Tau Mine, annually 8420 m are advanced. The monthly average lies between 25 and 30 m. Very economical data were attained by blowing up deep boreholes for advancing upsets. Experience gained in advancing horizontal workings was applied to experiments. The main parameters of drilling and blasting work applied to experiments. The main parameters of artiffing and office were determined. From June to September, 1959, three horizontal workings with a total length of 80 m were advanced by deep boreholes. The hardness with a total length of 80 m were advanced by deep boreholes. Of the rock was 16-18, and that of ore 15-16 according to Protod'yakonov. Fig. 1 shows the scheme of the charge in various sections of boreholes, Fig. 2 gives the sequence of explosions in the boreholes. The optimum depth

Card 1/3

88716

S/127/60/000/007/004/011 B012/B052

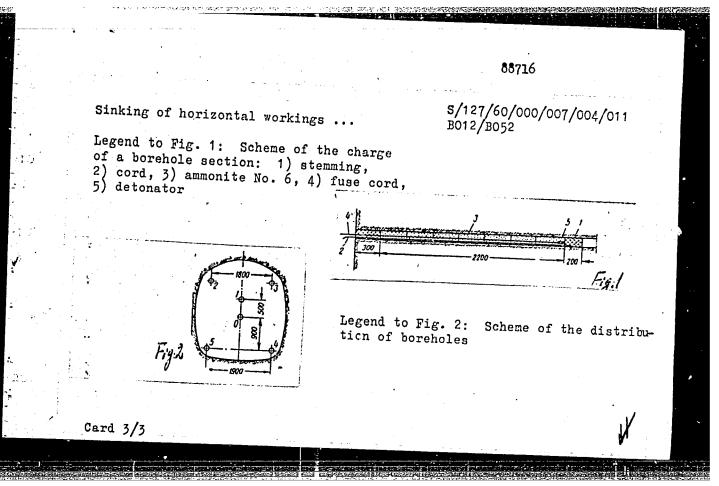
Sinking of horizontal workings ...

of boreholes was found to be between 12 and 20 m; thus, the deviations were reduced to a minimum of 20 cm, and the drilling speed was not reduced. The experiments showed that the most economical method is that of advancing workings with cross sections between 4 and 6 m² by six boreholes (Fig. 2) workings with cross sections between 4 and 6 m² by six boreholes (Fig. 2) workings with are cut holes. One of the difficulties in this system is the two of which are cut holes. The method of advancing horizontal workings heavy air blow in the passage. The method of advancing horizontal workings by blowing up deep boreholes section by section is recommended for solid, by blowing up deep boreholes section by section is recommended for solid, by blowing up deep boreholes section by section is recommended for a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little cracked rock. The above method leads to a 2.5 to 3-viscous, and little

ASSOCIATION:

Rudnik Temir-Tau, Kemerovskoy obl. (Temir-Tau Mine of the Kemerovskaya oblast') Vlasov, M. I.; VostNII, Stalinsk (Eastern Scientific Research Institute for Industrial Safety in the Mining Industry, Stalinsk) Golovin, Yu. P., and Baryshev, V. M.

Card 2/3



VIASOV, M.I., gornyy inzh.; GOLOVIN, Yu.P., gornyy inzh.; RARYSHEV,
V.M.

Drift mining using the method of sectionalized deep hole
blasting. Gor.zhur. no.7:39-40 Jl '60. (MIRA 13:7)

1. Rudnik Temir-Tau Kesserovskoy oblasti (for Wlasov).
2. Vostochmyy nauchno-issledovatel'skiy institut po bezopasnosti rabot v gornoy promyshlennosti, Stalinsk (for Golovin,
Baryshev).

(Mining engineering)

BOIDTREV, Vitaliy Ivanovich; VIASOV, Mikhoil Vasil'yavich; KUZNETSOVA,
H.I., red.; RAKOV, S.I., tekhn.red.

[Finances of trade unions; collection of regulations] Financovaia rabota profesoiuzov; sbornik rukovodiashchikh materialov. Moskva.

Izd-vo VI-SPS Profizdat, 1960. 302 p.

(Trade unions--Finance)

VLASOV, Mikhail Vasil'yevich; BAL'ZAMOV, Dmitriy Farmenovich; ZHUKOV,
Fedor Trofimovich; SEMENOV, S.M., red.; ANDREYEVA, L.S.,
tekhn. red.

[Auditing committee of a factory and plant local committee] Revizionnala komissiia FZMK. Moskva, Profizdat, 1962. 63 p.
(Bibliotechka profesiuznogo aktivista, no.5(29)) (MIRA 15:5)

(Trade unions) (Auditing)

DROKIN, A.I.; DYLGEROV, V.D.; SUDAKOV, N.I.; VIASOV, M.V.

Rotational hysteresis loss in single crystals of magnesium-manganese ferrates as dependent on the magnetic field strength and temperature. Izv.vys.ucheb.zav.;fiz.no.2:141-144 '63. (MIRA 16:5)

1. Institut fiziki Sibirskogo otdsleniya AN SSSR, Institut tsvetnykh metallov imeni M.I. Kalininai Krasoyarekiy pedagogicheskiy institut. (Hysteresis) (Magnesium ferrates—Magnetic properties) (Manganese ferrates—Magnetic properties)

VLAS	DV, M.N.	
	The Western Siberian Branch. Izv. ASiA no.2:128-130 '61. (MIRA 15:1)	
	1. Rukovoditel' Zapadno-Sibirskogo filiala Akademii stroitel'stva i arkhitektury SSSR. (Building)	
		•

VLASOV, M.V., nauchnyy sotrudnik; LUKPANOV, Zh.L., nauchnyy sotrudnik

New data on controlling the cutworm Hadena basilinea. Zashch. rast. ot vred. i bol. 6 no.8:24 Ag '61. (MIRA 15:12)

1. Kazakhskiy institut zashchity rasteniy, pochtovoye otdeleniye Kargalinka.

(Kazakhstan—Gutworms—Extermination) (Kazakhstan—Grain—Diseases and pests)

8/0139/63/000/002/01/1/01/4

ACCESSION NR: AP3000937

AUTHORS: Drokin, A. I.; Dywlgerow, V. D.; Sudakow, N. I.; Vlasov, M. V.

TITLE: Dependence of rotery hysteresis loss in magnesium-manganese ferrite single crystals on the magnitude of magnetic field and temperature

SOURCE: Izv. VUZ. Fizika, No. 2, 1963, 141-144

TOPIC TAGS: magnetic hysteresis, ferrite, single crystal, mechanical moment, magnetic field

AESTRACT: Rotary magnetic hysteresis loss has been studied on the (100) plane of mognesium-manganese ferrite single crystals, together with the dynamics of rowder figures in the rotary magnetic field. The rotary loss was investigated by measuring the mechanical moment acting on single crystal ferrite pellets placed in a homogeneous magnetic field slowly rotating in forward and reverse directions. Field strength varied between 0 to 4000 oersteds at temperatures from -183 to 100C. The powder figures were photographed through a MBI-6 microscope. The results show that anisotropy in the single crystal plane (100) at 700 cersteds and up and the rotary hysteresis loss increase with increase in field strength, reaching a maximum around 900-1250 oersteds and subsequently decreasing. The authors express their gratitude

Card 1/2

ACCESSION NR: AF3000937

to A. G. Titova for procuring the single crystils." Orig. art. has: 4 figures.

ASSOCIATION: Institut fiziki SO AN SSSR (Institute of Physics SO AN SSSR); Institute tsvetny*kh metallov im. M. I. Kalinina Krasnoyarsky pedinstitut (Institute of Nonferrous Metals, Krasnoyersk Teachers Institute)

SUBMITTED: 30Jan62

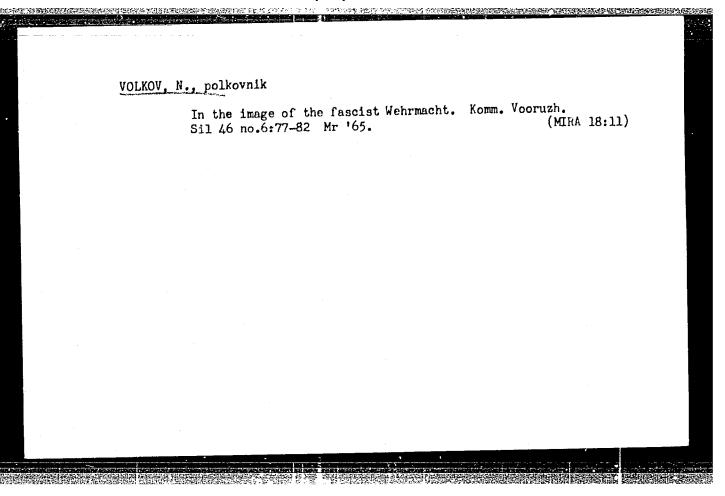
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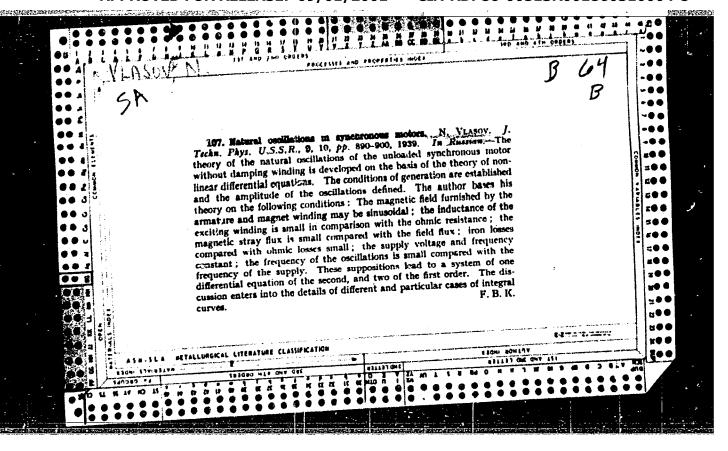
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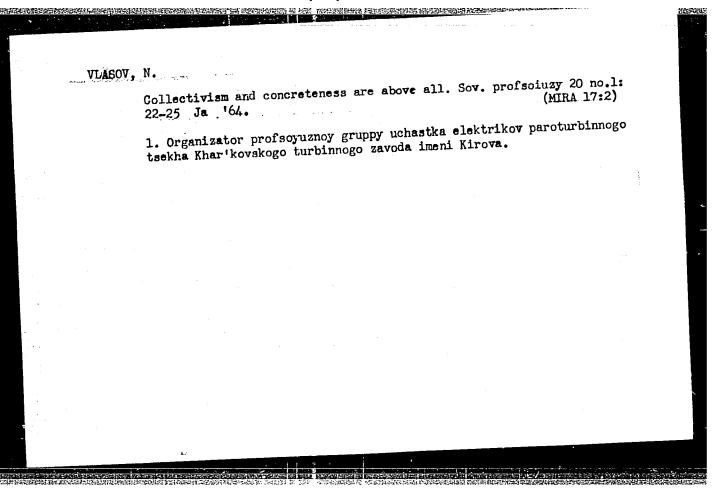
SUB CODE: MA

NO REF SOV: 008

OTHER: 003







N. VLASOV, A. NIZHEGORODOV

"Utilize More Fully the Reserves of Increase the Smelting of Steel" report of the All-Union Conference of steel Emalters in approphye.

SO: 5 April 55, Yellow Report No. 66 Pg cc7

WLASOV, N., nachal'nik.

Rural motion-picture establishments in Transcarpathia. Kinomekhanik no.9:
(NLEA 6:9)
7-8 S '53.

1. Otdel kinofikatsii Zakarpatskogo oblupravleniya kul'tury, Uzhgorod.
(Transcarpathia--Moving-picture projection) (Moving-picture projection
(Transcarpathia)

VLASOV, N.

USSR
Brendeyevskiy Peat Works, Yaroslavl Province (1950)

"What is Delaying Mechanization of Peat Extration?", Pravda, 1950.

Current Digest of the Soviet Press, Vol. 2, No. 20, 1950, page 46.

(In Library)

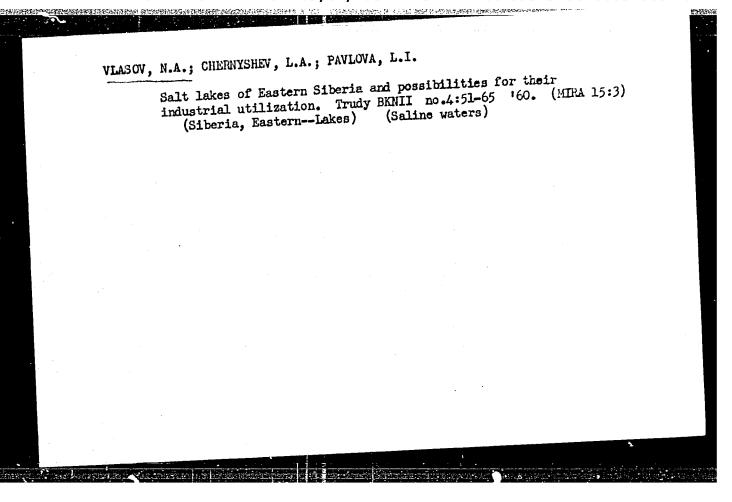
KARATAYEV, N.K., doktor ekon.nauk; POLYANSKIY, P.Ya., doktor istor.nauk;
TSAGOLOV, N.A., doktor ekon.nauk; VLASOV, N.A., kand.ekon.nauk
[decessed]; KORNIYENKO, A.A., kand.ekon.nauk; MOROZOV, F.M.,
kand.ekon.nauk; PLITSYNA, K.T., kand.ekon.nauk; PODOROV, G.M.,
kand.ekon.nauk; CHUBUK, I.F., kand.ekon.nauk; PASHKOV, A.I., red.;
ZHUK, I., red.; MOSKVINA, R., tekhn.red.

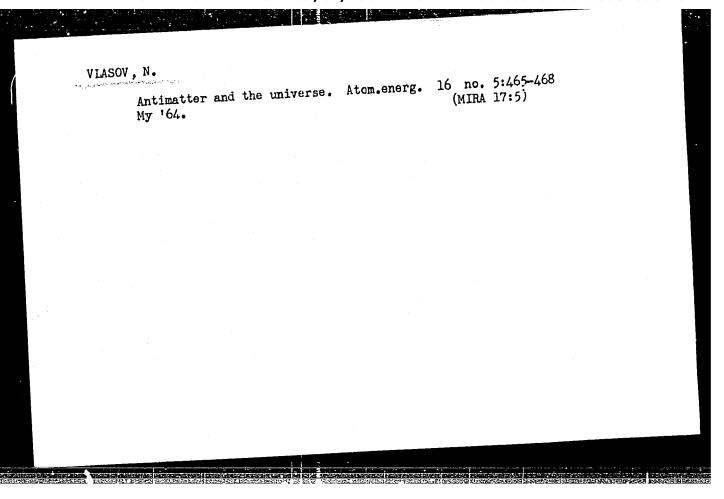
[History of Russian economic thought] Istoriia russkoi ekonomicheskoi mysli. Pod red. A.I.Pashkova i N.A.TSagolova. Moskva.

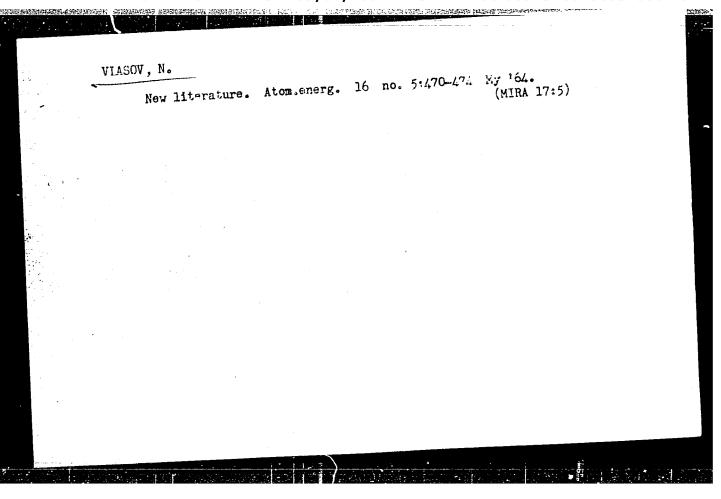
Izd-vo sotzial no-ekon.lit-ry. Vol.2. [Epoch of premonopolistic
capitalism] Epokha domonopolisticheskogo kapitalizma. Pt.1.

1959. 526 p. (MIRA 13:5)

1. Akademiya nauk SSSR. Institut ekonomiki. (Economics)







. 42179-66 EWT(1)/EWT(m)/FSS-2 CW SOURCE CODE: UR/9007/66,	/000/112/0004/0004
ACC NR: AN6030516	12
AUTHOR: Vlasov, N. (Professor)	1/
ORG: none	23
TITLE: Nuclear flame spectra SOURCE: Komsomol'skaya pravda, 14 May 66, p. 4, col. 2-4	
TOPIC TAGS: proton, alpha particle, nuclear latitudes, positron, hyper cyclotron, heavy nucleus, ion acceleration, neutron, positron, hyper radio astronomy ABSTRACT: A comparison is drawn between the microcosm of the stome accordance of the universe. Inside the sun and other stars protons macrocosm of the universe. Inside the sun and other stars protons to form alpha particles (holium nuclei), enabling the sun to emit enter form alpha particles (holium nuclei).	and the combine normous ar fuel
(Hydrogen), illuminate the universe. Alter the rises, and the collapse from gravitational forces, the temperature rises, and the collapse from gravitational forces, the temperature rises, and the collapse from gravitational forces, the temperature rises, and the collapse from gravitational forces, the temperature rises, and the collapse from gravitational forces, the temperature rises, and the collapse from gravitational forces, the temperature rises, and the collapse from gravitational forces, the temperature rises, and the collapse from gravitational forces, the temperature rises, and the collapse from gravitational forces, the temperature rises, and the collapse from gravitational forces, the temperature rises, and the collapse from gravitational forces, the temperature rises, and the collapse from gravitational forces, the temperature rises, and the collapse from gravitational forces, the temperature rises, and the collapse from gravitational forces, the temperature rises, and the collapse from gravitational forces, the collapse from gravitation gravitational forces from gravitational from gravitati	nellum burns se den- ars are
much heavier than those misses on earth, but their decay he pro	duced in
ou, such isotopes a conditions, such isotope a conditions	ng very
principle on earth, but this requires the capated particles as hea	which
dense stars owing to special converges the capability of accelerated principle on earth, but this requires the capability of accelerated particles as heatheavy nuclei. Prof. G. N. Flerov has accelerated particles as heatheavy nuclei. Prof. G. N. Flerov has accelerated particles as heatheavy nuclei. Prof. G. N. Flerov has accelerated particles as heatheavy nuclei.	0918 1598
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Card 1/2	

L 42179-56

ACC NR: AN6030516

are sixfold heavier, requires quite different techniques.

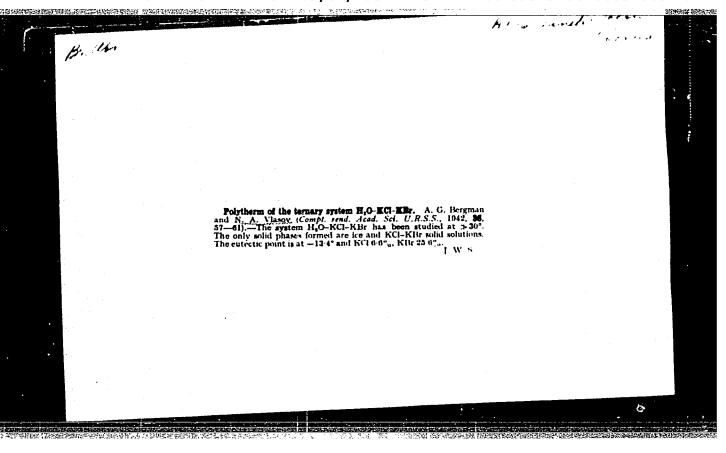
Even in sun-type stars protons are converted into neutrons, and positrons and neutions are radiated. Eventually this may conclude with the formation of a neutron star (with no protons). Such stars are millions of times denser than white dwarfs and approach the densities of atomic nuclei.

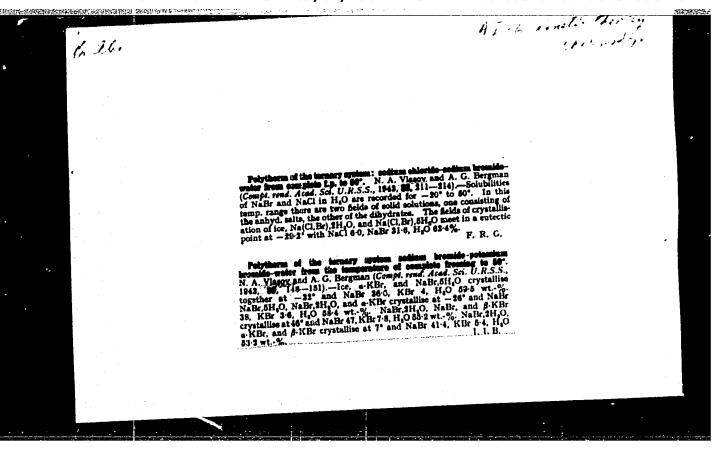
Recently, about 10 X-ray stars have been discovered with the aid of rocket probes. First thought to be neutron stars, they were later found to be too large. Academician V. A. Ambartsumiyan has shown that neutrons in very dense stars must convert at some evolutionary stage into heavy stable hyperons.

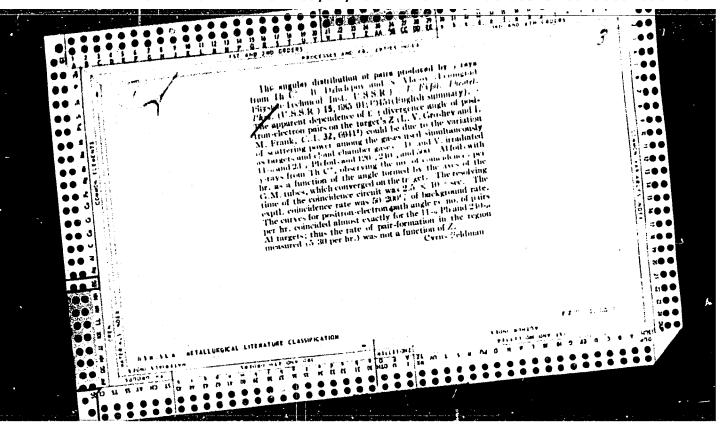
A new unitary symmetry system has been created for arranging elementary particles in the manner of the Mendeleyev periodic table. This system was used to predict the omega minus hyperons and a new class of primary heavy particles called quarks. If quarks do exist, they will help to explain astrophysical phenomena and the superdense states of matter. Collisions of heavy high-energy particles yield large numbers of other particles of various masses.

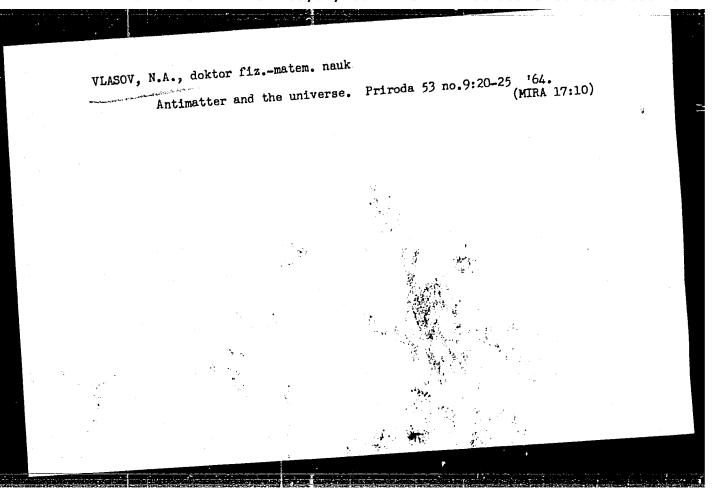
The combination of new methods, optical and radioastronomic, led to the discovery of exploding super giants and galaxies, with energy yields equivalent to hundreds of millions of suns. If man can duplicate nuclear conversions as effectively as they occur in nature, the knowledge to be gained, appearing to be fantastic at the moment, will be quite realizable. Orig. art. has: 1 figure. [JPRS: 36,364]
SUB CODE: 20, 03 / SUBM DATE: none

Card 2/2

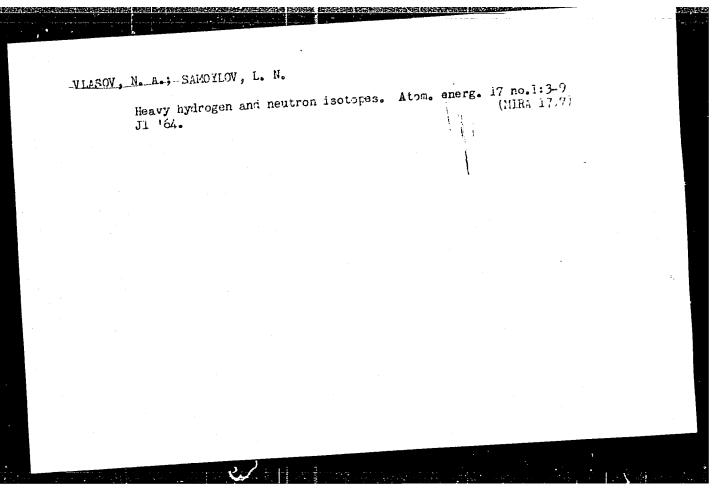








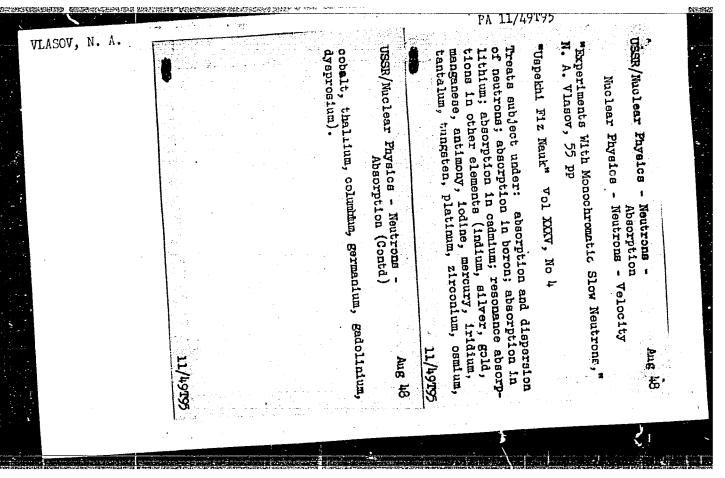
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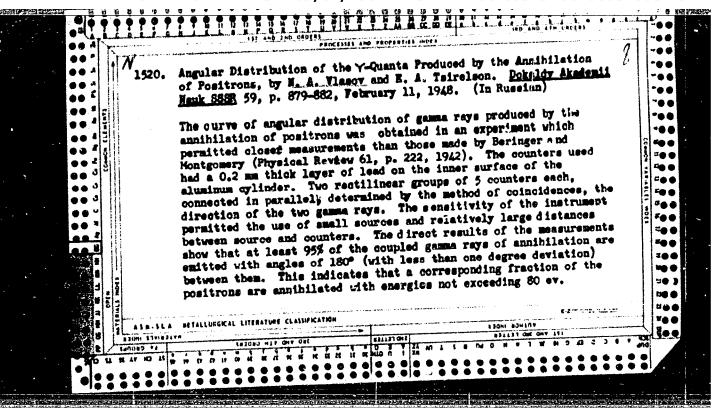


TA 11/49T94 VI.ASOV, N. A. USSR/Nuclear Physics - Neutrons - Cources Jul 48 Nuclear Physics - Neutrons - Velocity "Experiments With Monochromatic Slow Neutrons," N. A. Vlasov, 32 pp "Uspekhi Fiz Nauk" Vol XXXV, No 3 Treats subject under: mechanical selector; brief historical review; principles of construction of selector-modulators (source, detector, synchronizing devices); spectra of slow neutrons. (To be concluded in next issue.) 11/49794

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860310004-8





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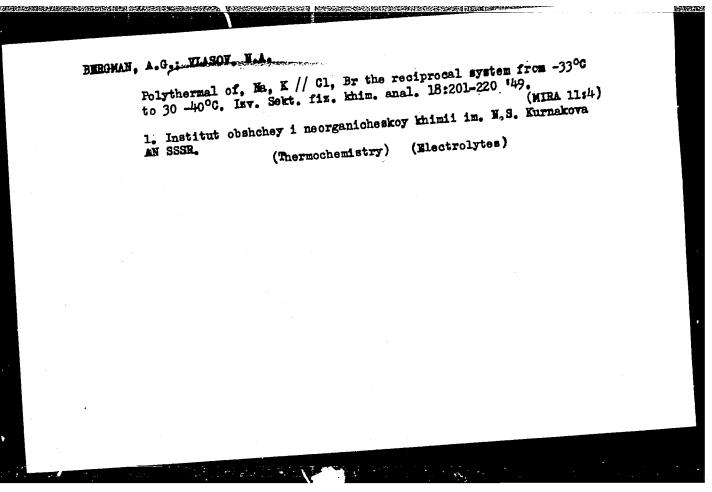
VLASOV, N.A.

BERGMAN, A.G.; VLASOV, N.A.

Homeomorphism of potassium halide salts and polytherms of ternary systems KC1 - KBr - H20, NaC1 - NaBr - H20, NaBr - KBr -H₂O, and NaCl -- ECl -- H₂O. Izv.Sekt.fiz.-khim.anal. 17:312-337 149.

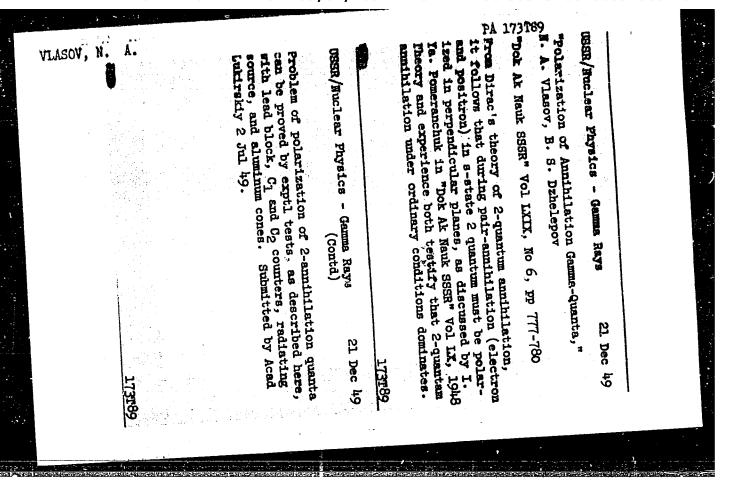
1. Institut obshchey i neorganicheskoy khimii [im. N.S.Kurnakova] Akademii nauk SSSR. 2. Laboratoriya rasplavlennykh soley i mnogokompo-(Potassium salts) (Halides) (Systems(Chemistry) nentnykh sistem.

Lat. Fused Salts or multiconginest

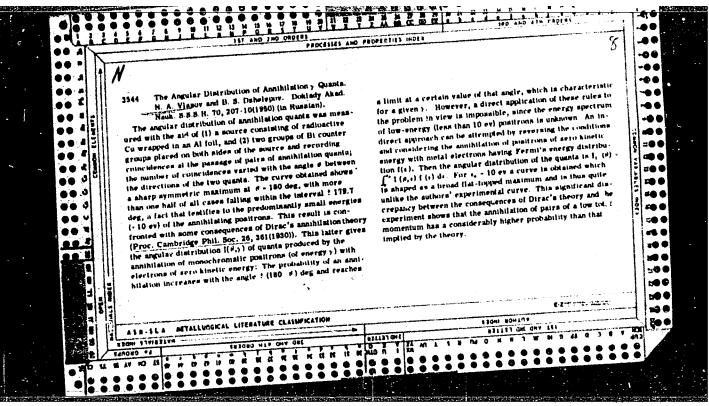


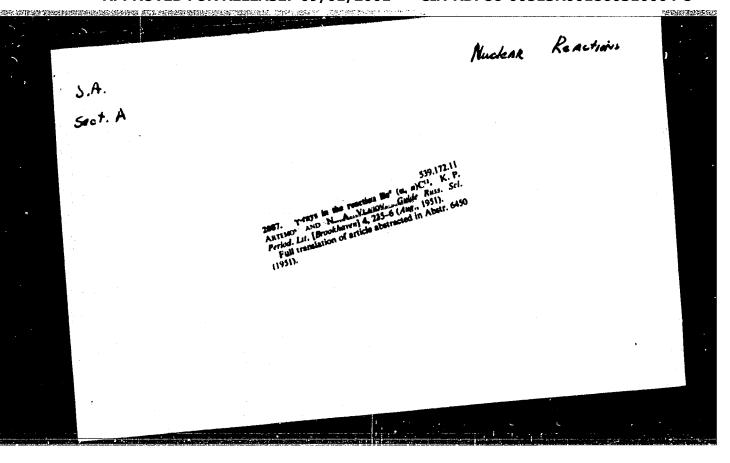
"APPROVED FOR RELEASE: 09/01/2001

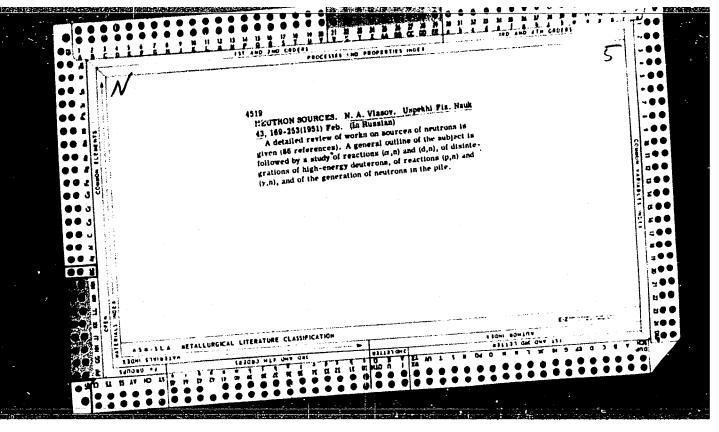
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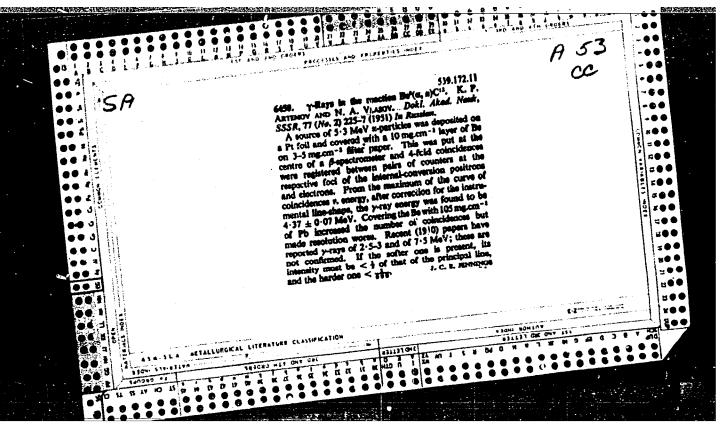


USSR/Nuclear Physics - Ge "Angular Distribution and tion Gamma-Radiation," No tion Gamma-Radiation, "No tion Gamma-Radiation," No tion and Sci USSR, Ser Find: "Iz Ak Nauk SSSR, Ser Find: "Iz Ak Nauk SSSR,
SSR/Nuclear Physics - Gamma Rays Angular Distribution and Folarization of Annihilation Gamma-Radiation," N. A. Vlasov, Radium Inst, Jion Gamma-Radiation," N. A. Vlasov, Radium Inst, Jion Gamma-Radiation," N. A. Vlasov, Radium Inst, Jion Ak Hauk SSSR, Ser Fiz" Vol XIV, No 3, pp 337-356 "Is Ak Hauk SSSR, Ser Fiz" Vol XIV, No 3, pp 337-356 "Equantum annihilation of quanta formed during Rasulus show that the mean value of the angle of Passisting annihilation of positrons and electron. Results show that the mean value of the angle of American Color of the Solitons of the State of the Annihilation quanta Instituted Physics - Gamma Rays USSR/Nuclear Physics and by A. V. Sorokina in measurements. Submitted 24 Apr 50 at session in measurements. Submitted 24 Apr 50 at session in measurements. Submitted 24 Apr 50 at session of the Dept of Physicomath Sci, Acad Sci USSR. of the Dept of Physicomath Sci, Acad Sci USSR.









VLASOV, Mikolay Aleksandrovich; LUKIESKIY, P.I., akademik, redaktor [daceased]; ALEKSEIEV, D.M., redaktor; BOVOZHILOV, Yu.V., redaktor; GAVRILOV, S.S., tekhnicheskiy redaktor.

[Neutrons] Neitromy, Pod red. P.I. Lukirekogo. Moskva, Gos.
1.d-vo tekhniko-teoret. lit-ry, 1955. 426 p. (MLRA 8:10)

(Neutrons)

FD-2337 VLASOV, N.A.

USSR/Nuclear Physics - Tritium

Pub. 146 - 2/34

: Vlasov, N. A.; Kalinin, S. P.; Ogloblin, A. A.; Samoylov, L. N.; Card 1/2'

Sidorov, V. A.; and Chuyev, V. I. Author

Interaction of protons with tritium, and the excited state of Title

helium-4

: Zhur. eksp. i teor. fiz. 28, 639-650, Jun 1955

The authors describe experiments investigating the reactions T(pn) Periodical He3 and T(py)He in the interval of proton energies up to 7 Mev. Abstract

The energy of the protons in the beam from the cyclotron chamber was varied by way of slowing in lead filters. Serving as detecectors of the neutrons were so-called all-wave counter and uranium chamber; a scintillational counter served as detector of the gamma rays, with NaI(T1). The curve of cross-section, sigma, versus proton energy, Ep, for the first reaction possesses a maximum at $E_{\rm p}$ =3 MeV. For the second reaction the cross-section increases monotonically in the entire energy interval. Also investigated were the angular distributions of neutrons and gamma rays, The characteristics of the excited state of helium-4 are discussed.

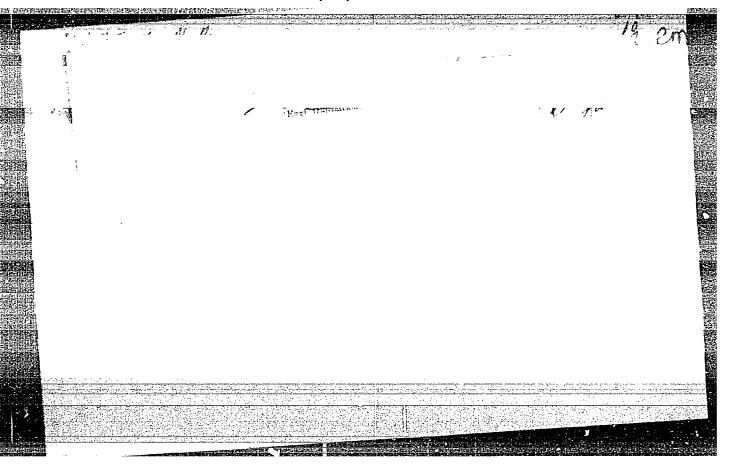
The authors thank the associates of the Cyclotron Laboratory, and

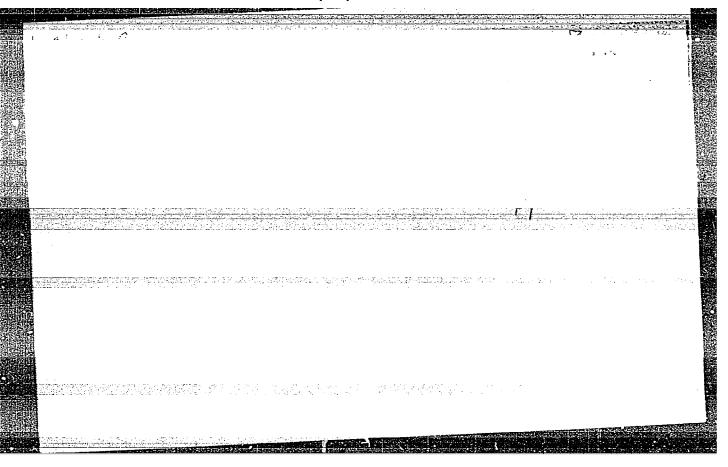
also Ya. A. Smorodinskiy, A. I. Bas', and Yu. M: Popov. Fourteen references, including 2 USSR (B. V. Rybakov, same issue, p. 651; A. I. Baz' and Ya. A. Smorodinskiy, ibid. 27, 382, 1954).

Institution: Academy of Sciences USSR

Submitted: March 9, 1955

VIASOV,	U.A. Conference on the physics of nuclear fission. Atom.energ. no.1 (MLRA 9: 99-102 156.				: 8)	
	99-102 156. (Mosc	owNuclear fissio	nCongresses)		





USSR/Nuclear Physics - Structure and Properties of Nuclei

C-4

Abst Journal: Referat Zhur - Fizike, No 12, 1956, 33990 Author: Bogdanov, G. F., Vlasov, N. A., Kalinin, S. P., Rybakov, B. V.

gidorov, V. A.

Institution: None

Title: Spectra of Neutrons Bombarded with T and D Deuterons with

Energies of 14 Mev

periodical: Zh. eksperim. i teor. fiziki, 1956, 30, No 1, 185-187

To check the existing experimental data on the existence of an excited state of approximately 2 Mev in the He4 nucleus, spectra were studied of neutrons produced by the T(d,n) He⁴ and D(d,n) He³ reactions, with the neutrons escaping at an angle of 0° relative to the beam of the deuterons. The beam of the 14 Mev deuterons was focused with the aid of a magnetic prism at a distance of 12 m from the cyclotron, where a thin tritium-zirconium or a gas deuterium target was placed. The energy of the neutrons

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USSR/Nuclear Physics - Structure and Properties of Nuclei

C-4

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 33990

was measured from the time it took them to cover the distance from the target to the counter, the latter being a photomultiplier with a solid solution of terphenyl in polystyrol acting as a phosphor. The neutron source was operating under pulse conditions based on the natural modulation of the cyclotron beam. The pulses from the counter went to a germanium-diode coincidence circuit. Pulses, synchronized with the accelerating voltage of the cyclotron were applied to the second leg of the coincidence circuit. The time resolution of this spectrometer (width of gamma line at half the altitude) amounted to 7 m μ seconds.

The spectrum of the neutrons from the T(d,n) He⁴ and D(d,n)He³ reactions displayed not only the maxima corresponding to the formation of the He⁴ and He³ nuclei in their fundamental states but also wide groups of slower neutrons with an average of energy of 8 Mev. For the T+d reaction this energy corresponds to an excitation energy of finite nucleus of approximately 22 Mev. However, the similarity of the spectra in

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USSR/Nuclear Physics - Structure and Properties of Nuclei

C-4

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 33990

the case of both reactions is indication in favor of the assumption that the second groups of neutrons are formed faster by a break-up of the deuteron than by the usual reaction with a formation of a finite nucleus He⁴ and He³ in excited state. Notice is taken of the large value of the cross section for the formation of the neutrons of the second groups. This amounts to 300 millibarns/steradian for the case of the T + d reaction, and 100 millibarns/steradian for the case of the D + d reaction.

Card 3/3

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860310004-8

C-5

VLASOU, N.A.

Category : USSR/Nuclear Physics - Nuclear Reactions

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3252

: Bogdanov, G.F., Vlasov, N.A., Kalinin, S.P., Rybakov, B.V., Sidorov, V.A.

: Spectra of Neutrons Produced by Bombarding Light Nuclei with 14 Mev Author

Title Deuterons.

Orig Pub : Zh. eksperim. i teor. fiziki, 1956, 30, No 5, 981-983

Abstract: Using the time of flight method, a measurement was made of the spectra of reutrons produced by bombarding thin targets of H, He³, He⁴ (E_d 13.0 Mev) and T (in zirconium), Ii, Be, B, C, Cu (E_d 14.4 Mev) produced by bombardment with a beam of dauterons from a cyclotron. The measurements were made at an angle of 0° to the deuteron beam. The reactions T+ d and He3 + d differ both in the shape of the neutron spectrum, as well as in the value of the cross section (in the former case the cross as in the value of the cross section (in the former case the cross section is almost three times greater). This confirms the existence of an excited state with excitation energy of 22 Mey in the He nucleus and an excited state with excitation energy of 22 Mey in the He nucleus and indicates the absence of a similar state in the Li¹ nucleus. Consequenting the isotopic spin of the excited state of He is zero. It is noted that the residue of the excited state of He is zero. that the neutron spectrum of the reaction He3 + d does not display the hypothetical level of the Iii nucleus with an approximate excitation

: 1/2 Card

Gategory : USSR/Nuclear Physics - Nuclear Reactions

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3252

C-5

energy of 2.5 Mev, corresponding to the spin-orbit splitting. The cross sections of the formation of neutrons escaping at 0° to the deuteron beam are estimated. This cross section is approximately 50 millibarns/steradian per nucleon for all the light elements investigated, with the exception of T, i.e., it is approximately proportional to the number of nucleons in the nucleus. The cross section diminishes for the heavier elements; it is only 200 millibarns/steradian for Cu.

Card : 2/2

VLASOV, N. A., OGLOBLIN, A. A.

Acad. Sci USSR

"The Li⁷ (p, t) Li⁵ (Reactio n,"

paper submitted a6 the All-Union Conf. on Nuclear Reactions in Medium and Low Energy Physics, Moscow, 19-27, Nov. 1957.

VLASOV, N.A., BOGDANOV, G.F., KALININ, S.P., RYBAKOV, B.V., SIDOROV, V.A.

"The (P.n.) Reaction on Lithium and the Ground State of Be 6 ."

paper submitted at the All-Union Conf. on Nuclear Reactions in Medium and Low Energy Physics, Moscow, 19-27 November 1957.

Visually, is. As, Distinguit, G. 2s, Relight, G. P., Ribanov, B. V., and SIDOROV, V. A.

"Time-of-Fight Analysis of the Reaction of 18 Mev Deuterons with Light Muclei," a paper submitted at the International Conference on the Neutron Interactions with the Incheus, New York City, 9-13, Sep 57.

Abstract available in C-3,800,344

VLASOV, N. A., BOGDANOV, G. F., KALIHIH, S. P., HIBAKOV, B. V., and SIKONOV, V. A.

"The Spectra of the Fast Meutrons from (p,n) Reactions are Measured on the 1.5 Meter Cyclotron by the Time-of-Flight Method," a paper presented at the International Conference on the Neutron Interactions with the Mucleus, New York City, 9-13 Sep 57.

Abstract Available in C-3,800,344

AUTHOR: VLASOV, N.A., KALININ, S.P., OGLOBLIN, A.A. PA - 2262 PANKRATOV, V.M., RUDAKOV, V.P., SERIKOV, I N. SIDOROV, V.A. The Excitation Curves of the Reactions Mg 24 (d, A) Na 22, TITLE: $\text{Fe}^{54}(d, \alpha) \text{Mn}^{52}$, $\text{Fe}^{54}(d, n) \text{Co}^{55}$, and $\text{Zn}^{66}(d, 2n) \text{Ga}^{66}$. (Krivyye vozbuzhdeniya reaktsiy Mg²⁴(d, x)Na²², Fe⁵⁴(d, x)Mn⁵², Fe⁵⁴(d, n)Co⁵⁵ i Zn⁶⁶(d,2n)Ga⁶⁶. Russian) Atomnaia Energiia, 1957, Vol 2, Nr 2, pp 169 - 171 (U.S.S.R.) PERIODICAL: Received: 3 / 1957 Reviewed: 5 / 1957 These excitation curves were measured by means of the stacking ABSTRACT: method on the deuteron bundle of a cyclotron. The arrangement of the foil stacks is shown by a drawing. For the measuring of the deuteron flux the target consisting of a stack of Mg-, Fe- or Zn foils was connected with a current integrator. The activity of the samples irradiated was determined by means of a Geiger counter. The reaction $Mg^{24}(d,\propto)Na^{22}$: The magnesium foil of 50 micron thickness was produced by rolling. When bombarding a natural mixture of magnesium isotopes one obtains Na^{22} not only by the reaction (d,\propto) on Mg^{24} (cintent 78,60%) but also by the reaction (d,∞) on Mg25 (content 10,11 %). The energies of these reactions are + 1,9 and - 5,4 MeV. Measuring was carried out one month after irradiation i.e. after the decrease of the foreign activities. The excitation curve obtained after irradiation is shown in a diagram. Card 1/3

The Excitation Curves of the Reactions $Mg^{24}(d,\alpha)Na^{22}$, $Fe^{54}(d,\alpha)Mn^{52}$, $Fe^{54}(d,n)Co^{55}$, and $Zn^{66}(d,2n)Ga^{66}$.

At ~10 MeV the curve has a sharp maximum which is probably quite real. The yield of Na²² on the occasion of the bombardment of a thick magnesium target by 14 MeV-targets amounts to 6,0-10-4 atoms per deuteron or 3,1 microcurie/microampere hour (?)

The reaction Fe⁵⁴(dP)Mn⁵²: As iron has 4 stable isotopes it supplies many activities with many periods when bombarded by deuterons. Mn^{52} forms only at the reaction Fe⁵⁴(d, α) Mn^{52} in the ground state and in metastable states (half life 6,0 Tgae and 21 minutes). Here the yield of Mn⁵² is measured in the ground state. The excitation curve obtained at the irradiation of two stacks is shown in a diagram; it rises almost linearly with growing deuteron energy. The yield of Mn52 at the bombardment of a thick iron target by 14 MeV-deuterons amounts to 4,6.10-5 atoms per deuteron or 34 microcurie/microampere hour (?).

The reaction $\text{Fe}^{54}(d,n)\text{Co}^{55}$: The excitation curve of this reaction has a sharp maximum at E 7 MeV.

The reaction $\text{Zn}^{66}(d,2n)\text{Ga}^{66}$ has an excitation curve that rises linearly with growing deuteron-energy. Also the yields of Co55

Card 2/3

The Excitation Curves of the Reactions PA - 2262 ${\rm Mg}^{24}({\rm d}, \propto) {\rm Na}^{22}$, ${\rm Fe}^{54}({\rm d}, \propto) {\rm Mn}^{52}$, ${\rm Fe}^{54}({\rm d}, n) {\rm Co}^{55}$, and ${\rm Zn}^{66}({\rm d}, 2n) {\rm Ga}^{66}$. and ${\rm Ga}^{66}$ at the last two reactions were given. (5 illustrations)

ASSOCIATION:

Not given.

PRESENTED BY:

SUBMITTED:

13.10.1956.

AVAILABLE:

Library of Congress.

Card 3/3

VLASOV N.A.

AUL HOR

BOGDANOV, G.F., VLASOV, N.A., KALININ, S.P., RYBAKOV, B.V., 89-9-2/32

TITLE

The Li(p,n)Be reaction and the Fundamental Structure of the Be6

(Reaktsiya(p,n) na litii i osnovnoye sostoyaniye yadra Be⁶) Atomney: Energiya, 1957, Vol 3, Nr 9, pp 204 - 210 (U.S.S.A.)

PERIODICAL ABSTRACT

By means of the time of flight method the neutron spectrum emitted. by the reactions Li6+p and Li7+p = 9 MeV is measured. Further, the redistribution of neutrons and the reaction cross sections were mea-

1) Li6(p,n)Be6

a) $Q_0 = -5, 2 \pm 0, 2$ MeV b) the natural breadth of the ground state $\Gamma < 0, 3$ MeV c) angular distribution of neutrons: $\sigma(\theta) = 0, 19 + 0, 23 \cos(\theta) + 0, 70 \cos^2(\theta) \ln b / s teradian$

d) mass defect of Be6 = 20.3 ± 0.2 MeV

e) Reaction cross section for the ground state at Ep=9 MeV o=5 ± 1 mb 2) Li7(p,n) Be7

a) The neutrons corresponding to the ground state, the level with

0,43 MeV and 4,65 MeV were found,

b) The angular distribution for the neutrons of the ground state and the 1st level is $\sigma(\theta) = 6.8+2.4 \cos^2(\theta) m \delta/\text{steradian}$

Card 1/2

c) The total reaction cross section (forming of ground state and 1st

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R00 The Li(p,n) Be Reaction and the Fundamental Structure of CIA-RDP86-00513R001860310004-8" the Be6 Nucleus.

level) at Ep = 9 MeV: o = 100 + 20mb 89-9-2/32

3) The neutrons of the following reactions were observed: $Li^{6}(p,pn)$ Li⁵ Li⁶(p,2pn) He⁴.

(8 illustrations and 3 Slavic references).

ASSOCIATION Not Given.

PRESUNTED BY

SUBMITTED 1.6.1957

AVAILABLE Library of Congress. Card 2/2

RYABAKOV, Boris Vasil'yevich; SIDOROV, V.A.; VLASOV, N.A., red.

[Spectrometry of fast neutrons] Spektrometriia bystrykh neitronov. Pod red. N.A. Vlasova. Moskva, Izd-vo Glav. upr. po ispol'zovaniiu atomnoi energii, 1958. 175 p. (MIRA 14:11)

(Neutrons)

VIASOV, N. A.; Rudakov, V. P.

Correlation angulaire beta-gamme dans la desintegration de 139 Ba et signe du quotéent des constantes de la desintegration beta."

Vlasov, N. A. and Oglobin, A. A., "Reaction (d,t) sur les noyaux 6_{LI, 7_{Li, 9_{Be.}7</sup> report presented at the Intl. Congress for Nuclear Interactions (Low Energy) and Nuclear Structure (Intl. Union Pure and Applied Physics) Paris, 7-12 July 1958.}}

21(3) AURHOR:

Vlasov, N. A.

SOV/89S-58-6-1/33

TITLE:

Preface of the Editor (Predisloviye redaktora)

PERIODICAL:

Atomnaya energiya, 1958, Supplement, Nr 6, p 4 (USSR)

ABSTRACT:

The investigation of the interaction of fast neutrons with matter is the best method of investigating the properties of atomic nuclei, which also yields information for the solution of important practical problems concerning the design and the calculation of nuclear reactors. This kind of work, however, contains more methodical assumptions and know-hows than definite experimental results. This may be explained by the difficulties encountered in the construction of such a neutron spectrometer which, with the neutron sources available at present, gives good results. Recently, a way out of these difficulties has been offered by the application of time-offlight methods to the spectrometry of fast neutrons. Thus far-reaching and hitherto inaccessible means of investigation have been made available. The authors of the book under review are pioneers in the field of the investigation of neutron-spectroscopical methods on the basis of the

Card 1/2

time-of-flight principle. By using the 150 cm cyclotron of

Preface of the Editor

SOV/89S-58-6-1/33

the Institut atomnoy energii (Institute of Atomic Energy) they designed and constructed one of the first spectrometers which is obviously the best at present available. For this reason, the chapters devoted to the time-of-flight method are not only a review of papers, but also a report on the experience gathered and new results gathered by the authors. In this book attention is primarily centered on the time-offlight method as the most efficient and promising method. Of the other methods, only the most important ones are mentioned which have not yet lost their importance. This book is the first comprehensive survey in this direction. It comes in very useful for physicists and engineers working with neutrons. The experience gained by the authors of the book under review is already being utilized in the development and the construction of new cyclotrons. It may be hoped that this experience will also be utilized by other laboratories.

Card 2/2

VLASOV.

AUTHORS:

Vlasov, N., Groshev, L., Mostovoy, V., Pevzner, N., 89-1-20/29

TITLE:

Interaction Between Neutrons and Muclei (Vzaimodeystviye neytronov s yadrami).

PERIODICAL:

Atomnaya Energiya, 1958, Vol. 4, Nr 1, pp. 96 - 101

ABSTRACT:

From September 9, to September 13, 1957 an International Conference took place at New York Columbia University, which was attended by more than 200 physicists. A total of 70 lectures was delivered. The most important results are the following: The reaction cross section for $B^{10}(n,\alpha)$, $Li^{6}(n,\alpha)$ and $He^{3}(n,p)$ must be measured with much greater accuracy.

Description of a neutron spectrometer with a pulsating neutron source from a synchrocyclotron. Resolving power obtained:

>0,01 ds/m with a flying distance of 35 m.

A mechanical selector which attains a ray-resolution of 0,01

to 0,015 ms/m
At Nd143 a negative point of resonance was uniquely found: $E_0 = -1,5 \pm 0,5 \text{ eV}; \quad \sigma_0 / 2 = 415 \text{ b}(\text{eV})^2.$

Determination of the yields of various isotopes at the fission of U233 with $E_n=1.8~\rm eV$ and the fission of U235 with $E_n>2~\rm eV$. A three-fold fission of U235 with neutrons in the energy range of from 0,02 to 0,2 eV was not found.

Interaction Between Neutrons and Nuclei.

89-1-20/29

A magnetic spectrograph was built for the purpose of measuring the energy of fission fragments. For Pu^{240} resonances at $E_n=1,056$ eV; 20,4 eV and 38,2 eV were found. For Pu^{242} only resonances at 2,65 and 53,6 eV were found up to 1 KeV. For L^{129} and L^{293} no resonance was found within the

range of from 1 to 100 eV.

= 0,9323 + 0,0013or (U235)

= 1,4056<u>+</u>0;0009

for neutrons with Maxwell distribution and $T = 20^{\circ}C$

- 1,5048+0,0009

1,351<u>+</u> 0,0006

 σ_0 for Au : 98,8 \pm 0,3 b $E_n = 2200$ m/sec

 $T_{1/2}$ of $U^{233} = (1,611 \pm 0,008) \cdot 10^{5}a$

 $\sigma_{\rm f}$ for σ^{233} : 524 ± 4 b $E_{\rm n}$ = 2200 m/sec

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CIA-RDP86-00513R001860310004-8" APPROVED FOR RELEASE: 09/01/2001

Interaction Between Heutrons and Nuclei.

89-1-20/29

 $\frac{\int \sigma_{c} \frac{dE}{E}}{\sigma_{c} 2200 \text{ m/sec}} = 25,5 \pm 5,0\% \text{ for Pu}^{240}$

The following reactions are described: $U^{235}(d,p)$; $U^{235}(d,pf)$; $U^{238}(d,p)$; $U^{238}(d,pf)$ $E_d = 14$ MeV

 $U^{238}(n,n^*); U^{235}(n,n^*); Pu^{239}(n,n^*) E_n = 0,55; 1,0 and 2,0 MeV$

 $Fe^{56}(n,n'); I^{127}(n,n') E_n = \sim 1,5 MeV$

F(n, Y) - 15 resonances from 2 to 15 eV were found

(n-p), $(n-\alpha)$, (n-2n) reactions on various elements

D(p,n) $E_d = 3,5 up to 3,9 MeV.$

Furthermore, the / - spectra of the most varied n-/ processes were measured. There are 2 figures.

AVAILABLE:

Library of Congress

Card 3/3

AUTHORS:

Vlasov, N. A., Skvortsov, S. A.

sov/89-5-4-15/24

TITLE:

Physico-Technical Institutions of Norway (Fiziko-

tekhnicheskiye uchrezhdeniya Norvegii)

PERIODICAL:

Atomnaya energiya, 1958, Vol 5, Nr 4, pp 468-471 (USSR)

ABSTRACT:

A Soviet delegation, invited by the director of the Norwegian-Dutch Atomic Institute, visited Norway in May 1958. The Soviet delegation consisted of: I. I. Afrikantov, N. A. Vlasov, and

S. A. Skvortsov.

The authors give a detailed report on this visit.

There are 3 figures.

Card 1/1

ALIKHANOV, A.I., akademik, obshchiy red.; VEKSLER, V.I., akademik, obshchiy red.; VLASOV, N.A., kand.fiz.-mat.nauk, obshchiy red.; DROZDOV, S.I., kand.fiz.-mat.nauk, red.toma; ZAHETSKIY, D.F., kand.fiz.-mat.nauk, red.toma; SMOLYAN, G.I., red.; MAZEL, Ye.I., tekhn.red.

[Nuclear physics; proceedings of the Second International Conference on the Peaceful Uses of Atomic Energy, Geneva, 1958] IAdernaia fizika; trudy Vtoroi mezhdunarodnoi konferentaii po mirnomu ispol'zovaniiu atomnoi energii. Zheneva, 1958. Pod obshchei red. A.I.Alikhanova, V.I.Vekslera i N.A.Vlasova. Moskva, Izd-vo Glav. upr. po ispol'zovaniiu atomnoi energii pri Sovete Ministrov. Vol.l. 1959. 552 p. (Geneva-Atomic energy-Congresses)

"Interaction of Protons and Deutons with Light Nuclei."

report presented at the Intl. Conference on Nuclear Forces and the Few Nucleon Problems, Iondon, 8-11 July 1959.

Moscow

ALIKHANOV, A.I., akademik, red.; VLASOV, N.A., kand. fiz.-mat.nouk, red.; IL'ICHEV, B.I., red.; LABAZNOV, V.I., red.; MAZEL', Ye.I., tekhn. red.

[Transactions. Selected reports by foreign scientists] Trudy. [Izbran-nye doklady inostrannykh uchenykh] Moskva, Izd-vo Glav. uprav. po ispol-zovaniju atomnoj energ. pri Sovete Ministrov SSSR. Vol. 2. [Neutron physics] Neitromaia fizika. Pod obshchei red. A.I.Alikhanova i N.A. Vlasova. 1959. 755 p. (MIRA 14:7)

1. Vtoraya mezhdunarodnaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii, Zheneva, 1958.

(Neutrons)

RYBAKOV, B.V.; SIDOROV, V.A.; VIASOV, N.A., red; ZMURAVLEVA, N.F., red.

[Spectrometry of fast neutrons] Spektrometria bystrykh neitronov.

Moskva, Izd-vo Glav. upr. po ispol'zovaniu atom. energ. pri sovete

ministrov SSSR, 1959. 175 p. (Atommaia energiia, supplement no.6)

(Neutrons—Spectra)

(Neutrons—Spectra)

sov/56-36-1-4/62 Vlasov, N. A., Rudakov, V. P. β - γ Angular Correlation in the Decay of Ba and the Sign of the Ratio of the β -Interaction Constants (Uglovaya 21(8) AUTHORS: B- & korrelyatsiya pri raspade Ba 139 i znak otnosheniya TITLE: konstant / -vzaimodeystviya) Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 1, pp 24-27 (USSR) In the introduction the results obtained by several investi-PERIODICAL: gations of the ratio of interaction constants (gs/gT or gy/SA) carried out by several authors are discussed. With respect to ABSTRACT: the connection between angular correlation and the ratio of these constants, A. Z. Dolginov (Ref 7) showed that the anisotropy coefficient a can be represented in the expression of the angular β - γ correlation $\gamma(\theta)$ = 1+a cos² θ as a function of this ratio and some ratios of matrix elements of β -transition. The latter are written down for the case $\Delta J = 1(cf. Ref 7)$ and discussed. Further, the results obtained by a number of other papers are discussed (Refs 8-12). In reference 8 the angular β - γ -correlation was investigated for the cascade transition between the states $(7/2^-) \xrightarrow{R} (5/2^+) \xrightarrow{\gamma} (7/2^+)$ at Card 1/3

sov/56-36-1-1/62 β-↑ Angular Correlation in the Decay of Ba 139 and the Sign of the Ratio of the B Interaction Constants

E/3 = 2.23 and E_W = 0.163 MeV. The authors investigated it in the decay of Ba¹³⁹ (from the reaction Ba¹³⁸(d,p)Ba¹³⁹). A statistical evaluation of 30 measuring series resulted in the following values for the anisotropy coefficient:

 $a = \{N(\pi) - N(\pi/2)\} / N(\pi/2) = 0.058 \pm 0.023$ (Ba 139 has a half-life of 85 minutes). Control measurements were carried out with the preparations Sc^{46} and Sb^{124} the results of which are also given. Calculation of the anisotropy coefficient was carried out both on the assumption of a mixed vectorial and axial interaction and for a scalar-vectorial mixture. The following was obtained for the constants: $g_S = -g_S^!$; $g_T = -g_T^!$; $g_V = g_V^!$; $g_A = g_A^!$ where the quantities with a prime relate to the non-conservation of parity. Calculations were carried out for the case of a mixture of magnetic dipole (96 %) - and electric quadrupole (4 %)-radiation. The dependence of a on the ratio g_S/g_T or g_V/g_A and on only one ratio of matrix elements was

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 β - Angular Correlation in the Decay of Ba 39 SOV/56-36-1-4/62 and the Sign of the Ratio of the β Interaction Constants

calculated; the functions obtained are given in figures 2 and 3. Theoretical results agree with experimental ones only for $g_V/g_A < 0$. The authors finally thank A. Z. Dolginov for letting them know calculation results and for discussions, and they express their gratitude to S. P. Kalinin for his interest, and to L. A. Sliv and I. S. Shapiro for discussing results. There are 3 figures and 13 references, 1 of which is Soviet.

SUBMITTED:

July 11, 1958

Card 3/3