"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710

LEVKOVICH, Ye. M. and SARMAROVA, Ye. S.

"The Results of and Prospects for the Study of the Problems of Tick-Borne Encephalitis," an article presented at the Interoblast' Scientific-Practical Conference of Medical Workers of the Urals, Siberia, and the Far East, Krasnoyarsk, 6-12 Dec 55.

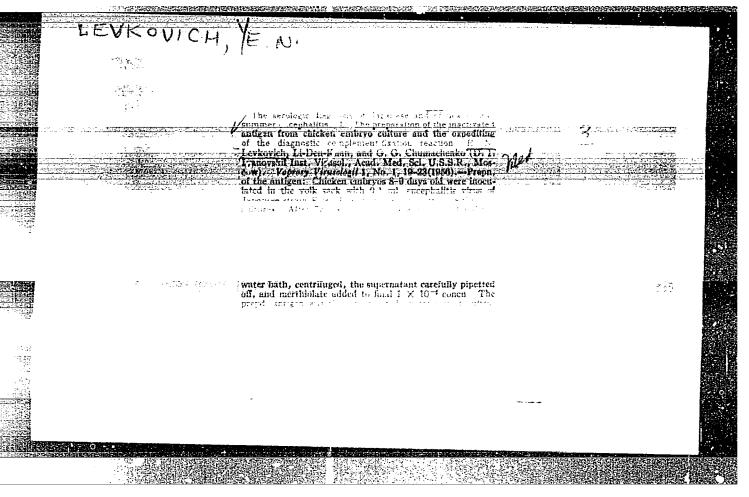
Sum. No. 1047, 31 Aug 56

LEVKOVICH, Ye. N. Prof.

"The Problem of Sanitary-Antiepidemic Service in the Fight Against Tick Encephalitis, 1956-1960" a paper read at the All-Union Conference for Combating Parasitic Diseases held in Moscow, 10-11 Apr 1956.

Sum 1239

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710



LEVKOVICH, Ye.N.; RZHAKHOVA, O.Ye.

Serological diagnosis of tick-borne spring-summer and Japanese encephalitis. Report no.2: Preparation of inactivated and dehydrated antigens from brain tissue fo chick embryes infected with tick-borne encephalitis virus. Vop.virus. 1 no.3:26-29 My-Je *56. (MLRA 10:1)

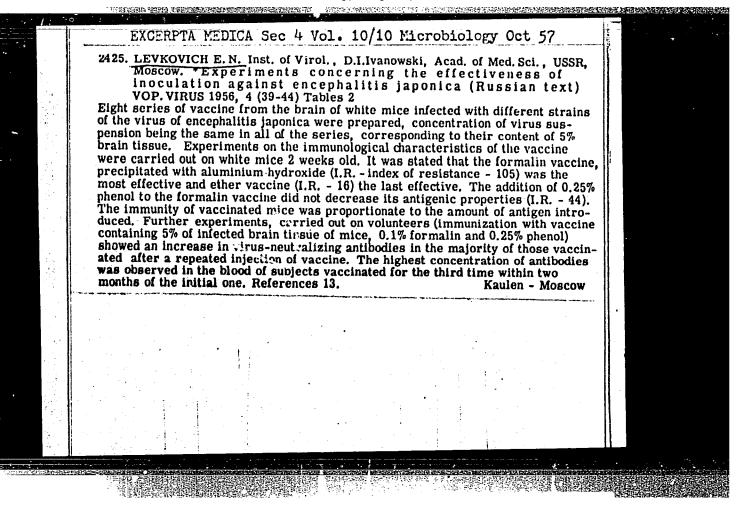
1. Institut virusologii imeni D.I.Ivenovskogo AMN SSSR, Moskva (ENCEPHALITIS, JAPANESE B, diagnosis, serol., prep. of inactivated & delwdrated antigens

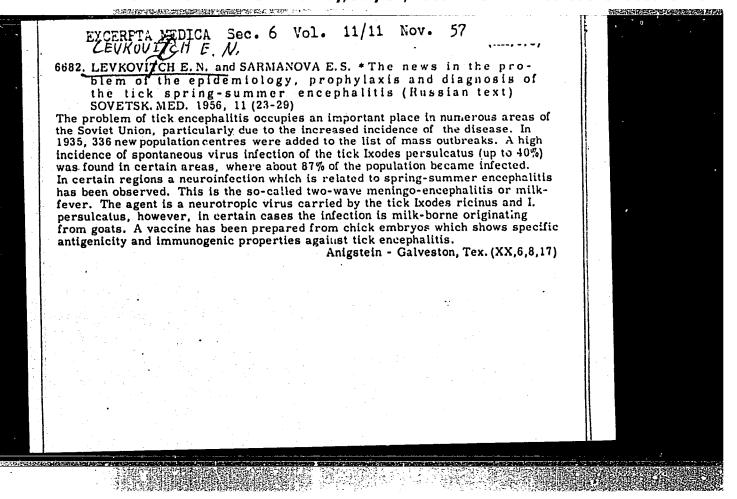
serol., prep. of inactivated & dehydrated antigens from brain tissue of chick infected chick embryo (Rus))

(ENCEPHALITIS, EPIDEMIC, diagnosis,

same) (ANTIGENS.

encephalitis antigens, prep. from brain tissue of chick embryos infected with tick-borne virus for serodiag. of Japanese & vernal encephalitis (Rus))





Levkovich, Je. N.

USSR / Virology. Viruses of Men and Animals.

E-3

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 21694

Author : Levkovich, E.N.

Inst:
Title: Problems, Epidemiology and Prophylaxis of Policmyelitis.

Orig Pub: Sov. meditsina, 1956, No 3, 13-19

Abstract: The contemporary concepts of policyelitis epidemiology are briefly stated. The problem of epidemic seasons is mentioned, of virus localization in the human organism, of the pathsof transmission and the dependence of general and adult morbidity of the density of the population and means of communication. The characteristic properties of policyelitis virus are stated, and the significance of different serologic types. The essential principles of phrophylaxis and, particularly, the problem of preparing a killed formalinized vaccine, are stated. The importance of a correct and speedy laboratory policyelitis diag-

nosis utilizing tissue cultures is emphasized.

Card : 1/1

INST. VIROLOGY ; m D. 1. IVANOVSKIY AMS USSR

LEVKOVICH, Ye.N.,; IVANOVA, L.H.

Problems and tasks of the sanitary and epidemiological service departments in the prevention of tick-borne spring-summer encephalitis. Med. paraz. 25 no.1:28-32 Ja-M '56 (MLRA 9:6)

1. Iz Instituta virusologii AMN SSSR (dir. instituta P.N. Kosyakov) i Glavnogo sanitarno-epidemiologicheskogo upravleniya Ministerstva zdravockhraneniya RSFSR.

(ENCEPHALITIS, EPIDEMIC, prev. and control Russian tick-borne spring-summer, prev.)

LEVKOVICH, YE. N.

CARRIERS

"Separating Virus out of Spontaneously Infected Gamasidae Ticks", by Ye. N. Levkovich and A.A. Tagil'tsev, Meditsinskaya Parazitologiya i Parazitarnyye Bolezni, 1956, / XXV /, 3, pp 229-233 from Meditsinskiy Referativnyy Zhurnal, Section 4, No 1, 1957.

Gamasidae may, to some extent, be responsible for the transmission of spring-summer encephalitis; this family of mites in a natural focus of infection, can be a reservoir of the disease. In Kemerovskaya Oblast', the natural infectiousness of Lalaptidae u. Heamogamasidae, gathered from the nests of rodents and shrews during the non -epidemic scason (July-August, 1954), was demonstrated. It is concluded that the virus of mite-born encephalitis had been preserved alive in these mites for no less than 1 month.

Card 1/1

- 8 -

LEVKOVKH, Ye.N.

LEVKOVICH, Ye.N.; GOL'DFEL'D, A.Ya.; RZHAKHOVA, O.Ye.

Firec. of short-wave ultraviolet rays on the viability and antigenic properties of viruses of Russian tick-borne and Japanese encephalitis [with summary in English]. Biuleksp.biol. i med. 77-81 J1 '57.

(MIRA 10:12)

1. Iz laboratorii entsefalitov (zav. - prof. Ye.N. Levkovich) Instituta virusologii imeni D.I. Ivanovskogo (dir. - prof. P.N. Kosyakov) AMN SSSR, Moskva. Predstavlena deystvitel nvm chlenom AMN SSSR prof. N.I. Zhukovym-Verezhnikovym.

(ENCEPHALITIS, JAPANESE B, virus, eff. of short wave & ultraviolet rays on viability & antigenic properties (Rus))
(ENCEPHALITIS, EPIDEMIC, virus, Russian tick-borne, eff. of short wave & ultraviolet

rays on vaibility & antigenic properties (Rus))
(ULTRAVIOLET RAYS, effects,
on Japanese & Russian tick-borne encephalitis birus
viability & antigenic properties (Rus))

Present status of the problem of spidemic encephalitis. Vop.virus.
2 no.3:131-139 My-Je '57. (MIRA 10:10)

1. Institut virusologii imeni D.I.Ivanovskogo AHN SSSR. Moskva.
(MMCEPHALITIS, MPIDEMIC,
review (Rus))

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929710

USSR/Virology. Viruses of Transmissive Infections.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 62142.

Author : Zasukhina, G.D., Levkovich,

Inst

: Cytopathogenic Effect of Tick - Borne Title

Encephalitis Virus in Tissue Culture of Human

Fibroblasts.

Orig Pub: Vopr. virusologii, 1957, No 4, 234-238.

Abstract: In cultures of mouse skin tissue of the human embryo the strains "Sofyin" and "Fateyev" were

studied. Both strains multiplied actively in cultures of these tissues, having a maximum virus yield in 4-8 days after infection of

the cultures. The cytopathogenic effect was registered from the 1st to the 9th passage

: 1/2 Card

11

CIA-RDP86-00513R000929710(APPROVED FOR RELEASE: Monday, July 31, 2000

E-2

LEUKOVICH, E.N.

USSR / Virology. Human and Animal Viruses

Abs Jour: Ref Zhur - Biol., No 6, 1958, 23969

Levkovich, E. N., Sukhova, M. N.

Author Inst

Duration of Preservation and Secretion of Polyomy-Not given elitis Viruses in Synantropic Flies in Relation to Title the Problem of Means of Control and Prophylaxis of

the Disease.

Med. parazitol. i parazitarn. bolezni, 1957, 26, Orig Pub:

No 3, 343-347

Synantropic flies of individual coprobiotic species (altogether 1738) were infected by Lansing strain Abstract:

113 and by patients' feces. It was shown that the virus survived up to 10 days in the flies' intestines. In milk and on cucumbers infected by flies, the virus was also found for a period of 10 days.

Card 1/2 Ca

INST. VIROLOGY im D. 1. IVANOVSKIY AMS USSR

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R0009297104

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929710

USSR/Virology. Viruses of Transmissive Infections.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 62141.

Author : Levkovich, S.N., Goldfeld, A. Ya., Rzhakova, O E.

Inst Title

: The Effect of Ultrashort Waves on the Contagiousness and Antigenic Properties of the Spring-Summer Tick and Japanese Encephalitic Viruses.

Orig Pub: Byul. eksperim. biol. i meditsiny, 1957, 44, No 7,

77-81.

至198**年第一日**

Abstract: Exposure of a 1-10% brain suspension of mice, containing the virus of the spring-summer tick (strain Sofyin) or Japanese encephalitis,

tick (strain Sofyin) or Japanese encephalitis, to ultrashort UV-rays (259 A) completely inactivated the viruses in 5-15 min. A 10% brain suspension of chick embryos infected with the

Card

10

LEVKOVICH, Ye.N., POGODINA, V.V.

Infection through the alimentary tract with tick-borne encephalitis [with summary in English]. Vop.virus 3 no.3:145-150 My-Je '58 (MIRA 11:7)

1. Institut virusologii imeni D.I. Ivanovakogo AMN SSSR, Moskva. (KNCEPHALITIS, etiology & pathogenesis

tick-borne infect. caused by ingestion of raw goat milk (Rus))

(MILK, microbiology

raw goat milk causing transm. of tick-borne encephalitis (Rus))

LEVKOVICH, YE. N., CORCHAKOVSKAYA, N. N.

"New developments in the method of extermination of tick encephalitis carriers, and its utilization in the antiepidemic practice."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

"Characteristics of postvaccinal and postinfection immity in tick and Japanese encephalitis in connection with the problem of specific prophylaxis." report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710

LEVKOVITCH, E. N.

"The virological bases of the epidemic prognosis of tick-borne encephalitis." Page 76

Desyatoye soveshchaiye po parazitologicheskim problemam i prirodnoochagovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitological Froblems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

Inst. of Virology, AS USSR, Moscow

KARPOVICH, L.G.; LEVKOVICH, Ye.N.

Differentiation of viruses of tick-borne encephalitis and louping ill in tissue culture. Vop.virus. 4 no.5:566-571 S-0 '59. (MIRA 13:2)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva.
(ENCEPHALITIS, EPIDEMIC, virology)
(TISSUE CULTURE)

LEVKOVICH, Ye.N.; POGODINA, V.V.

Problem of alimentary tick-borne encephalitis and measures for preventing it. Vest. AMN SSSR 14 no.10:7-13 59.

(MIRA 13:6)

1. Institut virusologii imeni D.I. Ivanovskogo AMH SSSR. (ENCEPHALITIS) (NILE--BACTERIOLOGY)

TO STATE OF MEMORIPHISH STATE AND ADDRESS OF THE STATE OF

THE STATE OF THE PROPERTY OF T

LEVKOVICH, Ye.N.

Some aspects of study and objectives of the seven-year-plan in the problem of tick-borne encephalitis. Med.paras. 1 paras.bol. 28 no.3:304-310 My-Je 159. (MIRA 12:9)

1. Is Instituta virusologii imeni D.I.Ivanovskogo AMN SSSR (dir. - prof.P.N.Kosyakov).

(HNCMPHALITIS, MPIDEMIC, prev. & control, tick-borne, in Russia (Bus))

LEVKOVICH, YE. N., KARPOVICH, L. G., Moscow:

"Study On Biological Properties Of Viruses Of The Tick-Borne Encephalitis Complex In Tissue Cultures."

report submitted for the Symposium on the Biology of Viruses of Tick Borne Encephalitis Complex, Smolenice Czechoslovakia, 11-14 Oct 60.

"Experimental and epidemiological bases of the special profylaxis of tick-borne encephalitis (Introductory lecture.)"

The Ivanovskiy Institute of Virology, Moscow, U.S.S.R.

LEVKOVICH, YE. N. (USSR)

Worth presented The International Epidemiological Symposium, Prague 22-26 1960.

"On the study of the circulation of the virus of tick-borne encephalitis of the basis of serological investigations."

(Voyenno-Meditsinskiy Zhurnal, No 6, 1960)

LEVKOVICH, F.N.; ZASUCHINA, G.D.

Evaluation of the effectivity of a new preparation - the tissue culture vaccin e against tick-borne encephalitis. J.hyg.epidem. Praha 4 no.3:296-298 '60.

1. Ivanovsky Institute of Virology, Academy of Medical Science of the USSR, Moscow.

(EMCEPHALITIS, EPIDAMIC immunol.)

LEVKOVICH, Ye.N.; KARPOVICH, L.G. Comparative study of the viruses of the tick-borns encephalitis group in HeLa cell cultures. Vop. virus. 5 no. 1:30-39 Ja-F '60. (MIRA 14:4) 1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva. (ENCEPHALITIS)

FAN TSZE-MIN [Fang Chieh-ming]; LEVKOVICH, Ye.N.; FOKINA, K.V.

Cultivation of Japanese and West Nile encephalitis viruses in tissue cultures of angiosarcoma, Detroit-6, HEP-2, and monkey kidney cells. Vop. virus. 5 no. 1:39-44 Ja-F '60.

(ENCEPHALITIS)

(ENCEPHALITIS)

AVAKYAN, A.A.; LEVKOVICH, Ye.N.; BUSNYUK, M.M.

Morphology of nerve cells injured by viruses of tick-borne encephalitis and related diseases. Vop. virus. 5 no. 2:208-216 My-S '60. (MIRA 14:4)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR i Institut po izucheniyu policmiyelita AMN SSSR, Moskva.

(ENCEPHALITIS) (EPIDEMIC HEMORRHAGIC FEVER)

(NERVOUS SYSTEM—DISEASES)

LEVKOVICH, Ye.N.; ZASUKHINA, G.D.; CHUMAKOV, M.P.; LASHKEVICH, V.A.; GAGARINA, A.V.

Tissue culture vaccine for tick-borne encephalitis. Vop. virus. 5 no. 2:233-236 My-S '60. (MIRA 14:4)

1. Institut virusologii AMN SSSR imeni D.I. Ivanovskogo i Institut po izucheniyu poliomiyelita AMN SSSR, Moskva.
(ENCEPHALITIS)

LEVKOVICH, Ye.N., prof.; ZASUKHINA, G.D., kand.med.nauk

Tissue culture vaccines aginst tick-borne encephalitis. Vest.

AMN SSSR 15 no.1:53-57 160. (MIRA 13:6)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR.
(ENCEPHALITIS EPIDEMIC immunol.)
(VACCINES)

LEVKOVICH, M. N.

A survey of the dynamics of the virus of tick-borne encephalitis on the basis of serological investigations. J. hyg. epidem., Praha 5 no.1:80-84 '61.

1. Ivanovsky Institute of Virology, Academy of Medical Sciences USSR, Moscow.

(ENCEPHALITIS EPIDEMIC immunol)

LEVKOVICH, Ye.N.; IZOTOV, V.K.

Hemagglutination with the virus of tick-borne encephalitis. Vop. virus 6 no.4:428-431 J1-Ag '61. (MIRA 14:11)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva. (ENCEPHALITIS) (BLOOD—AGGLUTINATION)

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710

LEVKOVICH, Ye.; KARPOV, S.

Symposium on the Biology of Viruses of the Tick-borne Encephalitis
Group. Vop, virus. 6 no.6:756-760 N-D '61. (MIRA 15:2)
(ENCEPHALITIS) (TICKS AS CARRIERS OF DISEASE)
(VIROLOGY_CONGRESSES)

LEVKOVICH, Ye.N.; ZASUKHINA, G.D.

Preparation of a tissue-culture vaccine against Japanses encephalitis. Zhur. mikrobiol. epid. i immun. 32 no.5:38-42 My '61. (MIRA 14:6)

1. Is Instituta virusol...i imeni Ivanovskogo AMN SSSR. (ENCEPHALITIS)

LEVKOVICH, Ye.N.; POGODINA, V.V.

Vaccination of goats as a method of preventing alimentary infection with tick-borne encephalitis. Report No.1: Study of the conditions and effectiveness of experimental vaccination of goats. Vop. virus. 7 no.2:193-199 Mr-Ap 162.

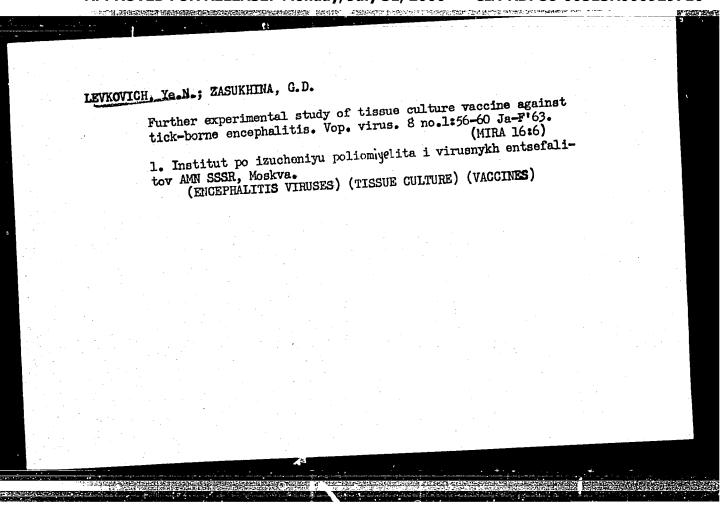
1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva. (VACCINATION) (ENCEPHALITIS) (GOATS)

PETRISHCHEVA, P.A.; LEVKOVICH, Ye,N.; BOLDYREV, S.T.; ZASUKHIN, D.K., red.; CHULKOV, I.F., tekhn. red.

[Japanese encephalitis] IAponskii entsefalit. Moskva, Medgiz, 1963. 178 p.

1. Chlen-korrespondent AMN SSSR (for Petrishcheva).

(ENCEPHALITIS)



LEVKOVICH, Ye. N.

"The mutagenic effect of physical and chemical factors on arboviruses."

report presented at 4th Intl Cong, Hungarian Soc of Microbiologists, Budapest, 30 Sep-3 Oct 64.

Inst of poliomyelitis, AMS USSR, Moscow.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710(

LEVKOVICH, Ye.N. (Moskva)

Toint Seventh Scientific Session of the Institute of Policemyelitis and Virus Encaphalitis of the Academy of Medical Sciences of the U.S.S.R. and the White Russian Institute of Epidemiology, Microbiology and Hygiene, dedicated to the study of tick encephalitis and other arbor virus infections. Vest. AMN SESR 19 no.1:89-90 164. (MIRA 17:7)

LOGINOVA...PARINA, N.V.; LEVKOVICH, Ye.N.

Comparative studies on plaque formation by viruses from the tick...borne encephalitis group. Vop. virus 9 no.4:404-408 (MIRA 18:7)

J1-Ag '64.

1. Institut poliomiyelita i virusnykh entsefalitov AMN SSSR, Moskva.

VOROB'YEVA, M.S.; LEVKOVICH, Ye.N.

Sensitivity of cold-blooded animals to the virus of tick-borne encephalitis. Zool. zhur. 43 no.7:1084-1087 164. (MIRA 17:12)

1. Institute of Plyomyelitis and Viral Encephalites, Academy of Medical Sciences of the U.S.S.R., Moscow.

L 27195-66 EWT(1)/T SOURCE CODE: UR/0402/65/000/005/0551/0557 (N)ACC NRI AP6004864. AUTHOR: Shalunova, N. V.; Karpovich, L. G.; Levkovich, Ye. N. ORG: Institute of Polyomyelitis and Virus Encephalitis, AMN SSSF Moscow (Institut poliomielita i virusnykh entsefalitov AMN SSSR) TITLE: Study of interference of the Japanese encephalitis virus with some cytopathogenic viruses in tissue cultures (2 SOURCE: Voprosy virusologii, no. 5, 1965, 551-557 TOPIC TAGS: virus disease, bisaus physiolog, experiment animal, vivus interference, immunity, encephalitis, histology ABSTRACT: This is a study on the interference of strains P-1 and K-2 of this virus (JEV) with polio virus type I (LSc = 2sb) grown in cultures of skin-embryonal human tissue, and with the yiruses of Newcastle disease (ND) and Western equine encephalitis (WEE), both grown in several passages of chicken embryo cell cultures. To determine interference the cultures with a developing monolayer (800,000 cells per ml) were infected with a diluted brain suspension of JEV. Immediately after infection and 24, 48, 72, 96 and 120 hours later the cultures were added with the cytopathogenic indicator viruses (Polio, ND and WEE). 576.858.25.095.38 UDC: Card 1/2

L 27195-66 ACC NR. AP6004864 Interference was determined after 2-3 days and was judged positive in the absence of cytopathic activity and on the basis of plaque formation of the indicators in the test cultures and their presence in controls. Interference of varying degree was seen after 72 hours for all three viruses. It was found that JEV can be reproducibly titrated and identified according to interference in tissue cultures upon introducing the blocking viruses after 96 hours. Highest sensitivity was found in cultures of chicken embryo cells and WEE, for under these conditions the interference activity titers (1/10 of activity in controls) were close to those of the virus obtained in tests with mice. This interference was seen only with live virus. From tissue cultures infected with the JEV interferon was isolated, which alone also produced interference, resulting in reduction of plaque formation by $\frac{1}{2}$. It was not highly specific and acted most efficiently on WEE virus. Its effect remained unchanged following heating at 60 C but was severely depressed by a. dilute trypsin solution. Orig. art. has: 6 tables. SUB CODE: 06/ SUBM DATE: 06Aug64/ ORIG REF: 003/ OTH REF: 008 Card 2/2 11

27099-66 ewr(l)/T JK SOURCE CODE: UR/0402/65/000/005/0577/0583 ACC NR: (N) AP6004867 3*3* AUTHOR: Ado, A. D.; Titova, S. M.; Levkovich, Ye. N. 32 ORG: Scientific Research Allergologic Laboratory, AMN SSSR. Moscow (Nauchno-issledovatel'skaya allergologicheskaya laboratoriya AMN SSSR) TITLE: Study of the allergenic properties of intermediate antigens of brain yaccine, against tick-borne encephalitis on SOURCE: Voprosy virusologii, no. 5, 1965, 577-583 TOPIC TAGS: virus disease, animal disease, experiment animal, antigun, allergic disease, encephalitis, virus, brain, histology, vaccine ABSTRACT: The allergenic properties of antigens forming at various stages of virus propagation in the brain tissue of experimentally infected white mice were studied in 97 guinea pigs by the method of anaphylaxis and desensitization, applying a 5% fluid brain vaccine against spring-summer tick-borne encephalitis prepared 2 days and 4 days after infection. For sensitization, 0.3 ml were given subcutaneously and the anaphylactic injection was given intravenously after 28-33 days. Desensitization was given every 2 hours until complete arrest of the reaction. The desensitizers were suspensions of normal brain, 2 or 4 UDC: 615.372: 576.858.257-011 Card 1/2

L 27099-66

ACC NR: AP6004867

Jays' vaccine, and culture-derived formalin inactivated vaccine against the above disease. Sensitization of the guinea pigs with a suspension of healthy mouse brain tissue caused only weak anaphylactic reaction upon subsequent introduction of the same suspension. Sensitization with vaccine from brain of mice without clinical signs of the disease caused strong anaphylactic reaction; so did vaccine from sick mice. The anaphylactic reaction in guinea pigs sensitized with the 2-day vaccine could be inhibited by prior two-fold desensitization with either normal orain suspension or vaccine, in contrast to 4-day vaccine where such desensitization did not inhibit anaphylactic reaction, due apparently to the large amount of intermediate antigens present in the 4-day vaccine. It may be concluded that intermediate antigens start appearing on the second day after infection and that they increase during virus nultiplication in the mouse brain. "The 5% fluid brain vaccine against tick-borne spring-summer encephalitis was prepared by E. N. Levkovich". Orig. art. has: 3 tables.

SUB CODE: 06/ SUBM DATE: 17Feb64/ ORIG REF: 001

Card 2/2 W

ATTENDED FOR HER BESTER BESTER

ACC NR. AP60343831 (N.) SOURCE CODE: UR/0402/66/000/005/0539/0545

AUTHOR: Sergeyava, C. Les Levkovich, Ye. N.

ORG: Institute of Rollomyelitis and Virus Encephalitis, ANN SSSR, Moscow (Institut policomyelita i virusnykh entsefalitov AMN SSSR); Vladivostok Institute of Epidemiology and Microbiology (Vladivostokskiy institut epidemiologii i mikrobiologii)

TITLE: Multiplication characteristics in tumor cells in vitro and in vivo of various tick-borne encephalitis viruses with different degrees of neurovirulence

SOURCE: Voprosy virusologii, no. 5, 1966, 539-545

TOPIC TAGS: biologic reproduction, nervous system, virus disease, encephalitis, neoplasm, CARCINOMA

ABSTRACT: The interaction between three strains of tick-borne encephalitis virus (a highly virulent Oriental strain, the less virulent TR-21 strain, and an attenuated variant of TR-21) with Ehrlich ascites and Crocker cancer cells from mice was studied in vitro and in vivo. No parallelism was noted between the interaction of viruses and cancer cells in vivo and in vitro. In primary cultures of both types of cancer cells, encephalitis viruses retained their infectiousness and pro-

Card 1/2

UDC: 576.858.25.06.093.35:616-006

ACC NR: AP6034383

duced significant changes in the cancer cells. In the culture of Crocker sarcoma cells, the cells lost some of their ability to grow on Crocker sarcoma cells, the cells lost some of their ability to grow on the surface and to cause the formation of tumors when live animals were inoculated. In the culture of Ehrlich ascites carcinoma cells, a decrease in metabolic activity was observed after the interaction of cancer cells with the viruses. The interaction between the various cancer cells after subcutaneous and intraperitoneal viral strains and cancer cells after subcutaneous and intraperitoneal viral strains and cancer cells after subcutaneous and intraperitoneal viral strains and cancer cells after subcutaneous and intraperitoneal viral strains and cancer cells after subcutaneous and intraperitoneal viral strains and cancer cells after subcutaneous and intraperitoneal viral strains and affected the inoculation caused active multiplication of the virus and affected the inoculation caused active multiplication of the virus and affected the inoculation into an ascites carcinoma. Under idenbrain tissue after inoculation into an ascites carcinoma. Under idenbrain tissue after inoculation into an ascites carcinoma. Under idenbrain tissue after inoculation into an ascites carcinoma. Under idenbrain tissue after inoculation into an ascites carcinoma. Under idenbrain tissue after inoculation into an ascites carcinoma. Under idenbrain tissue after inoculation into an ascites carcinoma. Under idenbrain tissue after inoculation into an ascites carcinoma. Under idenbrain tissue after inoculation into an ascites carcinoma. Under idenbrain tissue after inoculation into an ascites carcinoma. Under idenbrain tissue after inoculation into an ascites carcinoma. Under idenbrain tissue after inoculation into an ascites carcinoma.

SUB CODE: 06/ SUBM DATE: 06Feb66/ ORIG REF: 004/ OTH REF: 006

Card 2/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0009297100

Photographic attachment for a rectoscope. Vop.onk. 4 no.2:
221-223 '58.

1. Iz fotograficheskoy laboratorii (zav. - inzh.Yu.I.Levkovich)
Instituta onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN
SSSR prof.A.I.Serebrov).

(PROCTOSCOPY, appar. & inst.

camera attachment for octoscope (Rus))

BERMAN, N.A.; LEVKOVICH, Yu.I.

Photocystoscopy in bladder tumors. Vop. onk. 9 nc.12:18-22 163. (MIRA 17:12)

1. Iz nauchno-poliklinicheskogo otdela (zav. - starshiy nauchnyy sotrudnik K.A. Pavlov) i laboratorii nauchnoy fotografii (zav. - Yu.I. Levkovich) Instituta onkologii AMN SSSR (direktor - deyst-vitel'nyy chlen AMN SSSR prof. A.I. Serebrov). Adres avtorov: Leningrad, 2-ya Berezovaya alleya, d.3, Institut onkologii AMN SSSR.

MUSHKOVSKAYA, Yu.I.; LEVKOVICH, Yu.I.

Experience in working with the optic photobronchoscope. Vop. onk. 7 no.5:115-119 '61. (MIRA 15:1)

1. Iz nauchno-pariklinicheskogo otdela (zav. - starshiy nauchnyy sotrudnik kand.med.nauk K.A. Pavlov), laboratorii nauchnoy foto-grafii (zav. - inzh. Yu.I. Levkovich) Instituta onkologii AMN SSSR (dir. - deystvitel nyy chlen AMN SSSR prof. A.I. Serebrov). (BRONCHOSCOPE)

SOKOLOVA, N.M.; KASATKINA, N.M.; SHCHUKAREVA, N.K.; LEVKOVICH, Yu.I.

Laboratory diagnosis of candidiasis in patients with malignant . tumors. Vop. onk. 9 no.8:49-54 *63 (MIRA 17:4)

1. Iz kliniki-diagnosticheskoy laboratorii (zav. - dotsent I.F. Grekh) Institutaonkologii AMN SSSR (direktor- deystvitel - nyy chlen AMN SSSR prof. A.I. Serebrov. Adres avtorov: Leningrad, P-129, 2-ya Berezovaya alleya, 3, Institut onkologii AMN SSSR.

LEVKOVICH-SOKOLOVA, A.P.

Morphological changes in a bullonecrotic form of aminazine toxicodermatitis. Zhur.nevr.i psikh. 60 no.5:595-601 '60. (MIRA 13:9)

1. Otdel patomorfologii tsentral'noy nervnoy sistemy (nauchnyy konsul'tant - prof. A.P. Avtsyn) Instituta psikhiatrii Ministerstva zdravookhraneniya RSFSR (dir. - prof. V.M. Banshchikov), Moskva. (CHLORPROMAZINE) (SKIN--DISEASES)

LEVKOVICH_SOKOLOVA, A.P., kand.med.nauk; KAZAKOVA, P.B., kend.med.nauk; IL'INA, L.I., kand.med.nauk

Morphological changes in the brain in cases of combined alcoholism and atherosclerosis. Trudy Gos. nauchno-issl. irst. psikh. 22:447-476 (MIRA 15:1)

l. Laboratoriya patomorfologii tsentral'noy nervnoy sistemy (zav. - laboratoriyey - kand.med.nauk A.P.Levkovich-Sokolova, nauchnyy konsul'tant - prof. A.P. Avtsyn) i klinika sosudistykh psikhozov (zav. klinikoy - prof. V.M.Banshchikov) Gosudarstvennogo nauchno-issledovatel'skogo instituta psikhiatrii Ministerstva zdravookhraneniya RSFSR.

(CEREBRAL ARTERIOSCLEROSIS) (ALCOHOLISM)

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710

IEVKOVSKAYA, N.Yu. [Levkovs'ka, N.IU.]

Genesis of cassiterite from the placers in northern Volyn'.

Geol. zhur. 25 no.3:102-106 '65. (MIRA 12:11)

1. Institut geologicheskikh nauk AN UkrSSR.

REYNIN, I.V.; LAZUKOV, G.I.; LEVKOVSKAYA, G.M.

Result of studying Quaternary sediments in the north of the West Siberian oil- and gas-bearing province. Trudy VNIGRI no.225:102-120 '63. (MIRA 17:3)

LEVKOVSKBYFF,

SOV/21-59-6-20/27

(Gurvich, S. I.)

AUTHORS:

Hurvych, S. I., Levki 7s'ka, N. Yu. (N.Yu. Levkovskaya) and

Khatuntseva, A.Ya.

On a Mineralogical Find of Tungsten Minerals in Volyn' TITLE:

Dopovidi Akademii Nauk Ukrains'koi RSR, 1959, Nr 6, PERIODICAL:

pp 659 - 661 (USSR)

The authors report on a find of tungsten minerals made in ABSTRACT:

the North-Western section of the Ukrainian crystalline shield in 1956. The wolframite encountered for the first time was in foliated pieces with black, nontransparent grains. Some pieces had, however, dark red and red color, ranged from nontransparent to almost transparent. In some instances, the wolframite was found in combination with the quartz, and in separate instances in combination with the arsenopyrite. The majority of grains were within 0.6 - 0.1 mm, some reached a size of 2 - 3 mm. The chemical examinations made by B. V. Myrs'ka (table 1), and the x-ray examinations made by A. O. Karpenko (table 2), confirmed the

materials as being basically wolframite, combined with an

Card 1/2

almost equal number of ferberite and huebnerite molecules.

sov/21-59-6-20/27

On a Mineralogical Find of Tungsten Minerals in Volyr'

Leaving out some insignificant impurities, the two chemical examinations have established the following crystallochemical formulas:

1) (Feo, 41 Mno, 59) WO₄; 2) (Feo, 46 Mno, 54) WO₄. The x-ray examination was done with the use of Fe radiation in a Debay chamber of 57.3 mm in diameter, with a Mn filter, at an exposure of 12.5 hours. Isolated sheelite grains have also been found. Under the microscope they appeared to be of more or less isotermic forms, of even optical weight, were found to be positive and possessing a rather low index of double refraction, yet an index of single refraction exceeding 1.78. There are 2 tables and 1 photo.

ASSOCIATION:

Institut geologicheskikh nauk AN UkrSSR (Institute of

Geological Sciences of the AS UkrSSR)

PRESENTED:

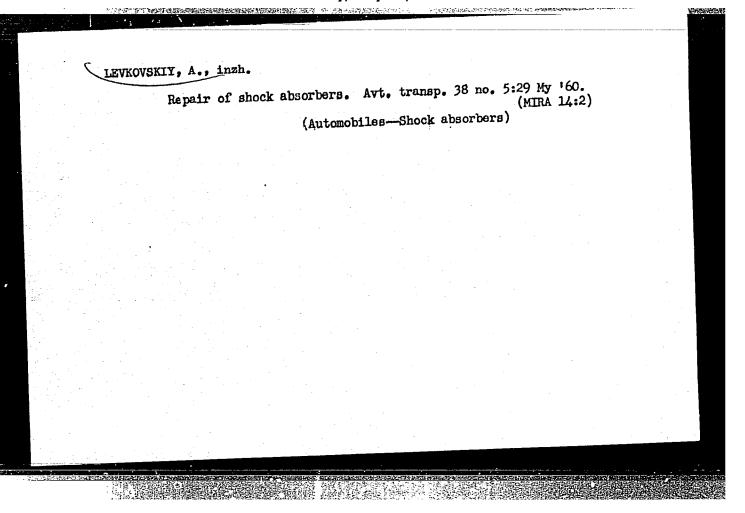
By N. P. Semenenko, Member, AS UkrSSR

SUBMITTED:

July 8, 1958

Card 2/2

CIA-RDP86-00513R0009297100 **APPROVED FOR RELEASE: Monday, July 31, 2000**



LEVKOVSKIY, A. I.

"The State sector and the problem of proority in the selection of projects in the programs of the industrialization of the developing countries"

report to be submitted for the United Nations Conference on the Application of Science and Technology for the Renefit of the Loss Developed Areas - Geneva, Switzerland, 4-20 Feb 63.

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929710

LEVKOVSKIY, A

.E92963

MATSIONAL HO-OSVOBODITEL MAYA BOR'BA MAROLOV MALAYI ZA SVOYU SVOBODU I NEZAVISIMOST. MOSKVA, IZD-VO ZNAMIYE, 1952. 31 P. (VSESOYUZMOYE OBSH-CALSTVO PO MASPROSTRAMENIYU POLITICMESKIKH I NAUCHNYKH ZNAMIY. 1952, SERIYA 1, NO. 96)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710(

LEVKOVSKIY, A.I.

[English finance capital in India and the Indian monopolies. Mo-. skva, Gospolitisdat, 1954. 543 p.

LEVKOVSKIY

AUTHOR:

Levkovskiy, A.I. Engineer,

118-58-4-5/23

TITLE:

A Dump Car With a Sliding Hood (Dumpkar so sdvigayushchimsya

kuzovom)

PERIODICAL:

Mekhanizatsiya Trudoyëmkikh i Tyazhëlykh Rabot, 1958, Nr 4,

pp 13-14 (USSR)

ABSTRACT:

The author describes a new dump car designed by him and constructed at the TsEMM Kanskugol' trest (The TSEMM of the Kanskugol' Trust) to replace existing dump cars. The dump car consists of a hood, bottom platform, unloading mechanism and the carriages. The hood has three transverse and two lengthwise edges welded into one stable spatial structure. The unloading mechanism has the following basic parts: 36 kw electric motor, the main reducer, two auxiliary reducers, and three lifting screws. The capacity of the hood is from 33 to 35 cubic meters. Unloading takes 70 seconds and may be performed by one man.

There are 2 photographs.

AVAILABLE:

Library of Congress

Card 1/1

1. Mines-Equipment 2. Dump cars-Design 3. Dump cars-Applications

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710

Levkovskiy, A I

AUTHOR:

Levkovskiy, A.I., Mining Engineer

127-58-5-13/30

TITLE:

A Dump Car With a Laterally-Moving-Walls Body for Unloading (Dumpkar, razgruzhayushchiysya sdvizheniyem kuzova po

dnishchu)

PERIODICAL:

Gornyy Zhurnal, 1958, Nr 5, pp 46-48 (USSR)

ABSTRACT:

Dump cars applied at present in open pits have essential drawbacks: high dead weight and dependence of the unloading time upon climatic conditions and the physical properties of the load. The author of the present article has designed a new type of dump car which unloads not by tilting, but by shifting the walls of the vehicle over the bottom, as is hown in Figure 1 and 2. Its main parts are: 1) the walls; 2) the bed; 3) the unloading mechanism, and 4) the undercarraige. The technical characteristics of the new type are as follows: weight - 22 to 23 tons; the weight of load - 60 tons; the capacity of body - 33 to 35 cu m; height - 2,860 mm; width - 3,600 mm; lengths (between the axes of automatic couplings) - 9,480 mm; unloading time - 70 sec which can be reduced to 20 or 30 sec by applying more powerful electric motors

Card 1/2

and a lower goar ratio. The unloading mechanism shifts

127-58-5-13/30

A Dump Car With a Laterally-Moving-Walls Body for Unloading

the walls of the dump car over its bed at a rate of 0.03 m/sec. The walls, shifting over the bed, form a slit up to 3,000 mm wide, through which the load is pushed out. Such an experimental car was manufactured in the central such an experimental car was manufactured in the central electro-mechanical shops of the trust "Kanskugol'". It was tested in the Irsha-Borodino open pit in 1957. Tests were carried out under all temperatures. The unloading were carried out under all temperatures time than that performance was satisfactory, and took less time than that of conventional dump cars. The frozen rock is scraped of conventional dump cars by the back wall of the body. There are 3 photos, 2 figures and 1 table.

ASSOCIATION:

Irsha-Borodinskiy ugol'nyy razrez Nr l (Irsha-Borodino

Open Coal Pit Nr 1)

AVAILABLE:

Library of Congress

Card 2/2

1. Mines-Machinery 2. Ores-Excavation

D'YAKOV, A.M., otv.red.; LEVKOVSKII, A.I., otv.red.; MML'MAN, S.M., otv.red.; MARIJMOVA, I.E., red.izd-vs; KRASNAIA, A.K., tekhn.red.

[Reconomy of modern India] Ekonomika sovremennoi Indii. Moskva., Ind-vo vostochnoi lit-ry, 1960. 429 p. (MIRA 13:8)

1. Akademiya nsuk SSSR, Institut vostokovedeniya. (India--Economic conditions)

BRAGINA, Ye.; UL'RIKH, O.; IEVKOVSKIY, A.I., otv. red.; MOISEYEV, P.P., otv. red.; FKDYUSHOVA, V.N., red. izd-va; YAZLOVSKAYA, E.Sh., tekhn. red.

[State capitalism in the industry of the East] Gosudarstvennyi kapitalizm v promyshlennosti stran Vostoka. Moskva, Izd-vo vostochnoi lit-ry, 1961. 92 p. (MIRA 14:9) (Asia—Government ownership) (Asia—Economic conditions)

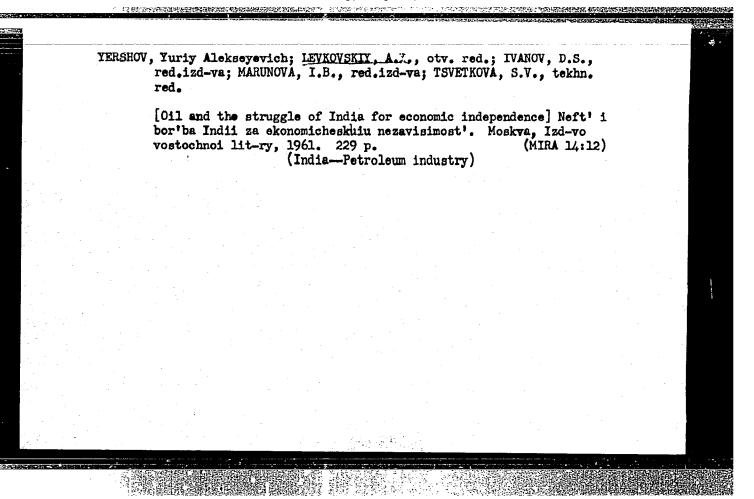
PAVLOVSKIY, V.; LEVKOVSKIY, A.I., kand. ekonom. nauk, red.; GARSIA,L., red.; DĀRONYAN, M., mladshiy red.; MOSKVINA, R., tekhm. red.

[Economy of modern Thailand] Ekonomika sovremennogo Tailanda.

Moskva, Izd-vo sotsial'no-ekon.lit-ry, 1961. 182 p.

(MIRA 15:2)

(Thailand-Economic conditions)



MOTYLEV, Vol'f Yevnovich, prof.; Prinimali uchastiye: LEVKOBVSKIY, A.I., kand. ekon. nauk; PAVLOV, V.I., kand. istor. nauk; MOTYLEV, V.V., kand. ekon. nauk, dotsent; KONYAYEV, A.I., kand. ekon. nauk, dotsent; CHEKHUTOVA, V., red.; STREPETOVA, M., mladshiy red.; MO-SKVINA, R., tekhm. red.

[Economic history of foreign countries; epoch of premonopolistic capitalism] Ekonomicheskaia istoriia zarubezhnykh stran; epokha Comonopolisticheskogo kapitalizma; kurs lektsii. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1961. 399 p. (MIRA 14:9) (Economic history)

LEVKOVSKIY, Aleksey Ivanovich: D'YAKOV, A.M., otv.red.; TUZMUKHAMEDOV,R.A., red.; FRIDMAN, L.Sh., red.; YAZLOVSKAYA, E.Sh., tekhn. red.

[Characteristics of the development of capitalism in India]
Osobennosti razvitiia kapitalizma v Indii. Moskva, Izd-vo
vostochnoi lit-ry, 1963. 587 p.

(India—Economic conditions)

LEVKOVSKIY, Aleksey Ivanovich; D'YAKOV, A.M., otv. red.;

TUZMUKHAMEDOV, R.A., red.; FRIDMAN, L.Sh., red.;
YAZLOVSKAYA, E.Sh., tekhn. red.

[Chacteristics of the development of capitalism in India]
Osobennosti razvitiia kapitalizma v Indii. Moskva, Izd-vo
vostochnoi lit-ry, 1963. 588 p. (MIRA 16:4)

(India--Capitalism)

HEVKOVSKIY, N., mładshiy nauchnyy sotrudnik

Beauty, comfort, safety. Za bezop.dvizh. 4 no.1:14-15 Ja '62.

(MIRA 16:7)

1. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta. (Motor vehicles)

6

LEVKOYSKIY, N.; KUZNETSOV, Ye.; AKHPOLOV, I.

Maintenance and repair of refrigerated motortrucks. Avt.
transp. 43 no.12:22-24 D '65. (MIHA 18:12)

KUZNETS, M.M., prof. [deceased]; BOGDANOVICH, S.N., dotsent; LEYKOVSKIY, N.M., kand. med. nauk; SEMENOVA, V.N.; GLUKHEN'KIY, B.T.; FUKI, M.M.; OSADCHIY, Ye.D.; RARABASH, M.Ye.; VIL'CHINSKIY, S.P.; VITER, I.S.; VOROBETS, I.F.; GRABOVSKAYA, R.A.; RAKHMATULLINA, M.G.; SALOVA, G.V.

Treatment of lupus eruthermatosus with phthivazid. Vrach. delo no.4: 373-378 Ap '59. (MIRA 12:7)

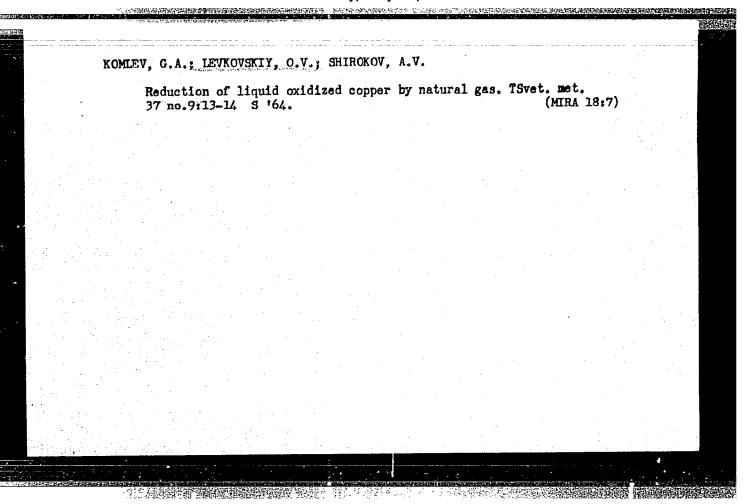
1. Kiyevskiy meditsinskiy institut.
(IUPUS)(ISONICOTINIC ACID)

LEVKOVSKIY, N.M., kand.med.nauk

Digestive disturbances in patients with lupus erythematosus. Vrach. delo. no.6:639 Je *59. (MIRA 12:12)

1. Klinika kozhnykh i venericheskikh bolezney (zav. - kafedroy - prof. Kuznets, M.M. [deceased]) Kiyevskogo meditsinskogo instituta.

(LUPUS) (DIGESTIVE ORGANS)



KCMIEV, G.A.; LEVKOVSKIY, O.V.; TURTSOV, O.A.; SHIROKOV, A.V.

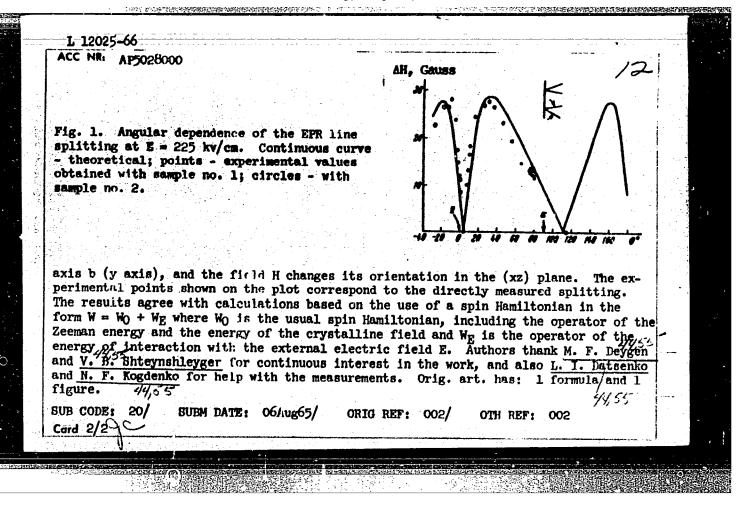
Use of reducers in the deoxidation of molten copper by the products of incomplete combustion of natural gas. Izv. AN Uz. SSR. Ser. tekh. nauk 9 no.2:94-97 '65. (MIRA 18:8)

1. Sredazniprotsvetmet.

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929710

	L_12025-66EWT(1), _IJP(c)WV/GG	
	SOURCE CODE: 1IR/0386/65/00:/007/03th/03he	
	AUTHOR: Bugay, A. A.; Levkovskiy, P. T.: Maksimenko, V. M.; Pashkovskiv, H. V.; Roytsin, A. B. 7/55 ORG: Institute of Semiconductors Academy of Coleman Maksimenko, V. M.; Pashkovskiv, H. V.;	
	1 2/52	
	TITIE: Splitting of EPR lines of Cr3+ in ZnWO4 by an external electric field SOURCE: Zhurnal eksperimental nov i topreticheskoy fiziki. Pis'ma v redaktsiyu. (Prilozheniye), v. 2, no. 7, 1965, 344-346	
	TOPIC TAGS: zine compound, EFR spectrum, line splitting	
	ABSTRACT: The authors have observed the splitting of two Cr3+ EPR lines corresponding to transitions between the subjects of the Kramers doublets occurring when an external static electric field E is applied to a ZnWO4 crystal, in which are two non-equivalent positions of the Zn ⁻¹ ion replaced by the Cr3+ ion. These positions differ in inversion with respect to the position occupied by the zinc ion, so that the shift of the EPR line should manifest itself in the form of its splitting. The dependence of the line splitting on the orientation of an external static magnetic field it was also investigated. The experiments were made with an EPR spectrometer operating at 9380 Mc and at room temperature. The angular dependence of the line splitting, corresponding to the transition between the sublevels of the lower Krames doublet (Fig. 1), is presented for the case when the field E is directed along the crystallographic	
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2 D/960		•

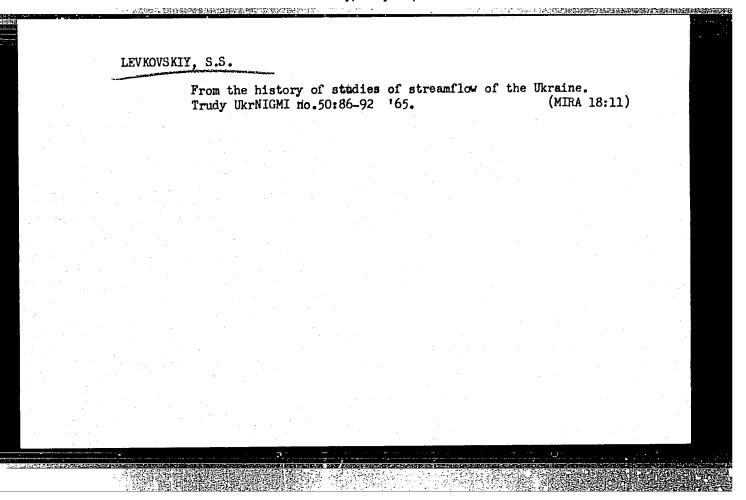


"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710

L 40995-66 EWT(1) IJP(c) 署署/GG ACC NR. AP6020205 SOURCE CODE: UR/0056/66/050/006/1510/1518 AUTHORS: Bugay, A. A.; Levkovskiy, P. T.; Maksimenko, V. M.; Pashkovskiy, M. V.; Roytsin, A. B. AUTHORS: ORG: Institute of Semiconductors, Academy of Sciences, Ukrainian SSR (Institut poluprovodníkov Akademii nauk Ukrainskoy SSR) Splitting of EPR lines of Cr3+ in ZnWOu by an external electric TITLE: field SOURCE: Zh eksper i teor fiz, v. 50, no. 6, 1966, 1510-1518 TOPIC TAGS: electric field, line splitting, Hamiltonian spin, EPR ABSTRACT: Splitting of EPR lines of Cr3+ in ZnWO4 by an external electric field has been detected. An investigation has been made of the angular dependence of splitting (dependence of splitting value on orientation of external magnetic and electric fields with respect to crystallorgraphic axes). A Hamiltonian spin is set up describing the interaction between the system and the external electric field. Correc tions to the transition frequencies have been found. The theoretical results satisfactorily describe the experimental angular dependences of the splitting. The corresponding Hamiltonian spin constants have Card 1/2

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710

been determined. dependence and angine detected for the filed. A qualitat described. The autheir constant intindividual problem Orig. art. has: 6	ular dependence of irst time in the ive interpretation thors thank M. F. erest in thus wor	absence of an of the phen of t	external el comenon has b b. Steynsh rkin for dis	ectric een leyger for cussion of asurements.	
authors' abstraction SUB CODE: 20/ SUBM	DATE: 24Jan66/	ORIG REF: 007/	OTH REF: 00	8	



LEVKOVSKIY, S.S.

Study of calculation parameters of the annual flow of rivers of the Ukraine. Trudy UkrNIGMI no.51:21-31 '65.

(MIRA 18:9)

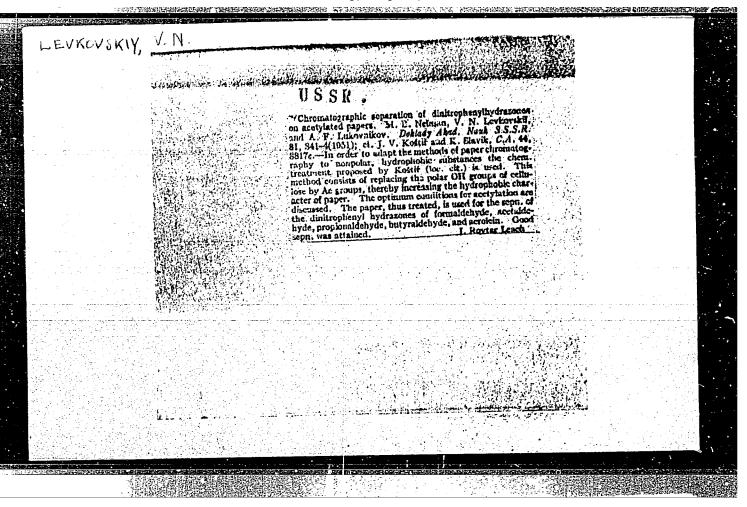
LEVKOVSKIY S.S.

Fluctuations in the water content of rivers of the Ukrainian S.S.R. Geofiz. i astron. no.8:163-166 65.

1. Ukrainskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0009297100

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710



C-5

LEVKOVSKIY, V.N.

USSR/Nuclear Physics

Abs Jour

Inst

Referat Zhur - Fizika, No 5, 1957, 11214

Levkovskiy, V.N. Author

Institute of Chemical Physics, Academy of Sciences, USSR

Relative Cross Sections of n-p Reactions on Nuclei With Title

Several Stable Isotopes.

Zh. eksperim. i teor. fiziki, 1956, 31, No 2, 360 Orig Pub

The relative cross sections of the (n,p) reactions on Abstract

isotopes of Zr, Cd, Ti, and Sr, and Ca were measured by analysis of the curves of nuclear decay vs. reaction products. From the data obtained and from the analysis of the data by Pauli and Clarke (Referat Zhur Fizika, 1955, 8684) on the cross sections of the (n,p) reactions on isotopes of Mg, Si, S, Zn, and Ge, the author draws the fol-

lowing conclusion: (1) The cross sections of the (n,p)

Card 1/2

USSR/Nuclear Physics

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Abs Jour

: Ref Zhur - Fizika, No 5, 1957, 11214

reactions on nuclei with several isotopes are reduced substantially with increasing weight of the isotopes. This reduction is greater for the lighter nuclei. (2) In light nuclei, an increase in the atomic weight by two units reduces the cross section to one quarter (Ca, Si, S, Zn) or to 1/16 (Mg, Ti), while in heavier ones the reduction is to one half (Sr, Zi, Cd, Ge). (3) The results obtained apparently contradict the statistical theory and possibly are evidence of the retention of the shell structure even at high excitation energies.

Card 2/2

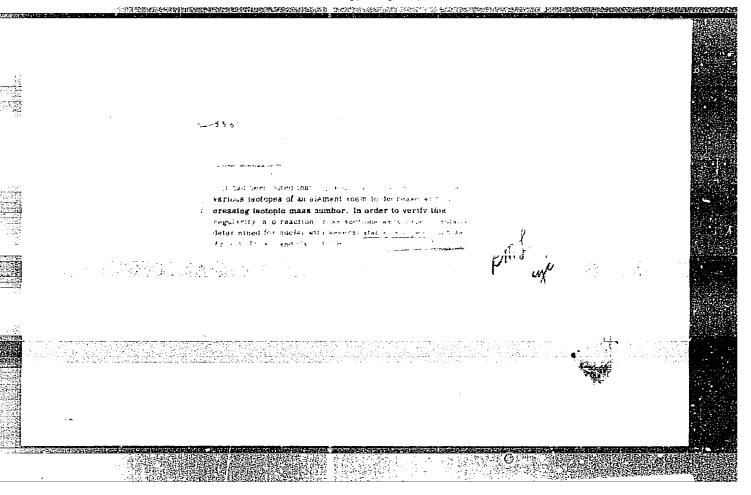
LEVKOVSKIY, V. N.

"Relative Cross Sections at 14 Mev Neutron Energy for (n,p) and (n,∞) Reactions on Elements Possessing Several Stable 1sotopes."

(Inst. of Chemical Physics)

paper submitted at the A-U Conf. on Nuclear Reactions in Medium and Low Energy Physics, Moscow, 19-27 Nov 1957.

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710



	56-6-36/47
AUTHOR:	Levkovskiy, V. N.
TITLE:	Levkovskiy, V. N. The Relative Cross Sections of (n, p) and (n, a) Reactions in Elements With Some Stable Isotopes (Otnositel'nyye secheniya n, p - i ments With Some Stable Isotopes (Otnositel'nymi izotopami) n, a reaktsiy na elementakh s neskol'kimi stabil'nymi izotopami)
	n, or reaktsiy na elementaki s noval, noval reaktsiy na elementaki s noval, nov
PERIODICAL:	Zhurnal Eksperimental noy - Nr 6, pp. 1520 - 1521 (USSR) Nr 6, pp. 1520 - 1521 (USSR)
ABSTRACT:	Nr 6, pp. 1520 - 1521 (USSR) Nr 6, pp. 1520 - 1521 (USSR) 1.) The following cross sections for the respective (n, p) reac- tions were measured $(E_n = 14 \text{ MeV})$.
	or Ca 42; of Ca 1 = 1 1 (0) = 1
	$\sigma^{\text{Ca}}^{\text{Ti}}$ $\sigma^{\text{Ca}}^{\text{Ti}}$ $\sigma^{\text{Ti}}^{\text{49}} = 1 : (0.55 \pm 0.15)$ $\sigma^{\text{Ti}}^{\text{48}}$: $\sigma^{\text{Ti}}^{\text{49}} = 1 : (0.55 \pm 0.15)$ $\sigma^{\text{Zn}}^{\text{64}}$: $\sigma^{\text{Zn}}^{\text{66}}$ $\sigma^{\text{Zn}}^{\text{67}} = 1 : (0.36 \pm 0.02) : (0.23 \pm 0.03)$
	σ_{Ga}^{2n} : σ_{Ga}^{21} = 1 : (0,50 ± 0,05) σ_{Ge}^{70} : σ_{Ge}^{72} : σ_{Ge}^{73} : σ_{Ge}^{74} = 1 : (0,39±0,02):(0,24±0,02): σ_{Ge}^{70} : (0,13 ± 0,03)
	σSr^{86} : $\sigma \text{Sr}^{88} = 1 : (0.46 \pm 0.04)$ σZr^{90} : σZr^{91} : σZr^{92} : $\sigma \text{Zr}^{94} = 1 : (0.74 \pm 0.05) : (0.46 \pm 0.04) : (0.26 \pm 0.02)$
Card 1/3	

56-6**-**36/47

The Relative Cross Sections of (n, p) and (n, α) Reactions in Elements With Some Stable Isotopes

$$\sigma \operatorname{Cd}^{106}$$
: $\sigma \operatorname{Cd}^{111}$: $\sigma \operatorname{Cd}^{112}$ $\operatorname{socd}^{113}$ = $(5\pm 1):1:(0,71\pm 0,03):(0,52\pm 0,2)$
 $\sigma \operatorname{Ce}^{140}$: $\sigma \operatorname{Ce}^{142}$ = 1 : $(0,60\pm 0,15)$

From these and other known published data it follows that the cross section of the (n, p) reaction in elements with several stable isotopes decreases considerably with increasing mass number. Herefrom the general conclusion may be drawn that the probability of the liberation of a proton from an excited nucleus is connected with the proton concentration in the nucleus.

2.) For (n, α) -reactions the following measurements were carried out:

out: $\sigma c1^{35} : \sigma c1^{37} = 1 : (0,27 \pm 0,15)$

 $\sigma Ge^{72} : \sigma Ge^{74} = 1 : (0.47 \pm 0.04)$

 $\sigma \text{Rb}^{85} : \sigma \text{Rb}^{87} = 1 : (0,39 \pm 0,02)$

 $\sigma_{\rm Zr}^{94} : \sigma_{\rm Zr}^{96} = 1 : (0,50 \pm 0,05)$

 $\sigma \text{ Ca}^{112}$: $\sigma \text{ Ca}^{114}$ = 1 : (0,50 ± 0,03)

3.) Together with the datermination of these cross sections also the following further data were determined:

The Relative Cross Sections of (n, p) and (n, ∞) Reactions in Elements With Some

Ge
$$(n, p)$$
 Z_n^{71m} $T_{1/2} = 3.92 \pm 0.05 h$ Ge (n, p) G_n^{74} $T_{1/2} = 8.0 \pm 0.5 m$ Rb⁸⁷ (n, a) Br⁸⁴ $T_{1/2} = 8.0 \pm 0.5 m$ $T_{1/2} = 25.5 \pm 0.5 m$ $T_{1/2} = 7.0 \pm 0.5 m$; $T_{1/2} = 7.0 \pm 0.5 m$; $T_{1/2} = 7.0 \pm 0.5 m$

There are 7 references, 1 of which is Slavic.

ASSOCIATION: Institute of Chemical Physics AN USSR

(Institut khimicheskoy fiziki Akademii nauk SSSR)

SUBMITTED: July 31, 1957

AVAILABLE: Library of Congress

Card 3/3

PA - 3136 DZANTIYEV B.G., LEVKOVSKIY V.N., MALIYEVSKIY A.D., The (n,a) Reactions of 14 -KeV Neutrons With Cadmium. AUTHOR (Reaktsii (n,a) li MeV neytronov s kadmiyem -Russian) TITLE Doklady Akademii Nauk Bush, 1957, Vol 113, Nr 3, pp 537-540 (U.S.S.R.) PERIODICAL Received 6/1957 The present paper investigates the (n,a) reactions on cadmium, in which palladium isotopes are created, Parallel hereto the cross section of the ABSTRACT production of Pd109 from silver was determined by means of a (n,p)-reaction. Because of the many stable caomium isotopes the products created on the occasion of the reactions could be identified only by means of the Realization of the reactions Cd(n,c)Pd and identification of the products of the reactions: Metallic cadmium or its salts were irradiated with ~4 MeV (d,d) -newtrons, lh MeV (t,d) -newtrons and fission newtrons. The radiosctive palladium was precipitated from the targets by a precipitation of dimethyl glyoxime in an acid medium. The activity of the thus obtained radiochemical pure samples was measured by means of a GEIGER counter, or these samples were dissolved. From this solution, silver (AgCl) was segregated within fixed time intervals for the purpose of identifying the palladium isotope on the basis of the daughter products. On the occasion of irradiation with b, MeV neutrons no radioactivity was observed in the palladium fraction. In the case of irradiation with fission neutrons an activity of the palladium with T = 11 hours was observed. In the case of irradiation with Card 1/2

The (n,α) Reactions of the MeV Neutrons With Cadmium. PA = 3136 lip MeV neutrons radioactive components with halfvalue periods (22+1) minutes, $(5,5\pm0,2)$ hours and $(11,0\pm0,5)$ hours were found to exist in the palladium fraction 3. The ratio of the initial activities of these components amounts to $(26,1\pm0,8)$: $(0,11\pm0,01)$ 8 1.0. A table knows the results of the graphical analysis of the decay curves of the cadmium samples which were separated by the different cadmium targets. These results are then discussed in detail.

Measuring of the cross sections of the reactions $Gd^{118}(n,\alpha)Pd^{109}$, $Gd^{114}(n,\alpha)Pd^{114}$ and $Gd^{109}(n,\alpha)Pd^{109}$ as well as of the reactions with the MeV neutrons. All necessary activities were measured by means of a GEIGHR counter at equal geometrical conditions. The cross sections thus computed and the standard deviations are shown together in a table.

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Chemical-Physical Institute of the Academy of Science of the U.S.S.R. KONDRAT'YEV V.N., Member of the Academy 20.11.1956
Library of Congress

LOUK COSPORA, VIVI

AUTHOR: TITLE:

DZANTIYEV, B.G.11 LEVKOVSKIY, V.N., MALIYEVSKIY, A.D., SERDOBOV, M.V. The Isemer Pd

(Izemer Pd 111a. Russian).

Deklady Akademii Namk SSSR, 1957, Vel 113, Nr 4, pp 773 - 776 PERIODICAL:

(U.S.S.R.)

ABSTRACT:

First of all the authors give some information on relevant preliminary papers. It is the aim of the paper under review to demenstrate unambiguously that the 5.5-hours palladium activity belongs te a certain isetepe er isemer ef the palladium. Fer this purpese, experiments were carried out with regard to the radiochemical separatien of isomers in the mixture of the radioactive isotopes of palladium which are produced at the reactions $Cd(n,\alpha)$ and $Pd(n,\gamma)$. The method of the chemical separation of the nuclear isomers is based on the Szilard-Chalmers phenomenon. When working on the metheds for the separation of the palladium isomers, the authors of the paper under review tried reagents: dimethyl glyexime, acetexime, salicylic aldexime and α -nitrese- β -naphtel. The best results were obtained with salicylic aldexime. Salicylic aldexime is suited for the separation of the nuclear isomers of palladium.

The Separation of the Isomers Pd and Pd Produced at the Re-

action Cd 114(n.a) Pd 111 Card 1/3

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R0009297

20-4-14/61

The Isemer Pd 111a

During a period of 4 hours, 400 g of cadmium nitrate were exposed to radiation of a current of neutrons of 14 MeV ($\sim 10^7$ neutrons/cm²/sec.). The experimental arrangements are discussed. In the mixture of the radioactive palladium isotopes produced a t the reactions $Cd(n,\alpha)$ Pd there is contained the isomer Pd which is genetically connected with Pd (T=22 min.).

The Identification of the Pd 111 (T=5.5 hours) in the Mixture of the Radioactive Palladium Isotopes which were produced at the reactions Pd(n,): The corresponding experiment, described in the paper under review proved the production of Pd with T=5.5 hours after the reaction Pd(n,) and also its genetic composition as Pd (T=22 min) and Ag (T=7.5 days). For the coefficient of the internal conversion the value α=a/b>0.185 was btained. Taking into consideration the given decay scheme Pd Pd 111 we have α>0.185:0.75 = 0.25.

The determination of the relative yield of the Pd and of the Pd at the reaction (n, y): done by a study of the relevant kinetics of the accumulation of the radioactive silver in the samples of the palladium exposed to radiation (4 reproductions, 3 charts).

Card 2/3

The Cross Section of the Reactions Cd(n,p)Ag at the Neutron Energy of 14 MEV.

measurements for the β-radiations of the Ag 106, Ag 111, Ag 112 and Ag 113. These data were obtained by measuring the activity of the silver precipitated from the cadmium target. This chart furthermore contains the data of the absorption measurements for the radiation of the Pdlo9 which was used in the computation of the reaction cross sections. The following conclusion can be drawn from this chart: The values, as measured by the author of the paper under review, of the maximum energies of the radiations with the half-value periods 24 minutes, 3.2 hours, 5.3 hours and 7.3 days are in good agreement with the values given in the relevant literature for the β-radiations of the Aglo6, Agll2, Agll3 and Agll1. Another chart compares the initial activities of Aglo6, Agll1, Agll2 and Agll3 as obtained in two investigations that were conducted independently from each other. The third chart compares the activities of Aglll and Pd109 as obtained in three parallel exposures to radiation. The cross sections of the reactions are computed from the data of these charts, and they are compiled in a further chart. (2 reproductions, 4 charts)

CARD 2/3

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LEVXOVSKIY,
 AUTHOR:
                      Levkovskiy, V. N.
                                                                                        89-1-12/29
                     The Reactions Ga (n,p), Ge (n,p) and Ge (n,\alpha) with 14 MeV
 TITLE:
                     Neutrons (Reaktsii (n,p) na gallii i germanii i (n,α) na ger-
                     manii pri energii neytronov 14 MeV)
PERIODICAL:
                     Atomnaya Energiya, 1958, Vol. 4, Nr 1, pp. 79 - 80 (USSR)
                     The targets were irradiated for from 1 to 30 minutes, and the
ABSTRACT:
                     isotopes formed were radiochemically separated.
                     The following results were obtained:
                     1. Ga^{69}(n,p) Zn^{69} Ge^{72}(n,\alpha) Zn^{69}
                                                                                        confirmed
                     2. Ga^{69}(n,p)
Ge^{72}(n,\alpha)
                                         Zn69m
                                        Zn69m
                                                                                        confirmed
                     3. Ga71(n,p)

Ge74(n,\alpha)
                                        Zn71
                                         Zn71
                                                                                        confirmed
                     4. Ga_{1}^{71}(n,p)
                                        Zn^{71m}
                                                   new nucleus: T_{1/2} = 3,92 \pm 0,05 \text{ h}
                                        Zn^{71m}
                         Ge74(n,\alpha)
                                                                    E_R = 1,5 \text{ MeV}
                    5. \sigma(Ge^{72}(n,\alpha)) : \sigma(Ge^{74}(n,\alpha)) = 1 : (0,47 \pm 0,02) \sigma(Ga^{69}(n,p)) : \sigma(Ga^{71}(n,p)) = 1 : (0,50 \pm 0,05)
Card 1/2
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APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710(

AUTHOR TITLE

LEVKOVSKIY V.N.

20-5-24/67

The Cross Section of the Reactions Cd(n,p)Ag Energy of 14 KE7. (Secheniye reaktsiy Od(n,p)ag pri energii at the Neutron neytronov 14 MEV. - Russian)

PERIODICAL.

ABSTRACT

Doklady Akademii Nauk SSSR 1957, Vol 113, pp 1032-1034, Nr 5 (USSR) The cross sections of the reactionsCd(n,p) Ag were computed by comparing the β -yield of these reactions with the yield of the reaction $Cd^{1/2}(n,\alpha)Pd^{1/9}$. According to an earlier measurement, the cross section of the reaction $Cd^{1/2}(n,\alpha)Pd^{1/9}$ amounts to $(1.35+0.27).10^{-27}$ cm². For a period of 0.5 to 1 hour, samples of cadmium nitrate were exposed to radiation by electrons, dissolved, and from the solution wit the carrier the palladium was precipitated with dimethyl glyoxime, The activity of the precipitation was measured with the aid of a cylindrical Geiger counter. A diagram shows a typical damping curve of the activity of the silver precipitation, and another diagram contains the results of the graphical analysis of this curve. The half-value periods obtained in the paper under review (24 minutes; 3.2 hours; 5.3 hours; 7.5 days) are in good agreement with the half-value periods of Aglob, , Agl13 and Agl11 as listed in the available literature on this subject. Another chart contains the data of the absorption

CARD 1/3

HARRIST WEST STREET, WAS AND THE STREET, WAS AND THE STREET, WHEN THE STREET, WAS AND THE STREET, WHICH STREET,

EPF(n)-2/EWT(m)/BDS AFFTC/ASD/SSD Pu-4 \$/0056/63/045/002/0305/0311 ACCESSION NR: AP3005284 AUTHOR: Levkovskiy, V. N. TITLE: Empirical relations for the (n, p) cross sections for 14-15 MeV neutrons SOURCE: Zhur. eksper. i teoret. fiz., v. 45, no. 2, 1963, 305-311 TOPIC TAGS: (n, p) reaction, cross section, thermal effect ABSTRACT: An analysis of experimental data obtained by the author by the activation method and by others on the cross sections of the (n, p) reaction at neutron energies 14--15 MeV has shown that in the range 12 < A < 150 the cross sections are described well by a simple relation which contains only one empirical coefficient which is the same for even-even, even-odd, and odd-odd nuclei and does not vary in the regions of magic Z and N. This formula can be simply related with thermal effects by using a semi-empirical relation given Card 1/2

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000929710

	그렇다 살아들이 그렇게 되면 가는 얼굴이다.		
however, must not be regard	29, 373, 1962). The result led as a confirmation of the , in view of the crude appr , art. has: 5 formulas and	oximations	
	ernoy fiziki Akademii nauk k Lcs. Academy of Sciences Kaz	Kazakhskoy SSR	
SUBMITTED: 06Feb63	DATE ACQ: 06Sep63	ENCL: 00	
SUB CODE: PH	NO REF SOV: 007	OTHER: 004	
. (16) 12 - 13 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	화가를 가능하는 경화를 하는 것이다.		

LEVKOVSKIY, V.N.

Empirical behavior of (n, p) reaction cross sections involving 14-15 Mev. neutrons. Zhur. eksp. i teor. fiz. 45 no.2:305-311 Ag '63. (MIRA 16:9)

1. Institut yadernoy fiziki AN Kazakhskoy SSR. (Nuclear reactions)

レビレドロVコビト

AUTHOR TITLE

DZANTIYEV B.G., LEVKOVSKIY V.N., MALIYEVSKIY A.D.,

PA - 3136

The (n,a) Reactions of 14 MeV Neutrons With Cadmium.

(Reaktsii (n.g.) ll MeV neytronov s kadmiyem -Russian) Doklady Akademii Nauk 255R, 1957, Vol 113, Nr 3, pp 537-540 (U.S.S.R.)

Reviewed 7/1957

Received 6/1957

ABSTRACT

PERIODICAL

The present paper investigates the (n.c) reactions on cadmium, in which palladium isotopes are created. Parallel hereto the cross section of the production of Pd109 from silver was determined by means of a (n,p)-reaction. Because of the many stable cadmium isotopes the products created on the occasion of the reactions could be identified only by means of the radiochemical method.

Realization of the reactions Cd(n, a)Pd and identification of the products of the reactions: Metallic cadmium or its salts were irradiated with ~4 MeV (d,d) -newtrons, 14 MeV (t,d) -newtrons and fission newtrons. The radioactive palladium was precipitated from the targets by a precipitation of dimethyl glyoxime in an acid medium. The activity of the thus obtained radiochemical pure samples was measured by means of a GEIGHR counter, or these samples were dissolved. From this solution, silver (AgCl) was segregated within fixed time intervals for the purpose of identifying the palladium

isotope on the basis of the daughter products. On the occasion of irradiation with 4 MeV neutrons no radioactivity was observed in the palladium fraction. In the case of irradiation with fission neutrons an activity of the palladium with T = 14 hours was observed. In the case of irradiation with

Card 1/2