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SYRNEV, I.P.

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l. Nauchno-issledovatel'skaya laboratoriya geologicheskikh kriteriyev otsenki perspektiv neftegazonosnosti Glavnogo upravleniya geologii i okhrany nedr pri Sovete Ministrov RSFSR.

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ARKHIPOV, A.Ya.; ALTAYEVA, N.V.; BAYBULATOVA, Z.K.; VISKOVSKIY, Yu.A.; GOLENKOVA, N.P.; KRAVCHENKO, M.F.; KUPRIN, P.N.; LEVIN, A.I.; POL'STER, L.A.; SEMOV, V.N.; SYRNEV, I.P.; USHKO, K.A.; SHOLOKHOV, V.V.; Prinimali uchastiye: RODIONOVA, M.K.; CHEL'TSOV, Yu.G.; KUZNETSOV, Yu.Ya., kand. geograf. nauk, nauchnyy red.

> [Geology and oil and gas potentials of the south of the U.S.S.R.; Kara-Bogaz-Gol (Gulf) region (eastern part of the Middle Caspian oil- and gas-bearing basin).] Geologiia i neftegazonosnost' iuga SSSR; Prikarabozaz'e (vostochnaia chast' Srednekaspiiskogo neftegazonosnogo basseina). Leningrad, Nedra, 1964. 300 p. (Trudy Nauchno-issledovatel'skoy laboratorii geologicheskikh kriteriyev otsenki perspektiv neftegazonosnosti no.l2).

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SYRNEV, L. [Surnev, L.] Slow conditions of a PbS surface. Doklady BAN 16 no.3:233-236 '63. 1. Predstavleno akad. G. Nadzhakovym.

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AUTHOR:

TITLE:

R: Syrnev, L.N.

LE: Production of photo-sensitive surface PbS monocrystals and investigation of the photo-effect mechanism

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 28, abstract 10 G195 (Dokl. Bolg. AN, 1960, 13, no. 3, 269-272 (English summary))

TEXT: In various photo-effect models of PbS, PbTe and PbSe it is assumed that the photo-conductivity is connected with the micro-crystalline structure of the photo-conductive layer. It was, therefore, interesting to investigate the behavior of monocrystals in the case where point-contacts do not exist. For this purpose, the PbS monocrystals were sensitized, the process being similar to that for poly-crystalline layers, and for this purpose PbS was heated to 400°C in the presence of S vapors for several

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Production of photo-sensitive ...

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hours with subsequent polishing and heating in air to 590°C for a short period. The detailed investigations of the photo-galvanic effect, the thermo-emf, rectifier effect and the life time of the unstable carriers demonstrated a full similarity to the effects in monocrystals and layers, showing that both depend upon the same processes. 12 references. / Abstracter's note: Complete translation_/

Card 2/2

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DIMCHEV, T.; SYRNEV, L. [Surnev, L.]

Changes in the work function of PbS monocrystals with the change of gas medium. Doklady BAN 16 no.6:577-580 '63.

1. Predstavleno akad. G. Nadzhakovym, chlenom Redaktsionnoy kollegii, "Doklady Bolgarskoy Akademii nauk".

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SYRNEV, N.I. (Moskva)

Studying the slide rule (logarithmic) in an eight-year school. Mat.v shkole no.4:34-38 J1-Ag '60. (MIRA 13:9 (MIRA 13:9) (Slide rule)





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1. Head of the Department of Children's Discuses, Astrakhan' Nodical Institute, Astrakhan'.

CLIL 20, 3, March 1951

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SYRNEV, V., (Engr-Maj, Candidate of Technical Sciences)

Coauthor with Engr-Maj V. SYRNEV of article, "The Physics of the Action of Nuclear Forces," subtitled, "Radioactive Emissions," discussing the rays emitted by radioactive substances, their penetrating power, and their effect on the human body. The 'dose concept" and the amount of dosage necessary to harm the body tissues are also mentioned. (Article translated in full in Joint Press Reading Service, No 148, 28 May 1954.) (Krasnaya Zvezda, Moscow, 26 May 54).

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SO: SUM No. 208, 9 Sep 1954

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SYRNEV, V., (Engr-Maj, Candidate of Technical Sciences)

Author of article, "The Physics of the Action of Nuclear Forces (Measuring Radiation)," discussing radiometric and dosimetric measuring devices. The author told how radiationmeasuring devices are constructed and how they operate, and described a fountain-pen-size, pocket radiation-measuring device. /Full translation of article appeared in Joint Press Reading Service, No 166, 15 June 1954. (Krasnaya Zvezda, Moscow, 10 Jun 54)

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IVANOV, Anatoliy Ivanovich; SYRNEV, V.P., inzhener-mayor, kandidat tekhnicheskikh mauk, redaktor; MADER, Ya.M., redaktor izdatel'stva; SEIBNIS, N.V., tekhnicheskiy redaktor

 [Nuclear radiation of atomic explosions] Iddernye izlucheniia atomnogo vzryva. Moskva, Voen. izd-vo Ministerstva obor. SSSR, 1956.211 p. (MIRA 9:9)

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AUTHOR:Syrnev, V. P., Eng.Lt.Col.; SciencesCandidate of Technical Sciences'TITLE:Ground Radiation Reconnaissance (Nazemnaya radiatsionnaya razvedka)PERIODICAL:Vestnik Vozdushnogo Flota, 1957; Nr 5, pp. 52-62 (USSR)ABSTRACTThe article points out that the basic measures of anti- atomic defense are constant reconnaissance of radiation and a dosimetric checking of irradiation and contamina- tion. The radiation of radioactive substances can be detected only with dosimetric instruments. The measure- detection of radiometric.	
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ABSTRACT The article points out that the basic measures of anti- atomic defense are constant reconnaissance of radiation and a dosimetric checking of irradiation and contamina- tion. The radiation of radioactive substances can be	
detected only with dosimetric instrumentic, ments can be either roentgenometric or radiometric. Roentgenometric measurements by means of roentgenometers or dosimeters show the ionizing effect produced by radiation, while radiometric measurements by radiometers show the activity of a radiation source (Figure 1) or the intensity of the contamination of the bodies or surfaces. The $\Delta \Pi -1$ (Figure 2) field roentgenometer which is the main instrument	

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Ground Radiation Reconnaissance (Cont.)

for ground radiation reconnaissance (a picture of this roentgenometer is given in the article) is intended to measure gamma radiation within the limits of 0.04 to 400 roentgen/hour. The weight of this instrument is about 6.7 kg. It is operated by one man. It consists of a receiver (ionization chamber) (Figure 3), an amplifier, a microammeter, and a power feeder. The wiring diagram of the reade enometer is given in Figure 4. The individual field dosimeter is intended to measure the effect on personnel of gamma radiation in a contaminated. terrain. The set contains small-weight ionization chambers and a charging-measuring panel (Figure 5). This instrument measures doses of 0 to 5 roentgens (first sub-range) and 0 to 50 roentgens (second sub-range). The weight of a separate ionization chamber is about 15 gr. A field radiometer (Figure 6) measures the intensity of the contamination of the soil and the surfaces of various objects by beta and gamma-active substances, as well as the contamination of food and water. The range of measurements of beta contamination is from 150 to 1,000,000 disintegrations/cm² min and for gamma radiation from 0.03 to

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SYRNEV, V.P

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Petrov, Nikolay Panteleymonovich, and Vladillen Pavlovich Syrnev

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- Radioaktivnyye izlucheniya i ikh izmereniya (Radioactive Radiation and Measurement) 2nd ed., rev. and enl. Moscow, Voyenizdat, 1960. 190 p. (Series: Nauchnopopulyarnaya biblioteka) Number of copies printed not given.
- Ed.: A.I. Sedov, Candidate of Technical Sciences, Engineer, Lt. Colonel; Ed. of Publishing House: Ya.M. Kader; Tech. Ed.: V.Ye. Volkova.
- PURPOSE: This book is intended for officers of the Soviet Army, DOSAAF instructors, and those interested in radioactive radiation and the measurement of radioactive radiation.
- COVERAGE: The book deals with radioactive radiation and methods of detecting it and includes the fundamentals of ionizing-radiation dosimetry and methods of recording ionizing radiation. The design principles and construction of the basic types of dosimetric field instruments are described, and operating instructions are given for their utilization in a contaminated locality in the area of an atomic explosion. Considerable attention is given to the characteristics of radioactive radiation. No personalities are mentioned. There are no references.

Card 1/3

APPROVED FOR RELEASE: 08/31/2001

SYRNEV, V.V.

Clinical aspects of endarteritis lenta. Vrach. delo no.3:301 Mr '57. (MIRA 10:5) 1. Gospital'naya terapevticheskaya klinika sanitarno-gigiyenicheskogo

fakul'teta Pervogo moskovskogo meditsinskogo instituta. (ARTERIES--DISEASES)

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SYRNEY, V.V. Barely considered possibility for prolonged lowering of erteriel blood pressure in hypertension. Sov.med. 21 no.10:108-112 (° 57. (HIRA 11:1) 1. Iz kefedry obshchey i gospital'noy terapii (zav. - deystvitel'myy chlen Akademii meditsinskikh nauk SSSR prof. Yo.M.Tereyev) santarno-gigtyenicheskogo fakul'tetat Moskovskogo ordens Lenins meditsinskogo institute imeni I.M.Sechenova. (HTPERTENSIOM, case reports spontaneous regression)

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SYRNEV, V. V., Cand Med Sci (diss) -- "Some aspects of the course of stages II and III of hypertension". Moscow, 1958. 19 pp (First Moscow Order of Lenin Med Inst im J. M. Sechenov), 200 copies (KL, No 13, 1960, 122)

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s/153/60/003/004/036/040/XX b020/b054

AUTHORS: Tronov, B. V., Syrneva, N. V.

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TITLE: Complexes of Aminobenzoic Acids and Their Salts With Meta-dinitro Benzene

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وأأنجعت

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol. 3, No. 4, pp. 752 - 753

TEXT: The authors studied the complex formation of the following amino acids of the benzene series: ortho-, meta-, and p-aminobenzoic acid with meta-dinitro benzene; the latter is distinguished by a high electron-acceptor activity. The colorimetric investigation was conducted in alcoholic solution, since both dinitro benzene and aminobenzoic acids are soluble in alcohol, whereas simple, saturated amino acids are insoluble in alcohol. In all three systems, the color is considerably intensified, the maximum exactly or almost exactly lying at a molar ratio of 1:1, which indicates that only one nitro group participates in the complex formation. This is confirmed by the circumstance that sodium salts of amino

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Complexes of Aminobenzoic Acids and Their Salts With Meta-dinitro Benzene

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acids, in which the formation of a hydrogen bond is impossible, also showed a color intensification in systems with dinitro benzene, the maximum lying at a ratio of 1:1. Crystalline complexes with dinitro benzene were obtained from ortho- and para-aminobenzoic acids. The optical density was measured at 19° C by an $\phi \exists K_{-}M$ (FEK-M) photoelectric colorimeter. Measurement results are given in Figs. 1 and 2. There are 2 figures and 1 Soviet reference.

ASSOCIATION: Tomskiy politekhnicheskiy institut im. S. M. Kirova (Tomsk Polytechnic Institute imeni S. M. Kirov). Tomskiy meditsinskiy institut, kafedra organicheskoy khimii (Tomsk Medical Institute, Department of Organic Chemistry)

SUBMITTED: July 15, 1958

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TRCHOV, B.V.; SYRNEVA, I.V. الافتراثوليا مورييهمه Complexes of aninobenzoic acids and their salts with dimitroben-(MIRA 16:9) zenes. Izv.TPI 111:3-5 61. (Eenzoic acid) (Nitrobenzene)

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SYRIEVA, N.V.: FOFONOVA, R.M.:

Determining the equilibrium constants in the process of complex formation of aminobenzoic and aminooxobenzoic acids and their sodium salts with dinitrobenzenes. Izv.vys. ucheb.zav.;fiz. (MIRA 17:6) no. 2266-18 164.

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosmars'vennas universitete imeni Kuybysheva.

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SYRTEMA, YE. I.

"On the Tharmacology of Migrin," 9, No. 6, 194 . Mar. Dept. Fharmacology, Inst. Tharmacology, Toxicology and Chemotheraty, Min. Medical Industry, 535R, -1946-.



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CONCERNMENT OF STATE ANEV V Pharmacology and Toxicology. Ganglionic Blocking COUNTRY 1 CATEGORY : Agents : RZhBiol., No. 5 1959, No. 23096 ABS. JOUR. Syrneva, Yu. I. . AUTHOR Nanofin, a New Ganglionic Blocking Drug 1 INST. TITLE ORIG. PUB. : Med. prom-st' SSSR, 1957, No 6, 42-43 Nancfin (N) (hydrochloride of the isomer of 2,6dimethylpiperidine) is a synthetic optic racemate ABSTRACT of one of the alkaloids contained in Kanophyton erinaceum. N is little toxic. Its ganglionic blocking action exceeds the action of tetraethylammonium by 5-7 times. The decrease of arterial pressure in animals (within the limits of 40 mm of mercury), following intravenous introduction A-U Sa Rea Chem Charm Inst 12 3 25 Card:

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	ABSTRACT cont†ă	1	function. It is prescribed, per es, in deses of 0.1-0.2 g, 2-3 times a day; subcutaneously and intravenously, in deses of 1 ml of 2% or 5% so- lution, 2-3 times a day. Average duration of the treatment is 3-4 weeks E. I. Kandel'	
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SYRMEVA, Yu.J. Malation of structure bo the effect on the adrenoreactive system of certain aryltetrahydrooxazoles. Farm. i toks.20 no.6:15-20 M.D '58 (MIRA 11:6) 1. Otdel farmakologii (gav. - prof. M.D. Mashkovskiy) Vaesoyuanogo nuchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni S. Ordzhonikidze. (SYMPATHOM IMETIOS. aryltetrahydrooxazoles, review (Rus))

APPROVED FOR RELEASE: 08/31/2001

SYRIEVA, Yu.I. The antispasmodic drug, hexamidine. Med.prom. 13 no.1:56-57 (MIRA 12:10) Ja 59. 1. Vsesovuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze. (ANTICONVULSANTS) (PYRIMIDINE)

APPROVED FOR RELEASE: 08/31/2001

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001654310011-9

5 (3) SOV/79-29-7-72/83 AUTHORS : Danilova, A. V., Utkin, L. M., Kozyreva, G. V., Syrneva, Yu. I. TITLE: A New Alkaloid Which Is an Isomer of Platyphyllin (Novyy alkaloid, izomernyy platifillinu) PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2432-2436 (USSR) ABSTRACT: Platyphyllin bitartrate is prepared from the broadleaved Senecio platyphyllus. As to its chemical structure the platyphyllin is a diester of platynecin and the senecinic acid (Ref 1). In the processing of the industrially manufactured alcoholic mother liquids a new base which had been called neoplatyphyllin was obtained on separation and recrystallization of platyphyllin bitartrate. As to composition and functional groups, this new base is identical with platyphyllin. Their basicity and infrared absorption spectra (Fig) show little difference, but as far as the physical properties are concerned, the neoplatyphyllin and its salts differ from platyphyllin and its salts. The bitartrate of neoplatyphyllin shows well pronounced cholinolytic and spasmolytic properties. As to activity and mode of action it is closely related with platyphyllin, but it is twice as toxic. Card 1/3Alkaline and acid hydrolysis of both compounds yield the same

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A New Alkaloid Which Is an Isomer of Platyphyllin

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products. The authors assume that the difference between both bases is due to the steric configuration of the acid component of their molecules because, as is known, the "necinic" acids with double bonds show in addition to the optical isomerism also the geometrical one (Ref 2). The structure of the senecinic acid corresponds with the formula (I) (Ref 3). In order to investigate further the properties of both compounds the alkaloids were reduced with LiAlH,. The resultant trivalent alcohols had to possess structure (II), according to the structure of the senecinic acid. The chemical and spectroscopic results obtained confirm the assumption of the authors that the different spatial configuration of the esterifying acids is the cause of the difference between neoplatyphyllin and platyphyllin. The formation of a trivalent alcohol from the senecinic acid, by treating it with alkali liquor, which is qualitatively different from the alcohols obtained by direct reduction of the alkaloids, confirms the observation that the "necinic" acids separated by alkaline hydrolysis of the alkaloids of the species Senecio possess a configuration which differs from that in which they enter into the composition of the alkaloid molecules. There are 1 figure

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SYRNEVA, Yu.I.

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Pharmacology of nanofin. Khim. i med. no.15:70-76 '60. (MIRA 15:1) 1. Iz otdela farmakologii (zav. - prof. M.D.Mashkovskiy) Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni S. Ordzhonikidze. (PIPERIDINE_PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 08/31/2001

SYRNEVA, Yu.I.; ABRAMOVA, P.N.

Data on comparative studies of the activity of crystalline cymarin and a standard liquid Adonis preparation on R. tempraria. Farm.i (MIRA 14:3) toks. 23 no.6:521-525 N-D '60.

1. Otdel farmakologii (zav. - prof. M.D.Mashkovskiy) Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni S. Ordzhonikidza.

(ADONIS)

(CARDIAC GLYCOSIDES)

SYMNEVA, Yu.I.

Relationship between the structure and effect of certain 2,6dimethylpiperidine derivatives on the choline reactive systems. Farm. toks. 24 no.3:304-309 My-Je '61. (MIRA 15 (MIRA 15:1)

1. Otdel farmakologii (zav. - prof. M.D.Mashkovskiy) Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni S.Ordzhonikidze. (PIPERDINE)

(CHOLINE) (NERVOUS SYSTEM)

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SYRNEVA, Yu.I.; SUKHININA, G.P.

Data on a comparative test of crystalline convallatoxin and liquid standard Convallaria on frogs. Farmakol.toksik. 26 no.3: 323-327 My-Je¹63 (MIRA 17:2)

1. Laboratoriya biologicheskogo kontrolya (rukovoditel' - kand. med. nauk Yu.I.Symeva) Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni S. Ordzhonikidze.

APPROVED FOR RELEASE: 08/31/2001

SYRNEVA, Yu.I.; SUKHININA, G.P.

Pharmacological properties of *p*-chloroethyldifurfurylamine. Farm. i toks. 28 no.1:33-36 Ja-F ¹65.

(MIRA 18:12)

1. Laboratoriya biologicheskogo kontrolya (zav. - kand.med.nauk Yu.I.Syrneva) Vsesoyuznogo nauchno-issledovatel'skogo khimikofarmatsevticheskogo instituta imeni S.Ordzhonikidze, Moskva. Submitted October 30, 1963.

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MARIAN, J.J., CHERNE

Surgical breashest of perforating a cess of the storact and Juddenim. Shor. nauch. rab. Sar. gos. med. inst. 44:286-290 (MINA 18:7 167.

1. 1: Miniki Fals litets or thirungii (pav. - prof. 1.M. (opyethen (downwood)) Baratovskogo mediteinslogo instituta (rokuor - dotaent H.d. Ivanov).

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001654310011-9"
L 15732-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JW ACC NR: AP6000893 SOURCE CODE: UR/0181/65/007/012/3689/3690 Petrov, M. P.; Smolenskiy, G. A.; AUTHORS: Syrnikov, P. ORG: <u>Institute of Semiconductors, AN SSSR</u>, Leningrad (Institut poluprovodnikov AN SSSR) TITLE: Nuclear magnetic resonance in RbMnF3 SOURCE: Fizika tverdogo tela, v. 7, no. 12, 1965, 3689-3690 TOPIC TAGS: nuclear magnetic resonance, rubidium, fluorine, line shape, line broadening ABSTRACT: Measurements of the nuclear magnetic resonance were made on the <u>Rb</u> and <u>F</u> huclei at room temperature, using a weak-oscillation generator. The RbMnF₃ were synthesized from the cold RbF and MnCl₂ by heating to a temperature ~700C. It was found that the magnetic field acting on the F and Rb nuclei in the polycrystal is not equal to the external applied field. In the case of ¹⁹F, the NMR line had **Card** 1/2 2

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L 15732-66 ACC NR: AP6000893 an asymmetrical shape, while that of 87 Rb had a Lorentz shape. The ratio $\alpha = \Delta H/H_0$ where ΔH is the supplementary magnetic field on the nucleus, was 0.022 ± 0.003 and $-(1.9 \pm 0.2) \times 10^{-3}$ for F and Rb, respectively. In the case of measurements on polycrystalline RbNiF₃ with hexagonal structure, no resonance was observed on ⁸⁷Rb, probably because of quadrupole broadening and the NMR line of ¹⁹F had a complicated form with $\alpha = 0.0058$. Authors thank <u>A. G. Tutov</u> for an x-ray analysis of the crystal and S. A. Kizhayev for magnetic measurements. SUB CODEs 07/ SUBM DATE: 14Ju165/ ORIG REF: 002/ OTH REF: 003

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COLORGANCE DES

ACC NR: AP6015808	n)/T/EWP(w)/EWP(t) IJP(c) JD/HW/JG SOURCE CODE: UR/0386/66/003/010/0416/0419
AUTHOR: Smolenskiy, G. /	A.; Yudin, V. M.; Syrnikov, P. P.; Sherman, A. B.
ORG: Institute of Semico Akademii nauk SSSR)	onductors, Academy of Sciences SSSR (Institut poluprovodníkov
	hexagonal ferrimagnet RbNiF3
SOURCE: Zhurnal eksperin Prilozheniye, v. 3, no. 1	mental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. 10, 1966, 416-419
TOPIC TAGS: antiferromag anisotropy, rubidium comp	gnetism, magnetic moment, saturation magnetization, magnetic pound, Curie point
been confined to the para vestigated the magnetic ⁷ and the Faraday method, transition temperature. position reaction at 9600 teresting feature that in color continuously from a exceeds 10 ¹¹ ohm-cm. and	gations of the magnetic properties of RbNiF ₃ have hitherto amagnetic regions and to polycrystals, the authors have in- properties of single-crystal RbNiF ₃ , using a magnetic balance in fields from 2 to 14 koe, both above and below the magnetic- The <u>single crystals</u> have been obtained by an exchange decom- C. They are transparent in visible light, and have the in- n the temperature interval from 77 to 900K they change their bright green to pink. The resistivity at room temperature the dielectric constant is of the order 56. Large and x 5 mm without cleavage planes can be obtained with relative the paramagnetic susceptibility on the temperature has a
ease. The dependence of	

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form characteristic of ferrimagnets. The magnetic ordering sets in at 145K. Plots were obtained of the magnetic moment at 77K against the field intensity and against the temperature in the direction along the hexagonal axis and perpendicular to it. From these plots it is possible to estimate the field of negative uniaxial anisotropy at 77K (~25 koe) and the sum of the magnetic anisotropy constants (K₁ + K₂ $\simeq -0.4 \times 10^{\circ}$ erg/cm³). The results are interpreted from the point of view of the collinear model of ferrimagnetism. The value obtained on this basis for the specific magnetization is 18 G-cm³/deg. Although the obtained value of the saturation magnetization per formula unit at 0°K is found to be somewhat lower than the theoretical value (~2/3 Bohr magnetons), the difference is attributed to the high temperature of the experiment (more than half the <u>Curie temperature</u>). The results show that on approaching the Curie point the anisotropy constants decrease rapidly, and this gives rise to a spontaneous magnetic moment. It is concluded on the basis of all the data that RbNiF₃ is a transparent ferrimagnet of the ferroxplan type. Orig. art. has: 2 figures.

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JD/HW EwT(1)/EwT(m)/T IJP(c) L 23028-66 SOURCE CODE: UR/0181/66/008/003/0783/0787 ap6009660 ACC NR: Pisarev, R. V.; Belyayeva, A. I.; Syrnikov, P. P. AUTHORS: ORG: <u>Institute of Semiconductors, AN SSSR</u>, Leningrad (Institut poluprovodnikov AN SSSR) Structure of energy levels and exchange interaction of Co TITLE: ions in NaCoF3 Fizika tverdogo tela, v. 8, no. 3, 1966, 783-787 SOURCE: TOPIC TAGS: energy band structure, cobalt compound, single crystal, light absorption, optic transition, line shift The authors investigated the spectrum of optical absorption ABSTRACT: of NaCoF₃ in the interval from 5,000 to 30,000 cm⁻¹ (2 -- 0.33 μ). The single crystals were obtained by chemical reaction of NaCl with CoF2. The experiments were made in tightly sealed platinum crucibles. The absorption spectra were investigated in the ultraviolet and 1/2 Card

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L 23028-66 ACC NR: AP6009660 visible regions using diffraction spectrographs (DFS-8 and DFS-12) and a double prism monochromator (DMR-4). The measurements were made The observed absorption bands are at 4.2, 20.4 -- 60, 77, and 295K. identified with transitions inside the 3d electron shell of the Co^{2+} ion in a cubic crystalline field. It is shown that near 35K one of the absorption lines is strongly shifted, owing to the transition of the NaCoF₂ into a magnetically-ordered state. It is observed that at low temperatures the state $^{2}E(^{2}H)$ splits into two lines ($\Delta v = 36$ cm⁻ one of which disappears when the temperature is raised to 60K. The possibility that this splitting is due to exchange interaction between the paramagnetic ions is discussed, although the data obtained so far do not prove this completely. The authors thank G. A. Smolenskiy for interest in the work and a discussion of the results, V. V. Yeremenko for a discussion of the results, and E. V. Matyushkin for help with the measurements. Orig. art. has: 4 figures, 2 formulas and 1 table. SUBM DATE: 24Ju165/ ORIG REF: 002/ OTH REF: 005 SUB CODE: 20/ 2/2 Card

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L 24379-66 EXT (m) JD/HW	
ACC NR: AP6009702	SOURCE CODE: UR/0181/66/008/003/0975/0977
AUTHOR: Pisarev, R. V.; Prokho	orova, S. D.; Syrnikov, P. P.
ORG: Institute of Semiconductor	rs, AN SSSR, Leningrad (Institut poluprovodnikov AN SSSR)
TITLE: Changes in the intensitions in the antiferromagnet Nations in the antiferromagnet National Statement (National Statemen	ty of the electronic transitions of the Mn^{2+} and Ni^{2+} Nio.38Mno.04F3 \mathcal{V} \mathcal{V}
SOURCE: Fizika tverdogo tela,	v. 8, no. 3, 1966, 975-977
TOPIC TAGS: antiferromagnetic transition, absorption spectrum	material, manganese, nickel, light absorption, electron m, line intensity, spectral line
transitions of both Mn ²⁺ and Ni by measuring the optical absorp to draw certain definite conclu- ty. The absorption spectra wer chromator (DMR-4). The results Mn ²⁺ and Ni ²⁺ ions, resulting in lines of these ions. The great spectrum where both ions have of ciples impose no limitations of greatest role in the observed in	on an investigation of the intensity of the electronic i ²⁺ in the antiferromagnets NaNiF ₃ and NaNi _{0.96} Mn _{0.04} F ₃ , ption in a broad spectral interval, making it possible usions concerning the growth of the transition intensi- re investigated photmetrically with a double prism mono- s (Fig. 1) show the effect of a mutual influence of the in an increase in the intensity of certain absorption test interaction was observed in those regions of the closely lying levels, provided that the symmetry prin- n the possible interaction. It is concluded that the intensification of the spectral-line intensity is prob- ction between 3d-ions. The transitions responsible for
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CIA-RDP86-00513R001654310011-9

ACC NRI AP6033557 SOURCE CODE: UR/0181/66/008/010/2965/2969 AUTHOR: Smolenskiy, G. A.; Yudin, V. M.; Syrnikov, P. P.; Sherman, A. B. Institute of Semiconductors, AN SSSR, Leningrad (Institut poluprovodnikov AN ORG: SSSR) TITLE: The transparent hexagonal ferrimagnet RbNiF3 SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 2965-2969 TOPIC TAGS: rubidium compound, magnetic property, magnetic susceptibility, magnetic anisotropy, Curie point, magnetic structure ABSTRACT: The purpose of the investigation was to study the magnetic properties of single-crystal RbNiF3, both above and below the magnetic-transition temperature, in view of the fact that they were hitherto investigated only in the paramagnetic region in single-crystal form. Transparent RbNiF3 crystals with low dielectric losses can be of interest for modulation of light beams in microwave devices at low temperatures. The single crystals were obtained by exchange decomposition at high temperatures. The magnetic properties were investigated with a magnetic balance by the Faraday method in fields from 2 - 14 kOe. The apparatus was described earlier (FTT v. 6, 3668, 1964) and was modified to accommodate anisotropic crystals. The reciprocal magnetic susceptibility was measured as a function of the temperature and the magnetic-moment components were determined as functions of the field intensity at different temperatures. The results confirm that RbNiF3 is a ferrimagnet of the ferroxplan type with a Curie 1/2 Card

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tempe	rature	of 14	5K. The map	netic struc	cture and th	e magnet	ic anisotro	py of RbN	iF3
exhib	it a c	omplic	ated variati	on which ca	an be interp is increased	reted fr	om the poin	t of view	of
from	one wi	th an	easy-magneti	zation play	n to one hav and 5 formul	ing a co	ne of easy-	magentiza	tion
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ACC NR: AP7005318 SOURCE CODE: UR/0181/67/009/001/0021/0026	-
AUTHOR: Nesterova, N. N.; Siniy, I. G.; Pisarev, R. V.; Syrnikov, F. F. ORG: Institute of Semiconductors, AN SSSR, Leningrad (Institut poluprovodnikov AN SSSR) TITLE: Infrared absorption spectrum of the antiferromagnets NaCoF3, KCoF3, and RbCoF3	
RbCoF ₃ SOURCE: Fizika tverdogo tela, v. 9, no. 1, 1967, 21-26 TOPIC TAGS: antiferromagnetic material, ir spectrum, absorption spectrum, absorption edge, spin orbit coupling ABSTRACT: The authors investigated the optical absorption of these antiferromagnets (with perovskite structure) in the region 750 - 2000 cm ⁻¹ at 77 and 295K. One of the purposes of the investigation was to determine the influence of the exchange inter- action and to obtain a clear cut spectrum. The single crystals were grown from the melt and the absorption spectra were measured with an IKS-21 spectrometer. All the compounds exhibited an absorption band near 1200 cm ⁻¹ and weak bands at the absorp- tion edge of the lattice. The 1200 cm ⁻¹ band is identified with the $\Gamma_0 + \Gamma_7$ transi- tion between the split levels of the orbital triplet. When the temperature is de- tion between the split levels of the orbital triplet. When the temperature is de- tion between in KCoF ₃ , and decreases of 55 and 20 cm ⁻¹ are observed in the half- widths of the absorption bands in RbCoF ₃ and NaCoF ₃ . The results show that the spin-	

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Occupational poisoning caused by preparing dry Ascomycetes. Zdrav. (MIRA 12:7) Belor. 5 no.1:53 Ja '59.

1. Gomel'skiy oblastnoy soyuz potrebitel'skikh kooperativov. (MUSHROOMS --- PHYSIOLOGICAL EFFECT)

Syrnikov, 40. P. USSR/Physical Chemistry - Solutions. Theory of Acids and Bases, B-11 Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 494 Author: Syrnikov, Ye. P. Institution: Leningrad Academy of Forest Technology Title: On the Structure of Ionic Solutions Tekhn. inform. po rezul'tatam-nauch.-issled. rabot. Leningr. leso-Original tekhn. akad., 1956, No 38, 64-70 Periodical: Solvation is due to 2 effects: the formation of a stable envelope around the ion and changes in the structure of the "free" portion of the solvent under the action of the electrostatic fields of the ions. Abstract: If, according to the views of Hall (Hall, Phys. Rev., 1948, 73, No 7), we consider water to be composed of 2 types of structures which are in dynamic equilibrium, we can write the equation $\Delta F = \Delta F_0 - \alpha^3 \sqrt{n^2}$, where ΔF and ΔF_0 are the differences in the free energy of the indicated structures in the presence and in the absence of an external field, n is the mole fraction of the dissolved salt, and α is a Card 1/2

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SYRNIKOV, Yu. P., Cand Phys-Math Sci -- (diss)"Condensability of electrolyte solutions and certain problems of the theory of these solutions." Len, 1958. 11 pp (Len Order of Lenin State Univ im A. A. Zhdanov), 150 copies (KL, 35-58, 105)

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SOV-46-4-3-1/18

AUTHORS: Mikhaylov, I.G., Solov'yev, V. A., Syrnikov, Yu. P. The Main Problems of Contemporary Molecular Acoustics (Osnovnyje problemy sovremennoy molekulyarnoy akustiki) TITLE: PERIODICAL: Akusticheskiy Zhurnal, 1958, Vol 4, Nr 3, pp 211-222 (USSR) ABSTRACT: This is a review of the present state of molecular acoustics. Both Western and Russian work is considered. In view of the relative simplicity of ultrasonic methods the velocity of sound has been measured in a very large number of liquids. The velocity has been correlated with various macroscopic and microscopic properties of liquids and various empirical rules have been suggested. Among these rules is the one due to Rao. The authors point out that in their opinion Rao's rule does not summarise any special molecular mechanism. This is shown above all by the approximate nature of this result and its limited range of applicability. The correct way of developing theoretical molecular acoustics would be to calculate the compressibility and hence the velocity of sound, rather than to try and find a theoretical foundation for Rao's law. However, as is well known, this is very difficult and has not as yet been done. Some attempts have Card 1/3 been made to calculate the velocity of sound directly from

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The Main Problems of Contemporary Molecular Acoustics

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molecular considerations (Refs.6 and 7) but in these attempts the velocity was obtained not through a solution of the kinetic equation but by using very approximate models. These calculations give the right order of magnitude for the velocity of sound but they are quite useless in providing information on the actual structure of the particular liquid. Relaxation theory points to a connection between volume viscosity and irreversible processes leading to equilibrium. Some work on this has been done by Mandel'shtam and others (Refs.16 and 17). In the authors' opinion, Frenkel's theory gives the most correct physical picture of the structure of liquids. Unfortunately, at the present time the mathematical apparatus of this theory is not sufficiently developed. The authors consider that a development of Frenkel's theory in general, and its application to the calculation of compressibilities in particular, would be of major value in the present context. Among the problems discussed in the present review is the problem as to whether relaxation processes are

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SOV-46-4-3-1/18

The Main Problems of Contemporary Molecular Acoustics

the only reason for the existence of volume viscosity. The authors consider that it is. On the experimental side it is pointed out that in many experiments on the absorption of sound in liquids the intensity of the ultrasonic waves was not taken into account. On the other hand, it has been established (Refs.52-54) that the coefficient of absorption does depend on the intensity even for relatively low amplitudes. Another experimental point is that measurements of absorption of ultrasonic waves should be carried out in a wider frequency range. There are no figures or table, 57 references, of which 26 are Soviet.

ASSOCIATION: Leningradskiy gosudarstvennyy Universitet (Leningrad State University)

SUBMITTED: September 14, 1957.

3. Liquids--Acoustic properties 1. Acoustics 2. Sound--Velocity

Card 3/3

	54-10-2-1/16
AUTHORS:	The Syrnikov, Instance
TITLE:	The Compressibility of Electrolyte Solutions and the Influence Exerted by Ions on the Structure of Water (Szhimayemost' Exerted by Ions on the Structure of Water (Szhimayemost'
PERIODICAL:	Vestnik Leningradskogo Universiteta, Seriya fiziki i kuluri) Vestnik Leningradskogo Universiteta, Seriya fiziki i Kuluri)
ABSTRACT:	Abundant experimental material concerning the velocity of sound and the compressibility of electrolyte solutions is at present available. Much is, however, still unclear and there is a con- siderable difference in opinions concerning the interpretation of these data. It is known that all anomalies of water are con- nected with its structure. A mere study of quality cannot, how- ever, help to clear up existing contradictory data, and there- fore a thorough qualitative analysis is necessary. In the present paper the authors succeeded to find comparatively simple corre- lations which, basing on one point of view, provide a sufficient explanation for experiments with solutions as well as experiments relating to changes caused in water under pressure. Whenstudying the compressibility of electrolyte solutions 2 effects must be
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The Compressibility of Electrolyte Solutions and the Influence Exerted by Ions on the Structure of Water

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taken into account: a) The influence exercised by ions on the structure of water, and b) the presence of an ion lattice in the solution. When investigating the influence exercised by ions upon the structure of water it is advisable to distinguish between 2 effects: a) Hydration, and b) the influence exercised by ions on the so-called "free water". The influence exercised by the ion lattice upon the temperature of the maximum of sound velocity in the solution was phenomenologically taken into account by B.B.Kudryavtsev (Ref 9). When setting up the formula for the temperature of the minimum of the compressibility of the solution the presence of the ion lattice was taken into account according to a similar method. From the correlations obtained it follows that the influence exercised by ions on the structure of the "free water" tends to shift this minimum into the range of higher temperatures, i.e. the ions act upon water in the same manner as pressure. This shifting of the minimum into the domain of higher temperatures is, above all, due to the structural part of compressibility. The presence of an ion lattice tends to shift the minimum into the domain of lower temperatures. As the analysis of the total formula for the temperature of the compressibility

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001654310011-9 in la accessive de le contracte de la la la manda de contracte de la contracte de 54-10-2-1/16 The Compressibility of Electrolyte Solutions and the Influence Exerted by Ions on the Structure of Mater minimum of the solutions shows, a decisive part is played in the case of low concentrations by the first-, and in the case of medium and high concentrations by the second effect. Herefrom it may be seen that the aforementioned contradictions can be explained by the ideas developed in this paper. There are 5 figures, and 11 references, 7 of which are Soviet. December 25, 1957 SUBMITTED: Library of Congress AVAILABLE: 1. Electrolytes---Properties-Theory 2. Electrolytes---Effects of ions Card 3/3

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21日3日以此日本市中市市市市市市市 MIKHAYLOV, I.G.; SYRNIKOV, KI.P. Compressibility of electrolyte solutions and the influence of ions on the structure of water [with summary in English]. Vest. LOU 13 no.10:5-14 '58. (Liquids, Kinetic theory of) (Electrolytes) (Water)

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AUTHOR:	Syrnikov, Yu. P.	20-118 -4-37/61
,- TITLE:	On the Character of the Interaction Water Molecules in a Solution (O kharaktere vzaimodeystviya ani v rastvore)	
PERIODICAL:	Doklady Akademii Nauk SSSR, 1958, pp. 760-762 (USSR)	Vol. 118, Nr 4,
ABSTRACT:	At the physical faculty of the St the acoustic properties of soluti at present investigated. This wor which are necessary for the expla properties. The author her implie ion with the nearest adjacent wat hydratation. When a cation is hydr with its electronegative part pos interaction of the cation with th in its character essentially from molecules among each other. Accoust	ck gives additional data anation of some of these es the interaction of an termolecule by the term rated, the watermolecule sses to the cation and the he watermolecules differs n the binding of the water- rding to this also the

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On the Character of the Interaction Between Anions and 20-118-4-37/61 Water Molecules in a Solution

from the structure of pure water. Quite another case is the hydration of an anion: The anion represents an electronegative atom or an electronegative atom group and the watermolecule associates with its electropositive part - with the proton. On this occasion immediately several watermolecules associate with the anion and protons combine with it. The surplus electrons of the anion are distributed on several protons and the interaction of the anion with the watermolecules of its hydrate shell has donor-acceptorcharacter.An electron partly falls to the share of each acceptor-proton. Such a binding resembles or equals a hydrogen binding. The quantitative compution of such an interaction has great difficulties and therefore the experimental control of this conception is of interest. The authors here performed measurings of the infrared abfirst) عمر sorption of ion solutions in the range 1,35-1,60 علم (first harmonic of the group O-H). These measurements were made at the Forestry Engineering Academy (Lesotekhnicheskaya akademiya) by a non-registering spectrophotometer with a glass optical system. The solutions of 8 salts with 4

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On the Character of the Interaction Between Anions and Water Molecules in a Solution

different anions were investigated and the results of the computations are illustrated in diagrams. In the ion solutions (even at saturation concentration) the absorption bands in first approximation are in the same range as also in the case of pure water, i.e. the molecules which are combined with the anion thus come into interaction with it in the same way as the molecules of water among each other. The energy of this interaction for several anions differs from the energy of the binding of the molecules among each other. In a solution of KNO_{z} the absorption band has 2 maxima. After the here discussed deliberations the here shown ideas on the character of the interaction of the anion with the watermolecules agree with the spectroscopic data. Furthermore the structure of the hydrate shell of the anion seems to resemble the structure of water itself. From this point of view also the results by A. Pasynskiy (reference 7) are easy to understand. There are 4 figures, and 7 references, 5 of which are Soviet.

Card 3/4



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