ORATOVSKIY, M.T., kand.sel'skokhozyaystvennykh nauk Results obtained from grafting young sweet cherry seedlings on sour cherry crowns. Agrobiologiis no.4:618-619 J1-Ag '60. (MIRA 13:8) 1. Melitopol'skaya opytnaya stants ya sadovodstva. (Cherry) 1.11







CONCLUE.

KUZNETSOV, M.D.; LEOMENKO, V.M.; ORATOTSKIY, V.I. Analysis of the operation of primary tubular coolers. Foks i, in. no. 3:44-46 '61. (MIRA 14:4). Donetskiy politekhnicheskiy institut. (Coke-oven gas)

KUZNETSOV, M.D.; ORATOVSKIY, V.I. Kate of chemical sorption in a Venturi-type apparatus. Izv.vys. ucheb.zav.; khim.i khim.tekh. 4 no.1:142-147 '61. (MIRA 14:6) 1. Donotskiy industrial'nyy institut, kafodra khimichoskoy tekhnologii to;liva i protesesov i apparatov. (Venturi tubes)

ANDREYEV, A.Ya.; ORATOVSKIY, V.I. Calcination of magnetite in an apparatus with a fluidized bed. Trudy IREA no.25:450-456 '63. (MIRA 18:6)

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ORATOVSKIY, V.I.; GEYSHIN, P.A.; GAMOLISKIY, A.M. Continuous distillation of ammonium sulfide. Trudy IPEA no.25: 457-460 '63. (MIRA 18:6)









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ABOV, Yu.G.; KRUPCHITSKIY, P.A.; ORATCVSKIY, Yu.A.

Existence of an internucleon potential not maintaining spatial parity. IAd. fiz. 1 no.3:479-489 Mr '65. (MIRA 18:5)

1. Institut teoreticheskoy i eksperimental'noy fiziki Gosudarstvennogo komiteta'po ispol'zovaniyu atomnoy energii SSSR.

ACC NRI AP6030156	(A) SOURCE CODE: UR/0120/66/000/004/0195/0196
P. A.; Oratovskiy,	G.; Bulgakov, M. I.; Gul'ko, A. D.; Yermakov, O. N.; Krupchitskiy Yu. A.; Trostin, S. S.
tuoreticheskoy i el	Theoretical and Experimental Physics GKAE, Mescow (Institut Reperimental from fixiki GKAE)
TITLE: Production cobalt mirrors	of polarized beams of thermal neutrons by means of a pile of
SOURCE: Pribory i	tekhnika eksperimenta, no. 4, 1966, 195-196
TOPIC TAGS: neutr neutron polarizati	on beam, thermal neutron, nuclear research reactor, cobait, on, collimator
mental purposes is a pile of cobalt m rated by vertical Each of the cobalt up of three separa	For the production of polarized neutron boams needed for experi- s described. The unit, shown below, consists of a collimator and airrors. The collimator, consisting of 10 convergent slits sepa- steel plates, is placed in the horizontal channel of a reactor. t mirrors is backed by glass and the length of each mirror is made ate units $350 \times 125 \times 3 \text{ mm}^3$ in size. The top and bottom ends of itted into 10 slots bored through the connecting strips and clamped so that each mirror has a corresponding slit in the collimator.
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	ACC NR: AP6030156 The pile of mirrors is set into an electromagnet. The mean angle of beam incidence on a corresponding mirror is 7.5' and all neutron beams reflected by the mirrors converge at a distance of 4.5 m from the pile of mirrors. The incident and reflect- ed beams are separated by means of a sliding screen system made of boron carbide
	situated near the target. The flow of polarized neutrons on a specimen with an area of 100 x 10 mm ² amounted to 3×10^7 neutrons/sec. The degree of neutron beam polarization amounted to -90% , and the polarization efficiency of 95%. The authors thank V. A. Boketov and N. S. Shatlovskaya for making the cobalt mirrors, Yu. Ya. Garrison for assembling the pile of mirrors, and A. I. Savushkin, V. X. Rissukhin, O. M. Svetlov, and I. L. Karpikhin for helping with the measurements. Orig. art. has: 1 figure.
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	Cord 2/3



7.6730V -1-32-12-14 -11 5.3010 Davankey, A. B., Qratynskaya, A. N., Laufer, V. M., AUTHORS: Licinskiy, A. G. Defenization of Acid Albumin Hydrolysates by Anion-TITLE: Exchange Resins Zhurnal prikladnov khimii, 1959, Vol 38, Nr 10, ct PERIODICAL: 2269-2275 (USSR) Various demestic ion-exchange repins were tested for ABSTRACT: the separation of amine acids from the sinemal actio residue in casein hydrolyzates. Sitentic caste MMd-1 and AN-PF, medium basic N-C and EDE-ICF, and strongly basic AV-10 anion-exchange resind were filed lighten. EDE-10P and AN-2F resime gave the feat relation () the address tensor of C1T and SU, TT was computed, and that ~ 1 amine mitragen insignificant. The begins of blocks tion can be quickly determined by the billing of the filtrate. When pH^{-1} (s.e., the defendant of the $\operatorname{really}_{\mathcal{A}} = \operatorname{cost}_{\mathcal{A}} = \operatorname{$ Card 1/2

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NOVAK, A.; OMAVCOVA, V.; VASKEBOVA, M. Contribution to meningpencephalitis mumps less pediat 13 no. 3:.0 -.13 '63. 1. 11. detaka sitnika Lesaraskej faculty SK v Bratislave, prednosta prof. dr. J. Michalickova Krajska hygienickoepidemiologicka stanica v Bratislave, riaditel dr. F. Stanlz. COMPSEC ENTROPORTHALITIS)

III INSTANCE INT

BARDOS, V.: WFKOVA, E.; ELISCHEROVA, K.; MITTERMAYER, I.; BILCIKOVA, M.; JUFFOVA, K.; CATAR, G.; MULLEROVA, M.; ORAVIOVA, V.

Tahyna virus infections among the population of eastern Slovakia. Bratisl. lek. listy 45 no.8:501-509 31 (~ 165.

.. Vyskumny ustav epidemiologie a mikrobiologie v Bratislave (riaditel doc. MJDr. J. Karolcek), Infekene oddelenie Fakultnej nemocnice v Kosiciach (veduci primar MTDr. T. Mittermayer., Vyskumne laboratorium parazitologie a mykologie pri Katedre vseobecnej biologie Lekarske fakulty Univerzity Komenskeho v Bratislave (veduci prof. MTDr. V. Vrsansky) a Krajska hygienicko-epidemiologicka stanica v Bratislave (riadite. MTDr. F. Schulz).



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1. Work jointly conducted by State Health Institute, Dermatological Clinic of the Medical Faculty at Slovak University, and State Diagnostic Veterinary Institute in Bratislava.

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1. Onkologisches Forschungsinstitut in Bratislava.

(IMMUNITY.

properdin in cancer & normal subjects (Ger))

(SERUM GLOBULIN,

same)

(MEDPLASMS, immunology,

same)
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ORAVEC, Cirrad; HOLOUBEK, Viktor; BAZANY, Miroslav

The properdin system in tumourous disease. II. The level of

properdin in healthy and dumourous fowls (tumour B 77). Cesk.

onkol. 3 no.4:279-283 1956.

1. Oncological Research Institute, Bratislava.

(IMMUNITY,

properdin in exper. sarcoma B 77 and in normal fowls)

(SERUM CLOBULIN,

same)

(NEOPLASMS, experimental,

sarcoma B 77, comparison of properdin in normal &

tumor-bearing fowls)

(SARCOMA, experimental,

B 77, comparison of properdin in normal & tumor-bearing

fowls)
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CZECHOSLOVAKIA / General Problems of Lathology. IJ Immunity. Abs Jour: Ref Ehur-Biol., No 9, 1958, 41664. Author : Cravee, C., Holoubek, V., Kovarova, V., Klinse, M., Bazany, M. : Not given. Inst Title : The Properdin System in a Tumorous Disease. IV. The Level of Properdin in Guinea Pigs Treated with Cortisone, X-rays and with Herpes Virus. Crig Pub: Neoplasma, 1957, 4, No 1, 7-9. Abstract: The investigations were conducted in connection with the effectiveness of experiments on heterotransplantation of tumors with application of cortisone and X-ray irradiation. Guinea pigs were injected, for a period of 5 days, with 2.5 mg of cortisone acetate intra-abdominally, or were once irradiated with 600 r, or were infected intrader-Card 1/2

17.7-Some aspects on the immunobiological behavior of the virus tunour 3-77. Neoplasma, Bratisl. 4 no.4:327-333 1957. 1. Oncological Research Institute, Bratislava. (VIRUSIS, eff. tumor B 77 virus, on hemagglut.) (ESMAGGLUTINATION eff. of tumor B 77 virus) (NEOPLASMS, exper. eff. of tumor B 77 virus on hemagglut.)



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2515 persons with non-treated malignant tumours, it was found that in both groups the mean properdin value was the same, righer individual deviations from the mean value being observed only in persons with malignancy. Similar results were obtained in experiments with the serum of healthy hens and of those with sarcoma B77. In the next series of experiments, using rabbits with Brown-Pearce tumour, it was found that in the first stage of the neoplastic growth there was an increase in the properdin level as compared with healthy animals, but 23 days after transplantation of the tumour the properdin level was found to decrease, to equal finally that of healthy rabbits. Obviously, the neoplastic growth is accompanied by a decrease in the body resistance and the properdin level returns to normal. The examinations of rabbits resistant to the implantation of Brown-Pearce tumour also showed the increase in the properdin level which persisted longer than in non-resistant animals. The effect of cortisone on the properdin system of guinea-pigs was also studied. One group of animals was given cortisone acetate i.p.; the 2nd one was irradiated with X-rays, animals of both series being bled after 6 days; the 3rd group served as control. The first and 2nd group showed the reduction in the serum properdin level. The mechanism of this phenomenon has not yet been elucidated, it is likely to be related to the reticulo-endothelial system. It is felt that by inducing an increased properdin level of the body, one might achieve its augmented resistance to the neoplastic growth. Albert - Wrocław (V, 16)

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ORAVEC, Ctirad; HOLOUBEK, Viktor

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The properdin system in tumorous diseases, V. Bacteriocidal properties of sera of some species. Neoplasma, Bratisl. 6 no.1:3-5 1959.
1. Oncological Research Institute, Bratislava., ul. Gs. armady 17. (NEOPLASMS, immunol. bactericidal properties of sera from cancer-bearing animals, role of properdin) (PROPERDIN, eff. on bactericidal properties of sera from cancerbearing animals)

建筑过来口能的 EXCOPPTA (EDIC, Sec 10 "ol 7/11 Sancer November 19 4607. Antibodies in tumorous disease. I. Antibodies against Daels's guinea-pig sarcoma, detected by the method of passive anaphylaxis ORALEG. C., HOLOUBER V. and THURZO V. Oncol. Res. Inst., Bratislava Neoplasma 1959, 6 1 (69) Tables 1 For the demonstration of antibodies against Daels's transplantable guinea-pig sarcoma the authors used the method of passive anaphylaxis. Guinea-pig sensitized with the sera of diseased and resistant animals were used. The mitochondrialmicrosomal fractions of tumours corresponding and homologous to the sera of the experimental animals served as antigens, and were applied in concentrations of 0.93 to 2.45 mg. N per 100 g. live weight of animal. After application of the antigen, an-aphylactic reactions occurred in the sensitized animals. The nucleic fraction proved to be unsuitable, because it produced reactions similar to anaphylactic shock, even in non-sensitized controls.

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SMIDOWA-KOWAROWA, V.: ORAVEC, C.: BAZANY, M.; KOSSEY, P.
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ORAVEC, C.; ONDRUS, B.

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1. Onkologiches Forschungsinstitut, Bratislava, und Institut fur pathologische Anatomie, Medizinische Fakultat, Komonsky-Universitat, Bratislava, Tschechoslovakia. (NEOPLASMS immunol) (CORTISONE pharmacol) (ANTIGENS)

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1. Onkologisches Forschungsinstitut, Institut fur Epidemiologie der Med. Fakultat der Komensky Universitat in Bratislava, CSSR. (SARCOMA, EXPERIMENTAL) (LEPTOSPI A)



SANDON L., BA TOS G., CUY C ...

Strume simplex a jej liecenie. /Struma simplex and its therepy/ Slover, ?skar 12:6 June 50 p. 289-95.

 Of the Institute of General and Experimental Pathology of Slowak University (Head -- Docunt G. Bardos, M.D.) and of the Endeerinological Consultation Station of the Institute of Hational Health in Bratinlava (Head -- Docent G. Bardos, M.D.). CHI Vol. 20, No. 2 Feb 1951

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CRAVEC, D. ZACHAR, D.

Pokusy o intratekalne ovplyvnenie glykemie a ich klinicke bodnotenie. [Experimental studies on intrathecal glucose effect on glycemia and its clinical evaluation] Bratisl. lek. listy 30:4-5 Apr-May 50 p. 391-6

1. Of the First Internal Clinic and of the Neuro-psychiatric Clinic at Slovak University.





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LAJDA, J.; ORAVEC, D.; SIMKO, S.

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On the problem of the thyroid lingual. Contribution to diagnosis and therapy. Cesk. otolaryng. 12 no.3:179-184 Je '63.

1. Otolaryngologicka katedra Lek. fak. UK v Bratislave, veduci doc. MUDr. J. Lajda II interna klinika Lek. fak. UK v Bratislave, preinosta prof. dr. T. Niederland, DrSc. Vyskumny ustav onkologicky v Bratislave, riaditel' doc. dr. V. Thurso. (THYROID GLAND) (TONGUE NEOPLASME)

CIARDP86-00513R001238 CIARDP86-00513R001238 CIARDP86-00513R001238 CIEVER, D; KURLOVA-STREEVA, B Third Department of Internal Medicine, Faculty of Medicine, Comenius University (Katedra internej medicing 3 Lek. fak. University komenskeho), Bratislava - (for both) Fratislava, <u>Bratislavske lekarske listy</u>, No 1, January 1966, pp 53-59 "The vegetative nervous system in "hyropathies. Part 1; The reactivity of the vegetative nervous system in thyrotoxicoses."



Z/042/63/000/001/002/003 E140/E463

Oravec Julius and Virsik Felix, Engineers AUTHORS: Pulse method for measuring thyratron ionization time TITLE: PERIODICAL: Elektrotechnický časopis, no.1, 1963, 18-25 The method consists in applying a pulse of defined voltage levels and of varying duration to the thyratron grid (with The ionization thyratron d.c. anode voltage as a parameter). time is given by the shortest pulse which ignites the thyratron. For an experimental argon-filled thyratron, times of the order of l to 7µs were measured and compared with values calculated from Agreement within an order of a simplified theoretical model. There are 7 figures. magnitude was obtained. ASSOCIATION: Katedra teoretickej a experimentálnej elektrotechniky SVŠT, Mýtna 32/e, Bratislava (Department of Theoretical and Experimental Electrical Engineering SVŠT, Mýtna 32/e, Bratislava)

SUBMITTED: September 14, 1962 Card 1/1

ORAVEC, J.

Use of photomultipliers in examining the plasma of electric discharge in its initial stages and in deionization stages. El tech cas 14 no.4:236-239 *63.

21.1.1.

s/0058/64/000/002/A039/A039 ACCESSION NR: AR4032164 SOURCE: Ref. zh. Fiz., Abs. 2A337 AUTHORS: Dvoretskiy, A. S.; Kazakov, V. A.; Kolesov, I. V.; Oravets, Yu.; Sikolenko, V. F.; Skry*1', I. I.; Frolov, N. S. TITLE: Installation for automatic registration of the coordinates of a particle entering a pellicle stack CITED SOURCE: Tr. 5-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 4. M., Gosatomizdat, 1963, 15-27 TOPIC TAGS: high energy particle interaction, emulsion technique, electronic particle identification, particle trajectory recording, particle trajectory photography TRANSLATION: An automatic installation is described, combining the emulsion technique for high-energy particle interactions and the Card 1/2HIP TO BE TRANSFORMER TRANSFORMED

ACCESSION NR: AR4032164

electronic method of identifying the particles. The installation can register the coordinates at which the required particles enter the pellicle stack with ± 0.5 mm accuracy. It consists of a spark-counter telescope, a pellicle stack, a recording chamber, and electronic control blocks. The coordinates of the spark that develops along the track of the particle passing through the counters are photographed through an optical unit that produces pictures of two mutually-perpendicular projections of each spark on one frame of motion picture film. High accuracy in the determination of the coordinates is attained by precision construction of the optical and mechanical units of the installation, by selecting the optimum operating conditions of the spark-counter telescope, and by using a triggered-voltage pulse generator with low delay (not more than 0.25 µsec). The use of the insulation described yields a substantial gain in the time required to interpret the experimental data. L. I.

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ORAVECZ, Pela

Present state of pre-fabricating central neating systems Epuletgepeszet 11 no.2:57-65 Ap 152,

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ORAVECZ, Bela

ساو متبع ومعتدتكم ويتبينه تصب والما عد

Domestic engineering solutions in prototype dwelling reases. Epuletgepeszet 12 no.1/2:16-20 Mr 163.



OHAVECZ, Bela

Some words about the technical guidelines relating to the design of gas-fired installations with a closed combustion chamber. Epuletgepeszet 12 no.1/2:41-42 Mr $^{+}63$.

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ORAVECZ, Janos, dr.

Stratigraphic and facies questions of the Upper Triassic formations in the Dunantul Central Mountains. Foldt kozl 93 no.1:63-73 Ja-Mr '63.

ORAVECZ, Janos, dr.

Silurian formations in Hungary. Foldt kozl 94 no.1:3-9 Ja-Mr '64.

ORAVECZ, P.

Section 24

The tasks of the university stomatology clinics in the introduction and development of the institution of school dentists. Fogorv. ssemie 44 no.6:170-172 June 1951. (CIML 21:1)

1. Prof. Doctor. 2. Stomatological Clinic, Pecs Medical University.

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ORAVECZ, Pal, dr., egyet. tanar.

Studies on dental focal infection in school children in the village Pecs with special reference to deciduous teeth. Fogorv. szemle 47 no.8:242-251 Aug. 54.

stere issues for the statester

1. Koslemeny a pacsi orvostudomanyi egyetem stomatogisi klinikajarol. (Bessamolo a Klinika tudomanyos munkakosossegt - a Magyar Tudomanyos Akademia tamogatasaval, 1952-ben vegzett - vizsgalatainak eredmeyerol.) (FOCAL INFECTION,

dent., deciduous teeth, in child., statist. in Hungary) (TEETH, DECIDUOUS, diseases, focal infect. in child., statist. in Hungary)


ORAVETS, Y., FROLOV, N. S., KAZAYOV, V. A., DERIL, I. I., DVORETORIY, A. C. SEREBRYAKOV, R. A., KOLESCV, I. V., AND SIKGLINKO, V. F.

"Choice of Coordinates in Regard to the Entrance of Particles into an Emulsion Chamber (STsU-1),

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report submitten for the IAEA conf. on Nuclear Elecgronics, Beigrade, Yugoslavia 15-20 May 1961

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CIA-RDP86-00513R0012381

OFAVETZ J

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1. II. chirurgicka klinika Lekarske fakulty University Fomenskeho v Bratislave (veduciłakidenik K. Siska).

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CHAVSKY, ELUARP

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ORAYEV, N.

Geographical characteristics of cotton growing in Chardzhou Province. Vest. IGU 17 no.12:75-86 '62. (MIRA 15:7) (Chardzhou Province--Cotton growing)



ORAYEVSKAYA, G.A.

[Reducing expenses of machine-tractor stations for agricultural production] Snizhenie zatrat MTS na proizvodstvo sel'skokhoziaistvennoi produktsii. [Khar'kov] Kar'kovskoe obl. izd-vo, 1957. 158 p. (Ukraine--Machine-tractor stations) (MIRA 10:9)

$\frac{L 35886-66}{ACC NR_{1} AP6024516} FBD/EWT(1)/EEC(k)-2/T/EWF(k) IJF(c) WG$ ACC NR_{1} AP6024516 BOURCE CODE: UR/0386/66/004/002/0061/0062
AUTHOR: Basov, N. G.: 00000001/0062
AUTHOR: Basov, N. G.; Orayevskiy, A. I.; and Shcheglov, V. A.
stitut Akademii nauk SSSR)
TITLE: Beam laser for the infrared band 45
SOURCE: Zh eksper i teor fiz. Pis'ma v redaktsiyu. Prilozheniye, v. 4, no. 2, 1966, 61-62
TOPIC TAGS: molecular generator, ir quantum sourcest
TOPIC TAGS: molecular generator, ir quantum generator, optic transition, laser pumping ABSTRACT: The authors show that atomic- or molecular-beam masers, the development of band and discuss briefly the possible molecular transitions that can be used to con- a truct an ir laser with thermal pumping. Such a laser is based on a very simple idea: librium radiation is much smaller than $(E_{\beta} - E_{\alpha})/k$ (E_{β} and E_{α} are two molecular levels, sion soon depletes the a level and a state with population inversion can be produced inversion between the levels β and a is $\tau_{\beta} > (1 + \tau_{\beta\alpha}/\tau_{\beta})\tau_{\alpha}$. The most convenient wave- molecule are illustrated. Similar transitions can be obtained for N ₂ 0 and HCN. It is
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also possi charge, as	ble to in a	excite the r gas laser. (molecules no Drig. art. }	ot only by h mas: 1 figu	eating re.	, but also by	/ electric	dis-
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L 41812-65 EWT(1)/EWP(m)/EWA(d)/EPR/FCS(k)/EWA(h)/EWA(c) Pd-1/P1-4 WW UR/0056/65/048/004/1150/1154,2 ACCESSION NRI APSO10511 AUTHOR: Orayevskly, A. N. B TITLE: Obtaining population inversion by thermal dissociation of molanules in a shock wave SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 48, no. 4, 1965, 1150-1154 TOPIC TAGS: gas laser, population inversion, molecular dissociation, thermal dissociation, shock wave, N,O gas ABSTRACT: In an earlier work (ZhETF, 45, 1963, 177) the author pos-tulated that population inversion can be established by thermal dissociation of a number of molecules. In the present work, a theoretical analysis is made of the conditions for population inversion in N₂O gas (N \geq 10¹⁸ cm⁻³) through excitation by a shock wave (-3.10⁵ cm/sec). The following chemical reactions were shown to occur during the propagation of a shock wave in N201 $N_1 0 \rightarrow N_1 + 0^*$









CCESSION NR: AP5012514	UR/0051/65/018/005/0858/0865
JTHOR: Belenov, E. M.; Orayevskly,	
ITLE: Kinetic processes in a gas la	ser 15
DURCE: Ortika i spektroskopiya, v.	18, no. 5, 1965, 858-865
DPIC TAGS: gas laser, gas laser kin ut power	etic process, neon helium laser, laser out-
ctive substance on the output power ade for a specific transition of 2p ⁵ hey can be applied to generation at acreasing the output power of a neon f a buffer gas, which enhances the d orking gas temperature, which increas itation, which results in an advanta uring the luminescence period; 4) in a more modes in the Doppler line wid	If the influence of various parameters of the of a neon-helium laser. The calculations were $a_{3}^{1}P_{1} - 2p^{5}3p^{3}P_{2}$ with $\lambda = 1.152 \mu$, although other wavelengths. Proposals for ways of -helium laser are as follows: 1) addition ecay of metastables; 2) increase in the sees the energy of electrons; 3) pulsed ex- geous population of the upper working level crease in the resonator length, which results th; 5) increase in the length of the discharge ise in the output power; and 6) reduction in harge tube while maintaining of increasing

CESSION NR: AP5012614 he volume of the working gas ($_{\rm S} \Lambda^{-2}$). These proposals can be dectangular cross-section. In the other, the	the event that one side	a discharge tube with a of the cross-section is
ectangular cross-section. In uch larger than the other, the etermined by the smaller side ube, the smaller side will ha opt will be determined not by n the working gas volume but brig. art. has: 2 figures and	e characteristic size of llore, as in the case of ve an optimum value hopt the changes of the gener by the rise of diffraction	f a circular cross-section Howaver, in this case
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ta Jour	:	Referat Zhur - Khimiya, No 6, 25 March 1957, 18	_8r.
uthor itle	:	Basev, 1.G., <u>Grauvskiy, A.N.</u> , and Svidzinskiy, F Theory of Superfine Structure of Retational Spec Melloules Conditioned by the Electrical 24-pole of Nucleus.	JURE SI
rig Pub	:	стыка (specie жиртук, 1956, 1, No 3, 285-289	
Abstract	:	The value of energy of 2^{4} -pole interaction of ne with the field of a measure can have the order which moder it possible to measure 2^{4} -pole moment clear by radiospectroscopic method. In this we theory of superfine structure of rotational spec- linear measures and molecules of the type of st top is developed. The structure is conditioned electrical 2 ⁴ -pole moment of nucleus. By resolu- a series, by powers of r_{1} (r_{2} is a coordinate of gc), the potential energy of a system of charge	of Ikne at of na- rk the ctra of ymmetrical by the ving into f the char-
Card 1/3		- 32 -	

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USSR/Physical Chemistry - Milecula, Chemical Bond.
Abs Jour : Referat Zhur - Milmiyn, Mark, 75 March 1957, 18186
is logated in the obser field, a classical tensor of
the 2⁴-pile moment is built. The tensor operator of
2⁴-pile moment of nucleus eD_{1kim} is built by analogy
with the classical tensor from the projections of the
spin of the nucle and the rometry of the classical
tensor is take into consideration. Moreover, the tensor
operator is symmetrized because of uncommutative charac-
ter of projections of the spin of nucleus. Humiltonian
of 2⁴-pile interaction is equal:

$$\hat{H} = (e/4^{-1}th)D_{ikkm} (\partial^{4}\psi(0)/\partial_{X}idx_{ik}\partial_{X}\psi(tX_{1}))$$

In case of an axial symmetry of the field of the molecule
 $\hat{H} = (t/2, b4)T_{SSS} \partial^{4}\psi(t-1)/\partial t A$

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B-4 USSR/Physical Chemistry - Molecule, Chemical Bond. Abs Jour : Referat Zhur - Khiniya, No 6, 25 March 1957, 18180 where 5 is the axis of lymmetry of the molecule. A computation of Lyrg is carried out in a system of co-ordinates rigidly found with the molecule, and diagonal matrix elements of the hamiltonian of 2^{4} -role interaction In terms of I,J,K,F are computed $(F = \overline{I} + \overline{J})$. - 34 -Card 3/3

• . • 06490 SOV/141-58-4-6/26 Basov, N.G. and Orayevskiy, A.N. AUTHORS: The Possibilities of Making a Sealed Maser Using TITLE: ND_3 , NH_2D and NHD_2 Molecules (O vozmozhnosti soźdaniya otpayannogo molekulyarnogo generatora s ispol'zovaniyem molekul ND3, NH2D i NHD2) PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, 1958, Nr 4, pp 63-68 (USSR) The possibility is considered of preparing molecules ABSTRACT: in active state in three energy levels (Fig 1) by using auxiliary radiation. The energies of the three levels are given in Eq (1). The theory and design are given of an oscillator using deuterated ammonia. Under conditions of thermodynamic equilibrium, the number of molecules N_3 in level three is greater than the number of moleculés in N2 and N1 in levels two and one, since in this case the number of molecules in a Card 1/5

06490 The Possibilities of Making a Sealed Maser Using ND3, NH2D and SOV/141-58-4-6/26 NHD₂ Molecules level is determined by the Boltzmann factor. auxiliary radiation whose frequency is given by An Eq (2) excites the molecules from level three into level one creating a surplus of molecules in level one compared with those in level two (see Fig la) or in level two compared with level three (see Fig 1b). These respective transitions 1-2 and 2-3 are used to excite a resonator whose frequency is given by Eq (3) for the case in Fig la or Eq (4) for the case of Fig lb. greatest number of active molecules is obtained under conditions of saturation and the actual numbers are given for the two cases by Eq (5). If the gas is illuminated by monochromatic radiation the saturation conditions must satisfy Eq (6). The minimum width of the spectral line from the maser is given by the Doppler width of the line in the basic transition. the gas pressure is too high the line increases in width and if the pressure is too low then the number of active molecules falls off. The optimum pressure is Card 2/5

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06490 The Possibilities of Making a Sealed Maser Using ND3, NH2D and SOV/141-58-4-6/26 given by Eq (7). If a monochromatic auxiliary radiation is used however, considerable line broadening occurs; this may be avoided by using as auxiliary radiation a group of frequencies whose spacing is of the order of the basic Doppler width, in this case the saturation condition is given by Eq (8). Line broadening still occurs but it is now significantly less. The energy stored in the resonator is given by Eq (9) and, depending on the quality factor of the resonator, the auxiliary power required is given by Eq (10). This last amount is considerably less than that required when using monochromatic illumination. The best type of resonator to use is a cylindrical one supporting a mode E001. The conditions for self-excitation of a maser depend neither on the type of oscillations supported nor on the pressure and can be written as Eq (11). The rotational transition for ND3 has a frequency of 3×10^{11} c/s and higher. The frequency Card 3/5

and a second second

06490 The Possibilities of Making a Sealed Maser Using ND3, NH2D and SOV/141-58-4-6/26 NHD, Molecules increases with the quantum number J. Power is very difficult to obtain at these frequencies and in practice low quantum numbers are therefore to be preferred. It is therefore proposed to use as the low-frequency transition $1\overline{1} - 2\overline{1}$ and for the fundamental transition $l_1^+ - l_1^-$. The leading particulars of the oscillator are calculated to be as follows: fundamental frequency, 1598 x 10 Mc/s; auxiliary frequency, $6.2 \times 10^{11} \text{ c/s}$; Doppler width of the line at fundamental frequency 2.2 x 103 c/s; Doppler width at the auxiliary frequency 8.5×10^5 c/s; resonator quality necessary to maintain oscillations 3×10^3 ; auxiliary power 4×10^{-5} watts; number of active molecules 6×1015 molecules per second; power output 10-10 watts. It is reckoned that under practical conditions the stability of oscillation would be approximately one part in 10⁸. The fundamental difficulty in making an ND3 maser is the difficulty of obtaining sufficient power at a wavelength of 0.5 mm. Card 4/5

G6490 SOV/141-58-4-6/26 The Possibilities of Making a Sealed Maser Using ND3, NH₂D and Molecules Molecules of partially deuterated ammonia have an asymmetrical spin and therefore have a richer spectrum. Table 1 shows values of the frequencies of the basic and auxiliary radiations for molecules NH₂D and NHD₂ and also the intensities of the lines. Table 2 gives the There are 2 figures and 2 tables and 13 references. 7 of which are Soviet. ASSOCIATION: Fizicheskiy institut imeni P.N.Lebedeva AN SSSR (Physics Institute imeni P.N.Lebedev₃AS USSR) SUBMITTED: 10th November 1957

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05480 SOV/141-2-2-5/2: Bunkin, F.V. and Orayevskiy, A.N. AUTHORS : Spontaneous Radiation of a Molecule Inside a Resonator TITLE: PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, 1959, Vol 2, Nr 2, pp 181 - 186 (USSR) The probability W of the spontaneous radiation of **ABSTRACT:** a molecule, placed in a resonator, during its transition from an excited level \mathbf{E}_2 to a level \mathbf{E}_1 (where $\mathbf{E}_2 > \mathbf{E}_1$) wo should be different from the probability which corresponds to the radiation of the molecule in free space. In a number of works (Refs 1-3) the probability W Wo is determined by multiplying the probability cn by a factor f which is equal to the ratio of the number of the field oscillators in a unit spectrum interval in a unit resonator volume to the corresponding number in free space. It is found, however, that such a formula is inaccurate if the condition given by Eq (1) is not fulfilled; in Eq (1), ΔE denotes the width of the Card1/5 spectral levels and Q is the quality factor of the