L 41720-65 EWT(m)/T
ACCESSION NR: AP5010852

UR/0286/65/000/007/0019/0019
11
B

AUTHORS: Vysotskiy, Z. Z.; Strelko, V. V.

TITLE: A method for obtaining silica gel. Class 12, No. 169499

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 19

TOPIC TAGS: silica gel, organic compound, sorption

ABSTRACT: This Author Certificate presents a method for obtaining silica gel modified with organic compounds in the course of drying raw gel. To obtain silica gel of a high sorbing ability, the drying of gel is conducted in the atmosphere of thiophene at a temperature of 20C and at atmospheric pressure.

ASSOCIATION: Institut fizicheskoy khimii im. L. V. Pisarzhevskogo AN UkrSSR (Institute of Physical Chemistry, AN UkrSSR)

SUBMITTED: 28Mar64 ENCL: 00 SUB CODE: OC

NO REF SOV: 000 OTHER: 000

Card 1/1

L 54553-65 EWT(m)/EPF(c)/EPA(w)-2/T Pab-10/Pr-4 RWH/WW 3/3

ACCESSION NR: AP5016716 UR/0286/65/000/010/0017/0017

AUTHORS: Polyakov, M. V.; Vysotskiy, Z. Z.; Strelko, V. V.; Gushchin, P. P.

TITLE: A method for obtaining organosilica gel. Class 12, No. 170914 15

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 10, 1965, 17

TOPIC TAGS: organosilica gel, silica gel, organic compound, ethanolamine

ABSTRACT: This Author Certificate presents a method for obtaining organosilica gel in the vapor of an organic compound. To obtain silicagel with molecular sereen properties, the acidified hydrogel or xerogel of silicic acid is dried in the vapor of ethanolamine at a temperature of 20C over strong desiccants, at atmospheric pressure or in a vacuum.

ASSOCIATION: Institut fizicheskoy khimii im. L. V. Pisarzhevskogo AN UkrSSR (Institute of Physical Chemistry, AN UkrSSR)

SUBMITTED: 28Mar64 ENCL: 00 SUB CODE: GC, OC

NO REF SOV: 000 OTHER: 000

Card 1/1 HR

STRELKOV, Andrey

Intersexes in Tendipedidae as a result of infection by Nematodae. Dokl. AN SSSR 158 no.3:745-748 S '64. (MIRA 17:10)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova. Predstavleno akademikom Ye. N.Pavlovskim.

STRELKOV, A.

Simplest automobile model. Voen.znan.31 no.4:17-19 Ap '55.
(MLRA 8:10)

1. Nachal'nik avtomotokluba Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu, Khar'kov
(Automobiles--Models)

NASONOV, Dmitriy Nikolayevich; TROSHIN, A.S., glav. red.; GOLOVINA, N.V., red.; POLYANSKIY, Yu.I., red.; ROZENTAL', D.L., red.; STRELKOV, A.A., red.; VASIL'YEVA, Z.A., red.izd-va; VINOGRADOVA, N.F., tekhn. red.

[Some problems of cell morphology and physiology] Nekotorye voprosy morfologii i fiziologii kletki; izbrannye trudy. Moskva, Izd-vo AN SSSR, 1963. 361 p. (MIRA 16:12)
(Cytology)

STRELKOV, Andrey

Biology of a new mermithid parasitizing in flies of Rybinsk Reservoir. Vest. LGU 19 no.3:55-69 '64. (MIRA 17:3)

STRELKOV, A. A.

"Large Practicum for Invertebrate Zoology," Vol. I, (Bk.)

YAKOVLEVA, A.M.; PAVLOVSKIY, Ye.N., akademik, glavnyy redaktor; STREIKOV, A.A., redaktor izdaniya; BORISOV, K.A., redaktor izdatel'stva; ARONS, R.A., tekhnicheskiy redaktor.

[Loricate molluscs (Loricata) in the seas of the U.S.S.R.] Panzyrnye mollyuski morei SSSR (Loricata) Moskva, Izd-vo Akad. nauk SSSR, 1957. 117 p. (Opredeliteli po faune SSSR, no.45). (MLRA 10:8)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy). (Mollusca)

STREIKOV, A.A.

New species of pelagic infusorian Tintinnoinea in Far Eastern waters. (MLRA 7:5)
Trudy Zool.inst. 13:57-69 '53.
(Pacific Ocean--Infusoria) (Infusoria--Pacific Ocean)

DOGEL', Valentin Aleksandrovich; MEL'NIKOVA, G.G., redaktor; STRELKOV, A.A., professor; VODOLAGINA, S.D., tekhnicheskiy redaktor.

[Reduction in the number of homologous organs as one of the main paths of evolution in animals] Oligomerizatsiia gomologichnykh organov kak odin iz glavnykh putei evoliutsii zhivotnykh. Leningrad, Izd-vo Leningradskogo universiteta, 1954. 367 p.[Microfilm] (Evolution) (Anatomy, Comperative) (MLRA 8:2)

ANDRIYASHEV, A.P.; PAVLOVSKIY, Ye.N., akademik, glavnyy redaktor; BYKHOVSKIY, B.Ye., redaktor; VINOGRADOV, B.S., redaktor; STREL-KOV, A.A., redaktor; SHTAKEL'BERG, A.A., redaktor; SOSUNTSOVA, Ye.M., redaktor; SMIRNOVA, A.V., tekhnicheskiy redaktor.

Fishes of the northern seas of the U.S.S.R. Opredeliteli po faune SSSR no.53:3-566 '54. (MLRA 7:11)

1. Direktor Zoologicheskogo instituta Akademii nauk SSSR (for Pavlovskiy)
(Fishes)

STRELKOV, A.A.

Valentin Aleksandrovich Dogel's 70th birthday. Trudy Len.ob-va est. 72 no.4:5-8 '54. (MLRA 8:11)
(Dogel, Valentin Aleksandrovich, 1882-)

PESHKOV, M.A.; ZASUKHIN, D.N., redaktor; STRELKOV, A.A., redaktor; ARONS, R.A., tekhnicheskiy redaktor.

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(BACTERIA)

STRELKOV, A.A.

AKUMUSHKIN, I.I.; BARANOVA, Z.I.; BRODSKIY, K.A.; VIRKETIS, M.A.; VOLODCHENKO, N.I.; GALKIN, Yu.I.,; GUR'YANOVA, Ye.F.; DOGEL' V.A.; D'YAKONOV, A.M.; ZEVINA, G.B.; IVANOV, A.V.; KIR'YANOVA, Ye S.; KOBYAKOVA, Z T.; KOLTUN, V.M.; KONZHUKOVA, Ye.D.; KOROTKEVICH, V.S.; KLYUGE, G.A.; LOZINA-LOZINSKIY, L.K.; LOBAKINA, N.B.; NAUMOV, D.V.; PERGAMENT, T.S.; RESHETNYAK, V.V.; SAVEL'YEVA, T.S.; SKARLATO, O.A.; SOKOLOV, I.I.; STRELKOV, A.A.; TARASOV, N.I.; USHAKOV, P.V.; SHCHEDRINA, Z.G. YAKOVLEVA, A.M.; USHAKOV, P.V., obshchiy rukovoditel'; PAVLOVSKIY, Ye.N., akademik, redaktor; STRELKOV, A.A. redaktor; BRODSKIY, K.A., redaktor; ARONS, R.A., tekhnicheskiy redaktor.

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1. Akademiya nauk SSSR. Zoologicheskiy institut.
(Soviet Far East--Invertebrates)

SHMIDT, P.Yu.; KORZHUYEV, P.A., doktor biologicheskikh nauk, redaktor; STRELKOV, A.A., redaktor; SMIRNOVA, A.V., tekhnicheskiy redaktor

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(Resuscitation)

TELENGA, N.A.; PAVLOVSKIY, Ye.N., akademik, glavnyy redaktor; BYKHOVSKIY, B.Ye., redaktor; VINOGRADOV, B.S., redaktor; STRELKOV, A.A., redaktor; SHTAKEL'BERG, A.A., redaktor; BORKHSENIUS, N.S., redaktor; KRYZHANOVSKIY, O.L., redaktor; SMIRNOVA, A.V., tekhnicheskiy redaktor.

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1. Direktor Zoologicheskogo Instituta Akademii nauk SSSR (for Pavlovskiy).
(Hymenoptera)

USHAKOV,P.V.; PAVLOVSKIY,Ye.N., akademik, redaktor; BYKHOVSKIY,B.Ye., redaktor; VINOGRADOV,B.S., redaktor; STRELKOV,A.A., redaktor; SHTAKEL'BERG,A.A., redaktor

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1. Direktor Zoologicheskogo instituta Akademii nauk SSSR (for Pavlovskiy)

(Soviet Far East--Polychaeta)

KOROTKEVICH,V.S.; PAVLOVSKIY,Ye.N., akademik, redaktor; BYKHOVSKIY,B.Ye., redaktor;VINOGRADOV.B.S., redaktor; STRELKOV,A.A., redaktor; SHTAKEL'-BERG,A.A., redaktor

Pelagic nemertinea of the Far Eastern seas of the U.S.S.R. Opr.po faune no.58:3-131 '55. (MLRA 8:11)

1. Direktor Zoologicheskogo instituta Akademii nauk SSSR (for Pavlovskiy)

(Soviet Far East--Nemertinea)

PAVLOVSKIY, Ye.N., akademik, redaktor;BYKHOVSKIY, B.Ye.,redaktor;
VINOGRADOV, B.S., redaktor;STRELKOV, A.A.;SHTAKEL'BERG, A.A.,
redaktor;BREGETOVA, N.G.,redaktor; RADZIVILOVSKAYA, Z.A.,
redaktor;SMIRNOVA, A.V.,tekhnicheskiy redaktor.

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1.Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy)
(Mites) (Rodentia--Diseases and pests)

GALKIN,Yu.I.; PAVLOVSKIY,Ye.N., akademik, redaktor; BYKHOVSKIY,V.Ye. redaktor; VINOGRADOV,B.S., redaktor; STRELKOV,A.A., redaktor; SHTAKEL'BERG,A.A., redaktor; RADZIVILOVSKAYA,Z.A., redaktor; ARONS,R.A., tekhnicheskiy redaktor

Gasteropoda, Trochidae of the Far Eastern and northern seas of the U.S.S.R. Opr.po faune no.57:3-131 '55. (MLRA 8:7)

1. Direktor zoologicheskogo instituta AN SSSR (for Pavlovskiy)
(Gasteropoda)

TALIYEV, Dmitriy Nikolayevich, 1908-1952; NALIVKIN, D.V., akademik, redaktor; STRELKOV, A.A., professor, redaktor; PEVZNER, R.S., tekhnicheskiy redaktor.

[Cottoid fishes of Lake Baikal (Cottoidei)] Bychki-podkamenshchiki Baikala (Cottoidei). Moskva, Izd-vo Akademii nauk SSSR, 1955. 602 p. (MLRA 8:12)

(Baikal, Lake--Fishes)

AKUMUSHKIN, I.I.; BARANOVA, Z.I.; BRODSKIY, K.A.; VIRKETIS, M.A.; VOLODCHENKO, N.I.; GALKIN, Yu.I.,; GUR'YANOVA, Ye.F.; DOGEL' V.A.; D'YAKONOV, A.M.; ZEVINA, G.B.; IVANOV, A.V.; KIR'YANOVA, Ye S.; KOBYAKOVA, Z T.; KOLTUN, V.M.; KONZHUKOVA, Ye.D.; KOROTKEVICH, V.S.; KLYUGE, G.A.; LOZINA-LOZINSKIY, L.K.: LOBAKINA, N.B.; NAUMOV, D.V.; PERGAMENT, T.S.; RESHETNYAK, V.V.; SAVEL'YEVA, T.S.; SKARLATO, O.A.; SOKOLOV, I.I.; STRELKOV, A.A.; TARASOV, N.I.; USHAKOV, P.V.; SHCHEDRINA, Z.G. YAKOVLEVA, A.M.; USHAKOV, P.V., obshchiy rukovoditel'; PAVLOVSKIY, Ye.N., akademik, redaktor; STRELKOV, A.A. redaktor; BRODSKIY, K.A., redaktor; ARONS, R.A., tekhnicheskiy redaktor.

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1. Akademiya nauk SSSR. Zoologicheskiy institut.
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GUTSEVICH, A.V.; PAVLOVSKIY, Ye.N., akademik, glavnyy redaktor; IVANOV, A.I., redaktor; KRYZHANOVSKIY, O.L., redaktor; MONCHADSKIY, A.S., redaktor; STRELKOV, A.A., redaktor; SHTAKEL'BERG, A.A., redaktor vypuska; KOZLOVA, G.I., redaktor izdatel'stva; TVERITINOVA, K.S., tekhnicheskiy redaktor

[Biting midges; bloodsucking Diptera of the Heleidae family] Mokretsy, krovososushchie dvukrylye semeistva Heleidae. Moskva, Izd-vo Akademii nauk SSSR, 1956. 50 p. (V pomoshch' rabotaiushchim po zoologii v pole i laboratorii, 3) (MLRA 9:9)
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RUBTSOV, I.A.; PAVLOVSKIY, Ye.N., akademik, glavnyy redaktor; IVANOV, A.I., redaktor; KRYZHANOVSKIY, O.L., redaktor; MONCHADSKIY, A.S., redaktor; STRELKOV, A.A., redaktor; SHTAKEL'BERG, A.A., redaktor; TVERITINOVA, K.S., tekhnicheskiy redaktor

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VYSOTSKAYA, S.O.; PAVLOVSKIY, Ye.N., akademik, radaktor; BYKHOVSKIY, B.Ye., redaktor; VINOGRADOV, B.S., redaktor; [redacted] redaktor; SHTAKEL'BERG, A.A., redaktor; DUBININ, V.B., redaktor; ZENDEL', R.Ye., tekhnicheskiy redaktor.

[Short guide to fleas having an epidemiological significance] Kratkii opredelitel' blokh, imeiushchikh epidemicheskoe znachenie. Moskva, Izd-vo Akademii nauk SSSR, 1956. 99 p. (Opredeliteli po faune SSSR, no.63) (MLRA 9:8)

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STRELKOV, I. A.

VINOGRADOV,B.S.; GROMOV,I.M.; PAVLOVSKIY,Ye.N.,akad. IVANOV,A.I., redaktor; KRYZHANOVSKIY,O.L., redaktor; MONCHADSKIY,A.S., redaktor; STRELKOV,A.A., redaktor; KOZLOVA,G.I., redaktor; KRUGLIKOVA,N.A., tekhnicheskiy redaktor

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1. Direktor Zoologicheskogo instituta AN SSSR, (for Pavlovskiy). (Rodentia)

SHTAKEL'BERG, A.A.; PAVLOVSKIY, Ye.N., akademik, redaktor; BYKHOVSKIY, B.Ye., redaktor; VINOGRADOV, B.S., redaktor; STRELKOV, A.A., redaktor; SMIRNOV, A.V., tekhnicheskiy redaktor.

[Synanthropic diptera of the U.S.S.R.] Sinantropnye dvukrylye fauny SSSR.(Opredeliteli po faune SSSR no.60) 1956 163 p. (MLRA 9:4)

1.Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy)
(Diptera)

KOZAK, E.A.; MUSATOV, I.G.; PEROVICH, I.N.; SHAFRANOVSKIY, K.I.; STRELKOV, A.A., redaktor; ISAKOVA, O.V., otvetstvennyy redaktor; LIKHTENSHTEYN, Ye.S., otvetstvennyy redaktor; SHUNKOV, V.I., otvetstvennyy redaktor; NESMEYANOV, A.N., akademik, glavnyy redaktor; TOPCHIYEV, A.V., akademik, zamestitel' glavnogo redaktora; RUDENSKAYA, L.V., redaktor izdatel'stva; NOVIKOVA, S.I., tekhnicheskiy redaktor

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STRELKOV, A.A.; KOZAK, E.A.

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[Feather mites (Analgesoidea)]. Per'evye kleshchi (Analgesoidea). Pt.3: [Family Pterolichidae]. Semeistvo Pterolichidae. Moskva, Izd-vo Akademii nauk SSSR, 1956. 813 p. (Fauna SSSR vol.6, no.7). (MLRA 10:6)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(Mites) (Parasites--Birds)

SERDYUKOVA, G.V.; PAVLOVSKIY, Ye.N., akademik, glavnyy redaktor; BYKHOVSKIY, B.Ye., redaktor; VINOGRADOV, B.S., redaktor; STRELKOV, A.A., redaktor; SHTAKEL'-BERG, A.A., redaktor.; BLAGOVESHCHENSKIY, D.I., redaktor izdaniya; KOZ-LOVA, G.I., redaktor izdatel'stva; KRUGLIKOVA, N.A., tekhnicheskiy redaktor.

[Ixodid ticks of the U.S.S.R.] Iksodovye kleshchi fauny SSSR. Moskva, Izd-vo Akademii nauk SSSR. 1956. 121 p. (Opredeliteli po faune SSSR, no.64) (MIRA 10:3)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(Ticks)

BREGETOVA, N.G.; PAVLOVSKIY, Ye.N., akademik, redaktor; BYKHOVSKIY, B.Ye., redaktor; VINOGRADOV B.S., redaktor; STRELKOV, A.A., redaktor; SHTAKEL'BERG, A.A., redaktor; MONCHADSKIY, A.S., redaktor; ZENDEL', M.Ye., tekhnicheskiy redaktor.

[Gamasid mites (Gamasoidea); short guide] Gamazovye kleshchi (Gamasoidea); kratkii opredelitel'. Moskva, Izd-vo Akademii nauk SSSR, 1956. 246 p. (Opredeliteli po faune SSSR, no.61) (MLRA 9:8)

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(Mites)

NOVIKOV, G.A.; PAVLOVSKIY, Ye.N., akademik, redaktor; BYKHOVSKIY, B.Ye., redaktor; VINOGRADOV, B.S., rdaktor; STRELKOV, A.A., redaktor; SHTAKEL'BERG, A.A., redaktor; KOZLOVA, G.I., redaktor; SMIRNOVA, A.V., tekhnicheskiy redaktor.

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1. Direktor zoologicheskogo instituta AN SSSR (for Pavlovskiy)
(Carnivora)

TARASOV, N.I.; ZEVINA, G.B.; PAVLOVSKIY, Ye.N., akademik, glavnyy red.; BYKHOVSKIY, B.Ye., red.; VINOGRADOV, B.S., red.; SHTAKEL'BERG, A.A., red.; STRELKOV, A.A., red.; SERGEYEVA, G.I., red. izd-va; SMIRNOVA, A.V., tekhn. red.

[Barnacles (Cirripedia thoracica) in the seas of the U.S.S.R.] Usonogie raki (Cirripedia thoracica) morei SSSR. Moskva, Izd-vo akad. nauk SSSR, 1957. 263 p. (Fauna SSSR, no.69). (MIRA 11:3)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(Cirripedia)

LUK'YANOVICH, F.K.; TER-MINASYAN, M.Ye.; PAVLOVSKIY, Ye.N., akademik, glavnyy redaktor; BYKHOVSKIY, B.Ye., redaktor; VINOGRADOV, B.S., redaktor; STRELKOV, A.A., redaktor; SHTAKEL'BERG, A.A., redaktor; TVERITINOVA, K.S., tekhnicheskiy redaktor.

[Grain beetles (Bruchidae).] Zhuki-zernovki (Bruchidae). Moskva, Izd-vo Akad. nauk SSSR, 1957. 208 p. (Fauna SSSR, no.67, Zhestkokrylye, vol. 24, no.1). (MLRA 10:7)

(Beetles)

PAVLOVSKIY, Ye.N., akademik; IVANOV, A.I., redaktor; KRYZHANOVSKIY, O.L., redaktor; MONCHADSKIY, A.S., redaktor; STRELKOV, A.A., redaktor vypuska

[Methods of anatomizing insects by hand] Metody ruchnogo anatomirovaniia nasekomykh. Moskva, Izd-vo Akad.nauk SSSR, 1957. 80 p. (V pomoshch' rabotaiushchim po zoologii v pole i laboratorii, 6) (MLRA 10:6)

(Insects--Collection and preservation)

KOZLOVA, Ye.V.; PAVLOVSKIY, Ye.N., akademik, glavnyy redaktor; BYKHOVSKIY, B.Ye., redaktor; VINOGRADOV, B.S., redaktor; STRELKOV, A.A., redaktor; SHTAKEL'-BERG, A.A., redaktor; IVANOV, A.I., redaktor; KOZLOVA, G.I., redaktor izdatel'stva; SMIRNOVA, A.V., tekhnicheskiy redaktor.

[Charadriiformes. Suborder Alcae. 143 p.] Rzhankoobraznye. Podotriad chistikovye. Moskva, Izd-vo Akademii nauk SSSR, 1957, 143 p.(Fauna SSSR, vol.2, no.3) (MLRA 10:3)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy) (Auks)

BULYCHEVA, A.I.; PAVLOVSKIY, Ye.N., akademik, glavnyy redaktor; BYKHOVSKIY, B.Ye., redaktor; VINOGRADOV, B.S., redaktor; STRELKOV, A.A., redaktor; SHTAKEL'BERG, A.A., redaktor izdaniya; KRUGLIKOVA, N.A., tekhnicheskiy redaktor

[Talitroidea in the seas of the U.S.S.R. and adjacent waters (Amphipoda Talitroidea)] Morskie blokhi morei SSSR i sopredel'nykh vod (Amphipoda Talitroidea) Moskva, Izd-vo Akademii nauk SSSR, 1957. 185 p. (Opredeliteli po faune SSSR no.65). (MIRA 10:4)

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(Amphipoda)

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PAVIL'SHCHIKOV, Nikolay Nikolayevich; PAVLOVSKIY, Ye.N., akademik, glavnyy red.; BYKHOVSKIY, B.Ye., red.; VINOGRADOV, B.S., red.; STRELKOV, A.A., red.; SHTAKEL'BERG, A.A., red.seriia; KRYZHANOVSKIY, O.L., red.toma; KRUGLIKOVA, N.A., tekhn.red.

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AUTHORS: Leypunskiy, O. I., Strelkov, A. S., Frolov, A. S., Chentsov, N. N.

TITLE: The propagation of the γ-radiation of a prompt point source in air

PERIODICAL: Atomnaya energiya, v. 10, no. 5, 1961, 493-500

TEXT: The present paper gives a calculation of the propagation of an infinitely short gamma radiation pulse (δ pulse) in air space considered as infinite. The calculation is made by the Monte-Carlo method. The initial gamma radiation energy is assumed to be 1 Mev and the density of air to be $1.29 \cdot 10^{-3}$ g/cm^3. The point source considered emits isotropically. The direction of motion of one of the quanta emitted by the source and suffering collision is described by the Klein Nishina indicatrix. A special method is developed for the solution of the transcendental equation obtained. The absorption of the quanta is taken into account by a weight factor. A quantum packet thus moves along a trajectory; each trajectory is followed till the weight is only just 10^{-4} times the initial weight.

Card 1/5

The propagation of the γ-radiation of a...

The object of the calculations is to determine the quantity Φ_{kjim} i.e. the energy transferred at a distance R_k from the source in the time $t_j - t_{j+1}$ through a unit area perpendicular to the flux by gamma quanta of energy $E_i - E_{i+1}$ whose directions of motion make an angle $\theta_m - \theta_{m+1}$ with the radius vector of the point of observation. The intensities $I^o_{kjim} = \Phi_{kjim}/\Delta t_j \Delta E_i \Delta\Omega_m$ can be determined from Φ_{kjim}. The following numerical values are taken as the basis of the calculations: 1) $R_k = 250$, 500, and 1000 m corresponding to $\mu_o R_k = 2.03$, 4.08, and 8.12 free paths; 2) $t_j = 0$, 0.125, 0.250, 0.500, 1.00, 1.50, 2.00, 3.00, 4.00, ∞ μsec; 3) $E_i = 0$, 0.0625, 0.125, 0.250, 0.500, 1.00 and 2.00 Mev; 4) $\theta_m = 0$, 10, 40, 90, 180°. The applicability of the method was checked by comparison of the build-up factors obtained by integration of I^o_{kjim}. The result is

Card 2/5

The propagation of the γ-radiation of a...

R_k, m ($\mu_o R_k$)	250 (2.03)	500 (4.06)	1000 (8.12)
Monte-Carlo method	3.69	7.57	21.8
method Ref. 6	3.6	7.5	18.6

(Ref. 6: H. Goldstein, J. Wilkins. Rept. U. S. Atomic Energy Comm., No. 40, 3075 (1955)). The investigation of the time dependence of the pulse of the gamma source (scattered quanta) for observation points at different distances showed that the pulse became broader with increasing distance. The duration of the decrease of energy amounts to 0.5, 1.0, and 1.5 μsec, respectively, for R = 250, 500, and 1000 m. The unit of intensity is taken to be the intensity during 0 - 0.125 μsec. The absolute values of the intensity in this interval over the whole spherical surface for these three R values are 1.43, 0.41, and 0.0088 Mev/μsec, respectively. The investigation of the time energy spectra for different distances showed that for a given time interval at $R > 250$ m the form of the spectra remain practically unchanged. The investigation of the time dependence of the energy for different R values showed that for $t > 1$-1.5 μsec the mean hardness of the radiation remains practically unchanged (50-60 kev). From

Card 3/5

a comparison of the I(t) curves in given solid angles for different R values it is found that the decrease of intensity at $\theta < 90^{\circ}$ is delayed with increasing distance. With increasing t and θ and a given R_k the spectra become softer. Table 2 gives the numerical data for the angle distribution of the scattered gamma radiation; Table 3 gives the same for the total intensity. An estimate of the accuracy of the calculation of the time dependence of the intensities gives for t = 1 μsec 15-20 %, and for t > 1 μsec 40-50 %. For the time dependence of the energies the situation is analogous. The authors thank I. M. Gel'fand for collaboration. There are 6 figures, 3 tables and 8 references: 6 Soviet-bloc and 2 non-Soviet-bloc.

SUBMITTED: July 7, 1961

Legend to the Tables: 1) θ in degrees, 2) R in meters; the intensities are given in %.

Card 4/5

L 26726-66 EWT(1)/EWA(h)

ACC NR: AP6013511 SOURCE CODE: UR/0120/66/000/002/0119/0123

AUTHOR: Andryushin, N. F.; Antonov, Ye. A.; Bulatov, B. P.; Koridalin, V. Ye.; Strelkov, A. S.

ORG: Institute of Physics of the Earth AN SSSR, Moscow (Institut fiziki Zemli AN SSSR)

TITLE: A wide-range detector of light pulses

SOURCE: Pribory i tekhnika eksperimenta, no. 2, 1966, 119-123

TOPIC TAGS: light pulse, radiation detector, photomultiplier

ABSTRACT: A wide-range device for detecting intermittent light pulses is described. The basic element of the unit is a photomultiplier with alloyed dynodes. The output voltage pulses are taken from load resistors connected in the dynode circuits and fed to the measurement system. With the proper supply voltage and a slight correction in the voltage distribution between dynodes, there is a difference of an order of magnitude between the sensitivities of two adjacent dynodes. A detector with a linear dynamic range covering four orders of magnitude in the intensity of light pulses was made by taking the signals from four dynodes. Various types of photomultipliers were studied by modulator control of the photocurrent and by exposing the photocathode to short bursts of light. The experimental conditions and procedure are briefly described. The photomultipliers used were the FEU-13, -15 and -16 with alloyed dynodes and the

Card 1/2 UDC: 621.383.5:535.5

L 26726-66

ACC NR: AP6013511

FEU-27 and -31 with antimony-cesium coated dynodes. Both methods were used for studying the miniature FEU-15. Typical dynode output curves for this tube are given. The dynodes have a linear output range of more than 6—8 v with a 5% deviation from linearity. Formulas are given for determining signal magnitude in the linear region of the output curve for a given measurement rank, as well as for finding the sensitivity of any rank. The linearity of the dynode characteristics was studied with a direct-current component through the photomultiplier. It was found that the voltage across the dynode gap decreases as the gap approaches the anode. There is a simultaneous increase in the voltages across the dynode gaps closest to the photocathode since the total voltage across the photomultiplier remains constant. This is due to the initial increase in signal magnitude. A further increase in the anode current reduces the pulse amplitude from the dynode as a result of current limiting in the subsequent dynode gap due to the space charge. Thus there is a reduction in the difference between pulse currents in the preceding and succeeding dynode gaps. The sign of this difference may change when the anode current reaches a high enough value, with a resultant change in the polarity of the signal from the dynode. It is found that the direct current through the photomultiplier should be much less than the divider current for normal operation of the device. The authors are grateful to V. S. Yuzgin for participation in this work. Orig. art. has: 8 figures, and 2 formulas. [14]

SUB CODE: 20/ SUBM DATE: 11Mar65/ ORIG REF: 003/ ATD PRESS: 4258

Card 2/2

ALFIMENKOV, V.P.; OSTANEVICH, Yu.M.; RUSKOV, T.; STRELKOV, A.V.; SHAPIRO, F.; YAN' U-GUAN [Yen Wu-kuang]

[Observation of the Mossbauer effect in Sm^{149}] Nabliudenie effekta Messbauera Sm^{149}. Dubna, Ob"edinennyi in-t iadernykh issl., 1961. 6 p. (MIRA 15:1)
(Nuclear magnetic resonance and relaxation) (Samarium)

ALFIMENKOV, V.P.; OSTANEVICH, Yu.M.; RUSKOV, T.; STRELKOV, A.V.; SHAPIRO, F.; YAN' U-GUAN [Yen Wu-kuang]

[Energy spectrum of the resonance absorption of γ-radiation from 92 Kev. Zn^{67} in zinc oxide] Energeticheskii spektr rezonansnogo pogloshcheniia γ-isluchèniia 92 Kev Zn^{67} v okisi tsinka. Dubna, Ob"edinennyi in-t iadernykh issl., 1961. 16 p. (MIRA 15:1)

(Gamma rays) (Zinc oxide)

S/056/62/042/004/018/037
B108/B102

AUTHORS: Alfimenkov, V. P., Ostanevich, Yu. M., Ruskov, T., Strelkov, A. V., Shapiro, F. L., Yen Wu-kuang

TITLE: Energy spectrum of the resonance absorption in zinc oxide of 92-kev gamma radiation from Zn^{67}

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42, no. 4, 1962, 1029 - 1035

TEXT: The Mössbauer effect in Zn^{67} has been studied by the Doppler shift and frequency modulation methods. The energy spectrum of 92-kev gamma rays was recorded at $\sim 4.2^{\circ}K$ using a source and a filter (up to 33% Zn^{67}), both made of ZnO. The statistical error in the measurements was $2 \cdot 10^{-4}$. Resonance absorption, observed at zero energy shift, reached a maximum of $2 \cdot 10^{-3}$. The line width was somewhat greater than the natural width. The structure of the resonance-absorption energy spectrum shows quadruple splitting of the

Card 1/6

Energy spectrum of ...

the Zn^{67} levels but is difficult to interpret because of the insufficient experimental accuracy. The effective Debye temperature of the ZnO was estimated at about 300°K, which is consistent with published data. There are 6 figures and 10 references: 4 Soviet and 6 non-Soviet. The four most recent English-language references read as follows: R. V. Pound, G. A. Rebka, Phys. Rev. Lett., 4, 274; 397, 1960; R. Craig et al. Phys. Rev. Lett., 4, 561, 1960; S. Ruby, D. Bolef. Phys. Rev. Lett., 5, 5, 1960.

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

SUBMITTED: December 9, 1961

Card 2/2

S/056/62/042/004/019/037
B108/B102

AUTHORS: Alfimenkov, V. P., Ostanevich, Yu. M., Ruskov, T., Strelkov, A. V., Shapiro, F. L., Yen Wu-kuang

TITLE: The Mössbauer effect in $Sm_2^{149}O_3$

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42, no. 4, 1962, 1036 - 1037

TEXT: A 22-kev gamma transition in Sm^{149} has been observed by B. S. Dzhelepov et al. (B. S. Dzhelepov et al. Nucl. Phys., 30, 110, 1962). To verify these authors' suggestion that this transition leads to the ground state, the present authors made nuclear resonance absorption, thus using an $Sm_2O_3 + Eu_2^{149}O_3$ source and a movable Sm_2O_3 filter and measuring at room temperature by the Doppler shift method. The results were positive. The upper limit of the level width was $6 \cdot 10^{-7}$ ev, level lifetime $\tau > 10^{-9}$ sec. K. Ya. Gromov, Zh. T. Zhelev, and V. A. Khalkin are thanked for having supplied the source. There are 2 figures and 2 non-Soviet references.

Card 1/2

S/056/62/042/004/019/037
B108/B102

The Mössbauer effect ...

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

SUBMITTED: December 9, 1961

Card 2/2

ACCESSION NR: AP4019209 S/0056/64/046/002/0482/0487

AUTHORS: Alfimenkov, V. P.; Lebedev, N. A.; Ostanevich, Yu. M.; Ruskov, T.; Strelkov, A. V.

TITLE: A study of the Mossbauer effect on Sm-149

SOURCE: Zhurnal eksper. i teor. fiz., v. 46, no. 2, 1964, 482-487

TOPIC TAGS: Mossbauer effect, samarium 149, Gamma spectrum, apparatus Gamma spectrum, velocity spectrum, apparatus velocity spectrum, line width, line broadening, resonance absorption, resonance emission, resonance absorption spectrum, level spin

ABSTRACT: To increase the number of Mossbauer γ transitions suitable for research, the authors investigated the 22.5-keV γ transition of Sm^{149} in the form of Sm_2O_3 with approximate activity 5×10^4 quanta/sec.. The apparatus is described, together with the steps ta-

Card 1/3

ACCESSION NR: AP4019209

ken to eliminate the effect of the neighboring 41-keV gamma radiation of samarium. A line width of $(1.35 \pm 0.1) \times 10^{-7}$ was obtained at room temperature, corresponding to a broadening by a factor of 2.3. A cross section of $(8.4 \pm 2.5) \times 10^{4}$ barns was obtained. The most likely spin of the 22.5-keV level is 5/2. It is claimed that the availability of more active sources and further development of the experimental technique will make the Mossbauer effect on Sm^{149} a useful research tool. "In conclusion the authors are grateful to F. Shapiro for continuous interest in the work, Zh. Zhelev for useful discussions, V. Grigalis, Z. Marish, Ye. Pikel'ner, S. Salakhiddinov, and A. Sekirin for help with the measurements, and A. Novgorodov for help in preparing the source." Orig. art. has: 5 figures and 5 formulas.

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

Card 2/2 Sub 24 Jul 63

STRELKOV, B.I.

PHASE I BOOK EXPLOITATION SOV/4403

Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki

Avtomaticheskoye upravleniye; [sbornik rabot] (Automatic Control; Collected Works) [Moscow] Izd-vo AN SSSR [1960] 431 p. Errata slip inserted. 5,500 copies printed.

Ed.: Ya.Z. Tsypkin, Doctor of Technical Sciences, Professor; Ed. of Publishing House: Ye.N. Grigor'yev; Tech. Ed.: G.A. Astaf'yeva.

PURPOSE: This collection of reports is intended for scientists and engineers engaged in the study of automation.

COVERAGE: The collection contains reports presented at the 6th Conference of Young Scientists of the Institut avtomatiki i telemekhaniki AN SSSR (Institute of Automation and Telemechanics of the Academy of Sciences USSR) in January 1959. The collection covers a wide range of scientific and technical problems connected with automatic control. No personalities are mentioned. References accompany each report.

The authors discuss the design and operation of elements which permit a new solution of problems connected with designing pneumatic computers and control systems. These elements should be free of some of the defects characteristic of existing pneumatic regulators equipped with rubber and fabric-made membranes. There are no references.

The author divides existing noncontact telemechanical systems with time channel separation which use an asynchronous power supply into two groups: (1) those which require a selected (time or frequency) communication channel for synchronizing and synphasing; (2) those which are synchronized by means of "working" pulses. An asynchronous power supply for telemechanical systems with time channel selection becomes more economical and simpler if the time channel is also used for synchronization and synphasing for which there are two possible variants. In the first variant the driven generator starts and runs normally only in the beginning of each alternate cycle of exchange of information between dispatching and checking points. This is achieved by sending a special triggering pulse from the dispatching point and by sending, during transmission, synchronising pulses at equal intervals which are common multiples of the oscillation period of the generator. The second variant differs from the first by the absence of synchronising pulses during cycle transmission, i.e., it represents a start-stop synchronizing system of the driven generator which has the same frequency as the driving generator. This variant of asynchronous power supply is discussed in the report. It is distinguished by its simplicity and, with the use of a high stability generator, it can ensure reliable remote-control operation. There are 7 references, all Soviet (including 1 translation).

This report suggests methods for designing a universal logical circuit "OR - not OR" and a trigger for two other types of links between the components, namely the pulse link and the mixed pulse - potential links. The author finds it possible to build such circuits using only one transistor which in turn simplifies the component design. He also makes suggestions on how to realize triggering at the calculating unit input in the asymmetric type of triggers for both cases of linking between components. He suggests how to obtain low output resistance of the asymmetric static trigger in both its states. The possibility of realizing the suggested circuits was proved by experimental checking which gave satisfactory results. There are 5 references: 2 Soviet, and 3 English.

STRELKOV, B. I.

95

S/089/62/013/006/019/027
B102/B186

AUTHORS: G. T. and M. R.

TITLE: Nauchnaya konferentsiya Moskovskogo inshenerno-fizicheskogo instituta (Scientific Conference of the Moscow Engineering Physics Institute) 1962

PERIODICAL: Atomnaya energiya, v. 13, no. 6, 1962, 603 - 606

TEXT: The annual conference took place in May 1962 with more than 400 delegates participating. A review is given of these lectures that are assumed to be of interest for the readers of Atomnaya energiya. They are following: A. I. Leypunskiy, future of fast reactors; A. A. Vasil'yev, design of accelerators for superhigh energies; I. Ya. Pomeranchuk, analyticity, unitarity, and asymptotic behavior of strong interactions at high energies; A. B. Migdal, phenomenological theory for the many-body problem; Yu. D. Fiveyskiy, deceleration of medium-energy antiprotons in matter; Yu. M. Kogan, Ya. A. Iosilevskiy, theory of the Mössbauer effect; M. I. Ryazanov, theory of ionization losses in nonhomogeneous medium; Yu. B. Ivanov, A. A. Rukhadze, h-f conductivity of subcritical plasma;

Card 1/4

18

S/089/62/013/006/019/027
B102/B186

Nauchnaya konferentsiya...

B. V. Pletnev, F. M. Spevakov, A. M. Stolov, supply of synchrotron electromagnets; G. L. Saksaganskiy, V. Ya. Moiseyev, flanged separable heat-resistant junctions of great diameter; B. G. Klimov, A. S. Vayradyan, V. F. Yevseyev, I. B. Mikhaylov, I. M. Afonskiy, B. N. Belov, Ye. I. Manovov, B. I. Strelkov, Ye. V. Sedykh, B. A. Shchukin, optical principles in computer engineering technique; R. S. Nakhmanson, M. M. Royzin, M. E. Mostovlyanskiy, Yu. A. Volkov, electronics; Ye. L. Sulim, transmitter for electromagnetic flow-meter, V. M. Ovsyankin, V. M. Plushnikov, application of varicondes for transforming d.c. into a.c.

Card 4/4

STRAIZYS, V.P.

Color indexes of 13 Mira Ceti long-period variable stars [with summary in French] Astronomicheskaya observatoriya Odesskogo gosudarstvennogo universiteta im. I. I. Mechnikova.

Astronomicheskiy zhurnal, 11 no.2:65-102 Ap '57. (MIRA 10:7)

(Stars, Variable) (Stars--Color)

82592

S/170/60/003/005/009/017
B012/B056

24.2120

AUTHORS: Strelkov, G. I., Yas'ko, O. I.

TITLE: Measurement of the Velocity of a Luminous Jet

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 5, pp. 93 - 95

TEXT: In the present paper, the method of measurement and several results obtained in the laboratory when measuring the jet velocity are given. The device used for this purpose is based on the principle of stabilization of a precise carbon arc by means of water (Ref. 1). The jet temperature was 11,500°K. The jet velocity was determined by the photoanalyzing method (Ref. 2). Measurements were carried out by means of a slow-motion camera of the type "ZL-1" with a normal objective. The application of the photoanalyzing method for determining the jet velocity was possible because the jet, as shown by its analysis (Fig. 1), is characterized by a fluctuation of its brightness in time. In this connection, reference is made to a paper by R. Weiss (Ref. 3). In the present case, some of the features mentioned here indicate that these

STRELKOV, G.I.; YAS'KO, O.I.

Using the method of photographic image scanning for determining the velocity of a high-temperature gas stream. Usp.nauch.fot. 9:219 '64. (MIRA 18:11)

ACC NR: AR6020770 SOURCE CODE: UR/0269/66/000/003/0067/0067

AUTHOR: Strelkov, G. M.

TITLE: Effect of the cloud cover of Venus on its radio emission in the centimeter- and millimeter-wave bands

SOURCE: Ref. zh. Astronomiya, Abs. 3.51.565

REF SOURCE: Sb. Vopr. astrofiziki. Kiyev, Nauk. dumka, 1965, 21-46

TOPIC TAGS: Venus planet, planetary atmosphere, cosmic radio emission

ABSTRACT: A model of the atmosphere of Venus was calculated with the assumption that the planet's cloud cover consisted of droplets of water and had a moisture content of the same order as the Earth's atmosphere. The atmosphere of Venus was considered to be in an adiabetic equilibrium (a pressure of 10 atmospheres on the surface) and consisting of 95% N and 5% CO_2. The results of the calculation of the spectrum of the radio emission of the planet, made on the assumption that the temperature on the planet's surface was 600°K and that the temperature of the 3-km-thick cloud layer was 273°K, agreed well with the experiment within a wide range of wavelengths, but near $\lambda = 1.35$ cm the calculations disagreed strongly with the experimental data. This disagreement suggested the presence of some other absorption agent. The planet's cloud cover probably consisted of liquid hydrocarbons, CH_3 and HCN being the most suitable.

UDC: 523.42

Card 1/2

ACC NR: AR6020770

It is postulated that the high-temperature brightness on the surface of Venus, detected within the centimeter-wave band, is related to the presence of a hot planet core and a crust (consisting, for instance, of crystalline quartz), that is relatively transparent for radiofrequency waves. Bibliography of 58 titles. A. Kislyakov. [Translation of abstract]

SUB CODE: 03

Card 2/2

L 41083-66 EWT (1) GW

ACC NR: AP6028338 SOURCE CODE: UR/0293/66/004/004/0581/0591

56
B

AUTHOR: Strelkov, G. M.

ORG: none

TITLE: Thermal effect in the Venusian atmosphere

SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 4, 1966, 581-591

TOPIC TAGS: planetary atmosphere, Venus, radiative heat transfer, atmospheric temperature, cloud cover, heat transfer,

ABSTRACT: The problem of radiative-energy transfer and a possible concomitant thermal effect in the Venusian atmosphere beneath the cloud layers is examined. It is assumed that the atmosphere is in a state of local thermodynamic equilibrium and that the energy transfer is accomplished solely by means of absorption and reradiation and that the cloud layer completely absorbs radiation in the infrared region. Two cases are examined: 1) where the coefficient of absorption of the atmosphere is independent of frequency, the "gray" atmosphere, and 2) where the coefficient of atmospheric absorption in the 8—12-μ wavelength interval is considerably less than the coefficient of absorption in the rest of the infrared spectra. In both cases the presence of

Card 1/2 UDC: 523.164.3.523.42

ACC NR: AP6028338

the cloud cover accounts for only a small decrease in the required optical depths. On the assumption that carbon dioxide amounts to 5 and 15% of the total mass of the Venusian atmosphere, the amounts of water vapor which, together with the indicated amounts of CO_2, could cause the required opaqueness of the atmosphere in the 8—12-μ range, are estimated. If the surface pressure is 5 atm, then the atmosphere must contain 18.6 g/cm^2 of H_2O and $1.3 \cdot 10^5$ atm·cm of CO_2 or 17.8 g/cm^2 of H_2O and $3.9 \cdot 10^5$ atm·cm of CO_2, respectively, in order to heat the surface to a temperature of 600K. If p_0 = 10 atm, then 8.7 g/cm^2 of H_2O and $2.6 \cdot 10^5$ atm·cm of CO^2 or 7.1 g/cm^2 of H_2O and $7.8 \cdot 10^5$ atm·cm of CO_2 would be required. Orig. art. has: 30 formulas, 1 figure, and 1 table. [DM]

SUB CODE: 03/ SUBM DATE: 23Jul65/ ORIG REF: 010/ OTH REF: 014
ATD PRESS: 5056

Card 2/2

L 3218-66 FBD/EWT(1) GS/GW/WS-4

ACCESSION NR: AT5024604 UR/0000/65/000/000/0021/0046

AUTHOR: Strelkov, G. M. 155

TITLE: The effect of the cloud cover of Venus on its radio emission in the centimeter and millimeter wave bands

SOURCE: AN UkrSSR. Voprosy astrofiziki; issledovaniye atmosfer Venery i Marsa (Problems in astrophysics; investigation of the atmosphere of Venus and Mars). Kiev, Izd-vo Naukova dumka, 1965, 21-46

TOPIC TAGS: Venus, planetary astronomy, Venusian cloud cover, Venus radio emission 12,55

12,55

ABSTRACT: A number of hypotheses have been advanced to explain the high effective temperature of the radio emission of Venus in the centimeter wave band. To test these hypotheses, the author analyzes a model of the atmosphere having structural parameters corresponding to the results of astronomical observations. It is assumed that the cloud cover over Venus consists of a layer 3 km thick, composed of water droplets, above which there is a layer of ice crystals 8 km thick. The spectral characteristics of the radio-brightness temperature in the 0.3—22-cm band were calculated on atmospheric models constructed

Card 1/2

L 3218-66

ACCESSION NR: AT5024604

2

for various values of the water content of clouds and of the surface pressures p_0 = 5 atm and p_0 = 10 atm. Comparison of theoretical characteristics with the results of measurements of the radio-emission temperature of Venus at various wavelengths shows that the cloud cover of the planet cannot be aqueous. Various hypotheses on the nature of Venusian clouds are analyzed. It is concluded that the clouds cannot consist of solid nonconducting powders and are, most probably, made up of a liquid with molecules having a constant dipole moment. A supposition is advanced that the high effective temperature of the radio emission of Venus may be explained by emission from the heated interior of the planet. Orig. art. has: 2 figures, 3 tables, and 33 formulas. [JJ]

ASSOCIATION: Institut radiotekhniki i elektroniki AN SSSR (Institute of Radio Engineering and Electronics, AN SSSR)

55

SUBMITTED: 05Jun65	ENCL: 00	SUB CODE: AA, EC	
NO REF SOV: 013	OTHER: 045	ATD PRESS: 4104	

30

Card 2/2