

S/181/62/004/008/019/041  
 B102/B104

Deformation-induced splitting of the...

highest conduction band is of the type  $\Gamma_{12}^-$ . As the splitting is similar in both series the exciton band splitting must be due to splitting of the upper conduction bands which are the same in both. An investigation of the optical transitions in the bands  $\Gamma_8^-$  ( $\Gamma_{12}^-$ ) shows that in  $\Gamma_8^-$  ( $\Gamma_{12}^-$ ) the relative intensity of polarized absorption is equal for transitions from  $\Gamma_7^+$  (blue) and from  $\Gamma_8^+$  (dark blue). Qualitatively the theoretical results agree well with the experiments. If  $\sigma$  is given in  $^2\text{kg}/\text{mm}^2$ ,

$$\Delta \text{ cm}^{-1} = -2.7(\sigma_{xx} - \sigma_{yy} + \sigma_{zz}) \pm (12) \cdot \pm 25 \sqrt{\frac{(\sigma_{xx} - \sigma_{yy})^2 + (\sigma_{yy} - \sigma_{zz})^2 + (\sigma_{zz} - \sigma_{xx})^2}{2}}$$

Thus the amount, multiplicity and polarization of the exciton series splitting correspond to the calculated characteristics for the splitting of the transition  $\Gamma_7^+, \Gamma_8^+ (\Gamma_{25}^+) \rightarrow \Gamma_8^- (\Gamma_{12}^-)$ . There are 4 figures and 1 table.

Card 2/3

Deformation-induced splitting of the...

S/181/62/004/008/019/041  
B102/B104

ASSOCIATION: Fiziko-tehnicheskiy institut im. A. F. Ioffe AN SSSR  
Leningrad (Physicotechnical Institute imeni A. F. Ioffe  
AS USSR, Leningrad)

SUBMITTED: March 22, 1962

Card 3/3

S/181/63/005/001/047/064  
B108/B180

AUTHORS: Agekyan, V. T., Gross, Ye. F., Zakharchenya, B. P., and Kaplyanskiy, A. A.

TITLE: Piezomagneto-optical investigation of the quadrupole exciton transition in  $\text{Cu}_2\text{O}$  crystals

PERIODICAL: Fizika tverdogo tela, v. 5, no. 1, 1963, 315-319

TEXT: The effect of a magnetic field  $\vec{H}$  (30 koe) and a compression  $P$  perpendicular to  $\vec{H}$  upon the quadrupole exciton line  $n = 1$  (transition  $\Gamma_1^+ \rightarrow \Gamma_{25}^+$ ) in the  $\text{Cu}_2\text{O}$  spectrum, was studied on a  $\text{Cu}_2\text{O}$  single crystal compressed along the  $[001]$  axis. The spectrum was taken on a JPC-3 (DFS-3) spectrograph with linear dispersion 2 Å/mm. Observations were made in polarized light ( $\vec{E} \parallel P$  and  $\vec{E} \perp P$ ) perpendicularly to both  $\vec{H}$  and  $P$ . Without pressure, the  $n=1$  line ( $\lambda = 6125 \text{ Å}$ ) is split into a triplet with its central line (polarized  $\vec{E} \parallel \vec{H}$ ) in the position of the old line. The other two (polarized  $\vec{E} \perp \vec{H}$ ) have equal intensities and are symmetric about the central line. With rising pressure the central line shifts to longer wavelengths.  
Card 1/2

Piezomagneto-optical investigation ...

S/181/63/005/001/047/064  
B108/B180

waves, and the short-wave line to shorter waves with intensity increased at the expense of the long-wave line. Above  $2 \text{ kg/mm}^2$  the long-wave line vanishes, leaving the other two polarized with equal intensities. These results are in full agreement with results obtained by solving the secular equation for the splitting of the  $P_{25}^+$  level in the presence of an elastic deformation and a magnetic field (A. G. Zhilich. FTT, 3, 2041, 1961). There are 3 figures and 1 table.

ASSOCIATION: Fiziko-tehnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad (Physicotechnical Institute imeni A. F. Ioffe AS USSR, Leningrad); Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: August 14, 1962

Card 2/2

L 49031-65 EWT(1)  
ACCESSION NR: AP5006881

8/0181/65/007/003/0781/0787

AUTHOR: Agekyan, V. T.; Grossa, Ye. P.; Kaplyanskiy, A. A.

TITLE: Indirect excitons and phonon spectrum of <sup>21</sup>Cu<sub>2</sub>O

SOURCE: Fizika tverdogo tela, v. 7, no. 3, 1965, 781-787

TOPIC TAGS: cuprous oxide, phonon spectrum, indirect exciton, uniaxial compression, single crystal, absorption step, compression splitting

ABSTRACT: This is a continuation of earlier studies (PTT v. 2, 2968, 1960 and others) devoted to the influence of inelastic uniaxial compression deformation of

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L 49031-65

ACCESSION NR: AP5006881

was observed upon deformation. The properties of deformation splitting have made  
it possible to establish that the absorption in the star is due to indirect transi-  
tion with a  $\lambda = 560 \text{ cm}^{-1}$

IF POSSIBLE TO ESTABLISH  
tions to the principal 1s-exciton band of Cu<sub>2</sub>O producing phonons with  $E = 0.00$  cm<sup>-1</sup>  
and with symmetry  $\Gamma_{15}$ . Orig. art. has: 1 figure, 1 formula, and 2 tables.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad  
(Physicotechnical Institute AN SSSR)

SUBMITTED: 15Aug64

ENCL: 00

SUB CODE: OP, SS

HR REF SOV: 010

ORDER: 006

*bn*  
Card 2/2

AGEMIAN, V.

Rumanian marble overseas. Constr Buc 17 no.786:2  
30 Ja '65.



AGEMIAN, V.

On the activity of the Madgidia Cement Plant. Constr Buc  
16 no.73781 22 F'64.

AGEMIAN, V.

On the activity of the Enterprise for Special Constructions  
and Assembling. Constr Buc 14 no. 67684 22 D'62.

AGEMIAN, V.

A reversible crane. Corrir Bac 16 no. 770: 1 10 0 54

With a camera at the L.S.M.C. - Palas. Ibid. 2

AGENKOVA, V.M.

Effect of prolonged sleep on the course of chorea. *Pediatrria*, Moskva  
no.4:23-28 July-Aug 1953. (CIML 25:1)

1. Departmental Physician. 2. Of the Institute of Pediatrics (Director  
-- Prof. M. N. Kazantseva) of the Academy of Medical Sciences USSR.

AGENOROV, V. K.

(Vladimir Konstantinovich)

"On the Chief Water Masses in the Hydrosphere-On the Surfaces and Zones Separating Them," Iz. Ak Nauk SSSR, Ser. Geograf. i Geofiz., No.1-6, 1944

AGEBOROV, VR.  
O dinamike vod Barentsova moria. Loshva,  
Gidrometeorizdat, 1946: 130 p.  
DLC: Unclass.

CO: LC Soviet Geography Part 1 1951, Uncl.

AGERONOV, V. K.

"Thalattology (Sea Lore) in Finland," No 2, pp 67-70.  
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

AGENOROV, V. K.

USSR/Oceanography - Literature

Jan/Feb 48

"A Symposium on Oceanography Devoted to the Memory of K. M. Deryugin (Edited by V. V. Timonov and P. V. Ushakov)," V. K. Agenorov

"Meteorol i Gidrol" No 1, p 121

Symposium describes Deryugin's scientific, organizational, and expeditionary activity and procedural problems in organization of stationary oceanographic studies. Includes articles on (1) characteristics of wave active in oceans and seas and (2) theoretical operating principles of Raushel'bakh open sea tide gauge. Submitted 25 Jul 47

167T101



AGENROV, A.A., doktor fiz.-matem.nauk, otv.red.; AGENROV, V.K., kand.-  
geograf.nauk, otv.red.; BERKGAUT, V.G., red.izd-va; LAUT, V.G.,  
tekhn.red.

[Results of hydrographic observations conducted in the northern  
part of the Atlantic Ocean on the research ship "Mikhail  
Lomonosov" during 1957-1958] Rezul'taty gidrofizicheskikh  
nabliudeni v severnoi chasti Atlanticheskogo okeana na NIS  
"Mikhail Lomonosov" v 1957-1958 gg. Moskva, Izd-vo Akad. nauk  
SSSR, 1962. 526 p. (Akademiia nauk SSSR. Morskoi gidrofizicheskii  
institut. Trudy, vol.21). (MIRA 15:5)

(Hydrographic surveying)

AGENCROV, V.K.; MARTSINEVICH, L. P.

Seventh Atlantic expedition of the Marine Hydrophysical Institute.  
Trudy Mor. gidrofiz. inst. AN URSS 29:3-12 '64. (MIRA 17:7)

AGENOROV, V. K.

Diurnal variations of the radiation energy of the sun in an ocean layer in connection with its optical density. Trudy Mor. gidrofiz. inst. AN URSR 29:76-83 '64. (MIRA 17:7)

ACCESSION NR: AR4015139

S/0124/63/000/012/V018/V018

SOURCE: RZh. Mekhanika, Abs. 12V132

AUTHOR: Agenesov, L.G.

TITLE: On free oscillations of conical shells

CITED SOURCE: Sb. Nelineyn. teoriya plastin i obolochek. Kazan', Kazansk. un-t, 1962, 10-115

TOPIC TAGS: conical shell, conical shell elasticity, shell elasticity, Bubnov method

TRANSLATION: The problem of the oscillations of a round conical shell is first solved with the aid of the Bubnov method without consideration of inertial forces acting on the mid-surface. The shell edges are considered rigidly fixed. The problem is then solved by the virtual work method with consideration of all component inertial forces. The author includes a table which shows that the non-consideration of the circumferential component of the inertial force leads to a

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ACCESSION NR: AR4015139

considerable error with a small number of circumference waves  $n$ . With  $n > 3$  it is possible to consider only the normal inertial forces. I.I. Trapezin.

DATE ACQ: 31Dec63

SUB CODE: MM

ENCL: 00

Card 2/2

L 10434-67 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k) IJP(a) EM/WJ  
ACC NR: AT6032966 SOURCE CODE: UR/3228/64/000/002/0111/0126

AUTHOR: Agenosov, I. G.; Sachenkov, A. V. 25

ORG: none

TITLE: Stability and free vibrations of the cylindrical and conical shells of a circular cross section under various boundary conditions 26 26 26

SOURCE: Kazan. Universitet. Issledovaniya po teorii plastin, i obolochek, no. 2, 1964, 111-126

TOPIC TAGS: free oscillation, orthotropic shell, shell structure stability, cylindrical shell structure, conic shell structure

ABSTRACT: After a survey of numerous papers by other authors dealing with the stability and free vibrations of thin isotropic supported cylindrical and conical shells under various boundary conditions, the present authors come to the conclusion that the formulas so far suggested for the determination of the frequencies of vibrations of the conical shells are cumbersome, and that their applicability range is not well defined. The present paper investigates the stability and small extra-axial free vibrations of structurally orthotropic cylindrical and conical shells under the action of axial compression and external pressure under various boundary conditions: six types of clamping for the cylindrical and three types for conical shells. The

Card 1/2

ACC NR: AT6032966

inertial forces in the normal and circular directions are taken into account, and the effect of the boundary conditions on the lowest frequency of the free vibrations of the shell is studied. The results of the calculations agree within the calculation errors, with the results of other authors. Orig. art. has: 1 figure, 4 tables and 46 equations.

SUB CODE: 13/ SUBM DATE: --Jan63/ ORIG REF: 006

Card 2/2 *577*

SOURCE CODE: UR/0124/66/000/004/V020/V020

SOURCE: the application of the K. Z. Galimov method to problems of shell dynamics  
Ref. zh. Mekhanika, Abs. 4V152

REF SOURCE: Sb. Issled. po teorii plastin i obolochek No. 3. Kazan', Kazansk.  
un-t, 1965, 189-195

TOPIC TAGS: shell structure dynamics, cylindric shell structure, circular shell  
structure

ABSTRACT: The frequencies of the natural vibrations of a circular cylindrical shell  
exposed to a uniform transverse pressure are determined (only the normal forces of  
inertia are taken into account). Three stress functions identically satisfying the  
equations of equilibrium of sloping shells are introduced. Three variants of the  
boundary conditions are examined: free supporting, rigid imbedding, and sliding re-  
straint. The tangential geometric conditions are formulated in forces. [Translation  
of abstract] K. F. Chernykh

SUB CODE: 20

Card 1/1



AGENT, R.

Economic determination of dimensions for sections of parts from reinforced concrete subjected to flexion. p. 114.  
(INDUSTRIA CONSTRUCTIILOR SI A MATERIALEOR DE CONSTRUCTII. RUMANIA. Vol. 7, no. 2, Feb. 1956.)

SO: Monthly List of East European Accessions (EEA1) LC, Vol. 6, no. 7, July 1957. Uncl.

AGENT, R.

Application of the Cross method for the calculation of thin cylindrical prismatic plates according to the Vlasov theory, p. 65.  
(Industria Comstructiilor si a Materialelor De Constructii, No 12, 1957, Bucuresti, Rumania)

SO: Monthly List of East European Accessions (MEAL) Lc. Vol.6, No, 8, Aug 1957. Uncl.

AGENT, R.; CALAFATIS, D.; MADUTA, Z.

Trusses from large steel-concrete panels for tile roofing. p. 323.  
(INDUSTRIA CONSTRUCTILOR SI A MATERIAELOR DE CONSTRUCTII. NO. 6, 1957, Rumania)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 2, No. 12, Dec. 1957  
Uncl.

AGENT, R

AGENT, R.

Development of calculation methods by successive approximations in construction mechanics.

P. 60 (DOCUMENTARE TEHNICA) (Newest, Rumania) No. 10, 1957

30; Monthly Index of East European Accessions (MIAT) 10 Vol. 7, No. 5, 1958

AGENT, R.

A calculating method for continuous girders and frames on elastic supports. p.449.

REVISTA CONSTRUCTIILOR SI A MATERIALILOR DE CO-STRUCTII. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania si Ministerul Constructiilor si al Materialelor de Constructii) Bucuresti, Rumania Vol. 11, no.9, Sept.1959.

Monthly list of Eastern European Accession Index (FEAT) IC vol. 8, No. 11 November 1959  
Uncl.

AGENT, R., ing.

Theoretical bases and applications of distortion utilization in  
the frame in tiers calculation. Rev constr si mat constr 15 no.10:  
506-518 0. '63.

PISLARASU, C., ing.; AGENT, V., arh.; MACRI, R., arh.; MARCOVICI, A.,  
ing.; BARBAIANI, M., ing.; NEACSU, I., ing.; APROZEANU, V.,  
ing.

Construction of apartment houses with many stories achieved  
by gliding shuttering in Bucharest. Rev constr si mat constr  
15 no. 12: 610-617 D '63.

AGENTOV, V.B.

Remarks on A.V.II'in and G.A.Kudriavtsev's report in the article  
"Pre-Cambrian of Tuva." Sov.geol.5 no.2:156-157 F '62. (MIRA 15:2)

1. Vsesoyuznyy aerogeologicheskiy trest.  
(Tuva Autonomous Province--Geology)  
(II'in,A.V.)(Kudriavtsev,G.A.)



KUDRYAVTSEV, G.A.; AGENTOV, V.B.

Pyrite-complex metal mineralization in eastern Tuva. Trudy  
SNIGGIMS no.6:80-92 '61. (MIRA 15:7)  
(Tuva A.S.S.R.--Pyrites)

AGENTOV, V.B.

Lower Cambrian effusive volcanism in eastern Tuva and pyritic  
mineralization associated with it. Biul. MOIP. Otd.geol. 37 no.4:  
135-136 JI-Ag '62. (MIRA 16:5)  
(Tuva A.S.S.R.--Pyrites) (Tuva A.S.S.R.--Rocks, Igneous)

BERMAN, B.I.; AGENTOV, V.B.

Geochemical relations of the pyrite-complex metal mineralization  
of eastern Tuva to Lower Cambrian volcanism. Geokhimiia no.3:314-  
324. Mr '65. (MIRA 18:7)

1. Geologo-razvedochnyy institut im. S.Ordzhonikidze, Moskva.

AGENTOV, V.B.; KUDRYAVTSEV, G.A.

Genetic relation of the pyrite-complex metal mineralization of  
eastern Tuva to the Lower Cambrian spilite-keratophyre formation.  
Trudy SNIIGGIMS no.35:124-133 '64. (MIRA 18:5)

ZNAMENSKIY, V.A.; LEBEDEV, N.F.; AGEROV, D.L.

Accelerated identification of the plague microbe using fluorescent  
antibodies. Trudy VladIEMG no.2:191-198 '62. (MIRA 18:3)

AGESHIN, F.S.

Device for studying the polarization of light. Izv.vys.ucheb.  
zav.; fiz. no.3:187-188 '63. (MIRA 16:12)

1. Moskovskiy elektrotekhnicheskiy institut svyazi.

REF ID: A66117  
ACD/a)-5/SSD/AFETR/APTC(p)/RAEM(a)/  
ACCESSION NR: AP5001370

AUTHOR: Yerkovich, S. P., Pisarevskiy, Yu. V.; Ageshin, F. S.; Tregubov, G. A.

TITLE: Effect of fog on the range of an optical carrier land communication

SOURCE: Elektrosvyaz', no. 12, 1964, 16-21

TOPIC TAGS: optical communication, laser, optical carrier

ABSTRACT: The range of a laser communication channel in outer space is determined; allowing for the radiation noise due to solar and heat rays (with their maxima at 0.5 and 10 microns), and assuming conventional practical values of the transmitter power, receiver antenna, etc., the range is found to be  $1.8 \times 10^7$  km. Atmospheric attenuation is due to the absorption of light by gases and the diffusion of light by suspended particles of water (haze, fog, drizzle, etc.). Fog droplets occur in 1.5-2.5-micron (valley) up to 7-9-micron (mountain) sizes. Formulae

Card 1/2

I. 20719-65

ACCESSION NR: AP5001370

connecting the fog diffusion factor, droplet size, and wavelength are presented; the wavelength has a decisive effect on the maximum possible range under fog conditions. Orig. art. has: 3 figures and 16 formulas.

ASSOCIATION: none

SUBMITTED: 28Feb64

ENCL: 00

SUB CODE: EC

NO REF SOV: 004

OTHER: 002

Card 2/2



L 56480-65 EEO-2/EWT(a)/EKC-1/EEC(b)-2/EEB-2 Pm-4/Pac-4

ACCESSION NR: AP5015818

UR/0109/65/010/006/1146/1146

621.378.1 621.376

AUTHOR: Yerkovich, S. P.; Pisarskiy, Yu. V.; Ageshin, F. S.;

Tregubov, G. A.; Shaldin, Yu. V.

23  
8

TITLE: Optical shf modulator

SOURCE: Radiotekhnika i elektronika, v. 10, no. 6, 1965, 1146

TOPIC TAGS: optical modulator *6*

ABSTRACT: An experiment with modulation of light at 980 Mc is very briefly reported. The Pockels effect in single crystals of ammonium dihydrogen phosphate (ADP) and potassium dihydrogen phosphate (KDP) was used (B. H. Billings, J. Opt. Soc. Am., 1949, 39, 797). The modulation factor with the ADP crystal was 7.5% (output power: 2.5 w) without a constant component. This was equivalent to a modulation with a quarter-wave plate and a half-wave plate. The modulator length was 4 M. The authors wish to thank the Ministry of Defense for the use of the facilities of the Institute of Optics, Academy of Sciences of the USSR.

Card 1/2

L 56480-65

ACCESSION NR: AP5015818

ASSOCIATION: Moskovskiy elektrotekhnicheskiy institut svyazi (Moscow

Central Engineering Institute for Telecommunications

SUBMITTED: 16Oct63

ENCL: 00

SUB CODE: EC, 55

NO REF SOV: 000

OTHER: 001

ADD PRESS: 4035

Card 2/2

ACCESSION NR: AP4042979

S/0051/64/017/001/0030/0034

AUTHORS: Yerkovich, S. P.; Pisarevskiy, Yu. V.; Ageshin, F. S.

TITLE: Concerning a procedure for determining oscillator strengths for electronic transitions in molecules

SOURCE: Optika i spektroskopiya, v. 17, no. 1, 1964, 30-34

TOPIC TAGS: oscillator strength, level transition, molecular spectrum, level transition, diatomic molecule

ABSTRACT: It is pointed out that the method proposed by the authors (Opt. i spektr. v. 6, 297, 1959; v. 8, 303, 1960; v. 9, 269, 1960) for determining the electron-transition probabilities in diatomic molecules from the absorption coefficients obtained with a spectrograph having a transmission-band integral that encompasses many rotational lines involves certain difficulties connected with an exact account of the intensity distribution in the rotational struc-

1/2

ACCESSION NR: AP4042979

ture of the band. To this end, the  $\delta(0,0)$  band of the NO molecule is used as an example to demonstrate that the Honl and London factors (H. Honl and F. London, Zs. Phys. v. 33, 803, 1925), calculated by the method of E. Hill and J. H. Van Vleck (Phys. Rev. v. 32, 250, 1928), yield intensity distributions in the band that are in good agreement with experiment. This makes it possible to use the intensity formulas obtained with the aid of the wave functions for a symmetrical top, which in the case of the NO molecule agree with the experimental values. The calculated intensity factors are compared with experiment by using the data of F. F. Marmo (J. Opt. Soc. Amer. v. 43, 1186, 1953) and found to be in good agreement. Orig. art. has: 21 formulas and 1 figure.

ASSOCIATION: None

SUBMITTED: 09Oct63

SUB CODE: OP

NR REF SOV: 003

ENCL: 00

OTHER: 008

2/2

L 2818-66 EWT(1)/T IJP(c)

ACCESSION NR: AP5016170

UR/0051/65/013/006/0979/0983  
539.194.001.1

AUTHOR: Yerlovich, S. P.; Ageshin, F. S.

TITLE: Oscillator strengths for the  $\alpha$ ,  $\gamma$ , and  $\beta$  systems of the NO bands

SOURCE: Optika i spektroskopiya, v. 18, no. 6, 1965, 979-983

TOPIC TAGS: nitrogen oxide, optic spectrum, oscillator strength

ABSTRACT: The oscillator strengths calculated by a procedure developed by the authors (Opt. i spektr. v. 9, 269, 1960 and earlier papers) are reviewed more thoroughly, as a result of a more rigorous analysis which has shown that the oscillator strength for the  $\gamma$  system of bands should be taken to be much lower. The new calculations were made with the experimental results published by F. F. Marno (J. Opt. Soc. Am. v. 43, 1186, 1953) and J. Mayence (Ann. Phys. v. 7, 453, 1952). Values  $f_e = 0.0059$  and  $f_e = 0.0058$  are obtained for the oscillator strengths in the wavelength regions corresponding to the bands  $\delta(0, 0)$ ,  $\gamma(2, 0)$ , and  $\beta(5, 0)$ . The value obtained for the first band is 0.097. Orig. art. has: 27 formulas.

ASSOCIATION: none

SUBMITTED: 19Dec63

ENCL: 00

SUB CODE: OP

NR REF SOV: 004

OTHER: 010

Ccd 1/1

I 38462-66 EEC(k)-2/EWT(1)

ACC NR: AR6017254

SOURCE CODE: UR/0058/65/000/012/D071/D072

AUTHOR: Yerkovich, S. P.; Pisarevskiy, Yu. V.; Tregubov, G. A.; Ageshin, F. S.

TITLE: Optimal orientation of cubic crystals for light modulation based on the Pockels effect

SOURCE: Ref. zh. Fizika, Abs. 12D599

REF SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, vyp. 23, 1964, 103-105

TOPIC TAGS: crystal orientation, cubic crystal, electrooptic effect, light modulation, ~~Pockels effect~~

ABSTRACT: It has been shown that in electrooptical crystals of the cubic system the maximum transverse electrooptical effect takes place during crystal orientation when the vector E is perpendicular to the plane [110] and the direction of the light beam is correspondingly perpendicular to the plane [110]. [Translation of abstract] [AM]

SUB CODE: 20/ SUBM DATE: none/

Card 1/1 pb

11-97 1-11-1111 1-1111

600 - Rm

Rm

4727  
 INVESTIGATION OF ORIGIN OF COSMIC RAY COMPONENTS IN THE STRATOSPHERE AT GEOMAGNETIC LATITUDE 51°N. P. N. Agoshin, A. N. Churakhch'yan, and T. N. Churakhch'yan (Lomonosov Moscow State University). Akad. Nauk S.S.R. Ser. Fiz. 70, 533-60 (1968) 8-p. Oct. (in Russian)

The available data for  $\pi^+$  and  $\pi^-$  meson spectra generation in the stratosphere and their decay scheme make it possible to calculate the electron-photon component transmission through the atmosphere and to determine the electron energy spectra at various elevations. Experimental study to determine the relation of the number of soft component particles to the elevation, in transmission interval, of 0.4 to 0.9, 1.2 to 2.0, 2.0 to 6.6, or 6.6 to 11.3 g cm<sup>-2</sup> glass or aluminum, was made with the counter telescope at 51°N latitude. The measurements of the particle numbers in the indicated intervals were made simultaneously with four telescopes in a single exposure of the equipment in the stratosphere. Two series of measurements gave results which coincided within the limits of statistical error. The presence of a large number of low-energy electrons at shallow depth, the continuous softening of electron transmission spectra with reducing depths, and the great effect of latitudes on low-energy electrons call for new assumptions about the existence of a special mechanism for generating electron-photon components of low energies in the stratosphere. (U.S.)

Rm

**"APPROVED FOR RELEASE: 06/05/2000**

**CIA-RDP86-00513R000100510018-5**

**APPROVED FOR RELEASE: 06/05/2000**

**CIA-RDP86-00513R000100510018-5"**



**"APPROVED FOR RELEASE: 06/05/2000**

**CIA-RDP86-00513R000100510018-5**



**APPROVED FOR RELEASE: 06/05/2000**

**CIA-RDP86-00513R000100510018-5"**

AGESHIN, P.N.; CHARAKHCH'YAN, A.N.; CHARAKHCH'YAN, T.N.

Narrow air showers in the stratosphere. *Izv. AN SSSR Ser. fiz.* 19  
no. 5:537-540 S-O '55. (MIRA 9:4)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova i  
Fizicheskiy institut imeni P.N. Lebedeva Akademii nauk SSSR.  
(Cosmic rays) (Nuclear physics)

*AGESHIN, P. Ch.*

USSR/Nuclear Physics - Cosmic Rays

C-7

Abs Jour : Ref Zhur - Fizika, No 1, 1958, 576

Author : Ageshin, P.Ch., Charakhch'yan, I.N.

Inst : -

Title : Study of  $\mu$  Mesons of Cosmic Rays in the Stratosphere.

Orig Pub : Vestn. Mosk. un-ta. Ser. matem., mekhan., astron., fiz.,  
khimi, 1956, No 2, 77-88

Abstract : Using a counter telescope at the geomagnetic latitudes  $51^{\circ}$  and  $31^{\circ}$  N, a measurement was made of the intensity of  $\mu$  mesons with kinetic energy  $< 6 \times 10^8$  ev up to altitudes of 25 km. Also measured was the altitude variation of the difference in the number of  $\mu$  mesons with energies  $> 6 \times 10^8$  ev, traveling vertically and at an angle of  $60^{\circ}$  to the vertical. These data were used to obtain the energy spectrum of generation of new mesons in the stratosphere. At  $31^{\circ}$  N, the spectrum of the generation of new mesons with total energy  $E > \gamma_{\mu} c^2$  is of the form  $C \epsilon^{-3.0} =$

Card 1/2

USSR/Nuclear Physics - Cosmic Rays

C-7

Abs Jour : Ref Zhur - Fizika, No 1, 1958, 576

$190/E^{2.6} \text{ min}^{-1} \text{ cm}^{-2} \text{ sterad}^{-1} (\mu\text{c}^2)^{-1}$ ; in this case, there are generated over the entire depth of the atmosphere 5.4 mesons  $\text{min}^{-1} \text{ cm}^{-2} \text{ sterad}^{-1}$  with  $E > 7 \mu\text{c}^2$ . At a latitude of  $51^\circ \text{ N}$ , the generation spectrum is of the form:

$C_1^{(5)} = 100/E^{2.3} \text{ min}^{-1} \text{ cm}^{-2} \text{ sterad}^{-1} (\mu\text{c}^2)^{-1}$  for  $1.9 < E < 7$ . Another spectrum obtained is

$C_2^{(5)} = 190/E^{2.6} \text{ min}^{-1} \text{ cm}^{-2} \text{ sterad}^{-1} (\mu\text{c}^2)^{-1}$  for  $E > 7$ ; in this case there are generated over the entire depth 7.4 new mesons  $\text{min}^{-1} \text{ cm}^{-2} \text{ sterad}^{-1}$  with  $E > 1.9 \mu\text{c}^2$ .

Card 2/2

179  
AGESHIN, P.N.; CHARAKHCH'YAN, T.N.

Studying cosmic ray  $\mu$ -mesons of the stratosphere. Vest. Mosk. un.  
Ser. mat. mekh., astron., fiz., khim. 11 no.2:77-88 '56. (MIRA 10:12)  
(Cosmic rays) (Atmosphere, Upper) (Mesons)

AGESHIN, P.N.; KOLOMEYETS, Ye.V.; CHARAHCCH'YAN, A.N.; CHARAHCCH'YAN, T.N.

Secular variation in cosmic ray intensity in the stratosphere  
during the period 1962-1964. Izv. AN SSSR.Ser.fiz. 29 no.10:1901-  
1902 0 '65. (MIRA 18:10)

ACC NR: AP6018935

SOURCE CODE: UR/0203/66/006/003/0617/0618

AUTHOR: Agashin, P. N.; Charakhch'yan, A. N.

53  
B

ORG: Physics Institute im. P. N. Lebedev, AN SSSR (Fizicheskiy institut AN SSSR)

TITLE: Stratospheric probe for measuring cosmic rays

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 3, 1966, 617-618

TOPIC TAGS: atmospheric probe, cosmic ray measurement, radiation counter

ABSTRACT: An improved version of the <sup>A</sup>RK-1<sup>10</sup> cosmic-ray probe is described. The original, which has been used successfully for several years, has been simplified to the schematic shown in Fig. 1. The changes are that the modulator (T<sub>1</sub>) requires one rather than the former two tubes; also, T<sub>1</sub> in the new design is normally cut off except during a recording pulse, which gives a saving in average anode drain. Except for these changes, the probe design is the same. The STS-6 Geiger

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UDC: 523.165 : 681.2

L 29923-66

ACC NR: AP6018935

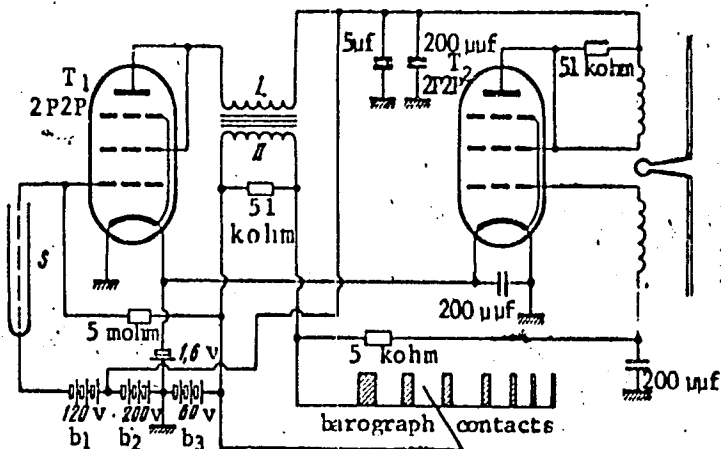


Fig. 1. Cosmic-ray counter

S - Geiger counter; T<sub>1</sub> - modulator; T<sub>2</sub> - transmitter.

counter is switched on at altitude intervals by the spaced barograph contacts, and operates for about 400-µsec intervals. Counter electrode voltage is 380 ±2v, transmission frequency is 70 mc, and total probe weight is about 1.7 kg. Orig. art. has: 1 figure. [SH]

SUB CODE: 04 SUBM DATE: 14Aug65/ ORIG REF: 001/ ATD PRESS: 5011

Card 2/2 *nc*



AGER, G.

Wellington technique and powder metallurgy. p. 1-10.

VIENAMSKY SPOBNIK Vol. 7, no. 2, 1955

Orskho-levakia

Source: EAST EUROPEAN LISTS Vol. 9, no. 7 July 1956

AGEVNIN, A. (g.Gor'kiy)

Indispensable and surplus labor under socialism. Vop. ekon.  
no.7:72-79 JI '61. (MIRA 14:7)  
(Labor supply)

AGEVNIN, R.M.

The PGSh articulated pneumatic loader. Biul.tekh.-ekon.inform.  
no.9:16-18 '61. (MIRA 14:9)  
(Mining machinery)

AGEYCHENKO, M.D.; GUL'KEVICH, Yu.V. (Minsk)

Listeriosis in newborn infants. Arkh.pat. no.1:17-23 '62.

(MIRA 15:1)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. Yu.V. Gul'kevich) Minskogo meditsinskogo instituta (dir. - dotsent A.A. Klyucharev).

(INFANTS (NEWBORN)—DISEASES) (MONONUCLEOSIS)

AGEYCHENKO, V.Ye.

Morphological changes in the medulla oblongata and in the cerebellum in primary tuberculosis. Arkh. pat., Moskva 15 no.2:60-65 Mar-Apr 1953.  
(GIML 24:3)

1. Of the Department of Pathological Anatomy (Head -- Prof. F. Ye. Ageychenko) of Kishinev Medical Institute.

AGEYCHENKOV, L.A.

Pharmacology of quinine and sodium salicylate. Tr. Vsesoiuz. obsh.  
fisiol. no. 1:121 1952. (GML 24:1)

1. Delivered 14 June 1949, Smolensk.

KNOROZ, Vladimir Ivanovich; AGEYKIN, Ya.S., nauchn. red.

[R and RS-type motor-vehicle tires] Avtomobil'nye shiny  
tipa R i RS. Moskva, Transport, 1964. 41 p.  
(MIRA 17:9)

AGEYMNKO, A. (Khabarovsk)

Adnate birches. Priroda 52 no.8:112 Ag '63.  
(No subject headings)

(MIRA 16:9)



AGEYENKO, A. I., Cand Med Sci -- (diss) "Heterotransplantation of malignant neoplasms." Moscow, 1957, 19 pp (Academy of Medical Sciences USSR) 200 copies (KL, 36-57, 107)

USSR/General Problems of Pathology - Immunity.

U-3

Abs Jour : Ref Zhur - Biol., No 16, 1958, 75467

Author : Ageyenko, A.I.

Inst :

Title : Heterotransplantation of Malignant Neoplasms.

Orig Pub : V. sb.: Vopr. Klinich. i eksperim. onkologii, vyp. 2,  
Stalingrad, 1957, 83-95.

Abstract : No abstract.

Card 1/1

- 8 -

USSR/General Problems of Pathology - Tumors. Immunity.

U.

Abs Jour : Ref Zhur - Biol., No 21, 1958, 98204

Author : Ageyenko, A.I.

Inst :

Title : On Heterotransplantation of the Chicken Sarcoma of Rous  
Into the Brain.

Orig Pub : Vopr. onkologii, 1957, 3, No 2, 169-174.

Abstract : Rous's sarcoma (RS) was implanted into the brain of 1-2  
month old mice and guinea pigs which weighed 150-180 gr.  
Observation lasted 35 days. The first symptoms of tumor  
growth in the brain appeared on the 7-10th day. By the  
10-15th day, the tumor filled half of a hemisphere and  
from the 20th day it started to degenerate and resorb.  
The diameter of heterotransplants was, on the average, 4-6  
mm, weight 90-130 mg. RS passed through 6 generations in  
the brain of mice and 3 generations in the brain of guinea

Card 1/2

- 29 -

AGREYENKO, A.I. (Moskva, Blagoveshchenskiy per., d.4/18, kv. 15)

Heterotransplantation of malignant human tumors to animals pretreated by cortisone [with summary in English]. Vop.onk. 3 no.6:666-672 '57.  
(MIRA 11:2)

1. Iz virusologicheskoy laboratorii (zav. + deystv. chlen AMN SSSR prof. L.A.Zil'ber) Gosudarstvennogo onkologicheskogo instituta im. P.A.Gertsena (dir. - prof. A.N.Novikov, nauchn. rukovd. - chlen-korrespondent AMN SSSR prof. A.I.Savitskiy)

(NEOPLASMS, exper.

heterotranspl. of human tumors to mice pretreated with cortisone)

(CORTISONE, eff. same)

AGEYENKO, A.I. (Moskva, Skaternyy per., d. 21, kv.4)

Production in rats of tolerance to human tumor tissue. Vop.onk. 5  
no.4:401-408 '59. (MIRA 12:12)

1. Gosudarstvennyy onkologicheskyy institut im. P.A. Gertsena (dir. -  
prof. A.N. Nevikov), virusologicheskaya laboratoriya (zav. - V.V.  
Gorodilova, nauchnyy konsul'tant - deystvitel'nyy chlen AMN SSSR prof.  
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(NEOPLASMS, immuni.

acquired tolerance in rats to human tumors (Rus))

AG-EYENIKO, A.I.

AGRENKO, A.I.

On the question of producing tolerance in rats to human tumour tissue. Neoplasma, Bratisl. 6 no.3:257-261 1959.

1. Herten's State Oncological Institute, Virological Laboratory  
Moscow USSR.

(NEOPLASMS, transpl.)

AGEYENKO, A. I. (USSR)

"Experimental study of virus etiology of leukaemia and human malignant tumours."

report submitted for the European Conference on Tumor Biology <sup>24</sup>(YICC),  
Warsaw, Poland  
22-27 May 1961

AGEYENKO, A. I. - State Herzen Oncological Institute 2, Botinsky proezd 3,  
Moskva

AGEYENKO, A.I.

Latency of tumorigenic viruses. Vop. onk. 6 no.3:84-95 Mr '60.  
(MIRA 14:2)

(VIRUSES)

(TUMORS)



AGEYENKO, Aleksandr Ivanovich

[Heterotransplantation of malignant tumors] Geterotransplantatsiia  
zlokachestvennykh opukholei. Moskva, Medgiz, 1961. 212 p.  
(MIRA 14:8)

(TRANSPLANTATION OF ORGANS, TISSUES, ETC.) (CANCER)

NOVIKOV, A.H., prof.; AGEYENKO, A.I., kand.med.nauk

Research on oncology in the institutes of the Ministry of Public  
Health of the R.S.F.S.R. (1958-1960). Biul. Uch. med. sov. 2 no.1:  
7-11 Ja-F '61. (MIRA 14:10)

(ONCOLOGY)

AGEYENKO, A.I.

Leukemias in rats produced by extracts of various human leukemic  
tissues. Vop.onk. 7 no.2:9-19 '61. (MIRA 14:5)  
(LEUKEMIA)

AGDENKO, A.I.

Leukaemias induced in rats by extracts from human leukaemic tissue. Neoplasma 8 no.2:131-143 '61.

1. Herten's State Oncological Institute, Virological Laboratory, Moscow, USSR.

(LEUKEMIA exper)

AGEENKO, A.I. [Ageyenko, A.I.]

Filtrable virus-like agent isolated from tumours induced by carcinogenic substances. Folia biol. no.1:7-11 '62.

1. Hertzen State Oncological Institute, Virological Laboratory,  
Moscow.

(NEOPLASMS virology)

AGBYENKO, A.I.

Leukemia-producing agent isolated from tissues of C57 Hl mice  
using ionizing radiations. Probl.gemat.i perel.krovi no.218-13  
'62. (MIRA 15:1)

1. Iz virusologicheskoy laboratorii (zav. - prof. V.V. Gorodilova)  
Gosudarstvennogo onkologicheskogo instituta imeni P.A. Gertsena  
(dir. - prof. A.N. Novikov).  
(RADIATION—PHYSIOLOGICAL EFFECTS) (CARCINOGENS)  
(LEUKEMIA) (VIRUSES)

AGEYENKO, A.I. (Moskva, ul. Gor'kogo, 48, kv.7)

Elastomogenic agent isolated from tumors induced by cancerogenic substances. Vop.onk. 8 no.8:58-62 '62. (MIRA 15:9)

1. Iz virusologicheskoy laboratorii (zav. - prof. V.V. Gorodilova)  
Gosudarstvennogo onkologicheskogo instituta im. P.A. Gertsena  
(dir. - prof. A.N. Novikov).  
(CARCINOGENS)

AGEENKO, A.I.

Malignant neoplasms induced in rats by extracts from human sarcomatous tissue. Folia biol. 9 no.1:20-26 '63.

1. Herten State Oncological Institute, Virological Laboratory,  
Moscow.

(SARCOMA) (SARCOMA, EXPERIMENTAL) (SARCOMA, RETICULUM CELL)  
(MYXOSARCOMA) (CHONDROSARCOMA) (ANGIOSARCOMA)  
(FIBROSARCOMA) (TISSUE EXTRACTS)



AGEENKO, A.I.

Biological and physico-chemical features of a blastogenic agent from human sarcomatous tissue. Folia biol. 9 no.1:27-33 '63.

1. Herten State Oncological Institute, Virological Laboratory,  
Moscow.

(SARCOMA, RETICULUM CELL) (LEIOMYOSARCOMA)  
(RHABDOMYOSARCOMA) (STOMACH NEOPLASMS) (OVARIAN NEOPLASMS)  
(SARCOMA, EXPERIMENTAL) (TUMOR VIRUSES)

AGEYENKO, A.I. (Moskva, ul. Gor'kogo, 48, kv.7)

Blastomogenic action of human sarcoma tissue extracts on  
rats. Vop. onk. 9 no.6:42-51 '63. (MIRA 17:8)

1. Iz virusologicheskoy laboratorii (zav. - prof. V.V. Gerodilova)  
Gosudarstvennogo onkologicheskogo instituta imeni P.A. Gertsena  
(dir. - prof. A.N. Novikov).

BASHKAYEV, I.S. (Moskva, V-415, ul. Lobachevskogo 36, kv.6); AGEYENKO,  
A.I. (Moskva, D-103, Novo-Khoroshevskoye shosse, kvartal 84-85,  
Körpus 22, kv.20)

Antigens of human sarcoma and sarcoma in rats appearing after  
the introduction of human sarcoma extracts. Vop. onk. 10  
no.7:61-65 '64. (MIRA 18:4)

1. Iz laboratorii virusologii (zav.- prof. V.V. Gorodilova)  
Gosudarstvennogo onkologicheskogo instituta imeni Gertsena  
(dir.-prof. A.N. Novikov), Moskva.

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Source: Knizhnaya letopis' No. 28 1956 Moscow

USSR/Forestry - Forest Economy.

J-3

Abs Jour : Referat Zhur - Biologiya, No 16, 25 Aug 1957, 69105

Author : Ageenko, A.S.

Inst :

Title : Forest Stock of Ural Educational-Experimental Forestry  
and Problems of Agricultural Organization.

Orig Pub : Sb. tr. po lesn. kh-vu Uralskiy lesotekhn. in-t, 1956,  
No 4, 43-50

Abstract : No abstract.

Card 1/1

- 28 -

AGEYENKO, A.S., kand.sel'skokhozyaystvennykh nauk

Caused by the wind. Priroda 49 no.8:107 Ag '60.

(MIRA 13:8)

1. Sakhalinskaya lesnaya opytnaya stantsiya Dal'nevostochnogo nauchno-issledovatel'skogo instituta lesnogo khozyaystva, g. Dolinsk.

(Sakhalin--Plants, Effect of wind on)

AGEYENKO, A.S., kand.sel'skokhozyaystvennykh nauk

Growth of the Dahurian larch in the basin of the Amgun' River.  
Amur sbor. no.2:329-336 '60. (MIRA 15:3)

1. Deystvitel'nyy chlen Geograficheskogo obshchestva SSSR.  
(Amgun' Valley--Larch)

AGEYENKO, A.S., kand.sel'skokhoz.nauk (Khabarovsk)

"Sitting" tree. Priroda 52 no.8:37 Ag '63.  
(No subject headings)

(MIRA 16:9)



"Case of Arterio-Venal Aneurism of the Renal Artery," *Vopr. Khir.*, No. 6, 1916

Faculty Surgical Clinic, Sogrd

AGEYENKO, I. A.

35507. Lecheniye ognestrel'nykh raneniy sosudov. Trudy sev. -oset. Gos.  
Med. In-ta, Vyp. 4, 1949, c. 18-22.

Letopis' Zhurnal'nykh Statey, Vol. 48, Moskva, 1949

31008. AGHEYENKO, I. A.

Modifikatsiya operatsii tirsha pri vypadenii pryamoy kishki. Vestnik  
khirurgii im. Grekova, 1949, No. 4, s 27-30

AGEYENKO, I. A.

35506. Lecheniye ogniestrel(nykh raneniy plecha. Trudy sev.-oset. Gos. Med. In-ta, VYP. 4, 1949, c. 29-32.

Letopis' Zhurnal'nykh Statey, Vol. 48, Moskva, 1949

AGEYENKO, I. A.

35508. Modifikatsiya operatsii trisha pri vypadenii pryary kishki.  
Trudy sev.-oset. Gos. Med. In-ta, VYP. 4, 1949, c. 46-51.

Letopis' Zhurnal'nykh Statey, Vol. 48, Moskva, 1949

AGHEYENKO, I.A., professor.

Modification of gastric resection. Khirurgiia no.10:59-62 0 '53.  
(MLRA 6:11)

1. Iz fakul'tetskoy khirurgicheskoy kliniki Severo-Osetinskogo meditsinskogo  
instituta. (Stomach--Surgery)

*I. Ageyenko, A.*

USSR/Human and Animal Physiology - Liver.

V-8

Abs Jour : Ref Zhur - Biol., No 1, 1958, 4140

Author : I. Ageyenko, A. Baskayeva

Inst : -

Title : Influence of Ulcerative Disease of the Stomach on the Hepatic Function.

Orig Pub : In: Klinika i lecheniye zabolevaniy zheludka. Ordzhonikidze, 1956, 106-111

Abstract : The hepatic function was studied in 150 patients with an ulcer of the stomach or of the duodenum (Florence's test, hyperglycaemic curves, Kvik-Pytel' test). In 36 patients only the results of the 3 tests were abnormal; the results of 2 tests were abnormal in 62 patients, and the results of one test were abnormal in the other patients. Liver disorders were not always observed in patients with peptic ulcers. Some functional disorders were reversible when rational therapy was applied.

Card 1/1

Агеев К. С.  
AGEEV K. S., professor

Answer to the letter by N. A. Yezhova and I. A. Gritsman. Vest.  
zhic. 78 no. 10 1978 Ap 1978. (MLBA 10 9)  
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KRASOVITOV, Vladimir Konstantinovich, prof.; AGEYENKO, I.A., red.;  
YEVFUSHENKO, M., tekhn.red.

[Late results of gunshot wounds of the hip joint] Otdalennye  
rezul'taty ognestrel'nykh povrezhdenii tazobedrennogo sustava.  
Maikop, Adygeiskoe knizhnoe izd-vo, 1958. 196 p. (MIRA 13:1)  
(HIP JOINT--WOUNDS AND INJURIES)

AGEYENKO, I.A.

Excision of the lower extremity with half of the pelvis.  
Khirurgiia no.9:85-89 '61. (MIRA 15:5)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. I.A.  
Ageyenko) Kubanskogo meditsinskogo instituta.  
(AMPUTATION) (PELVIS.-SURGERY)

AGEYENKO, I.A.; GRIGORYAN, R.M.

Late results of surgery in stomach cancer. Sov. med. 25 no.8:  
104-107 Ag '61. (MIRA 15:1)

1. Iz 1-y Gorodskoy klinicheskoy bol'nitsy Krasnodara (glavnyy vrach P.F.Atyaskin) i kafedry fakul'tetskoy khirurgii Kubanskogo meditsinskogo instituta (zav. - prof. I.A.Ageyenko).  
(STOMACH\_CANCER)

AGEYENKO, I.A., prof.

Resection of the rectum with preservation of the external  
sphincter. Vest.khir.No.1:63-68'63. (MIRA 16:7)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav.prof. I.A.  
Ageyenko) Kubanskogo meditsinskogo instituta (rektor. -prof.  
V.K.Suprunov).

(RECTUM--CANCER) (SPHINCTER ANI)  
(RECTUM--SURGERY)