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CIA-RDP86-00513R000100510017-6

MNDZHOYAN, A.L., akademik; TATEVOSYAN, G.T.; AGBALYAN, S.G.

Research in the field of derivatives of substituted acetic acids. Report No.14. Dokl. AN Arm. SSR 27 no.2:93-99 '58. (MIRA 11:10)

1.Institut tonkey organicheskoy khimii AN Armyanskoy SSR. 2.AN Armyanskey SSR (for Mndzhoyan). (Acetic acid)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100510017-6

MNDZHOYAN, A.L.; TATEVOSYAN, G.T., akademik; AGBALYAN, S.G.; BOSTANDZHYAN, R.Kh.

Research in the field of substituted acetic acid derivatives. Report No. 15: $\beta_{1}\beta_{2}$ -dimethyl- γ -dialkylaminopropyl and tetraalkyldiaminoisopropyl esters of dialkylphenylacetic acids. Dokl. AN Arm. SSR 27 no.3:179-185 '58. (MIRA 11:12)

1.Institut tonkoy organicheskoy khimii AN Armyanskoy SSR. (Acetic acid)

APPROVED FOR RELEASE: 06/05/2000



MNDZHOYAN, A.L., akademik; AFRIKYAN, V.G.; TATEVOSYAN, G.T.; AGRAIXAN, S.G.; GRIGOHYAN, M.T.; DIVANYAN, N.M.; BADALYAN, V.Ye.; MARKAHYAN, B.A.

Investigation in the field of furan derivatives. Report No.21. Dok1.AN Arm.SSR.27 no.5:305-314 '58. (MIRA 12:5)

1. Institut tonkoy organicheskoy khimii AN ArmSSR. 2. AN ArmSSR (for Mndzhoyan). (Furan)

APPROVED FOR RELEASE: 06/05/2000



MNDZHOYAN, A.L., akademik; TATEVOSYAN, G.T.; AOBALYAN, S.G.; BOSTANDEHYAN, R.Kh.
Study of derivatives of substituted acetic acids. Report No.15: Amino esters of diphenylalkylacetic acids. Dokl.AN Arm.SSR 28 no.1111-26 '59. (MIRA 12:7)
1; Institut tonkoy organicheskoy khimii AN Arm.SSR. 2, AN Arm.SSR (for Whdshoyan). (Acetic acid)

APPROVED FOR RELEASE: 06/05/2000

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MNDZHOYAN, A.L., akademik; TATEVOSYAN, G.T.; AGRALYAN, S.G.; BOSTANDZHYAN, R.Kh.

> Research in the field of amino ethers. Report No.2: Synthesis of β -dialkylaminoethyl ethers of β , β , β -trisubstituted ethyl alcohols. Dokl AN Arm. SSR 29 no.4:187-192 '59. (MIRA 13:4)

1. Institut tonkoy organicheskoy khimii AN ArmSSR. 2. AN ArmSSR (for Mndshoyan). (Ethanol) (Amines)

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APPROVED FOR RELEASE: 06/05/2000



MEDZEDTAH, A.L.; <u>ADBAIYAN, S.G.</u> Syntheses based on harmine and tetrahydroharmine. Report No.1: Oxidation of harmine by selentous aphydride. INV. AN Arm. SSB Khim. nauki IJ mo.2/31207-210 '60. (MIRA 13:10) 1. Institut tonkoy organicheskoykhimii AN ArmSSE. (Barmine) (Selenium oxide)

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AGBALYAN, S.C.

Reaction of decyanethylation in the series of 1,2,3,4-tetrahydro β -carbolines. Izv.AN Arm.SSR. Khim.nauki 14 no.3:277-282 *61. (MIRA 14:9)

1. Institut organicheskoy khimii AN Armyanskoy SSR. (Pyridoindol)

APPROVED FOR RELEASE: 06/05/2000



AGBALYAN, S.G.; NSHANYAN, A.O.; NERSESYAN, L.A.

Using nitrilium salts in the synthesis of unsaturated compounds of the 3,4-dihydroisoquinoline. Izv.AN Arm. SSR. Khim.nauki 15 no.4:399-403 '62. (MIRA 15:11)

1. Institut organiche**sko**y khimii AN Armyanskoy SSR. (Isoquinoline) (Nitrilium compounds)

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APPROVED FOR RELEASE: 06/05/2000



APPROVED FOR RELEASE: 06/05/2000

83620 s/022/60/013/004/004/004 9.3150 { 11-90 c111/c222 AUTHORS: Rezikyan, A.M., Agbalyan, Yu.G., and Madatyan, K.A. TITLE: Gas-Discharge Stabilizer PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR. Seriya fizikomatematicheskikh nauk, 1960, Vol.13, No.4, pp.65-68. TEXT: The direct-current stabilizer described in (ref.1) consists of a gas-discharge tube being within a solenoid which is series-connected with the discharge interval. The axis of the tube is parallel to the magnetic lines of force. In the discharge interval the anode-cathode charges move on spirals, i.e. they have a tangential component of velocity. Under the influence of them the gas begins to rotate in the tube. For an increase of the discharge current, the magnetic field increases, the trajectory of the charge strains in, the length of the spirals and therewith the resistance of the interval become greater, the current decreases. In the present paper the authors report on the measurement of the stabilizing coefficient. It is stated that it depends on the magnetic field and that it reaches a maximum for a certain field intensity. The coefficient is smaller than 3. The measurements confirm (in spite of Card 1/2

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(Gas-Discharge Stabilizer
	some deviations) the theory developed in (Ref.1). The velocity of rotation of the gas in the tube and its Reynolds number were not determined. Hydrogen and argon were used as gases; here the results differed only by the fact that in the case of hydrogen the stabilization began for a somewhat greater voltage. There are 3 figures, 1 table and 2 references: 1 1 Soviet and 1 English.
	ASSOCIATION: Institut fiziki AN Armyanskoy SSR (Institute of Physics of the Academy of Sciences Armyanskaya SSR)
	SUBMITTED: September 2, 1959
	Card 2/2

AKHMEDOVA, Sh.I., dotsent; AGDAMI, M.R., aspirant

Recent developments in the bacteriology of colibacillosis of calves and lambs. Veterinariia 40 no.2:70-73 F '63. (MIRA 17:2)

- Samarkandskiy sel'skokhozyaystvennyy institut (for Akhmedova).
 Azerbaydzhanskiy sel'skokhozyaystvennyy institut (for Agdami).

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	5 1190	24449 s/081/61/000/006/015/015 B101/B201	- The second			
	AUTHORS :	Zul'fugarov, Z. G., Zul'fugarova, L. Sh., Muradova, S. A., Shirinova, E. B., Agdamskiy, T. A., Aliyev, A. S.				
	TITLE :	Study of the activity of chromium aluminum magnesium silicute catalysts in the polymerization reaction of ethylene to polyethylene	· · · · · · · · · · · · · · · · · · ·			
	PERIODICAL:	Referativnyy zhurnal. Khimiya, no. 6, 1961, 711-712, abstract 6P87 (6R87) ("Azerb. khim. zh.", 1960, no. 2, 107-115)				
	silicate cata and of the of ticn into the tially to de the carriers	TEXT: A study has been made of new types of chromium aluminum magnesium silicate catalysts (Cat) in the polymerization of ethylene to polyethylene, and of the activity of Cat as dependent upon the method of their introduc- tion into the chromium oxide. The activity of Cat has been shown essen- tially to depend on the method of synthesis, the chemical composition of the carriers having no appreciable effect upon such activity. The optimum				
	ratio of Cr ^o concerned ha	⁴ and Cr ³⁺ oxides in the chromium metasilicate catalysts a been found to be 40-55:45-60; the maximum polymer yield per				
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ALC: NO. OF TAXABLE PARTY.	and the second		and a state of the state of the state			

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s/081/61/000/006/015/015 B101/B201 Study of the activity of chromium... g of Cat has been 92 and 114 g, respectively. No relationship has been observed between the catalytic activity of Cat and their thermograms, their porosity, specific pore volume, and apparent density. All the polymors obtained have been found to have a highly crystalline structure. The authors assumed the active part of chromium catalysts to consist of salts of chromous acid or acid salts of chromic acid. [Abstracter's note: Complete translation.] vard 2/2

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CIA-RDP86-00513R000100510017-6



APPROVED FOR RELEASE: 06/05/2000

ZUL'FUGAROVA, L.Sh.; MURADOVA, S.A.; SHIRINOVA, E.B.; AGDAMSKIY, T.A.; SMIRNOVA, V.Ye.; VEZIROVA, V.R.; ZUL'FUGAROV, Z.G.

> Effect of the conditions of polymerization and of the porcus structure on the activity of chromium-aluminum-magnesium silicate catalysts. Azerb.khim.zhur. no.5:87-90 '61. (MIRA 15:5)

(Polymerization) (Porosity) (Catalysts)

APPROVED FOR RELEASE: 06/05/2000

1

AGDAMSKIY, T.A.; AGAYEVA, S.G.; ZUL'FUGAROV, Z.G. Promoting capacity of the oxides of Sr, La, Mo, Ce, Ca, Gd added to the catalyst of dehydrogenation of n-butane to butylenes. Dokl. AN Azerb. SSR 20 no.7:21-24 '64. (MIRA 17:11) 1. Insti'ut khimii AN AzerSSR. Predstavleno akademikom AN AzerSSP. M.A. Dalinym.

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	È.	L 20891-66 EWI	r(d) IJP(c) BB/G	G C	•	
		ACC NR: AP6002			1/0286/65 /000/023/	
		AUTHORS: Mnats	akanov, R. B.; Lad	ariya, G. G.; Agdgor	elashvili, O. G.	- 28
		ORG: none		11.		B
				numbers, Class 42, 1		•
		SOURCE: Byulle	ten' izobreteniy i	tovarnykh znakov, no	. 23, 1965, 61	•
		TOPIC TAGS: bi	nary number, binary	logic	化雪季	
1		To speed the su	mming process, two	presents a method f words are formed: t d the conjunction of	or summing binary he sum of the abso the initial terms	s with a
		shift of one di	igit to the left. T	he like digits of th f the first type are	e resulting words bounded on the r:	lght by
		the combination	$h \stackrel{1}{=} and on the left$	by the first combine wee. The final resu	tion 0, and the re lt is obtained by	inverting
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AGDZHANOV, N. S.

Pregnancy, Complications of

Quantitative and qualitative studies on gonadotropins and estrogens in blood and in urine in pregnancy toxemias. Akush. i gin. No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

APPROVED FOR RELEASE: 06/05/2000

TOKTYBAYEV, A.; AGEDILOV, Zh.; SARINOV, A.

Working the flat part of the Dzhezdy Mine. Gor.zhur. no.8:25-26 Ag '62. (MIRA 15:8)

 Upravlyayushchiy Dzhezdinskogo margantsevogo rudoupravleniya (for Toktybayev). 2. Glavnyy 1nzh. shakhty No.5 i No.6-bis Dzhezdinskogo margantsevogo mestorozhdeniya (for Agedilov).
 Nachal'nik shakhty No.5 i No.6-bis Dzhezdinskogo margantsevogo mestorozhdeniya (for Sarinov). (Marganets region (Karaganda Province)--Manganese mines and mining)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100510017-6

BASHKAYEV, I.S.; AGEENKO, A.I. The antigenic structure of rat sarcomas induced by human sarcoma tissue extracts. Folia biol. 9 no.3:177-180 '63. 1. Hertzen State Institute of Oncology, Moscow. (SARCOMA, RETICULUM CELL) (TISSUE EXTRACTS) (SARCOMA, EXPERIMENTAL) (ANTIGENS)

BASHKAYEV, I.S.; AGEENKO, A.I.

Immunological homogeneity of induced sarcoma tumour tissue antigens. Folia biol. (Praha) 11 no.3:194-197 '65

1. Virology Laboratory, Hertzen State Oncology Institute, Moscow.

APPROVED FOR RELEASE: 06/05/2000

AGEKYAN, N.G.

Little-known entomophage Conwentzia psociformis Curt. (Neuroptera, Coniopterygidae) in the Georgian S.S.R. Ent. oboz. 44 no.1:84-88 '65. (MIRA 18:7)

1. Gruzinskaya biologicheskaya laboratoriya, Batumi, Gruzinskaya SSR.

APPROVED FOR RELEASE: 06/05/2000
AGEKYAN, N. M.

"Problems of Improving the Soundproofing of Residential Buildings in Leningrad," Min. Higher Education USSR, Leningrad Order of Labor Red Banner Civil Engineering Inst., Leningrad, 1955. (Dissertation for the Degree of Candidate of Technical Sciences)

SO: Knizhnava Letopis', No. 22, 1955, pp 93-105

APPROVED FOR RELEASE: 06/05/2000

30696. AGEKYAN, T. A.

Opredelenie funktsii plotnosti i koeffitsiyenta pogloshcheniya v ploskosti galaktiki. Uchen. Zapiski (Leningr. Gos. un-t. im. Zhdanova), Seriya matem. nauk, vyp. 18, 1949. S.93-110. -- Bibliogr: 7 nazv.

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Determination of the density function and the absorption coefficient in the plane of the Galaxy. Uch.sap.Len.un. no.116:93-(MLRA 10:3) 110 49. (Milky Way) (Stars--Distribution) (Absorption of light)

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AGBKYAN, T.A.

[Stellar universe] Zvezdnaia vselennaia. Leningrad, Izd-vo Leningradskogo gos. ordena Lenina universiteta imeni A.A.Zhdanova, 1952. 174 p. [Microfilm] (MLRA 7:10) (Cosmogony)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100510017-6"

USSR/Universities - Sessions

Feb 52

"Annual Scientific Session of Leningrad University in 1951," P. G. Makarov, T. A. Agekyan, G. Drukarev, N. Yanovskaya, G. V. Golodnikov, and S. M. Ariya

Vest Leningrad U, Ser Mat, Fiz, Khim, Vol 7, No 2, pp 184-190

The annual scientific session of Leningrad University took place 4-20 Feb 1952. The Math Section was subdivided into math, mechanics, and astronomy; the physics comprised also geophysics. The chemistry section dealt also with cooperation with industry.

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CIA-RDP86-00513R000100510017-6

AGEKYAN, T. A. Mar/Apr 52 "Coplanarity of Orbits of Trinary Stars," T.A. Agethis problem would show possible analogies between multiple stars possesses considerable significance 276170 multiple stars and the Solar system and would exorigin of binary and multiple stars. Proposes a pedite resolution of the argument concerning the 15 Concludes Problem concerning the coplanarity of orbits of set of trinary stars where the orbit has been trinary stars possesses partial method for detg the coplanarity of orbits of kyan, Astr Obs, Leningrad State U iment Zhdanov for the development of modern cosmogony. "Astron Zhur" Vol XXIX, No 2, pp 219-224 computed for a close pair of stars. Submitted 10 Jul 51. USSR/Astronomy - Coplanarity that a set of coplanarity.

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Subject : USSR/Astronomy Card 1/2 Pub. 8 - 11/12	<u></u>
Card 1/2 Pub. 8 - 11/12	YAN, T. A. AID P - 381
 Review of the book: "T. A. Agekyan. Star on 1954 Periodical : Astron. zhur., v. 31, 3, 299-301, My-Je 1954 Abstract : The book was published in 1952 by the Leningrad State University in 176 pages and 10,000 copies, and edited by University in 176 pages and 10,000 copies, and edited by Prof. A. N. Deych. The text contains: 1) the history Prof. A. N. Deych. The text contains: 2) the proper of the calculation of the number of stars; 2) the proper of the calculation, brightness, etc.; 4) the light and dark constitution, brightness, etc.; 5) the other galaxies; and diffused clouds and nebulae; 5) the other galaxies, Many tables, 	 USSR/Astronomy Pub. 8 - 11/12 Ikaunieks, Ya. Review of the book: "T. A. Agekyan. Star Universe" Astron. zhur., v. 31, 3, 299-301, My-Je 1954 The book was published in 1952 by the Leningrad State University in 176 pages and 10,000 copies, and edited by Prof. A. N. Deych. The text contains: 1) the history Prof. A. N. Deych. The text contains: 2) the proper of the calculation of the number of stars; 2) the proper motions of stars; 3) the great variety of stars in size, motion, brightness, etc.; 4) the light and dark constitution, brightness, etc.; 4) the light and dark
6) the evolution of the made of some definition given examples. Criticism is made of some incorrect statements. without explanation, and of some incorrect statements. It is further stated that the book is already out-of-date it is further stated that the book is already out-of-date in some parts. The results of the theory of relativity in some parts. The results of the theory poorly published are not introduced. The edition is very poorly published and a second edition is advised.	examples. Official, and of some incollected out-of-date without explanation, and of some incollected out-of-date It is further stated that the book is already out-of-date It is further stated that the book is already out-of-date in some parts. The results of the theory of relativity in some parts. The results of the theory of relativity

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' Astron. zhur., v. 31, 3, 299-301, My-Je 1954 Card 2/2 Pub. 8 - 11/12 Institution : Not given Submitted : No date

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AID P - 381



AGENYAN, Tateos Artem'yevich; DEYCH, A.N., doktor fiziko-matematicheskikh nauk, redaktor.

[Origin of the sun and stars] O proiskhoshdenii solntsa i zvezd. Leningrad, Vses. ob-vo po rasprostraneniiu polit. i nauchn.snanii, Leningradskoe otdelenie, 1955. 31 p. (MIRA 8:4) (Cosmogony)

APPROVED FOR RELEASE: 06/05/2000



AGEKYAN, T.A. بالمتحد والمتحم

> Fluctuations in the visible distributions of stars. Astron.shur.32 no.5:416-424 S-0 155. (MLRA 9:1)

1. Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova. (Stars--Distribution)

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CIA-RDP86-00513R000100510017-6

AGEKYAN, T.A. 25-9-14/40 Agekyan, T.A., Candidate of Physico-Mathematical Sciences, Lenin-AUTHOR: grad Galaxy and Metagalaxy (Galaktika i metagalaktika) TITLE: PERIODICAL: Nauka i Zhizn', 1957, # 9, p 28-31 (USSR) ABSTRACT: The author discusses various problems of astronomy, pointing out that many phenomena of the Galaxy need more thorough and specified investigation. The main difficulties in studying the Galaxy are: the enormous distances that separate its stars from the observer, which renders it difficult to detect their movements and the gases and clouds of minute cosmic particles that obscure them, distorting their shape or obscuring them entirely. The Galaxy, of which the earth forms a part, is composed of stars, planetoids and possibly still unidentified celestial objects. It contains an estimated 150 billion stars which are arranged in small groups or vast accumulations which often comprise thousands of astral systems. One of the most characteristic features of our Galaxy, the Milky Way, spreads across the entire sky and shows many dark spots and tufts, which are caused by the Card 1/2irregular distribution of light originating from giant and

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	Galaxy and	supergiant stars. The latter occur in separate groups - so-called
		associations - as established by Academician operate into the With little success astronomers have tried to penetrate into the unlimited world behind our Galaxy. It is known that thousands of other astral systems exist in the universe, but they are so far away that they can only be seen through the most powerful telescopes. It is presumed that they form one gigantic system - the metagalaxy. The other galaxies have the shape of elipses, spirals with a central core or are of quite irregular form. In 1949, Soviet scientists, A.A. Kalinyak, V.I. Krasovskiy and V.B. Nikonov, photographed the core of our Galaxy and could prove that it belongs to the spiral type as shown in Figure "b". The lately developed radiotelescopes which are able to receive radio waves from the galaxies located at 10 - 20 billion light-years from the earth will greatly contribute to advance the study of astral systems. There are seven figures.
	AVAILABLE:	Library of Congress
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AGENYAN, T.A. 33-3-8/32 AUTHOR: Agekyan, T. A. The theory of fluctuations in the number of observed TTTE: galaxies. (Teoriya fluktuatsiy chisla nablyudaemykh galaktik) "Astronomicheskiy Zhurnal" (Journal of Astronomy), 1957, Vol.34, No.3, pp. 371-378 (U.S.S.R.) PERIODICAL: ABSTRACT: It has been assumed up to now that observed fluctuations in the number of galaxies per unit area of the sky can be explained either by the influence of the patchy structure of absorbing matter, or by the tendencies of galaxies to form clusters. In reality we have to do with the combined effect of both of these factors. In the present paper, V.A. Ambartsumyan's equation (1), (2) is generalised by assuming that, on the one hand, radiating and absorbing matter are each distributed in space according to some law, and without fluctuations and on the other hand, they form patches also distributed according to some law but with natural fluctuations. The equations are solved by the method of moments and applied to fluctuations Card 1/2 in the number of galaxies. The solution, which accounts for the action of these two factors, shows that the parameters characterising the structure of dark matter can be separated from the parameters, determining the distribution of galaxies

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33-3-8/32

The theory of fluctuations in the number of observed galaxies. (Cont.)

in the Metagalaxy. The theory is applied to the counts of galaxies made by Hubble, Shapley and Shane, and Virtanen. The result shows that the predominant number of galaxies in the Metagalaxy belong to small clusters, with the mean number of non-dwarf galaxies $\bar{g} = 8.3 \pm 1.6$. The result $\bar{g} < 287$ derived by Neuman, Scott and Shane, using the counts found by Shane and Virtanen, is incorrect and is explained by the fact that the patchy structure of absorbing matter was not taken into account. Small groups of galaxies, like the local system of galaxies, and not gigantic clusters, as the cluster in Virgo, Corona Borealis, etc., are characteristic of the Metagalaxy. The following were also derived: the mean absorption in one cloud, which for the above mentioned counts is: 0.46, 0.39, 0.24, and the mean absorption in the direction to the galactic pole: 0.39, 0.26, 0.85. There are 8 references, 3 of which are Slavic.

ASSOCIATION: Leningrad State University im. A.A. Zhdanov. (Leningradskiy Gosudarstvennyy Universitet imeni

A.A. Zhdanova)

SUBMITTED: December 6, 1956. AVAILABLE: Library of Congress

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AGEKYAN, T. A .: Doc Phys-Math Sci (diss) -- "Problems of the dynamics and Sec. structure of star systems". Leningrad, 1958. 16 pp (Leningrad Order of Lenin State U im A. A. Zhdanov), 150 copies (KL, No 3, 1959, 108)

APPROVED FOR RELEASE: 06/05/2000

AGEKYAN, T.A.

Interaction of stars with the diffuse matter [with summary in English]. Vop.kosm. 6:221-237 '58. (MIRA 11:10) (Stars) (Cosmic dust)

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Evolution (Ob izmenenii v know everywhere skorosti zvezd) PERIODICAL: Astronomicheskiy zhurnal, 1958, Vol 35, Nr 3, pp 424-433 (US ABSTRACT: According to the spectrum-rotational velocity diagram when passing from stars of early spectral classes to later spectr classes, the decrease of rotational velocity is accelerated, while the decrease in mass is slowed-down. Therefore there m so t a mechanism which for stars of late spectral classes in- creases the loss of moment per unit of lost mass. This mecha nism is such that the matter ejected by the star in the di- rection coinciding with the direction of rotational velocit; has an advantage in overcoming the gravitational (and possi some other) field of the star, and the moment carried away a unit of mass of matter on the surface of the star. (Thi per unit of mass of matter on the surface of the star. (Thi scheme was already formerly used by the author [Ref 12] for	AUTHORS	Agekyan, T.A. On the Change of the Rotational Velocity of Stars During
ABSTRACT: According to the spectrum-rotational velocity diagram which passing from stars of early spectral classes to later spectral classes, the decrease of rotational velocity is accelerated, while the decrease in mass is slowed-down. Therefore there m act a mechanism which for stars of late spectral classes in- creases the loss of moment per unit of lost mass. This mechanism is such that the matter ejected by the star in the di- nism is such that the matter ejected by the star in the di- rection coinciding with the direction of rotational velocit; has an advantage in overcoming the gravitational (and possi some other) field of the star, and the moment carried away a unit of mass of this matter is larger than the mean momen per unit of mass of matter on the surface of the star. (Thi scheme was already formerly used by the author [Ref 12] for	TITLE	Evolution (Ob izmenenii v knoue evolution
ABSTRACT: According to the spectrum-rotational velocity diagram which passing from stars of early spectral classes to later spectra classes, the decrease of rotational velocity is accelerated, while the decrease in mass is slowed-down. Therefore there m set a mechanism which for stars of late spectral classes in- creases the loss of moment per unit of lost mass. This mechanism is such that the matter ejected by the star in the di- nism is such that the matter ejected by the star in the di- rection coinciding with the direction of rotational velocit; has an advantage in overcoming the gravitational (and possi some other) field of the star, and the moment carried away a unit of mass of matter is larger than the mean momen per unit of mass of matter on the surface of the star. (Thi scheme was already formerly used by the author [Ref 12] for	PERIODICAL	Astronomicheskiy zhurnal, 1958, Vol 35, Nr 5, pp 424 495 (1997)
		According to the spectrum-rotational velocity diagram when passing from stars of early spectral classes to later spectral classes, the decrease of rotational velocity is accelerated, while the decrease in mass is slowed-down. Therefore there must act a mechanism which for stars of late spectral classes in- creases the loss of moment per unit of lost mass. This mecha- nism is such that the matter ejected by the star in the di- rection coinciding with the direction of rotational velocity has an advantage in overcoming the gravitational (and possibly some other) field of the star, and the moment carried away by a unit of mass of matter is larger than the mean moment per unit of mass of matter on the surface of the star. (This scheme was already formerly used by the author [Ref 12] for
An expression has been found for the surplus relative moment		An expression has been found for the surplus relative moment q
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On the Change of the Rotational Velocity of Stars During 33-35-3-11/27 Evolution carried away by ejected matter in dependence on the rotational velocity c, the mean velocity of the ejected matter , and the critical velocity on the surface of the star ω_k . From this expression it follows that for stars of later spectral classes qshould essentially increase. A homogeneous star, whose surface is "kinematically cooled" because the surplus moment is carried away from the surface when mass is lost, is considered. As a result of viscosity and convection the slowing-down or rotation will be passed to the inner regions of the star. On the basis of a complete analogy with the problem of thermal propagation a formula has been derived which connects the change of the rotational velocity of the star with the surplus moment that is carried away, the radius, the period of time and the value and kinematic viscosity. The formula has been applied to the spectrum-rotational velocity diagram and values of φ and $\tilde{\varphi}$ have been derived for the transitions A5-FO, FO-F5 and F5-F9. The proposed mechanism gives a satisfactory explanation of the course of rotational velocity in dependence on the spectral class of the star. There are 5 tables, and 13 references, 6 of which are Soviet, 6 American, and 1 Swedish.

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STREET PORTS

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	On the Chang Evolution	e of the Rotational Velocity of Stars During	33-35-3-11/27
	ASSOCIATION:	Astronomicheskaya observatoriya Leningradskogo universiteta ((Astronomical Observatory of the University)	
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HUE NYHN,

PHASE I BOOK EXPLOITATION SOV/3405

Soveshchanive po voprosam kosmogonii. 6th, Moscow, 1957

Vnegalakticheskaya astronomiya i kosmologiya; trudy soveshchaniya (Extragalactic Astronomy and Cosmology; Transactions of the 6th Conference on Problems of Cosmogony, June 5-7, 1957) Moscow, AN SSSR, 1959. 273 p. Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR.

Ed. of Publishing House: L.V. Samsonenko; Tech. Ed.: G.N. Shevch-enko; Editorial Board: D.A. Frank-Kamenetskiy (Resp. Ed.) Professor: B.A. Vorontsov-Vel'yaminov, Corresponding-Member.

PURPOSE: The book is intended for astronomers and physicists studying problems of general cosmology.

COVERAGE: The book is a collection of papers on cosmogony read by scientists participating in a conference held in Moscow on June 5-7, 1957. The papers review recent observational and theoretical work in extragalactic astronomy, gravitational theory, theory of relativity, red shift, radio astronomy, formation of chemical Card 1/g 2

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	Extragalactic Astronomy (Cont.) SOV/3405	
1	elements, thermodynamics of the universe, entropy, etc. No personalities are mentioned. There are references following most of the reports.	
	TABLE OF CONTENTS:	
	Foreword	3
	MORNING SESSION OF JUNE 5, 1957	
	DATA ON EXTRAGALACTIC ASTRONOMY AS A BASIS FOR THE STRUCTURE OF COSMOLOGICAL THEORY	
	Ambartsumyan, V.A. Some Data on Extragalactic Astronomy	5
	Vorontsov-Vel'yaminov, B.A. Interaction of Galaxies	19
	Kobushkin, P.K. Public Address	41
	Agekyan, T.A. Structure of the Metagalaxy	44
	Card 2/8	

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100510017-6"

TITLE:	Agekyan, T.A. The Probability of a Stellar Approach With a Given Variation of Absolute Velocity Astronomicheskiy zhurnal, 1959, Vol 36, Nr 1, pp 41-53 (USSR) In the present paper the author proposes a method which allows to reduce concrete problems of the influence of an irregular field in stellar systems to the problem of accidental Markov processes. Under the assumption that the parameters which characterize the field of the stellar system and the considered problem are known, the author finds the probability that during the time dt there will be an approach of a star with the star of the field so that the square of its velocity will variate by a value between Δv^2 and $\Delta v^2 + d\Delta v^2$. The author gives a formula for the probability for the general case of an arbitrary function of mass distribution. The author gives an essentially

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5 The Probability of a Stellar Approach With a S07/33-36-16/31simplified formula for the probability for the case that all as that of the considered star or zero. There is 1 table and 4 references, 1 of which is Soviet, 2 American, and 1 English. ASSOCIATION: Astronomicheskaya observatoriya Leningradskogo universiteta (Astronomical Observatory of the Leningrad University) SUBMITTED: April 18, 1958 (initially) and September 25, 1958 (after revision) STANITY 2/2

APPROVED FOR RELEASE: 06/05/2000

AUTHOR:	Agekyan, T.A. The Velocity Distribution Function and the Rate of Dissipation in Systems of Gravitating Bodies
PERIODICAL:	Astronomicheskiy zhurnal, 1959, Vol 36, Nr 2, pp 283-294 (USSR)
ABSTRACT:	Astronomicheskiy intrinsity of the present paper is based on a preceeding one [Ref 8] in which the author obtained expressions for the probability of an approach of a star under consideration with a star of a field, the relative change of the square of the star velocity being given. In the present paper two particular cases are investigated : A) All the stars of the field have equal mass = investigated : A) All the stars of the field have equal mass = the mass of the considered star ; B) all the stars of the field have equal mass. The considered star is of mass zero. The author deduces an equation of balance and obtains by an approximate solution of this equation the velocity distribution function in both cases. Then an expression for the rate of dissipation is formed. In case A) this rate turns out to be smalle than in previous determinations. Several general conclusions are made. The author mentions V.A. Ambartsumyan.
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The Velocity Distribution Function and the Rate of Dissipation in Systems of Gravitating Dodies
There are 2 figures and 8 references, 3 of which are Soviet, 4 American, and 1 English.
ASSOCIATION: Astronomicheskaya observatoriya Leningradskogo gesudarstvennogo universiteta (Astronomical Observatory of the Leningrad State University)
SUBMITTED: April 18, 1958

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	3(1) AUTHOR:	Agekyan,T.A.	501/33_3	5-3-27/29
	TITLE:	Contraction of the second se	"Development of the Ideas (-
	PERIODICAL:	Astronomicheskiy zhurna	al,1959,Vol 36,Nr 3,pp 553-5	554 (USSR)
	ABSTRACT:	In a very intuitive man development of the idea upon the ideas of the ((Agekyan) proposes some	nner the book represents the as of the universe. The auth eastern materialists. The re e changes for the further ed ws of Kepler can be derived	e historical nor lays stress eviewer hitions, e.g.
	SUBMITTED:	March 25, 1959		
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EYGENSON, Moris Semenovich; <u>AGENYAN, T.A.</u>, red.; KOSTYAKOVA, Ye.B., red.; MURASHOVA, N.Ya., tekhn.red.

> [Extragalactic astronomy; introduction to the study of galaxies] Vnegalakticheskaia astronomiia; vvedenie v izuchenie galaktik. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 414 p. (MIRA 14:2)

> > (Galaxies)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100510017-6"

ACERYAN, T.A. Accounting for the multiplicity of stellar approaches in the theory of irregular forces. Astron.zhur. 38 no.6:1055-1064 N.D '61. (MIRA 14:11) 1. Leningradskiy posudarstvennyy universitet im. A:A.Zhdanova. (Mechanics, Celestial)

APPROVED FOR RELEASE: 06/05/2000

Sector States

CIA-RDP86-00513R000100510017-6

S/722/62/000/000/004/009 Agekyan, T.A. States in the evolution of stellar systems. AUTHOR: Frudy Tret'yego s"yezda Sesoyuznogo astronomo-geodezicheskogo ubshchestva, 6-11 Aprelut 1960 g. Moscow. Izdatel'stvo Akademii TITLE: SOURCE: Star clusters, galaxies, and galaxy clusters may in their formative period be affected by nongravitational (arcest later stages of their development, however, are governed primarily by a tavitational forces. Four states or stages can be distinguished: (I) A nonstationary state; (II) a state that is stationary in a regular field, but nonstationary in an i regular field. (III) a quasi-stationary state in every point of a system: (IV) a quass stationary state of the whether The trans-ition from I to II is primarily due to the mixing action of a regular force field. The time required to transit from I is this where G is the gravitational constant and v is the mean density of the system in state II. The transition from II to 10 is produced by an irregula: Sarce field. The time required equals the greatest relevation time of the points of the given region: $\mathbf{T}_{\mathbf{H}} = \overline{15 \log \frac{\mathbf{N}}{2} \mathbf{V} \mathbf{G} \mathbf{v}}$ Card 1/3

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States in the evolution of stellar systems.

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where K is the lotal number of bodies in the system. The ratio

 $\frac{\mathbf{T}_{\mathbf{H}}}{\mathbf{T}_{\mathbf{I}}} = \frac{\mathbf{S}}{\mathbf{S}\mathbf{C}} \frac{\mathbf{I}_{\mathbf{S}}}{\mathbf{I}_{\mathbf{g}}} \frac{\mathbf{I}_{\mathbf{s}}}{\mathbf{I}_{\mathbf{g}}}$ (3)

shows that in systems with less than 172 boots of $T_{\rm H}$ is shorter than $T_{\rm P}$ and, here a system transits directly from state 1 to state UI, thus, multiple stars and thin Justers pass directly into the quasistationary state, whereas heavy clusters prist first pass into state II and then evolve into store III. In the transition from III to I irregular forces, acting as viscous forces, errect a "them of diffusion" and smothe dispersion of residual velocities through a the system . Courty due to the rotation time from III to IV, is proportional to the mesa linear a system and is inversely proportional to the mean real stal velocity of the body so the system: in a nonrotating system it is zero, where some rotating galaxies it of the same order of magnitude as T_{\prod} . The following the states is complete State I: Stellar associations. Irregular galaxies, gala, clusters of the type of the Virgo cluster. State II: Peripheral regions of spiral salaxies. Galaxy clasters of the type of the forma Berenices cluster. Spherical ci fors (7). Elliptical gelice (?). State III: (diptical galaxies (?). Giren mucles regions of spiral volume Date IV: Nuclei of spiral galaxies. Souther, other conters. Moving clostera, then The store. Spherical clusters (?). I Soviet refere . and 2/3

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AGEKYAN, T.A.

Spherical systems of stars and galaxies at early stages of evolution. Vest. LGU 17 no.1:152-161 '62. (MIRA 15:1) (Cosmic physics)

AGEKYAN, T.A.; KLOSOVSKAYA, Ye.V.

Determining the law of galactic rotation from radio observation data. Vest. LGU 17 no.13:103-112 '62. (MIRA 15:7) (Galaxies) (Radio astronomy)

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AGEKYAN, T.A.; VORONTSOV-VEL YAMINOV, B.A.; CORBATSKIY, V.G.; DEYCH, A.N.; KRAT, V.A.; MEL'NIKOV, O.A.; SOPOLEV, V.V.; MIKHAYLOV, A.A., otv. red.; KULIKOV, G.S., red.; AKSEL'ROD, I.Sh., tekhn. red. [Course on astrophysics and stellar astronomy]Kurs astrofiziki i zvesdnoi astronomi1. 2. izd. Moskva, Fizmatgiz. Vol.2. [By]T.A. Agekian i dr. 1962. 688 p. (MIRA 16:1) (Astrophysics) (Stars) (Nebulae)

APPROVED FOR RELEASE: 06/05/2000

AGEKYAN, T.A.; PETROVSKAYA, I.V.

Density distribution in spherical clusters of stars and galaxies. Uch.zap.LGU no.307:187-201 '62. (MIRA 15:9) (Stars--Clusters) (Galaxies)

APPROVED FOR RELEASE: 06/05/2000

AGEKYAN, T.A.

Spherical star clusters in a quasi-steady state. Astron.zhur. 40 no.2:318-328 Mr-Ap '63. (MIRA 16:3)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova. (Stars-Clusters)

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CIA-RDP86-00513R000100510017-6

\$/0033/64/041/003/0523/0530 ACCESSION NR: AP4040845 AUTHOR: Agekyan, T. A. TITLE: Spherical star clusters in a quasi-stationary state. Part II SOURCE: Astronomicheskiy zhurnal, v. 41, no. 3, 1964, 523-530 TOPIC TAGS: astronomy, star cluster, spherical star cluster, star, stellar residual velocity, stellar velocity, centroid, velocity dispersion, stellar residual velocity dispersion, stellar density, galactic star cluster, globular star cluster ABSTRACT: A solution has been obtained for a system of equations describing the state of a quasi-stationary cluster in an irregular field. The author has determined density, velocity of the centroid, dispersion of residual velocities and potential as a function of the distance / from the center. It was found that the cluster has a clearly defined boundary. Dispersion of stellar velocities decreases with an increase of ho and becomes equal to zero at the boundary of the cluster. The velocity of the centroid is directed toward the center of the cluster and increases with an increase of ρ . It has been possible to derive an analytical dependence between the radius of the cluster, the mean mass of stars and the values of the dispersion of residual velocities and stellar density at the center of the Card 1/2

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cluster. The author determines the rate of dissipation of stars from elements of volume of a cluster as a function of \checkmark . The solution is applied to typical open and globular clusters. For example, it is found that in an open cluster 0.00109% of the stars will dissipate from the cluster in a million years, assuming that the cluster is in a quasi-stationary state, contains 100 stars and has a radius of 3 parsecs. In the case of a globular cluster with $3 \cdot 10^5$ stars, with a radius of 20 parsecs, and with certain other parameters, the stellar density at the center will be 1,360 stars per cubic parsec and the mean square velocity at the center will be 9.95 km/sec. Rate of compression would be 67.5 m/sec. In a million years 0.0000670% of the stars would dissipate from such a cluster. This article is part 11 of an earlier study by the author (Astron. zh., 40, 318, 1963). "In conclusion, the author wishes to thank N. P. Kanareva who was in charge of the computations." Orig. art. has: 24 formulas, 1 figure and 1 table.

ASSOCIATION: Astronomicheskaya observatoriya Leningradskogo gosudarstvennogo universiteta (Astronomical Observatory, Leningrad State University)

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AGSSYNN, Later the allity of clusters and groups of galaxies. Astron.shur. 41 (MIRA 17:4) 10.1:131-137 Ja-P 164. 1. Astronomichaskeya observatoriya Laningradskogo gosudarstvennogo universitata.

AGEKYAN, T.A.; PETROVSKAYA, I.V.; FESENKO, B.I.

Rotation of the galax from radio observation data. Astron. zhur. 41 no.6:1027-1037 N-D ¹64 (MIRA 18:1)

1. Astronomicheskaya observatoriya Leningradskogo gosudarstvennogo universiteta.

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100510017-6

AGEKYAN, T.A.; ANOSOVA, Zh.P. Number of unstable systems among triple stars and galaxies. Uch. (MIRA 18:5) zap. LGU no. 326:103-117 164.

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100510017-6

AGEKYAN, T.A.

Quasi-stationary globular star clusters. Trudy Astrofiz. inst. AN Kazakh. SSR 5:30-45 '65. (MIRA 18:6)

AGEKYAN, T.A.; YAKOVLEVA, T.D.

Determining masses of rotating galaxies. Uch.zap.LGU no.328:139-145 (MIRA 18:10) 165.

AGEKYAN, V. Kn.

Agekyan, V. Kh. "Hemodynamic movements under the influence of the Dzhermuk mineral baths, a careful examination", in the collection: B_a l'neo-klimatich, kurort Dzhermuk, Issue 1, Yerevan, 1948, p. 118-44.

SO: U-2888, 12 Feb. 53, (Letopis' Zhurnal 'nykh Statey, No. 2, 1949).

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CIA-RDP86-00513R000100510017-6

AGEKYAN, V. KH.

7902. Mnatsakanyan, T. S. I AG**EKYAN**, V. KH. Kurorty armyanskoy ssr. yerevan, 1954. 36 s. 20 sm. (O-vo po rasprostraneniyu polit. I nauch. znaniy arm. ssr) 3.000 EKZ. 50 K- NA ARM. yaz.--(55-3043)

614.213(42.25)

SO: Knizhuaya Letopis', Vol. 7, 1955

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36882 s/181/62/004/004/026/042 4,2180 B102/B104 24,62.00 Gross, Ye. F., Kaplyanskiy, A. A., and Agekyan, V. T. 26.2420 Effect of oriented deformation on the spectra of direct and AUTHORS: indirect excitation of the exciton ground state in Cu₂O TITLE: crystals Fizika tverdogo tela, v. 4, no. 4, 1962, 1009-1015 TEXT: Gross and Kaplyanskiy had already shown (FTT, 2, 1676, 2968, 1960) PERIODICAL: that uniaxial compression of Cu_2O crystals leads to splitting of the first component (n=1, 6125 Å) of the yellow exciton series and of the two edges (6165 and 6085 Å) of continuous absorption. For $P \parallel C_4$ and $P \parallel C_3$ a doublet arises, with $P \parallel C_2$ - a triplet; P is the compression direction. These studies were continued. While the previous measurements were made in "transverse" geometry (L_P), now they were made in "longitudinal" one (L || P); L is the direction of light propagation. The measurements were made again at 77° K and with $M \in \mathbb{R} - 51$ (ISP-51) spectrograph and an $Y_4 - 85$ Card 1/3 .

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Effect of oriented deformation ...

S/131/62/004/004/026/042 B102/B104

(UF-85) camera. The compression load was 10-20 k_{Z}/mm^{2} . Results: With $P \parallel C_A$, line and edges were only red-shifted and not polarized. With $P \parallel C_A$, the line was shifted toward shorter waves, the edges were split into doublets and red-shifted; no polarization. With $P \parallel C_2$, the line was slightly red-shifted, the edge was split into a triplet and the spectrum was polarized. With $E \parallel C_4$ ($C_4 \perp P$), only the first edge was seen which was red-shifted; with $E \perp C_4$, both edges were seen, the first was slightly redshifted, the second was shifted considerably toward shorter waves. The results of both studies (L \downarrow P and L \parallel P) were analyzed on the basis of Elliott's theory (Proc. Internat. Confer. Semicond., Prague, 408, 1960; Phys. Rev. 124, 340, 1961) of the connection between these edges and indirect exciton transitions in the band n=1 (combined exciton-phonon transitions). The good agreement between this theory and the experimental results speaks in favor of the theory. The symmetry type of the phonon involved is assumed to be Γ_{12} . It can also be assumed that exciton migration takes place in Cu₂O. There are 1 figure and 1 table. Card 2/3

APPROVED FOR RELEASE: 06/05/2000

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100510017-6 S/181/62/004/004/026/042 B102/B104 Effect of oriented deformation... ASSOCIATION: Fiziko-tekhnicheskiy institut im.A. F. Iolfe AN SSSR Leningrad (Physicotechnical Institute imeni A. F. Ioffe AS USSR, Leningrad) December 13, 1961 SUBMITTED: Card 3/3

s/181/62/004/006/043/051 B108/B138 Gross, Ye. F., Kaplyanskiy, A. A., Agekyan, V. T., and AUTHORS: Bulyanitsa, D. S. Polarization of the yellow exciton series in the Cu₂O TITLE: spectrum on deformation of the crystals Fizika tverdogo tela, v. 4, no. 6, 1962, 1660-1666 PERIODICAL: TEXT: The effect of uniaxial compression of Cu_2O crystals along the <100>, <110>, and <111> axes on the yellow exciton series was studied. A longwave displacement of the series was observed. Anisotropic absorption was found but there was no splitting of the yellow series. Polarization of the absorption of the yellow series on deformation is explained by "direct forbidden" transitions (R. J. Elliott. Phys. Rev., 108, 1384, 1957) into exciton states and by band-to-band transitions, which are due to nearby excited bands. There are 1 figure and 1 table. Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR, ASSOCIATION: Leningrad (Physicotechnical Institute imeni A. F. Ioffe AS USSR, Leningrad) Card-1/2-> 1019/041

APPROVED FOR RELEASE: 06/05/2000

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000100510017-6 5/101/62/00~ Gross, Ye. F., Kaplyanskiy, A. A., and Agekyan, V. T. Deformation-induced splitting of the blue and tho durk blue exoiton series in the Cu₂O orystal spectrum Fizika tverdogo tela, V. 4, no. 8, 1962, 2169 - 2178 TEXT: Single-crystal Cu₂O plates cut in parallel to (100), (110) or (111) planes were commrensed at Trox in the directions kere compressed at 77°K in the directions <100% <110% or. <111% influenced to influence to influen TEXT: SINGLe-Crystal GU2U Plates Cut in Parallel VO VIVI, VI Y AUTHORS : TITLE: polarized. The position of the doublet line (v) related to that of the doublet line (v) related to that of the the direction but also on the direct PERIODICAL A . V . Vo depende lincerly on P. A celcule unced line enlitting shows that at it - a that magnitude of the pressure; D. V. Vo depends lines that at K. O the tion of the deformation-induced line splitting shows that at K. O the magnitude of the Pressures Card 1/3