

ARUTYUNYAN, R.K., kand.biolog. nauk; AMBARTSUMYAN, S.G.

Lability of the separate links of visual analysor in rabbits
following radiation injury. Vop. radiobiol. AN ARM. SSR 2:43-
56 '61. (MIRA 18:4)

"INTERGRANULAR CORROSION OF ALUMINUM ALLOYS CONTAINING COPPER," Korroziya i azshchita metallov (Corrosion and Protection of Metals), Moscow, Obornogiz, 1957. 366 p.

PURPOSE: This book is intended for engineering, technical, and scientific personnel at industrial plants, research institutes, and design offices working in the field of corrosion-protection of stainless steel, high-strength structural steel, and light alloys.

SOV/137-58-10-21313

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 124 (USSR)

AUTHORS: Pavlov, S. Ye., Ambartsumyan, S. M.

TITLE: Intercrystalline Corrosion of Aluminum Alloys Containing Copper
(Mezhkristallitnaya korroziya alyuminiyevykh splavov, soderzhashchikh med')

PERIODICAL: V sb. : Korroziya i zashchita metallov. Moscow, Oborongiz, 1957, pp 199-217

ABSTRACT: In the process of intercrystalline corrosion of alloys of Al with Cu, among them Duralumin, an important role is played by secondary processes. The surface of an Al-Cu alloy possessing a uniform distribution of phase intrusions on the grain borders can be divided, according to its tendency towards intercrystalline corrosion in NaCl solutions, into a region which is not sensitive to an attack of this type (the process goes on with depolarization of oxygen only, i. e., without an evolution of H₂) and a sensitive region where the corrosion is accompanied with an evolution of H₂. In the region where the corrosion proceeds with oxygen depolarization exclusively the absence of intercrystalline decomposition is caused by the formation of a

Card 1/2

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Intercrystalline Corrosion of Aluminum Alloys Containing Copper

protective film on the CuAl_2 intrusions in this region. This protective film consists of products of corrosion which inhibit further development of the process. In the region where the process is accompanied by an evolution of H_2 , there is no film on CuAl_2 and an intercrystalline attack is developed. An immediate cause of the evolution of H_2 must be sought in the negative difference effect.

1. Aluminum-copper alloys--Corrosion

L. A.

Card 2/2

L 40374-66 ETI/EWP(t)/E.T(m) IJP(c) JH/JD/WB/JT

ACC NR: AP6025629

SOURCE CODE: UR/G413/66/000/013/0080/0080

INVENTOR: Al'tman, M. B.; Ambartsumyan, S. M.; Kolobnev, I. F.; Lotareva, O. B.; Loktionova, L. I.; Spiridonova, S. B. 44

ORG: none

TITLE: Cast aluminum-base alloy. Class 40, No. 183398 15

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 80

TOPIC TAGS: aluminum alloy, cast alloy, zinc containing alloy, magnesium containing alloy, manganese containing alloy, titanium containing alloy, iron containing alloy, beryllium containing alloy, stress corrosion, corrosion resistant metal

ABSTRACT: An Author Certificate has been issued for a cast aluminum-base alloy containing zinc, magnesium, manganese and titanium. In order to reduce susceptibility to stress corrosion while retaining high mechanical properties, the content of alloying elements should be kept within the following limits in %: zinc 3.5-5.5, magnesium 1.2-2.2, manganese 0.2-0.7, titanium 0.05-0.25, chromium 0.1-0.6, iron 1.0-1.6, and beryllium 0.01-0.5. The alloy may also contain silver, niobium, cobalt, nickel, molybdenum, boron, tungsten, and rare-earth metals in an amount up to 1.5%. [DV]

SUB CODE: 11/ SUBM DATE: 12Jun64/ ATD PRESS: 5053

Card 1/1 MLP

UDC: 669.715'5'721'74

ACC NR: AT6016413

(N)

SOURCE CODE: UR/0000/15/000/000/0000/0000

AUTHORS: Shilova, Ye. I.; Mikitayeva, O. G.; Ambartsyan, S. K.; Skachkov, Yu. N.

ORG: none

TITLE: Properties of alloys of the system aluminum--copper--magnesium--manganese

SOURCE: AN SSSR. Institut metallurgii. Metallovedeniye legkikh splavov (Metallography of light alloys). Moscow, Izd-vo Nauka, 1965, 78-87

TOPIC TAGS: alloy phase diagram, metal ~~property, welding~~ alloy / D18 alloy, V65 alloy, D1 alloy, D16 alloy, D19 alloy, VD17 alloy, D19 alloy

ABSTRACT: The strength limit, relative elongation, corrosion stability, fatigue limit, and the tendency towards crack formation during welding of the alloys formed by the system Al-Cu-Mg-Mn were studied. The specimens were prepared in a graphite crucible at 680--690C and were homogenized at 480C for 24 hr. The coefficient of crack formation during welding was calculated according to the formula

$$K = \frac{\sum l_{cr}}{\sum l_{weld}} \cdot 100.$$

where $\sum l_{cr}$ is the total length of cracks and $\sum l_{weld}$ is the total length of weld.

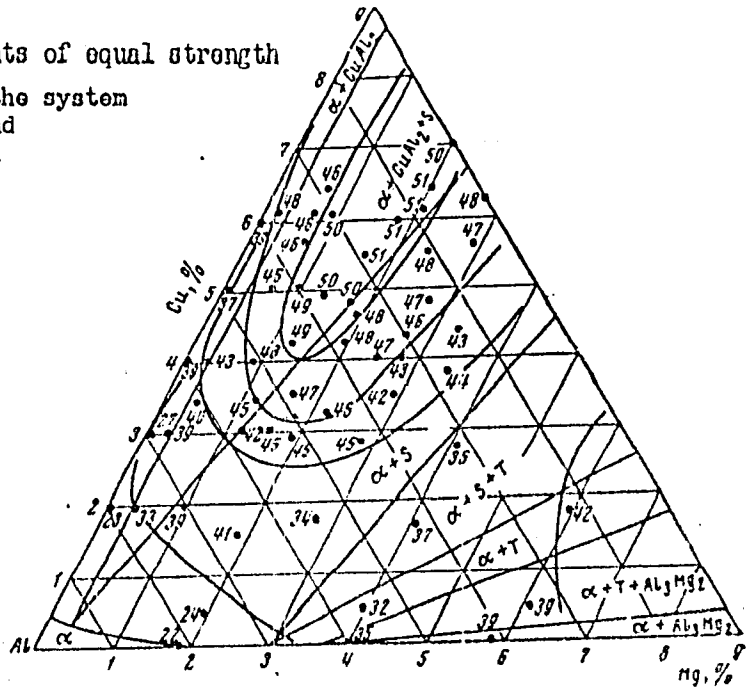
The experimental results are shown graphically (see Fig. 1), The experimental

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L 39884-66

ACC NR: AT6016413

Fig. 1. Curves connecting points of equal strength limit (kg/mm^2) for alloys of the system Al-Cu-Mg-Mn in the tempered and naturally aged state at normal temperature.



Card 2/3

ACC NR: AT6016413

results were compared with the corresponding results for the industrial alloys D18, V65, D1, D19P, VD17, D16, and D19. It was found that alloys containing 3.5-6% Cu and 2.3% or more Mg showed the least tendency towards crack formation. The corrosion stability of alloy containing 3-5% Cu and 0.5-4% Mg is independent of their phase position, i.e., $\alpha + \text{CuAl}_2 + \text{S}$ or $\alpha + \text{S}$. However, intercrystalline corrosion which results from short-time heating to 150C does depend on the nature of the phase composition. Orig. art. has: 1 table and 7 figures.

SUB CODE: 11/ SUBM DATE: 16Sep65/ ORIG: REF: 011/ OTH REF: 002

Card 3/3 *125*

AMBARTSUMYAN, TS.I.

Thermal analysis of certain uranium minerals. Atom. energ. Supplement
no.6:86-125 '57. (MIRA 11:7)
(Uranium ores--Analysis)

AMBARTSUMYAN, TS.L.; KALUGINA, N.G.

Thermal decomposition of schroeckingerite. Min.sbor. no.11:
356-360 '57. (MIRA 13:2)

1. Nauchno-issledovatel'skiy sektor Moskovskogo geologorazvedochnogo instituta, Moskva.
(Schroeckingerite)

Is. L. AMBARTSUMYAN, (V. A. Polikarpova)

"NEW DATA CONCERNING URANIUM MINERALS" by V. A. Polikarpova, Ts. L. Ambartsunyan.

Report presented at 2nd UN Atoms-for-Peace Conference, Geneva, 9-13 Sept 1958

AMBARTSUMYAN, Ts. L.

AMBARTSUMYAN, TS.L.; BASALOVA, G.I.; GORZHEVSKAYA, S.A.; NAZARENKO, N.G;
KHÓDZHAYEVA, R.P.; PCHELINTSEVA, G.M., red.; MAZEL', Ye.I., tekhn.
red.

[Thermal investigation of uranium and uranium-containing minerals]
Termicheskie issledovaniia uranovykh i uransoderzhashchikh minera-
lov. Moskva, Gos. izd-vo lit-ry v oblasti atomnoi nauki i tekhniki,
1961. 146 p. (MIRA 14:11)

(Uranium—Analysis)

GERTSEVA, R.V.; TSYBUL'SKAYA, M.S.; AMBARTSUMYAN, TS.L.; NAZARENKO, N.G.;
POLUARSHINOV, G.P.; KHODZHAYEVA, R.P.

New data on hydrous pitchblende and urgite. Zap.Vses.min.ob-va
90 no.5:549-556 '61. (MIRA 14:10)
(Urgite) (Pitchblende)

KARPOV, V.I.; AMBARTSUMYAN TS I.

Some physicochemical properties of uranyl phosphates. Zhur.
neorg. khim. 7 no.8:1838-1841 Ag '62. (MIRA 16:6)

(Uranium phosphate)

Literature

ACCESSION NR: APS022195

NR 0029165/018/006/0647/0648

AUTHOR: Korenev, M. A.; Nevskiy, B. V.; Zorina, L. P.; Ambartsumyan, Ta. L.; Nazarenko, N. G.

TITLE: Precipitation of uranyl and ammonium arsenates and some of their properties

SOURCE: Atonnaya energiya, v. 18, no. 6, 1965, 642-648

TOPIC TAGS: uranium compound, uranyl nitrate, ammonium compound, arsenate, chemical precipitation

ABSTRACT: X ray and thermographic analysis of uranyl nitrates (with 0.5g/l uranium) showed that as 20°C and arsenic-uranium near stoichiometric the precipitation of uranyl and ammonium arsenates from uranyl nitrates began at pH ≈ 1.5. At pH = 2.5 the main part of uranium precipitation was accomplished by the ammonium neutralization. Prepared uranyl and ammonium arsenates looked like a fine crystal line, lemon-yellow powder with bright green fluorescence under ultraviolet light with the chemical formula $UO_2NH_4AsO_4 \cdot 3H_2O$. Formation of uranyl and ammonium arsenates

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L 63907-65

ACCESSION NR: AP5022495

and trivalent iron and aluminum arsenates as functions of uranium (0.250g/l) concentration and pH of the solution were determined. The pH values for the initial and final uranyl and ammonium arsenates and trivalent iron were determined. The curves show that uranyl and ammonium arsenates and trivalent iron precipitate at different pH values. The curves show that uranyl and ammonium arsenates and trivalent iron therefore selective precipitation of uranyl and ammonium arsenates and trivalent iron of divalent iron and aluminum ions. Orig. and final graphs & figures.

ASSOCIATION: none

SUBMITTED: 13May64

NR REF 57V: (C)

ENCL: 00

OTHER: (C)

SUB CODE: IC, GC

NAME:

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Development of astrophysics in Soviet Armenia. Iz 1st.est.1 tekhn.
2:21 '62. (MIRA 18:4)

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Problem of multiple light scattering in a plane-parallel
medium with internal reflection from the boundary surface.
Uch. Zap. LGU no.323:3-11 '64. (MIRA 17:12)

AMBARTSUMYAN, V.A., inzh.; FENELONOV, V.G., inzh.; MEYTIN, G.I., inzh.

Use of mercury-type transducers in heat protection systems of electric motors. Prom. energ. 20 no.6:13-15 Je '65.

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"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000101220008-7

APPROVED FOR RELEASE: 03/20/2001

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No.1, pp 54-68, 1926

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Nos. 7-8, pp 602-607, 1928

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Nos. 3-4, pp 263-267, 1928

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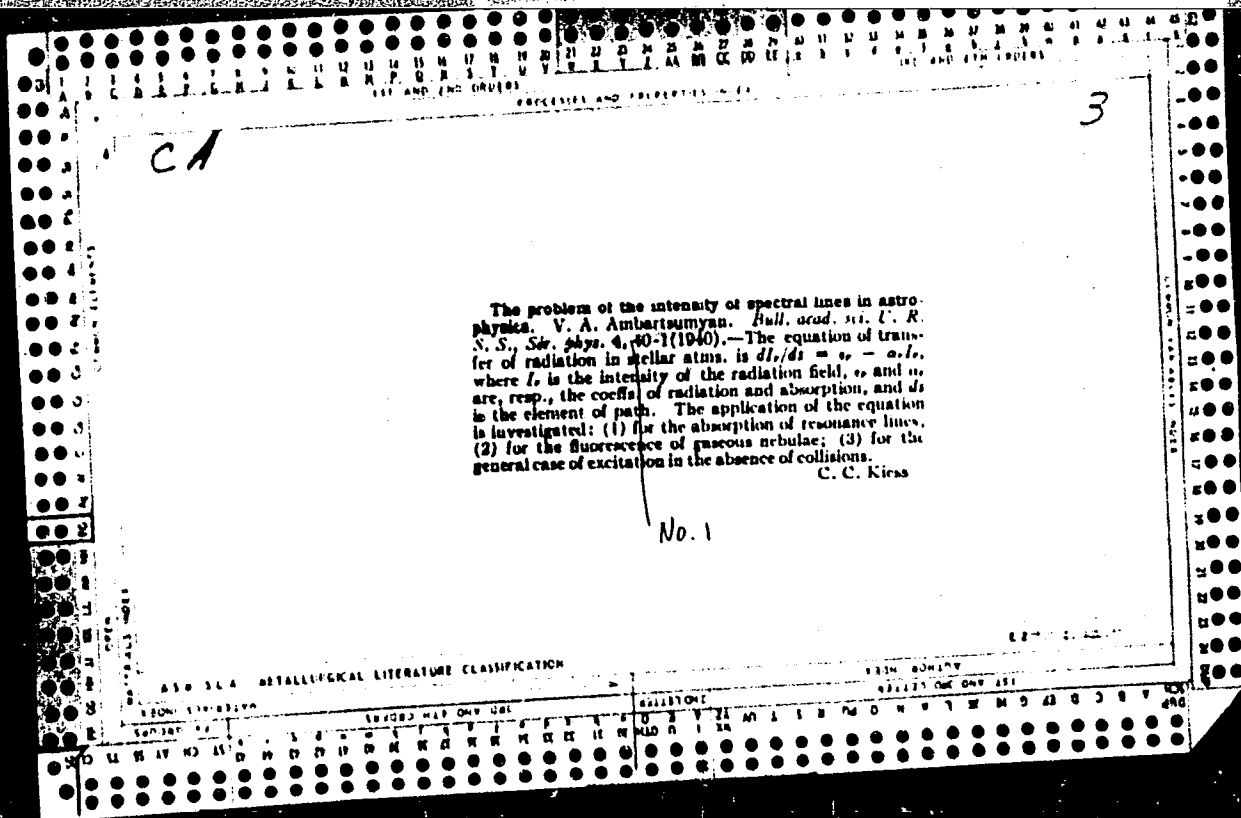
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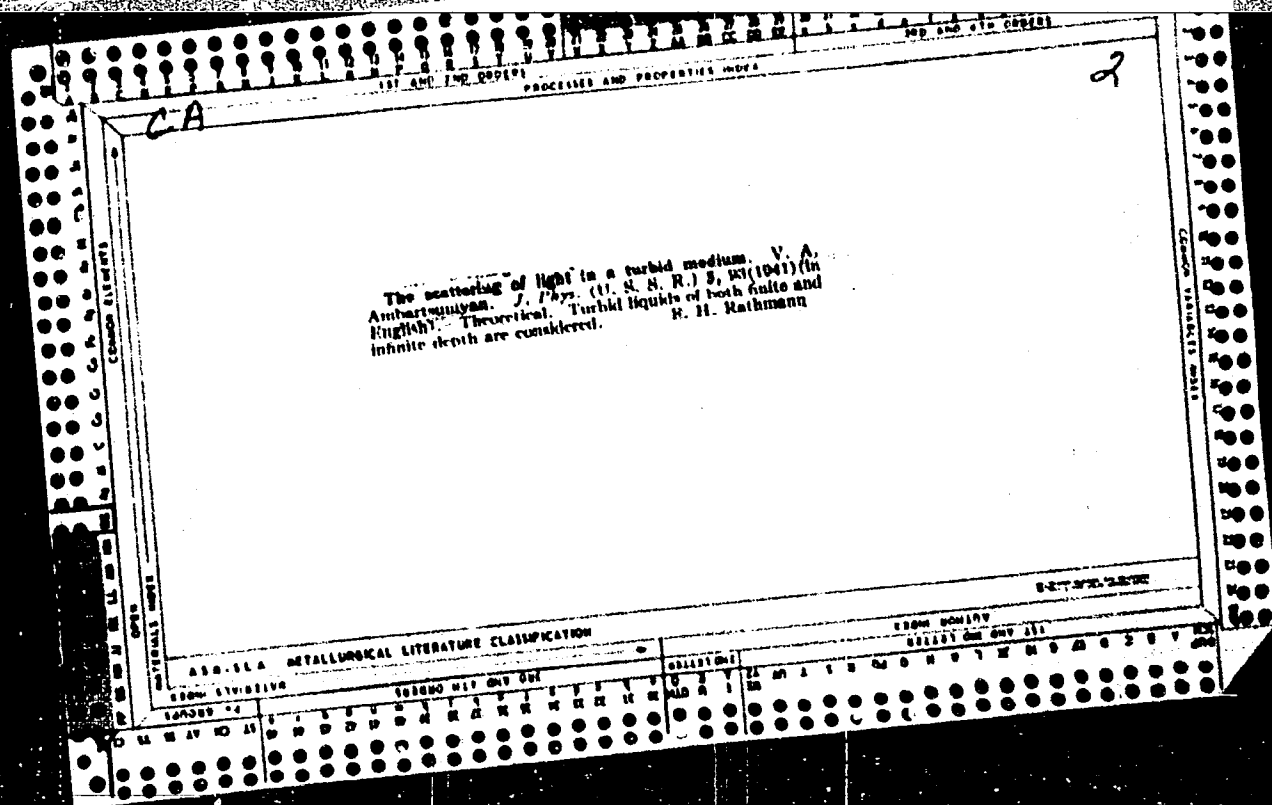
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BC

Diffuse reflection of light by a foggy medium. V. A. Ambarzumian
 (Compt. rend. Acad. Sci. U.R.S.S., 1942, no. 299-307) - The
 scattering power of a medium of infinite thickness with a plane
 boundary is unaltered by the addition of a farther thin layer. Hence
 an integral equation, the solution of which determines the scattered
 intensity in any direction outside the boundary, is deduced. The
 method is also applicable to a finite slab. Solutions of the equations
 are not given. H. J. W.

METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED INDEXED SERIALIZED FILED

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WE

General Physics

1000

515 43
 On the Problem of the Diffuse Reflection of
 Light. V. Ambartzumian. (*J. Phys. U.S.S.R.*,
 1944, Vol. 8, No. 7, pp. 63-74) Previous solutions
 ignore the effect of multiple scattering which is
 included in the present analysis for the case of a
 medium in plane parallel layers. The indicatrix
 (the angular distribution of the scattered rays in
 the elementary process) is assumed to be spherical.
 The reflection coefficient r , and R ($= 4\pi r/\lambda$) are
 calculated in terms of functions of q ($= \cos \theta$)
 and q_0 ($= \cos \theta_0$), where θ and θ_0 are the angles
 between the normal and the reflected and incident
 rays respectively (λ = coefficient of pure scattering/
 sum of coefficients of absorption and pure scattering).
 Lambert's empirical law that the coefficient of
 brightness ($\rho = r/q$) is constant for white bodies
 ($\lambda = 1$) is found theoretically to hold when ρ is
 averaged over all azimuths and for angles of
 incidence and reflection not too large ($\theta, \theta_0 \lesssim 70^\circ$).

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W.E.

1730. DIFFUSION OF LIGHT THROUGH SCATTERING
MEDIUM OF LAMINAR OPTICAL THINNESS
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ABRAHAMSON. (Comptes Rendus (Paris))
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Vol. 43, No. 3, pp. 102-106; in English.
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over a sky of uniform cloudiness.

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Describes past work of Academy and gives details of work at present in progress, including work on cloud-bursts by physicists under A. I. Alikhanyan, study of astral astronomy and construction of a new astrophysics observatory, study of the origin of Armenian metals by I. G. Magak'yan, and other works.

54719

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[Star association around P Cygni] Zvezdnaya assotsiatsiya vokrug
P Lebedia. Erevan, Izd-vo Akademii nauk Armianskoi SSR, 1949. 17 p.
(Byurakan. Observatoriia. Soobshcheniia, no.2). (MIRA 9:4)
(Stars)

^M
AMBARTSUYAN, V. A.
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27583. Zamechaniye o galaktike, kak spiral'noy sisteme. Doklady (Akad. nauk arm. SSR). T. X, No. 4, 1949, s. 149-51. Rezyume na arm. yaz.

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SSR, Yerevan.
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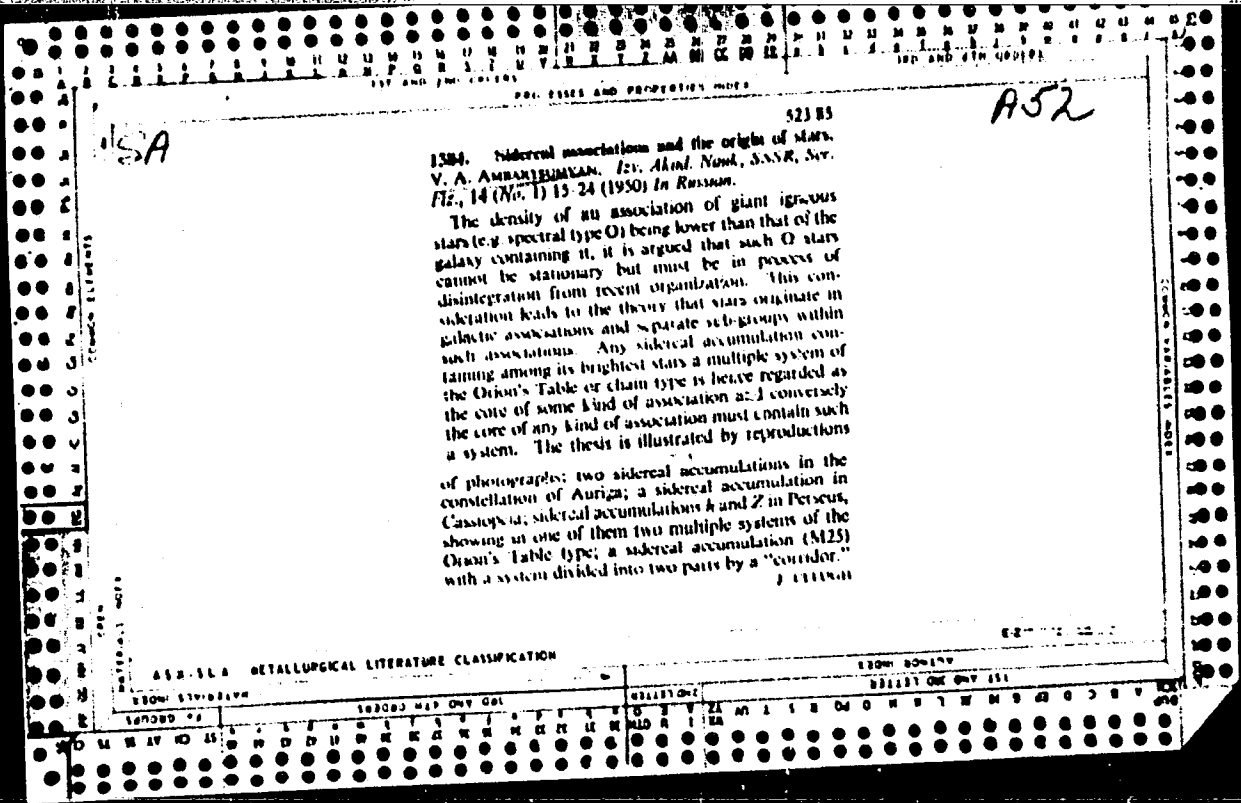
"Review of Volume IV of the Book 'Progress of the Astronomical Sciences,' Published by the Acad. of Sci., USSR, and Edited by Academician V. G. Fesenkov," Astron. Zhur. XXVI, No. 5, 1949.

AMBARTSUMYAN, V. A.

26897

Predvaritel'nye Dannyye Ob O - Assotsiatsiyakh V Galaktike Doklady Akad. Nauk SSSR,
Novaya Seriya, T. LKVIII, No 1, 1949, S. 21-22
V. Geodeziya, Kartografiya, Topografiya

SO:LETOPIS NO. 34



AMBARZUMJAN, W. A.

(cont'd)

Pg-1

Ambarzumjan, W. A. Zur Theorie der Fluktuationen in der scheinbaren Verteilung der Sterne an der Sphäre. Abh. Sowjet. Astron. Folge II=Sowjetwissenschaft, Beiheft 27, 155-195 (1951).

This monograph presents a coherent account of the work of Ambarzumjan and his pupils on the problems in stochastic theory which arise in stellar statistics from the non-uniform distribution of the interstellar absorbing matter. The basic assumption which is made regarding the latter is that the absorbing matter occurs in the form of discrete clouds and that the number of clouds $n(s)$ which occur in a distance s is governed by a Poisson distribution with a variance νs where ν is a given constant.

The treatment is divided into 13 sections. Sections 1 and 2 are introductory. Sections 3 and 4 treat the problem of the fluctuations in the counts of extragalactic nebulae due to the cloud structure of the absorbing matter in the galaxy idealized as a plane-parallel slab. The treatment is somewhat more general than in the earlier publication of the author [Bull. Abastumani Observatory 4, 17-23 (1940)]. In particular, the author considers the probability $u_t(\tau)$ that in a line of sight extending to a distance s from the origin, the total optical thickness of the intervening clouds is less than τ . If ξ is the distance measure in the unit νs , the author shows that $u_t(\tau)$ is governed by the integral equation

$$(1) \quad \frac{du_t(\tau)}{d\tau} = -u + \int_0^\tau u_t(\tau-\sigma) dF(\sigma)$$

where $F(\sigma)$ is related to the probability distribution of clouds of different transparency factors $q (=e^{-\tau})$ by $\phi(q) = 1 - F(\sigma)$. Letting

$$Q_k = \int_0^\infty e^{-k\tau} du_t(\tau),$$

the author shows by using equation (1) that

$$Q_k = \exp\{-\nu s(1-q_k)\}, \quad q_k = \int_0^\infty e^{-k\tau} dF(\sigma).$$

Sections 5, 6, and 7 deal with the problem of the fluctuations in brightness, u , of the Milky Way. The author derives the integral equation

$$(2) \quad g(u) + \frac{dg}{du} = \int_0^1 \psi(q) g\left(\frac{u}{q}\right) \frac{dq}{q},$$

governing the frequency distribution $g(u)$ of u . In (2), $\psi(q)$ is the frequency of occurrence of a cloud with a transparency factor q . The solution of (2) for the case when $\psi(q)$ is a delta function is given. [The general solution of (1) without any restriction on $\psi(q)$ has been found by S. Chandrasekhar and G. Münch, *Astrophys. J.* 115, 94-102 (1952); *ibid.* Rev. 13,

SO: MATH. REV. VOL. 14, NO. 9, OCT. 1953, PP. 831-934 - UNCLASSIFIED

AMBARZUMJAN, W. A.

786. Also the more general integral equation

$$(3) \quad g(u, \xi) + \frac{\partial g}{\partial u} + \frac{\partial g}{\partial \xi} = \int_{u/\xi}^1 \psi(q) g\left(\frac{u}{q}, \xi\right) \frac{dq}{q}$$

which governs the case when the system considered is of finite extent has also been treated by Chandrasekhar and Münch, *ibid.* 112, 380-392 (1950); 114, 110-122 (1951); these Rev. 12, 644; 13, 249.] Section 8 deals with the problem which has also been treated under more general conditions by Chandrasekhar and Münch [*ibid.* 113, 150-165 (1951); these Rev. 12, 644].

Sections 9-12 break new ground by including in the description the fluctuations in star density in addition to the fluctuations in the interstellar absorption. If one supposes that the system one considers is so far away that one may neglect the decrease in the brightness of the stars with increasing distance, then the integral equation governing the distribution of the observed intensity is

$$(4) \quad \Psi(I) = (1-\lambda) \int_0^1 \Psi(I/q) \psi(q) dq + \lambda \int_0^I \Psi(I-i) dB(i),$$

where $B(i)$ is the probability that a star has a brightness less than i and $\lambda = \nu / (\nu + n_s S)$ where ν is the average number of stars per unit length in the line of sight, n_s is the number of stars per unit volume, and S is the area of the sky viewed. The author shows that by using equation (4) the moments of I can be evaluated. Thus the dispersion is given by

$$\frac{(I-I)^2}{I^2} = \frac{1}{\lambda} \frac{1-(1-q)^2}{1-q^2} + \frac{1-\lambda}{\lambda} \frac{q^2 - q^4}{1-q^2} + \frac{1-\lambda}{\lambda} \frac{q^2 - q^4}{1-q^2} \frac{(1-q)^2}{1-q^2}$$

Attempts to generalize this simple problem are not altogether successful. An attempt is also made in these last sections to obtain the angular correlation of the fluctuations in brightness of the Milky Way; again the results are not conclusive [see Chandrasekhar and Münch, *ibid.* 115, 103-123 (1952); these Rev. 13, 786].

S. Chandrasekhar.

SO. MATH. REV; VOL. 14, NO. 9, OCT. 1953, P. P. 831-934 - UNCLASSIFIED

AMBARTSUMYAN, V. A.

PA 164T4

USSR/Astronomy - Hot Giants
Star Distribution

Jul/Aug 50

"Comment on the Distribution of Hot Giants," V. A.
Ambartsumyan

"Astron Zhur" Vol XXVII, No 4, pp 228-232

Ambartsumyan shows that the idea that most stellar associations (clusters) are, as it were, corridors of sight through vast stellar fields contradicts observations. Study of subject distribution leads to conclusion it is nonhomogeneous, with considerable fluctuation in spatial density not due to chance.

164T4

AMBARTSUMYAN, V. A.

PA 175T3

USSR/Astronomy - Stars

11 Aug 50

"Distribution of Hot Giants in Outer Parts of
Spiral Galaxies," V. A. Ambartsumyan, Corr Mem,
Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXXIII, No 5, pp 915-916

Our sun is so far from center of our galaxy that
to intelligent observers with instr comparable to
ours in another remote galaxy it would appear to
be located outside limits of our galaxy, as shown
on their photographs. Hence the difficulty of
inverse subject problem. Submitted 20 Jun 50.

175T3

AMBARTSUMYAN, V. A.

USSR/ Astronomy - Stellar Statistics Feb 51

"Gravitational Systems and Their Evolutions," Prof L. E. Gurevich

"Priroda" No 2, pp 14-22

Considers individual stars as particles of a "stellar gas" similar in nature to mol gas in that the interaction of individual particles is negligible in comparison with their kinetic energy. Discusses stellar statistics are created by V. A. Ambartsumyan, and further developed by S. Chandrasekahr.

PA 213T2

AMBARTSUMYAN, V. A.

USSR/Astronomy - Hot Spots, Radio Cluster, Stellar May/June 51

"Association Cassiopea II," V. A. Ambartsumyan,
Byurakan Astrophys Obs, Acad Sci Armenian SSR

"Astron Zhur" Vol XXVIII, No 3, pp 160-162

In region around open cluster NGC 7,510 weak
O and B stars combine in single O-assn. Dis-
tance of assn is 2,500 parsecs, and its diam
is 160 parsecs. It is directed to region of
strong interstellar absorption and toward
source of short-wave radio noise emission.

189T1

AMBARTSUMYAN, V. A.

"Theory of Fluctuation in the Visible Distribution of Stars in the Sky,"
Soob. Byurakanskaya Observator., No.6, 1951. 61 pp.

AMPARTSUMYAN, V.A.

[Introductory report at the symposium on the evolution of stars; report at the 8th Congress of the International Astronomical Union Rome 1952] Vvodnyi doklad na simpoziume po evoliutsii zvezd; doklad na VIII s"ezde Mezhdunarodnogo astronomicheskogo soiuza, Rim, 1952. Moskva, Izd-vo Akad.nauk SSSR, 1952. 90 p. [Microfilm]

1. Chlen-korrespondent Akademii nauk SSSR.
(Stars)

AMBARTSUMYAN, V. A.

Mathematical Reviews
Vol. 14 No. 8
Sept. 1963
Astronomy.

*Ambartsumyan, V. A., Mustel', E. R., Severnyi, A. B.,
I Sobolev, V. V. Teoreticheskaia astrofizika. [Theoretical astrophysics.] Gosudarstv. Izdat. Tehn.-Teor. Lit., Moscow, 1952. 635 pp. (1 plate). 15 rubles.
Contents: I. Theory of radiative equilibrium of stellar photospheres and continuous spectrum of stars: Radiative transfer theory; Coefficient of continuous absorption; Structure of stellar photospheres; Thermodynamic equilibrium. II. Formation of absorption lines in stellar spectra: Mechanism of absorption line formation; Solution of equation of transfer for absorption line frequencies; Coefficients of selective absorption; Absorption line contours; Curve of growth; Chemical composition; Spectral sequences; Scale of effective temperatures. III. Physics of the solar envelope: Structure of the photosphere; Granules; Electrodynamics of the solar atmosphere; Sunspots; Faculae; Prominences; Filoculi; Flares; The corona; Solar radio noise. IV. Planetary nebulae: Temperature of nucleus; Physical state; Radiative equilibrium. V. Novae. VI. Stars with bright lines: Formation of emission lines. VII. Interior structure of stars: Physical state. VIII. Dispersion of light in the planets' atmospheres: Radiative transfer; Albedo. IX. Interstellar matter: Diffuse nebulae; Interstellar gas.

(OVER)

AMBARTSUMYAN, V. A.

Formation of stars and star associations. Fiz. v shkole. no. 5, 1952.

SO: MLRA. December 1952

AMBARTSUMYAN, V. A.

Approval of the Ideas of the Commission on Cosmogony, Vest Ak Nauk SSSR, No. 11, p.116, Nov 52.

Commission is under the Dept. Physico-Math. Sci. Basic tasks of the commission, headed by V.A.Ambartsurnyan, Cor. Mbr., Acad. Sci, USSR, are: 1) to carry out coordination and general supervision in the field of planetary and stellar cosmogony, 2) to direct development of plans and general trend of work on cosmogony, and 3) to organize critical reviewing and exposing of idealistic foreign conceptions in cosmogony. "Problems of Cosmogony", a publication of the commission, will come out twice a year.

251T86

Dec 52

AMBARTSUMYAN, V. A.

USSR/Engineering - Dams

"Important Scientific-Technical Works," V. A. Ambartsumyan, Corr Mem Acad Sci USSR and pres of Acad Sci Armenian SSR

Priroda, No 12, pp 73, 74

States that the work of Armenian scientists who are assisting the present great construction projects is mainly concentrated in the Acad Sci Armenian SSR, and in the past year the presidium has worked out 7 large-scale, joint-effort projects, approved by the committee, for the construction of hydroelectric plants, canals, and irrigation systems. Also, extensive investigations are being conducted by the Water-Power Inst, Acad Sci Armenian SSR. States that I. V. Yegiazaryan, Active Mem, Acad Sci Armenian SSR, is directing modeling and studies of hydrotechnical constructions going on in Armenia. N. Kh. Arutyunyan, Active Mem, Acad Sci Armenian SSR, has developed a theory of creep in concrete which permits important investigations of phenomena in huge concrete dams.

263T78

AMBARTSUMYAN, V. A.

PA 249T77

USSR/Astronomy - Cosmogony

Sep 52

"Problem of Stellar Origin," V. A. Ambartsumyan,
Corr-Mem Acad Sci USSR

Priroda, Vol 41, No 9, pp 8-18

Article ascribes all research in astronomy and astrophysics to Russians and criticises Western science. The quoted names of contemporary Soviet astronomers are: B. V. Kukarkin, P. P. Parenago, B. A. Vorontsov-Vel'yaminov, D. Ya. Martynov, V. A. Krat, V. G. Fesenkov, N. A. Kozyrev, Sh. G. Gordeladze, V. V. Sobolev, G. A. Shayn, L. E. Gurevich, B. Yu. Levin.

249T77

AMBARTSUMYAN, V. A.

AMBARCUMIAN, V. A.

Dynamics of [Nova and Supernova] Shells."

(Excerpt from "Teoreticheskaya Astrofizika"
(Moscow, 1952), Section 27, part 2, pages 4.0-471.

SO: TranslationSup-25244.67, 30 Dec 1954.

1. Ambartsumyan, V.A.
2. USSR (600)
4. Hydraulic Engineering
7. Important scientific-technical works, Priroda 41 no.12, 1952.

9. Monthly List of Russian Accessions. Library of Congress, March 1953, Unclassified.

LAVRENT'YEV, M.A., akademik, redaktor; AMBARTSUMYAN, V.A., akademik;
KUKARKIN, B.W., doktor fiziko-matematicheskikh nauk; PARENAGO, P.P.,
chlen-korrespondent AN SSSR; LEVIN, B.Yu., kandidat fiziko-matema-
ticheskikh nauk; MASEVICH, A.G., kandidat fiziko-matematicheskikh
nauk, redaktor.

[Transactions of the 2nd conference on problems of cosmogony,
19-22 May 1952] Soveshchanie po voprosam kosmogonii. Trudy.
Red. koll. M.A. Lavrent'ev i dr. Moskva, 1953. 582 p. (MLRA 7:5)
(Cosmogony) (Stars)

1. AMBARTSUMYAN, V., Acad.
2. USSR (600)
4. Astronomy - Armenia
7. Under the skies of Armenia. Tekh. molod. No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Unclassified.

Abstract of the Proceedings of the 1956-57 Session of the Academy of Sciences of the USSR, U.S.S.R.

"New Works of the Crimean Astrophysical Observatory," P. I. Dobronravina and S. E. Pikel'ner

Priroda, No 7, pp 50-56

Describes the history of the Crimean Observatory at Simais, from 1900, the date of its origin, to the present. Discusses the works of G. A. Shayn and V. F. Gaze (ratios of numbers of isotopes in the atmosphere of stars, and carbon stars); F. F. Shayn (light from stars); P. P. Dobronravina (spectra); I. B. Nikolov, associate at Pulkovo Observatory, A. A. Kalinyak, and V. I. Krasovskiy (study of Stellar infrared rays by means of electron-optical converters); I. S. Shlovskiy (theoretical radioastronomy); V. A. Adartsumyan (red giants); Prof B. A. Vorontsov-Vel'yarin (interstellar gas blown from the surface of hot stars); G. A. Louin and A. E. Severn (spectroheliograph designs); A. B. Gil'varg (light filters); E. R. Kustel (chromospheric outbursts); D. D. Faksutov, Corr-Len Acad Sci USSR (studies with meniscus telescope-reflector system and coronagraph).

252T56

AMBARTSUNYAN, Y. A.

Protostars. Dokl. AN Arm. SSR. 16 no.4:97-102 '53.
(MLRA 9:10)

1. Deystvitel'nyy ohlen Akademii nauk Armyanskoy SSR. 2. Byurakan-
skaya astrofizicheskaya observatoriya Akademii nauk Armyanskoy SSR.
(Stars--Clusters)

AMBARTSUMYAN, V. A.

Stellar Astronomy, Stellar Clusters and Associations (1734)

Dokl. AN Arm. SSR, Vol 16, No 3, 1953, pp 73-76

AMBARTSUMYAN, V. A.

"Cold Supergiants in O-Associations" Describes the results of author's study of 14 similar variables of spectral class M, undertaken to determine the mutual interrelations between cold supergiants which are part of the makeup of associations of hot giants.

SO: Referativnyy Zhurnal--Astronomiya i Geodeziya, No 1, Jan 54; (W-30785, 28 July 1954.)

AMBARTSUMYAN, V.A., akademik.

Problem of the creation of stars in view of new works of Soviet
astrophysicists. Vest.AN SSSR 23 no.12:49-60 D '53. (MLRA 6:12)
(Astrophysics)

AMBARTSUMYAN, V. A.

USSR/Astronomy - Association

21 Jun 53

"O-Association in Scorpio and its Instability," I. M. Kopylov, Crimean
Astrophys Observatory, Acad Sci USSR

DAN SSSR, Vol 90, No 6, pp 975-978

Discovery by V. A. Ambartsumyan of a new type of stellar association (V. A. Ambartsumyan, *Evolutsiya Zvezd i Astrofizika* [Evolution of Stars and Astrophysics], Yerevan 1947; *Astr Zhur* 26,3 (1949); *Izv AN SSSR, Ser Fiz* 14 (1950) stimulated study of spatial distribution, structure and kinematics of groups of hot stars. Author studies association of hot giants around open cluster NGC 6231 in Scorpio. Presented by Acad G. A. Shayn, 18 Apr 53.

269T48

3131 AMBARTSUMYAN, V. A.

Kosmogoniya. Yerevan, Izo-vo Yerevanskogo UN-Ta. 1954 - 26 s. s ill.
20 sm. (Ye revanskiya gos. Un-t im. V. M. Molotova 3.000 ekz. 35 k Na
2 rm. Yaz. - (54.56773)

AMBARTSUMYAN, V. A.

ABRATSUMYAN, V. A.

[Multiple systems of the type of the Trapezium of Orion]
Kratnye sistemy tipa trapetsii. Erevan, 1954. 35 p. (Byurakan.
Observatoriia. Soobshcheniia, no.15) (MIRA 8:9)
(Stars--Clusters)

AMBARTSUMYAN, V.A., akademik, redaktor; GINZBURG, V.L., redaktor; LEYKIN, G.A., kandidat fiziko-matematicheskikh nauk, redaktor; MASSEVICH, A.G., kandidat fiziko-matematicheskikh nauk, redaktor; TERLETSKIY, Ya.P., doktor fiziko-matematicheskikh nauk, redaktor; SHKLOVSKIY, I.S., doktor fiziko-matematicheskikh nauk, redaktor; FRADKIN, M.I., redaktor; ALEKSEYEVA, T.V., tekhnicheskiiy redaktor.

[Transactions of the Third Conference on Problems of Cosmogony, May 14-15, 1953. Origin of cosmic rays] Trudy...soveshchaniia...14-15 maia 1953 g.; proiskhozhdenie kosmicheskikh luchei. Moskva, Izd-vo Akademii nauk SSSR, 1954. 319 p. (MIRA 8:4)

1. Chlen-korrespondent AN SSSR (for Ginzburg).
(Cosmic rays)

AMBARTSUMYAN, V.A.; MARKARYAN, B.Ye., otvetstvennyy redaktor.

Phenomenon of discontinuous emission and sources of stellar
energy. Soob.Biur.obser. no.13:3-35 '54. (MLBA 8:1)
(Stars--Radiation) (Stars, Variable)

AMEARTSUMYAN, V. A.

"On the Origin of Stars," Memoires de la Societe Royale des Sciences de
Liege, Vol. 14, Special Number, pp 293-300, 1954

AMBARTSUMYAN, V.A., akademik, redaktor; MUSTEL', E.R., redaktor;
PARENAGO P.P., redaktor; KUKARKIN, B.V., doktor fiziko-mate-
maticsikh nauk; MARTYNOV, D.Ya., doktor fiziko-matemati-
cheskikh nauk, redaktor; MASEVICH, A.G. kandidat fiziko-
matematicheskikh nauk, redaktor; LEYKIN, G.A. kandidat
fiziko-matematicheskikh nauk, redaktor; YEFREMOV, Yu.I.,
redaktor; POLYAKOVA, T.V., tekhnicheskij redaktor.

[Transactions of the Fourth Conference on Problems of Cosmogony;
non-stationary stars] Trudy chetvertogo soveshchania po voprosam
kosmogonii; nestatsionnarye svezdy. Moskva, Izd-vo Akademii nauk
SSSR, 1955. 512 p. (MLRA 8:12)

1. Chlen-korrespondent AN SSSR (for Mustel' and Parenago)
2. Soveshchaniye po voprosam kosmogonii. 4th Moscow, 1954.
(Stars)

AMBARTSUMYAN, V.A.

Nature of comet-shaped nebulae. Vop.kosm.4:76-86 '55. (MIRA 9:4)
(Nebulae)

AMBARTSUNYAN, VIKTOR AMAZASPOVICH

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AMBARTSUMYAN, VIKTOR AMAZASPOVICH

THE SCATTERING OF LIGHT IN PLANETARY ATMOSPHERES. TRANSLATED BY R. E. KALABA.
T-63. SANTA MONICA, CALIF., RAND CORP., 1956.

26 L. TABLES.

TRANSLATION OF SECTION 33 OF HIS "TEORETICHESKAYA ASTROFIZIKA."

CONTROL NO. V-6946.

AMBARTSUMYAN V.A.

"Explanation of physical phenomena originating in nonstationary stars",
a paper presented at the Conference on Nonstationary stars held at the
Byurakan Astrophysics Observatory of the Academy of Sciences Armenian
SSR from September 20-23 1956.

Sum. 1287

AMBARTSUMYAN, V.A.

Multiple galaxies. Izv. AN Arm. SSR, Ser. FMET nauk 9 no.1:23-43 '56.
(MLRA 9:8)

1. Byurakanskaya astrofizicheskaya observatoriya AN Armyanskoy SSR.
(Stars)

Category : USSR/Radiophysics - Application of radiophysical methods

I-12

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 1996

Author : Ambartsumyan, V.A.

Title : ~~Concerning~~ the Nature of Sources of Radio Waves

Orig Pub : Tr. 5-go soveshchaniya po vopr. kosmogonii. 1955. M., AN SSSR, 1956, 413-416, diskus. 416

Abstract : The little likelihood that central galactic collisions would be observed without observing peripheral collisions, makes it doubtful that the object, identified with the source Cygnus-A, can be interpreted as a collision of two galaxies. The presence of two galactic nuclei in the region of the Cygnus-A source can be interpreted as a flying-apart of galaxies, formed by splitting of some initial body into two.

Card : 1/1

AMBARTSUMYAN, V.A.

"To the Problem on the Mechanism of the Origin of Stars in Stellar Associations," 6 p.
paper presented at Third Symposium on Cosmical Gas Dynamics, Cambridge, (Mass.), 24 - 29 June 1957.

Trans. Available
B-3,101,240, 1 Apr 58