

21

PROCESSES AND PROPERTIES INDEX

**CA**  
**OZERKIY, G.M.**

Obtaining crystalline naphthalene. G. M. Ozerkiy.

*Chem. & Ind. (U. S. S. R.)* 6, Nos. 2-3, 47-63 (1936); *Chimie & Industrie* 57, 51.—Unredistd. and undried crude  $C_{10}H_8$  cannot be compressed. The best method consists in pressing recrysd. and centrifuged  $C_{10}H_8$ . The pressure need not exceed 350 atm.; there is obtained a product that crystallizes at 79°. The max. crystn. temp. that can be obtained by such treatment of  $C_{10}H_8$  is 79.8°. Of the chem. purification processes, acid washing is the only one that raises the crystn. temp.; alk. washing has no effect in this respect. Distn. at atm. pressure raises the crystn. temp. 0.1° as compared with distn. in vacuum; but the loss of  $C_{10}H_8$  is greater, the time required longer, and the proportion of residue higher, so that vacuum distn. is more rational. A. Papineau-Couture

E-2

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

GROUP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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KARMANOV, I.A.; BULATOV, A.I.; GAYVORONSKIY, V.V.; OZERKOV, S.A.

Investigating the thickening of cement grouting at high temperatures and pressures. Burenie no.7:23-27 '65. (MIRA 18:12)

1. Krasnodarskiy filial Vsescyuznogo neftegazovogo nauchno-issledovatel'skogo instituta.

*OZERKOVICH, M.I.*

OZERKOVICH, M.I.; ANSEROV, M.A., kandidat tekhnicheskikh nauk, dotsent.

[Individual lathe worker's business accounting] Individual'nyi khozraschet tokaria. Pod red. M.A.Anserova. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1953. 30 p. (Biblioteka tokaria-novatora, no.11) (MLRA 7:4)  
(Turning)

ANSEROV, Mikhail Alekseyevich; VELIKANOV, Karp Mironovich; OZERKOVICH, Mikhail Izrailevich; ANSEROV, M.A., kand.tekhn.neuk, dotsent, red.; VAKSER, D.B., dotsent, retsenzent; BORODULINA, I.A., red. izd-va; POL'SKAYA, R.G., tekhn.red.

[Increasing labor productivity and lowering production costs in lathe work] Povyshenie proizvoditel'nosti truda i snizhenie zatrat pri tokarnoi obrabotke. Pod obshchei red. M.A. Anserova. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1958. 93 p. (Bibliotekha tokaria-novatora, no.1) (MIRA 12:1)  
(Labor productivity) (Turning)

SOV-3-58-8-9/26

AUTHOR: Oyzerman, T.I., Professor, Doctor of Philosophical Sciences

TITLE: ~~The Present~~ Bourgeois Ideology and Revisionism (Sovremennaya burzhuaznaya ideologiya i revizionizm)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 8, pp 37 - 46 (USSR)

ABSTRACT: The article is based on the author's lecture on the criticism of the current philosophical revisionism, delivered at the Intervuz Scientific Conference which took place in Moscow from 27 to 31 May 1958. The author points out that modern revisionism carefully disguises its kindred connections to the ideology of imperialistic bourgeoisie. Therefore, the exposure of the ideological unity of the present day revisionism with the modern bourgeois ideology should be the starting point for criticism of this pseudo-socialistic ideology. The author shows how the unity of bourgeois ideology and revisionism manifests itself. He refers to the so called "middle road" - a concept advocated primarily by Catholic philosophy and sociology and culminating in the Vatican's doctrine of neither capitalism, nor socialism, but the "middle", the Christian, road. The author enters on a controversy with the well known pragmatist Sidney Hook and Jules Moch, and points out that the

Card 1/2

LESHCHINSKIY, M.Yu. [Leshchyns'kyi, M.IU.] (Moskva); OYZERMAN, V.I. (Moskva)

Effect of a surface-active medium on the strength characteristics  
of porous bodies [with summary in English]. *Prykl. mekh.* 5 no.1:92-101  
'59. (MIRA 12:6)

(Strength of materials)

OZERININ, V. N.

AID Nr. 966-12 14 May

## EFFECT OF DOWNWASH BEHIND WING ON LIFT OF STABILIZER (USSR)

Ozerinin, V. N. Izvestiya vysshikh uchebnykh zavedeniy. Avlatsionnaya tekhnika, no. 1, 1963, 157-166. S/147/63/000/001/019/020

An approximate method is presented for determining the aerodynamic properties of a stabilizer whose span is greater than that of the wing. Schematic drawings of the system and a U-shaped vortex vector field are given. A wing of a finite span is considered as a vortex sheet, which consists of a system of bound and free vortices that can be replaced by a U-shaped vortex field. The bound circulation is determined as a function of wing lift, and an expression for the vertical component of the induced velocity at  $M > 1$  is derived and computed along the x-axis. Studies of the downwash behind a wing and of a wing--cylindrical body combination are presented. An analytical method is used to calculate the lift coefficient of a stabilizer on a cylindrical body in the range of  $M$  from 0.15 to 1.7. It is stated that the results can be applied to preliminary calculations in designing aircraft for operation at up to  $M = 2$ .

[ANB]

Card 1/1



OZERNAYA, Z. A., CAND MED SCI, "NEW MODIFICATION OF OPERATIONS IN PROLAPSE OF <sup>the</sup> FEMALE GENITAL ORGANS AND THE EXPERIENCE <sup>in</sup> INDUSTRIAL ENTERPRISES <sup>of</sup> SEMIPALATINSK IN SANITATION FOR WOMEN SUFFERING FROM ~~THESE DISEASES~~ <sup>this ailment</sup>." TOMSK, 1960. (TOMSK STATE MED INST). (KL, 2-61, 218).

-268-

OZERNAYA, Z.A.

New modification of surgery in prolapse and ptoses of the female genitalia. Akush.i gin. 36 no.1:106-107 Ja-F '60.

(MIRA 13:10)

(UTERUS—SURGERY)

PINS'KIY, A.; ~~OZERNIKH, S.~~ DENISENKO, L., veduchiy redaktor; NOVIK, O.,  
tekhnichniy redaktor

[New working methods of Spinner O.IE.IEvvlakh] Novi robochi prylomy  
priadyl'nytsi O.IE IEvvlakh. Kyiv. Derzh.vyd-vo tekhn. lit-ry URSR.  
1956. 15 p. (MLRA 10:4)  
(Spinning)

SPORYAGINA, Ye.A.; OZERNIKOVA, B.I.; TOCHILINA, L.P.

Effect of the number and diameter of spinneret orifices on the  
physical and mechanical indices of cord fiber. Khim.volokn. no.1:  
68-69 '61. (MIRA 14:

1. Barnaul'skiy zavod.  
(Rayon spinning)

POPOVICH, L.N.; OZERNIKOVA, B.I.

Increasing the weight of the take-up package. Khim. volok.  
no.2:66-67 '65. (MIRA 18:6)

1. Barnaul'skiy kombinat.

SPIVAK, M.S., glavnyy redaktor; BILOZUB, V.G., redaktor; VASILENKO, P.M., redaktor; ZORIN, I.G., redaktor; IL'CHENKO, I.K., redaktor; KOVAL', O.G., redaktor; KRILOV, O.F., redaktor; PUKHAL'S'KIY, A.F., redaktor; SIDORENKO, O.P., redaktor; FEDCHENKO, O.N., redaktor; ANGELINA, P.M., redaktor; BUZANOV, I.F., redaktor; BOYKO, D.V., redaktor; BURKATS'KA, G.E., redaktor; VASILENKO, A.O., redaktor; VIASYUK, P.A., redaktor; GORODNIY, M.G., redaktor; DEMIDENKO, T.T., redaktor; DUBKOVETS'KIY, F.I., redaktor; KIRICHENKO, F.G., redaktor; LITOVCHENKO, G.P., redaktor; OZERNIY, M.O., redaktor; PERSHIN, P.M., redaktor; POPOV, F.A., redaktor; POSMITNIY, M.O., redaktor; PSHENICHNIY, P.D., redaktor; RADCHENKO, B.P., redaktor; POMANENKO, S.S., redaktor; RUBIN, S.S., redaktor; SAVCHENKO, M.Kh., redaktor; SOKOLOVS'KIY, O.N., redaktor; TSIBENKO, K.O., redaktor; SHCHERBINA, O.P., redaktor; KRAVCHENKO, M.F., tekhnichnyi redaktor

[Collective farm encyclopedia] Kolhospna vyrobnycha ensyklopedia.  
Vyd. 2-e, perer. i dop. Kyiv, Derzh.vyd-vo sil's'kohospodars'koi  
lit-ry URSS. Vol.1. Abrykos - Liutserna. 1956. 756 p. (MIRA 9:9)  
(Agriculture--Encyclopedias and dictionaries)

*Sud Abstract*

*Natural Solid Fuels - A.  
10/1952*

3103. MINING ELECTRO-TECHNIQUES (GORNAYA ELEKTROTEKHNIKA).  
Ozernoi, M.I. (Moscow: Ugletekhizdat, 1951, 483pp., title in  
Recent Accessions, Brit. Museum).

VOL'FSON, I.M.; YELIZAROV, V.S.; LOPATITSKIY, A.O.; OZERNOV, L.A.;  
TRIFONOVA, M.A.

Aerodynamic study of the operation of plane and annular cascades  
with TS-2A profiles developed by the Moscow Institute of Power  
Engineering. Trudy MEI no.47:31-36 '63. (MIRA 17:1)



LOPATITSKIY, A.O., inzh.; OZERNOV, L.A., inzh.

Study of a standard medium-pressure stage at the Leningrad Metal-  
working Plant. Teploenergetika. 13 no.1:58-63 Ja '65.

(MIRA 18:4)

1. Leningradskiy metallicheskiy zavod.

GZERNCV, M.S.

▲ house made of plastic materials. Nauka i zhizn' 25 no. 6:4-5  
'58. (MIRA 11:8)

1. Glavnyy inzhener magistr'al'noy masterskoy No. 6 instituta  
"Mosproyekt."

(Plastics)  
(Architecture, Domestic)



OZERNOVA, E.G.,  
A. G. TERENTEV, USSR 65,980, Mar. 31, 1946.

PAK'KOVA, M.M.; OZERNOVA, Ye.G.

Neutralization of vegetable oils. Patent U.S.S.R. 77,359, Dec.31, 1949.  
(CA 47 no.19:10254 '53)

GINZBURG, V.L.; OZERNOY, L.M.; SYROVATSKIY, S.I.

Mechanism of the emission of galaxy 3C 273-B. Astron.tsir.  
no.267:1-4 0 '63. (MIRA 17:4)

1. Fizicheskii institut imeni P.N.Lebedeva AN SSSR.

L 13077-63 EWT(1)/BDS AFPTC/ASD PI-4 IJP(C)

ACCESSION NR: AP3002869

S/0020/63/150/005/1019/1021

AUTHOR: Novikov, I. D.; Ozernoy, L. M.

61  
56

TITLE: Light propagation inside and outside the singular Schwarzschild sphere

SOURCE: AN SSSR, Doklady\*, v. 150, no. 5, 1963, 1019-1021

TOPIC TAGS: light propagation, Schwarzschild sphere, general relativity theory, cosmology, metagalactics, gravitational field

ABSTRACT: The work deals with cosmological applications of the general relativity theory, and in particular, with light propagation in a strong gravitational field of spherical symmetry. The authors are solving the problem of how an observer outside the singular sphere sees the surface of the gravitating ball. Lemaitre's metric is used. The trajectories obtained for the light rays permit the solution of the problem of the appearance of a body if the movement (expansion) of its radiating surface is known. The problem is solved for the special case of parabolic expansion. The results can also be used for the computation of metagalactic or superdense configurations, also in neutrino cosmogony, dealing with the emission of neutrinos during explosions of superdense bodies. "The

Card 1/2

I 13077-63

ACCESSION NR: AP3002869

5  
authors express their deep appreciation to Academician Ya. B. Zel'dovich for the discussion of results, and also to O. P. Komarov and Ye. P. Kalinina for the help with calculations". The paper was presented by Academician Ya. B. Zel'dovich on 16 Jan 1963. Orig. art. has: 2 equations and 1 figure.

ASSOCIATION: Gosudarstvennyy astronomicheskiy institut im. P. K. Shternberga  
(State Astronomical Institute); Moskovskiy gosudarstvennyy universitet im.  
M. V. Lomonosova (Moscow State University)

SUBMITTED: 05Jan63

DATE ACQ. 15Jul63

ENCL: 00

SUB CODE: PH, AS

NO REF SOV: 003

OTHER: 002

Card 2/2



OZERNOY, L.M.

Gravitational stability of some classes of nonhomogeneous media. Soob. GAIKH no.133:19-27 '64.

Theory of the rotation of a gravitating gas magnetic medium.  
Ibid.:28-36 (MIRA 17:8)

L 31359-65 EWT(1)/ENG(v)/ETC(t) Pa-5/Pse-2 CA

ACCESSION NR: AR5005092

S/0269/65/000/001/0096/0096

SOURCE: Ref. zh. Astronomiya. Otd vyp., Abs. 1.51.677

31  
B

AUTHOR: Ozerncy, L. M.

TITLE: Contribution to the theory of rotation of a gravitating gas-magnetic medium

CITED SOURCE: Soobshch. Gos. astron. in-ta im. P. K. Shternberga, no. 133, 1964, 28-36

TOPIC TAGS: gravitation, gasmagnetic medium, Coriolis force, centrifugal force, astrodynamics, galactic nebula, gravitation field

TRANSLATION: An equation of motion is derived for the specific volume of matter in a non-uniformly rotating reference frame. It is shown that the correction to the Coriolis and to the centrifugal forces, necessitated by the non-uniform character of the rotation is

Card 1/2

L 31359-65

ACCESSION NR: AR5005092

of the form

$$(\vec{\lambda} - A)(r \times (\Omega \times r) + v).$$

where

$$\vec{\lambda} = \frac{1}{2} \left( \frac{d\Omega}{dr} + \nabla\Omega \right), \quad A = \frac{1}{2} \left( \frac{d\Omega}{dr} - \nabla\Omega \right).$$

The statistical equilibrium of a rotating medium situated in the magnetic field is considered. The equilibrium distribution of the density is obtained. In a state with maximum entropy, the angular velocity of the rotation does not depend on the distance. In this connection, the question is discussed of the law governing the rotation of the diffuse component of spiral and elliptic galaxies. Arguments are advanced in favor of the "rigid-body" character of rotation of the internal regions of the galaxies. L. Ozerncy.

SUB CODE: AA, GP

ENCL: 00

Card 2/2

L 8520-65 FBD/EST(1)/EWT(m)/EAG(v)/ECC-L/ECC(t) Pe-5/Pi-1/Pae-2 ESD/APWL/APWTR/  
ASD(a)-5/SSD/ECD(t)/DIAAP GW/WS  
ACCESSION NO: A14046585 S/0030/64/001/009/1050/0057

AUTHOR: Geofroy, L. M.

TITLE: Modern problems of astrophysics (Session of the Department of General and Applied Physics and the Department of Nuclear Physics) B

SOURCE: AN SSSR. Vestnik, no. 9, 1964, 50-57

TOPIC TAGS: astrophysics, galaxy, neutrino

ABSTRACT: This paper is chiefly a summary of the kind of work now being done in astrophysics as represented by papers at the indicated meeting. These papers cover the entire range of the field. V. A. Ambartsumyan reported on the evolution of galaxies and stated that within a few billion years the universe will be dominated by black holes. He also reported on the discovery of the Mg II line. Ya. B. Zel'dovich reported on the evolution and expansion of the universe. N. S. Kardashev discussed energy production, showing that a substantial part of falling matter during accretion is radiated away.

L 8530-65  
ACCESSION NR: AP4046585

10

in describing the nature of quasi-stellar radiation sources, considering them to be products of "anticollapse" (explosion). This idea caused lively discussion at the conference. S. V. Pikel'ner called attention to the fact that denial of the idea of compression does not remove but rather aggravates the difficulty of explaining radiation sources. The reports of G. T. Zatsepin and H. N. Pontokorvo discussed the promising aspects of neutrino astronomy and modern methods of recording streams of particles.

SUBMITTED: 00

PAGE: 01

OZERNOY, L.M.

Gravitational instability of filaments of gas-dust nebulae.  
Astron.zhur. 41 no.1:123-135 Jan-F '64. (MIRA 17-4)

1. Fizicheskij institut im. P.N. Lebedeva.

ACCESSION NR: AP4040843

S/0033/64/041/003/0494/0504

AUTHOR: Ozernoy, L. M.

TITLE: Gravitational instability of a nonhomogeneous plasma medium

SOURCE: Astronomicheskij zhurnal, v. 41, no. 3, 1964, 494-504

TOPIC TAGS: astrophysics, gravitational instability, plasma instability,  
plasma, nonhomogeneous plasma

ABSTRACT: The gravitational instability of a slightly nonhomogeneous plasma medium in an optical-geometrical approximation is discussed, and the dispersion equation of the problem is derived. The author determines the conditions under which there is an onset of gravitational instability in such a nonhomogeneous medium. Section 1 presents the derivation of the equation of gravitational instability of a nonhomogeneous medium. Section 2 considers the gravitational instability in a nonhomogeneous medium in the case of axially symmetric disturbances. Section 3 discusses magnetogravitational instability in the case of radial disturbances of a rotating nonhomogeneous axially symmetric system. The described method, free from the shortcomings of the "local analysis" method, permits generalization in the case of a three-dimensional nonhomogeneity. In the presented

Card 1/2

11062-65 EWT(1)/EWG(v)/EEC(t) Pa-5/Pae-2 BSD/AFMD(t)/AFETP/ASI(a)-5/ESD(t)  
GW  
ACCESSION NR: AP4046422 B/0055/64/047/003/1030/1040

AUTHORS: Ginzburg, V. L.; Ozernoy, L. M.

TITLE: On the gravitational collapse of a magnetic star B

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47,  
no. 3, 1964, 1030-1040

TOPIC TAGS: star, magnetic star, gravitation field, gravitational collapse

ABSTRACT: This is a continuation of an earlier paper by Ginzburg (DAN SSSR v. 156, No. 1, 43, 1964) in which it was pointed out that gravitational collapse of a star<sup>14</sup> having a magnetic energy small compared with the gravitational energy can lead to a tremendous increase in the magnetic field of the star (symmetrical spherical mass of gas). The star is assumed to have a dipole magnetic moment and high conductivity, so that the flux of the magnetic field through a

Card 1/2



L 11062-65

ACCESSION NR: AP4046422

material contour is conserved. Arguments are presented in favor of assuming that the gravitational collapse is responsible for the appearance of radio galaxies and superstars (such as 3C273-B, 3C48, etc.). The possible existence of an atmosphere or a magnetosphere surrounding such a star, and its effect on the radiation from the star, are also briefly discussed. Orig. art. has: 38 formulas.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute, Academy of Sciences SSSR)

SUBMITTED: 31Mar64

ENCL: 00

SUB CODE: AA

NR REF SOV: 011

OTHER: 004

Card 2/2

OPERNY, I.M.

New values for physical constants. Usp.fiz.nauk. 84 no.1:191-  
194 S '64. (MIRA 17:10)

ACCESSION NR: AP4013323

S/0020/64/154/003/0557/0560

AUTHORS: Ginzburg, V.L. (Corresponding member); Ozernoy, L.M.;  
Sy\*rovatskiy, S.I.

TITLE: On the radiation mechanism of galaxy 3C 273-B

SOURCE: AN SSSR. Doklady\*, v. 154, no. 3, 1964, 557-560

TOPIC TAGS: extragalactic, radiation source 3C 273-B, metagalactic object, optical radiation, bremsstrahlung, luminosity, Compton loss, free-free transition, bound-free transition, relativistic electron, photon, visible frequency

ABSTRACT: The extragalactic radiation source 3C 273-B, identified as an emissive star-shaped object of the 12th magnitude (M. Schmidt, Nature, 197, 1040/1963/), is one of the recently discovered new types of metagalactic objects. The exceptionally high luminosity and irregular changes in the brilliance of that galaxy are indicative of an unusual nature of the radiating object. The latter is

Card 1/3

ACCESSION NR: AP4013323

probably a "super star" rather than a cluster of stars, but the word "galaxy" is used here for want of a better term. It would be interesting to find out whether the continuous optical radiation from the galaxy 3C 273-B is due to magnetic bremsstrahlung. The optical radiation of galaxy 3C 273-B is not polarized, and could therefore easily be characterized also as non-magnetic bremsstrahlung. A contrary assumption would of course be wrong inasmuch as magnetic bremsstrahlung can, for a number of reasons, be completely depolarized. If the radiation from the object is of a braking nature (free-free and bound-free transitions), it cannot be considered as black body radiation in view of its spectral characteristics. Although the possibility of the bremsstrahlung nature of the mentioned radiation is not excluded, the spectrum of the other star-shaped extragalactic sources makes such a hypothesis considerably less probable (in the opinion of I. Shlovskiy). Orig. art. has: 11 formulas and 1 table.

ASSOCIATION: Fizicheskiy institut im. P.N. Lebedeva Akademii nauk

Card 2/3

ACCESSION NR: AP4013323

SSSR (The P.N. Lebedev Physics Institute, Academy of Sciences SSSR)

SUBMITTED: 10Oct63

DATE ACQ: 26Feb64

ENCL: 00

SUB CODE: PH

NO REF SOV: 002

OTHER: 009

Card 3/3

OZERNOY, L.M.

Magnetic bremsstrahlung in a variable field as the mechanism of the  
varying luminosity of quasar radio sources. Dokl. AN SSSR 163 no.1:  
54-57 J1 '65. (MIRA 18:7)

I. Fizicheskii institut im. P.N.Lebadeva AN SSSR. Submitted December 30,  
1964.

65202-55 SWP(3) TJP(c) GW

ACCESSION NR: AP5021733

UR/0366/65/002/002/0083/0087

AUTHOR: Ozernov, I. M.

16  
14  
E

TITLE: On gravitational radiation of explosive origin

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniya, v. 2, no. 2, 1965, 93-97

TOPIC TAGS: gravitation wave, general relativity theory, quasar, nova, supernova

ABSTRACT: One of the leading trends in the present development of the general theory of relativity is the search for new experiments to verify the theory. Among these are experiments to generate and detect gravitational waves. The author attempts to approximate the strength of gravitational radiation generated by explosive dispersion of matter during various natural cataclysms. The surface bounding the exploding masses is assumed to be a cone with a fixed aperture angle, while the density of the exploding matter is independent of the coordinates and is a function of time. Gravitational radiation from explosion of a spherically shell is considered. The flux of gravitational radiation at the surface of the earth from quasar 3C 273 is estimated at  $10^{10}$  erg/cm<sup>2</sup>.sec. As an example of gravitational

Card 1/2

L 65202-65  
ACCESSION NR: AP5021733

2

radiation from galactic explosions, M82 (NGC 3034) is considered. It is estimated that the flux of gravitational radiation at the surface of the earth from this source is  $t_{07} = 10^{-13}$  erg/cm<sup>2</sup>.sec. NGC 4486 is taken as an example of gravitational radiation from stellar collisions in radiogalactic nuclei. The flux of gravitational radiation from this source at the surface of the earth is estimated at  $t_{07} = 10^{-11}$  erg/cm<sup>2</sup>.sec. The author also considers gravitational radiation from the explosion of novas and supernovas. Orig. art. has 2 equations.

ASSOCIATION: Fizicheskiy Institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute, Academy of Sciences SSSR)

SUBMITTED: 31May65

ENCL: 00

SUB CODE: GP, AA

NO REF SOV: 007

OTHER: 000

*MR*  
Card 2/2



GINEBURG, V.L.; OZERNOY, I.M.

Temperature of the intergalactic gas. *Astros.zhur.* 12 no.5:913-958  
SLO '65. (MIRA 18:10)

1. Fizicheskij institut im. P.N.Jebodeva AN SSSR.

GINZBURG, V.L.; OZERNOY, L.M.; SYROVATSKIY, S.I.

Relativistic electrons in the galaxy M32. Izv. AN SSSR. Ser. fiz.  
29 no.10:1825-1829 0 '65. (MIRA 18:10)

1. Fizicheskiy institut im. P.N.Lebedeva AN SSSR.

OZERNOY, L.M.; CHERTOPRUD, V. Ye.

Statistical characteristics of the optical variability of the  
quasi-stellar radio source 3C 273. Astron. zhur, 43 no. 1:20-33  
Ja-F '66 (MIRA 1982)

1. Fizicheskiy institut imeni P.N. Lebedeva AN SSSR i Gosudarst-  
vennyy astronomicheskiy institut imeni P.K. Shternberga. Submitted  
June 29, 1965.

L 25773-66 - EWI(1) GW

ACC NR: AP6016379

SOURCE CODE: UR/0048/65/029/010/1825/1829

AUTHOR: Ginzburg, V. L.; Ozernoy, L. M.; Syrovatskiy, S. I.

34  
B

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

TITLE: Relativistic electrons in the M82 galaxy } 2

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 10, 1965, 1825-1829

TOPIC TAGS: galaxy, relativistic electron, hot star, Compton effect, bremsstrahlung, pi meson, nebula/M82 galaxy

ABSTRACT: The galaxy M82 (also called NGC 3034 and 3C 231), which is part of the Ursus Major group, is of special interest, since its relatively close position makes possible a comparatively detailed study of the nonsteady-state (explosion) stage of galactic development. It belongs in a special subclass of irregular galaxies whose members are characterized by an anomalously red light, high luminosity, considerable quantities of dusty matter with floccular structure, and the absence of high-luminosity hot stars. In this connection, the authors present formulas for calculating the energies and energy losses of the relativistic electrons in this galaxy - particularly with respect to the total energy of the light-emitting relativistic electrons, the energy losses due

2

Card 1/2

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to the Compton effect, and the energy losses due to magnetic bremsstrahlung. It is shown that the total flux of Compton  $\gamma$ -rays from M82 equals the Compton losses. An evaluation of the bremsstrahlung flux of  $\gamma$ -rays due to the decay of  $\pi^0$ -mesons and bremsstrahlung is presented. The magnetic X-ray bremsstrahlung of M82 is evaluated on the assumption that the optical spectral index of M82 is close to the optical index  $\alpha = 1.5$  of the Crab Nebula, which is correct only up to the frequency  $\nu = 10^{16}$  cps. Orig. art. has:

12 formulas. [JPRS]

SUB CODE: 03, 20 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 012

Card 2/2 CV

L 32027-66 FBD/EWT(1) GW/WS-2

ACC NR: AP6020643

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AUTHOR: Ozernoy, L. M.

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

TITLE: Theory of the formation and structure of quasistellar radio sources [This paper was presented at the Second Soviet Gravitational Conference at Tbilisi in April, 1965.]

SOURCE: Astronomicheskij zhurnal, v. 43, no. 2, 1966, 300-312

TOPIC TAGS: quasar, magnetic field, space matter, stellar radiation, energy theory.

ABSTRACT: A number of problems relating to the nature of quasars are considered qualitatively. A hypothesis is developed that the central regions of quasars, like galactic nuclei, at a certain stage of development are massive diffuse formations with large magnetic fields and turbulent motions. The preceding state (about which little is yet known) of strong deviation of matter from thermodynamic equilibrium perhaps passes into a stage of random motion in which the elimination of a nonequilibrium state occurs effectively by turbulent transfer processes. In developing an idealized model of the varied phenomena transpiring in galactic nuclei and especially in the central parts of quasars consideration is given to a quasi-stationary configuration, at whose equilibrium an important role is played by the magnetic field. Such a configuration is called a "magnetoid". In the last analysis the source of the powerful emission of quasars is gravitational energy released in

Card 1/2

UDC: 523.164.001

OZERNOY, M.I., dotsent, kandidat tekhnicheskikh nauk.

[Problems in new techniques of underground electric equipment for mines]  
Voprosy novoi tekhniki podzemnogo gornogo elektrooborudovaniia. Iz teikla  
"Novosti gornoi tekhniki." Moskva, Ugletekhizdat, 1954. 43 p. (MLRA 7:6)  
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2945. PROBLEMS OF MODERN TECHNOLOGY OF UNDERGROUND ELECTRICAL PLANT IN MINES. Ozernoi, M. I. Moscow; Uspitekhizdat, 1954, 11pp. J. The booklet deals with recent developments and progress in various branches of supply and **FU**



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YELANCHIK, G.M.; ALATORTSEV, S.A.; GLADILIN, L.V.; RYS'YEV, A.V.;  
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F.N. Shkliarskii; obituary. Elektrichestvo no.5:95 My '56.  
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[Electric engineering for mines] Gornaya elektrotehnika. Izd.  
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Experimental investigation of electrical parameters of mine railroad chains. Izv.vys.ucheb.zav.; gor.zhur. no.3:86-97 '58,  
(MIRA 12:8)

1. Moskovskiy gornyy institut.  
(Mine railroads) (Electricity in mining)

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ALEKSANDROV, B.F., inzh.; BALKOV, V.M., inzh.; BARANOVSKIY, F.I., inzh.;  
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(Continued on next card)

ALEKSANDROV, B.F.---(continued) Card 2.

BELYAYEV, V.S., inzh., red.; BUKHANOVA, L.I., inzh., red.; VLASOV, V.M., inzh., red.; GLADILIN, L.V., prof., doktor tekhn.nauk, red.; GREBTSOV, N.V., inzh., red.; GRECHISHKIN, F.G., inzh., red.; GONCHAREVICH, I.F., kand.tekhn.nauk, red.; GUDALOV, V.P., kand.tekhn.nauk, red.; IGNATOV, N.N., inzh., red.; LOMAKIN, S.M., dotsent, kand.tekhn.nauk, red.; MARTYNOV, M.V., dotsent, kand.tekhn.nauk, red.; POVOLOTSKIY, I.A., inzh., red.; SVETLICHNYY, P.L., inzh., red.; SAL'TSEVICH, L.A., kand.tekhn.nauk, red.; SPERANTOV, A.V., kand.tekhn.nauk, red.; SHETLER, G.A., inzh., red.; ABARBARCHUK, F.I., red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

[Mining; an encyclopedic handbook] Gornoe delo; entsiklopedicheski spravochnik. Glav.red.A.M.Terpigorev. Chleny glav.redaktsii A.I. Baranov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.7. [Mining machinery] Gornye mashiny. Redkol.toma A.V.Topchiev i dr. 1959. 638 p. (Mining machinery) (MIRA 13:1)

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Protection of electric detonators from lightning and electromagnetic radiation. Gor. zhur. no.9:29-33 S '61. (MIRA 16:7)

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1. Moskovskiy gornyy institut.  
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Azarkovich, A. Ye. Connecting Electric Detonators in Parallel When Detonating With A Condenser	44
Strausman, R. Ya. Network Layouts When Blasting With a Current of Limited Capacity	51
Azarkovich, V. Ye. Doubling Electric Detonating Networks [With Backup Network]	59
Ozernoy, M. I. Protecting Electric Detonators From Premature Firing by Stray Currents	66
Ruchkin, N. M., and R. Ya. Strausman. Electric Detonating in Stray-Current Danger Zones	87
Kushnarev, D. M., and V. P. Pavlov. Investigation of the Danger of Stray Currents When Using Electric Detonators With Nichrome Incandescent Bridges	92

Card 4/6

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1. Moskovskiy gornyy institut.  
(Detonators)

LUR'YE, Aron Isaakovich; OZERNOY, M.I., prof., retsenzent;  
ASSONOV, V.A., kand. tekhn. nauk, otv. red.; RATNIKOVA,  
A.P., red.izd-va; KOROLEVA, T.I., red.izd-va;  
PROZOROVSKAYA, V.L., tekhn. red.; LOMILINA, L.N., tekhn.red.

[Electric detonation of charges] Elektricheskoe vzryvanie  
zariadov. Izd.2., perer. i dop. Moskva, Gosgortekhnizdat,  
1963. 260 p. (MIRA 16:12)

(Blasting)

OZERNOY, M.I., prof.

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zhur. 6 no.11:136-143 '63. (MIRA 17:4)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki.

OZERNOY, M.I., prof.

Premature explosions of electric detonators by stray currents and means  
for their prevention. *Bezop.truda v prom.* 7 no.1:22-25 Ja '63.  
(MIRA 16:2)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki.  
(Detonators—Safety measures)

KHORUNZHIY, Valentin Alekseyevich; RIBAS, Yuriy Mikhaylovich  
[deceased]; AKKERMANN, Fridrikh Markovich; ARNOPOLIN,  
Aleksandr Grigor'yevich; PYATETSKIY, Grigoriy  
Yuzefovich; OZERNOY, M.I., prof., retsenezent

[Explosionproof, electrical mine equipment; a handbook]  
Rudnichnoe vzryvobezopasnoe elektrooborudovanie; spra-  
vochnik. Moskva, Nedra, 1964. 289 p. (MIRA 17:12)

OZERNYY, M.I., prof.; SOBOLEV, V.G., kand. tekhn. nauk

[Guide for the use of flexible mine cables; an aid for mine section mechanics and electricians] Rukovodstvo po ekspluatatsii shakhtnykh gibkikh kabelei; v pomoshch' shakhtnym uchastkovym mekhanikam i elektro-slesariam. Moskva, 1964. 31 p. (MIRA 18:1)

1. Karaganda. Nauchno-issledovatel'skiy ugol'nyy institut.

OZERNOY, M.I., prof.; YERMOSHIN, V.F., inzh.

Increase of the electrical conductivity of mine rail tracks.  
Ugol' 40 no.71-73 Ja '65. (MIRA 18:4)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki.



OZERNOY, V.M. (Moskva)

Conversion of logical algorithm networks using switching circuit  
models. Izv. AN SSSR. Tekh. kib. no.5:35-53 S-O '63.  
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OZERNOY, Vladimir Moiseyevich, aspirant

Synthesis of optimum control for d.c. motors with limitations in  
current and heating. Izv. vys. ucheb. zav.; elektromekh. 6  
no.9:1071-1079 '63. (MIRA 16:12)

1. Institut avtomatiki i telemekhaniki.

OZERNOY, V.M., inzh.

Program control systems for electric drives of clamping  
devices. Mekh. i avtom. proizv. 17 no.5:32-35 My '63.  
(MIRA 16:6)

(Electronic control)

15022

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D201/D308

16.6810

AUTHOR: Ozernoy, V. M.

TITLE: Synthesis of single-ended potential logic circuits

PERIODICAL: Avtomatika i telemekhanika, v. 24, no. 1, 1963, 104-107

TEXT: The author considers an algebraic method of synthesis of potential logic circuits from standard NOR elements and of selecting elements for designing the NOR or AND circuits. The standard element used is the NOR circuit of  $n$  variables with the operator  $N_n(x_1, x_2, \dots, x_n)$  such that  $N_n(0, \dots, 0) = 1$ ,  $N_n(1, \dots, 1) = 0$  and is not monotonic. Under these conditions  $N_n$  forms a complete system of functions and the synthesis of a logic  $[m, n]$ -pole, representing the system of  $n$  logic functions of  $m$  binary input variables reduces to representing the given logic functions as a superposition of elementary operators describing the operation of logic elements. Conditions can further be derived for this expression to correspond

Card 1/2

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AUTHOR: Ozerney, V. M. (Moscow)

TITLE: Minimizing the combination logical diagrams built from single-function elements

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 1, 1964, 32-35

TOPIC TAGS: logical diagram, combination logical diagram, combination logical diagram minimization, McCluskey algorithm, technical cybernetics

ABSTRACT: A method for minimizing the combination logical diagrams that consist of single-function (standardized) elements is described; they realize the negation of the disjunction of several variables. The method is based on a modification of the McCluskey algorithm (BSTJ, v. 35, no. 6, 1956) and permits minimizing the Scheffer functions of many variables without performing complicated operations in the Scheffer algebra; instead, binary codes are compared.

Card 1/2