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115-5-28/44

Microcalorimeters for Measuring Superhigh Frequency Power in 3-centimeter Range

ments and to decrease the errors, as well as to apply the isothermic microcalorimeters for other frequency ranges. A.I. Samoylovich is referred to as having creatively participated in work on the subject instruments. The article contains 2 drawings.

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Card 3/3

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PRONENKO, V.I.

9(6) PHASE I BOOK EXPLOITATION SOV/1369

Burdun, Grigoriy Dmitriyevich, Rafkat Amirkhanovich Valitov, Lev Nikolayevich Bryanskiy, Vitaliy Dmitriyevich Kukush, and Vitaliy Ivanovich Pronenko

Radioizmereniya na millimetrovykh volnakh (Measurement of Millimeter Radio Waves) Izd-vo Kharkovskogo univ-ta, 1958. 121 p. 5,000 copies printed.

Ed. (Title page): Burdun, G.D., Professor; Ed. (Inside book): M.I. Prokopenko,; Tech. Ed.: Ya.T. Chernyshenko.

PURPOSE: The book is intended as a textbook for engineering students taking a course in superhigh-frequency radio measurements. It may also be used by scientists and engineers working in the field of radio measurement and dealing with superhigh frequencies.

COVERAGE: The author discusses basic problems of radio measurement in the millimeter band. He describes the methods and instruments used in measuring wavelength, frequency, power, attenuation,

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impedance, voltage standing-wave ratio, dielectric constant, and magnetic permeability. Signal generators and spectrum analyzers are not discussed. The book is the first attempt to systematize the material on measurement in the millimeter band. No personalities are mentioned. There are 56 references, of which 22 are Soviet (including 3 translations), 28 English, 4 French, 1 German, and 1 Czech.

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AUTHORS: Pronenko, V.I., Belikov, Ye.N. SOV-115-58-4-35/45

TITLE: A Broad-Band Automatic Super-High Frequency Amplitude Stabilizer (Shirokopolosnyy avtomaticheskiy stabilizator svch moshchnosti)

PERIODICAL: Izmeritel'naya tekhnika, 1958, Nr 4, pp 81-84 (USSR)

ABSTRACT: Variations of a functional scheme for stabilizing the super-high frequency amplitude level are described. With this scheme existing generators may be used for various types of fine measurement. Details of an actual stabilizing system and equipment are given. Here a broad-band detector section is used for the measuring element, a battery with voltage divider for the reference voltage data-unit, a photo-compensator for the dc amplifier and an electro-mechanical attenuator for the executive mechanism. The detector sections operate in the bands 2.6-3.2 cm and 3.2-3.6 cm as amplitude indicators and have a transfer constant which varies with the frequency approximately from 10-13 db. Details of the individual

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SOV-115-58-4-35/45

A Broad-Band Automatic Super-High Frequency Amplitude Stabilizer

units and the functioning of the stabilizer are given. The stabilizer operates at amplitude levels of 10-100 mwt with a stabilization accuracy of ± 0.5 db. The stabilization factor is roughly 140. There are 2 diagrams, 1 graph, 1 photo and 1 American reference.

1. Frequency stabilizers--Design

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82825

S/115/60/000/007/009/011
B019/B058

9,3260

AUTHORS: Pronenko, V. I., Bryanskiy, L. N.

TITLE: An Instrument for Measuring the Standing Wave Ratio of a Generator 29

PERIODICAL: Izmeritel'naya tekhnika, 1960, No. 7, pp. 48 - 49

TEXT: When measuring the standing wave ratio of a generator, a method is used in most cases, in which the amplitudes of the standing waves are altered through a change of the phase relations between the basic and the harmonic waves, by changing the length of a wave guide, at one end of which the measuring instrument is attached and the second end of which is short-circuited. For the improvement and acceleration of the measuring process, it is necessary to change the electric length of the wave-guide circuit in the zone probe - generator, simultaneously maintaining the length of the zone probe - short circuit. These requirements can be met by using a phase shifter in the probe head or a phase shifter with a special mismatching section. The great demands made on this phase shifter are pointed out, and a simpler method is proposed

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An Instrument for Measuring the Standing Wave Ratio of a Generator

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next, in which a movable, contactless piston, short-circuiting the wave guide, is used. In its axis of symmetry, this piston has an opening, the diameter of which lies below the critical one. A piece of coaxial cable, one end of which is connected with the coupling loop and the other one with a broad-band detector chamber, is pushed through this opening. This arrangement is shown in Fig. 1. The measurement of the standing wave ratio is then discussed in detail and the advantages of the instrument are mentioned. The error is very small and the instrument can be used for the tuning of generators. There are 1 figure, 1 table, and 2 Soviet references.

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31840
S/194/61/000/010/065/082
D271/D301

26.2190

AUTHOR: Pronenko, V.I.

TITLE: Analysis of errors of a fluid flow microcalorimeter

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 21, abstract 10 I144 (Tr. In-tov Komta standartov, mer i izmerit. priborov pri Sov. Min. SSSR, 1960, no. 48, 24-41)

TEXT: The measurement errors of a fluid flow microcalorimeter are theoretically and experimentally studied; such microcalorimeters are used for measuring small microwave powers. The following partial errors of the microcalorimeter are considered: Error due to the instability of ambient temperature, error due to the lack of constancy in the fluid rate of flow, errors of the temperature drop indicator, error of the meter of the substituted power, errors due to the difference in thermal losses in microcalorimeter housing of the measured and substituted power, errors due to losses

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Analysis of errors...

in the input waveguide, and errors due to microwave power reflection at the input of the microcalorimeter. Recommendations on how to reduce errors are given on the basis of results obtained. In order to reduce errors due to the instability of temperature it is necessary to shorten the measuring period by decreasing thermal capacity of the housing, thermocouple mounting, etc; it is necessary to increase the flow of the liquid, to increase thermal capacity of the microcalorimeter and improve its thermal insulation, and to reduce the volume of liquid in the housing. In a model of a microcalorimeter built in accordance with the above recommendations, the indicated error does not exceed 10-20 mW when temperature changes at a constant rate of 1°C per 3 min. In order to reduce errors due to the lack of constancy in the fluid rate of flow it is necessary to stabilize pressure drops, to reduce the hydraulic resistance of the housing and to adjust the microcalorimeter for minimum error by means of adjustable hydraulic resistance. The reduction of errors due to the lack of equivalence of thermal losses is obtained by reducing thermal losses, by equalizing thermal losses and by finding

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Analysis of errors...

systematic errors through an investigation of temperature distribution in the housing. Recommendations are given regarding practical construction of individual parts of the microcalorimeter. An experimental determination of the mean-square error of a series of five measurements at power levels of 1.7-70 mW has shown that the disagreement with the analytical results is no more than 0.4%. 2 references. [Abstracter's note: Complete translation]

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PRONENKO, V.I.; SKUDNYY, B.N.

Specification of the characteristics of the MZ-1 (IM4-6) transistor low-power meter. Izm. tekh. no.3:51-52 Mr '65. (MIRA 18:5)

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L 9453-66 EWT(d)/EWT(1)/EEC(k)-2/EWA(h)

ACC NR: AP5025586

SOURCE CODE: UR/0115/65/000/009/0044/0047

AUTHOR: Pronenko, V. I.

ORG: none

36
B

TITLE: Wide-band calorimetric shf power meter

SOURCE: Izmeritel'naya tekhnika, no. 9, 1965, 44-47

TOPIC TAGS: power meter, calorimeter, microwave power, shf

ABSTRACT: The M2-1 power meter is designed on the principle of a calorimetric fluid-flow meter. The shf power is measured by comparing the thermal power, obtained when the measured power is dissipated, with known values of direct and low-frequency currents (calibrated power). The power dissipated in the meter heats the fluid, which is usually induced by a differential indicator type block. The heating of the fluid is proportional to the dissipated power, and direct reading, after calibration, is possible. The M2-1 meter is capable of measurements in the following ranges: 3, 7.5, 15, 30, 75, 150, and 300 mv. The operating frequency range of 1000—16,700 Mc is divided into six subranges: 1) 1000—3000 Mc, with a 75-ohm and 16 x 4.6-mm-diameter coaxial input; 2) 1000—3000 Mc, with a 50-ohm and 16 x 6.95-mm-diameter coaxial input; 3) 3000—5800 Mc, with a 50-ohm and 10 x 4.34-mm-diameter coaxial input; 4) 5550 to 8340 Mc, with a 15 x 23-mm waveguide input; 5) 8340—12,000 Mc, with a 10 x 23-mm

Card 1/2

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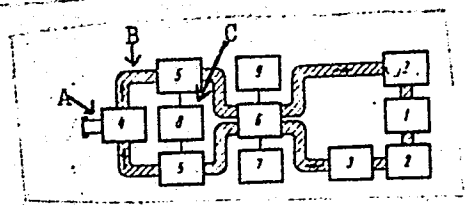

Fig. 1. M2-1 shf power meter

A - Shf transmission line; B - hydraulic coupling; C - electrical connections; 1 - pump; 2 - air dampers; 3 - thermal damper; 4 - calorimetric head; 5 - heaters; 6 - thermopile; 7 - photocompensation amplifier; 8 - calibration current source; 9 - compensating voltage source.

waveguide input; and 6) 11,500—16,700 Mc, with a 8 x 17-mm waveguide input. A block diagram is shown in the figure. Orig. art. has: 3 figures. [JR]

SUB CODE: 14,09/ SUBM DATE: none/ ORIG REF: 003/ ATD PRESS: 4154

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONENKO, V.I.

Wide-range calorimetric superhigh-frequency power meter. Izm.tekh. no.9:44-47 S '65. (MIRA 18:10)

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L 19676-65 EWT(d)/EWT(1)/EEC(k)-2/EEC-4/EWA(h) Po-4/Pq-4/Pg-4/Peb/Pk-4/Pl-4
SSD/AFWL

ACCESSION NR: AP4049082 S/0115/64/000/009/0043/0045

AUTHOR: Pronenko, V. I.; Frumkin, V. D.

TITLE: Checking power meters 25 B

SOURCE: Izmeritel'naya tekhnika, no. 9, 1964, 43-45

TOPIC TAGS: power meter, power measurement, SHF power measurement 9M

ABSTRACT: An outfit for checking SHF-power meters is described; it consists (see Enclosure 1) of signal generator 1, directional coupler 2, fixed attenuator 3, [illegible] coupling member 6, and wavemeter 7.

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errors involved are presented. The principal purpose of the power calibrator is an overall check of low-power meters; however, the calibrator can also be used for checking (with an error of ± 0.25 db) the measuring

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ASSOCIATION: none

SUBMITTED: 00

ENCL: 01

SUB CODE: EC

NO REF SOV: 000

OTHER: 000

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PRONICHEVA, M. V.

Erosion

Most recent changes in the character of the erosional formations in the Central Russian Upland, Izv. AN SSSR. Ser. geog., no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, July 1952, Uncl.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONICHEVA,M.V.

Rates of development of gullies in the central Russian upland. Trudy Inst.geog. no.65:86-101 '55. (MLRA 8:11)
(Erosion)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONICHEVA, M.V.; EVENTOV, Ya.S.

Geomorphological data on the structure of the northwestern Caspian Sea region. Izv.AN SSSR.Ser.geog.no.1:72-78 Ja-F '56. (MLRA 9:7)

1.Vsesoyuznyy nauchno-issledovatel'skiy geologo-razvedochnyy neftyanoy institut.
(Caspian Sea region--Physical geography)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONICHEVA, M.V.

Geomorphological data on the most recent movements in the region of the Belokamenka uplift. Izv.AN SSSR.Ser.geog. no.3:68-70 My-Je '56. (MLRA 9:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologo-razvedochnyy neftyanoy institut.

(Volga Valley--Physical geography)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONICHEVA, M.V.

Neotectonic developments in the northern Caspian Sea region. Geol. nefti i gaza no.3:34-40 Mr '57. (MIRA 10:8)
(Caspian Sea region--Geology, Structural)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONICHEVA, M.V.

Data on the recent tectonics of the Volga-Ural interfluve and its importance for petroleum prospecting. Trudy VNIGNI no.30:274-292 '61. (MIRA 14:9)

(Caspian Lowland--Geology, Structural)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

ZHERNAKOV, P.I.; AVVAKUMOV, V.A.; PRONICHEVA, M.V.

Practice in using materials of aerophotography for the study of local structures in the Aktyubinsk area of the Ural Mountain region. Trudy VNIGNI no.34:132-135 '61. (MIRA 15:7)
(Aktyubinsk Province—Geology, Structural)
(Aeronautics in geology)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

EVENTOV, Ya.S.; RAKITOV, A.I.; PRONICHEVA, M.V.; SAZONOVA, I.G.; SOKOLIN, Kh.G.; TSIBIZOV, G.G.

Trends in prospecting for oil and gas in Astrakhan Province and the northeastern Kalmyk A.S.S.R. Geol.neft i gaza 6 no.10:41-46 O '62. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut, Moskva.
(Astrakhan Province--Prospecting)
(Kalmyk A.S.S.R.--Prospecting)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONICHEVA, M.

Valuable studies on structural-geomorphological study methods and recent tectonics. Geol. nefti i gaza 7 no.5:53-54 My '63. (MIRA 16:6)

(Geology, Structural)
(Geomorphology)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONICHEVA, M.V.; ZHERNAKOV, P.I.

Using aerial methods and geomorphological investigations in the study of the tectonic structure of the western Mugodzhar Hills region in connection with its oil and gas potential. Neftegaz. geol. i geofiz. no.7:26-31 '64. (MIRA 17:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONICHEVA, M.V.; ZHERNAKOV, P.I.

Possibilities for determining geologic structure from geomorphological data. Trudy VNIGNI no.40:146-156 '64. (MIRA 17:6)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONICHEVA, M.

All-Union Conference on the use of Geomorphological Methods in Oil and Gas Prospecting. Geol. nefti i gaza 9 no.4:59-61 Ap '65.
(MIRA 18:8)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONICHEV, N.I.; SHIMANKO, I.I.

Surgical treatment of traumatic subcutaneous ruptures of the popliteal artery. Vest. khir. 92 no.3:144-146 Mr '64. (MIRA 17:12)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

ABEL'S, R.G.; VEKSLER, A.Z.; PRONICHEVA, T.A.

Use of a tapered measure with series connected sections for matching resistance coils. Trudy inst. Kom. stand. mer i izm. prib. no.67:12-16 '62.
(MIRA 17:11)

1. Sverdlovskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta metrologii imeni Mendeleyeva.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONICHKIN, A.P., kontr-admiral

Some problems in controlling forces in naval landing operations. Mor. sbor. 47 no.10:24-30 O '64. (MIRA 18:11)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

CHUPRIKOV, Mikhail Konstantinovich, kapitan pervogo ranga; KRYLOV, Pavel Sergeyevich, kapitan pervogo ranga; ONISHCHENKO, Yevgeniy Yakovlevich, kapitan pervogo ranga; POPOV, Georgiy Ivanovich, inzh., kapitan vtorogo ranga; PRONICHKIN, A.P., red.; TARSKIY, Yu.S., kapitan vtorogo ranga, red.; SRIBNIS, N.V., tekhn. red.

[Reference book for a watch officer] Spravochnik vakhtennogo ofitsera. [By] M.K.Chuprikov i dr. Moskva, Voenizdat, 1963. 384 p. (MIRA 17:2)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

WOLYNSKA-BOCHNER, Sima; PRONICKA, Ewa; SLIWINSKA, Halina

Observations on the problem of biochemical disorders in rickets. Pediat. pol. 38 no.2:162-174 '63.

1. Z I Kliniki Pediatrycznej PAM w Szczecinie Kierownik: prof. dr med. J. Starkiewiczowa i z Centralnego Laboratorium PSK nr 1 Kierownik: lek. H. Sliwonska.

(RICKETS) (CALCIUM METABOLISM DISORDERS)
(PHOSPHORUS METABOLISM DISORDERS)
(ACID-BASE EQUILIBRIUM)
(ALKALINE PHOSPHATASE) (AMINO ACIDS)
(PHOSPHORUS) (BLOOD CHEMICAL ANALYSIS)
(URINE)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

MILLEROWA, Danuta; PRONICKA, Ewa

Functional diabetes insipidus of renal origin in acute diarrhea in infants. Pediat. pol. 39 no.1:25-31 Ja'64

1. Z I Kliniki Pediatrycznej PAM w Szczecinie; Kierownik: prof. dr. med. J.Starkiewiczowa.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PROTICKA, Eva

Turner's syndrome in a 14-year-old girl. Pediat. Pol. 39 no.4: 457-460 Ap '64.

1. Z I Kliniki Pediatrycznej Pomorskiej Akademii Medycznej w Szczecinie (Kierownik: prof. dr. med. J. Starkiewiczowa).

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

MILLEROWA, Danuta; PRONICKA, Ewa; DOROZYNSKA, Barbara

The effect of vitamin D 3 on the level of serum calcium in rickets and tetany of rachitic etiology. Pediat. Pol. 40 no.3: 261-266 Mr '65

1. Z I Kliniki Pediatrycznej Pomorskiej Akademii Medycznej w Szczecinie (Kierownik: prof. dr. med. J. Starkiewiczowa) i z Centralnego Laboratorium PSK nr.1 w Szczecinie (Kierownik: lek. H. Sliwinska).

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PROKOPENKO, F.F., gvardii polkovnik; PRONICHKIN, P.P., podpolkovnik

"Piloting the helicopter" by G.A. Tiniakov. Rewiewed by F.F. Prokopenko, P.P. Pronichkin. Vest. Vozd. Fl. 40 no.12:79-81 D '57. (MIRA 14:12)

(Helicopters--Piloting)
(Tiniakov, G.A.)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONIEWICZ, Zbigniew, mgr.

Employees' vacation in the Soviet Union and in the countries of People's Democracies. Praca zabezp spol 3 no.12:33-35 '61.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

DANYSZ,A.;PRONIEWSKI,H.; WISNIEWSKI,K.; ZACZEK,T.;POLOCKI,B.

Reactivity to vegetative drugs in the acute radiation sickness. Sborn.ved.prac.lek.fak.Karlov.Univ.(Hrad.Kral.) 6 no.1:11-18 '63.

1. Department of Pharmacology, Medical Academy Bialystok, Poland; head of Department: doc. A.Danysz, M.D.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

MALOFIEJEW, Michal; PRONIEWSKI, Henryk

Physiological variability of the P wave in esophageal electrocardiographic leads in dogs. Acta physiol pol 12 no.3:451-454 '61.

1. Z Pracowni Electrokardiograficznej Wojewodzkiego Szpitala im. J. Sniadeckiego Kierownik: doc. dr W. Zankiewicz z Zakladu Farmakologii A.M. w Bialymstoku Kierownik: dr A.Danysz.
(ELECTROCARDIOGRAPHY)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

DANYSZ, Andrzej; PRONIEWSKI, H.

Radioprotective properties of dianabol. Pol. tyg. lek. 17 no.13: 489-490 26 Mr '62.

1. Z Zakladu Farmakologii AM w Bialymstoku; kierownik: doc. dr med. A. Danysz.

(STEROIDS ther) (RADIATION PROTECTION)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONIEWSKI, Jerzy; [illegible]ANDBERG, Krystyna

Studies on the effect of pal[illegible]m on the course [illegible]. Ginek. Pol. 35 no.6:359-362 N-D '62

1. Z Kliniki Poloznictwa i Chorob Kobiecych Instytutu Matki i Dziecka w Warszawie (Kierownik: prof. dr. med. J.Lesinski).

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

TELKO, Miroslaw; PRONIEWSKI, Jerzy; KARASEK, Janina

Behavior of oxytocic substances in the blood of pregnant women following the administration of hormones and pharmacological preparations. Ginek. pol. 34 no.4:433-439 '63.

1. Z Kliniki Poloznictwa i Chorob Kobiecych Kierownik: prof. dr med. J. Lesinski i z Instytutu Matki i Dziecka w Warszawie Dyrektor: prof. dr med. B. Gornicki.
(BLOOD CHEMICAL ANALYSIS) (OXYTOCICS)
(ESTROGENS) (PROGESTERONE)
(GONADOTROPINS, CHORIONIC)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONIEWICZ, Zbigniew, mgr.

Employee vacations in People's Poland. Praca zabezp spol 3 no.11:19-25 '61.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONIEWSKA, Wanda

Urinary protein content after the administration of some diuretics. Pol. tyg. lek. 20 no.27:1010-1013 5 Jl '65.

1. Z II Kliniki Chorob Wewnetrznych AM w Bialumstoku (Kierownik: prof. dr. Jakub Chlebowski).

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

S/035/59/000/003/009/039
A001/A001

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, No. 3, p. 32, # 1908

AUTHOR: Pronik, I. I.

TITLE: Spectral Classes, Stellar Magnitudes and Color Indices of 3915 Weak Stars in a Region with the Center at 18^h10^m - $15^o00'$ (1950)

PERIODICAL: Izv. Krymsk. astrofiz. observ., 1958, Vol. 20, pp. 208-298 (English summary)

TEXT: G. A. Shayn initiated investigation in the Krymskaya astrofizicheskaya observatoriya (Crimean Astrophysical Observatory) of classification of spectra, determination of stellar magnitudes and color indices for weak stars up to $12^m.2$ obtained with low dispersion. The purpose of this investigation was studying the star and dust components of the Galaxy and the detection of excitation stars of galactic nebulae. The present catalogue is a part of this study; it incorporates the celestial region from 17^h56^m to 18^h30^m in α and from $-10^o30'$ to $-19^o00'$ in δ (1950). The following data are given: right

Card 1/2

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

S/035/59/000/003/009/039
A001/A001

Spectral Classes, Stellar Magnitudes and Color Indices of 3915 Weak Stars in a Region with the Center at $18^h10^m - 15^\circ00'$ (1950)

ascension and declination for 1950, spectral class (Sp), magnitudes of stars m_{pg} in the stellar magnitude system very close to the international photographical; color indices $C = m_{pg} - m_{pr}$ (m_{pr} in the system of stellar magnitudes close to the photored one); numbers of stars according to the catalogue BD or HD (the sign of minus before the number of the zone in BD is omitted). Some values of stellar magnitudes and color indices are given with an accuracy up to one tenth of stellar magnitude. There are 26 references.

From author's summary

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

83438

S/035/60/000/007/005/018
A001/A001

3.1430

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1960, No. 7, p. 46, # 6222

AUTHOR: Pronik, I.I.

TITLE: A Survey of Stars in the Region of the Milky Way With the Center at $l = 343^{\circ}$ and $b = 0^{\circ}$

PERIODICAL: Izv. Krymsk. astrofiz. observ., 1959, Vol. 21, pp. 268-275 (English summary)

TEXT: The systems of photographic stellar magnitudes and color indices, obtained earlier by the author (RZhAstr., 1959, No. 3, p. 1908) were investigated. Corrections to the previous system of values were found, the errors of which were due to the absence of bright stars ($m \approx 9.5$) in the area SA 134 which was used as a standard. There is a cloud of dark matter in the region investigated, extending from 90 to 150 parsecs and having an absorbing capacity of $1^{m}.4$. Starting from 250 parsecs, a smooth increase of absorption is revealed up to a distance of 1,300 parsecs, amounting to $1^{m}.6$. The stars observed closely approach the inner

Card 1/2

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

83438

S/035/60/000/007/005/018
A001/A001

A Survey of Stars in the Region of the Milky Way With the Center at $l = 343^{\circ}$ and $b = 0^{\circ}$

spiral arm. A preliminary comparison of the data of the catalogue obtained with the catalogues of the other Milky Way regions shows an excess of stars of the spectral class A in the region investigated, amounting to approximately 15%. There are 23 references.

A.S. Sharov

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

S/035/62/000/001/003/038
A001/A101

AUTHOR: Pronik, I. I.

TITLE: Study of interstellar light absorption in the region centered on $l = 343^{\circ}$, $b = 0^{\circ}$

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 1, 1962, 28, abstract 1A265 ("Izv. Krymsk. astrofiz. observ.", 1960, v. 22, 152-165, English summary)

TEXT: The structure of interstellar absorbing medium over $8 \times 8^{\circ}.5$ sky area has been studied. The catalog of spectral classes and color excesses of stars in direction at $l = 343^{\circ}$ and $b = 0^{\circ}$, published earlier (cf. RZhAstr, 1959, no. 3, 1908) served as an observational basis of the study. There were discovered: a near dense cloud, absorbing over 1^{m} over a distance of 40 pc, and far separate condensations of interstellar medium. The near cloud has condensations and thin-out regions ranged from one to several parsecs. Far condensations, ranged from 40 to 1,000 pc, absorb up to $2^{m}.5$ per each 100 pc. Graphs are presented showing relations between absorption and distance module for individual sections into which the studied part of the sky was divided.

Card 1/2

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

Study of interstellar light absorption ... S/035/62/000/001/003/038
A001/A101

A chart of distribution of absorbing matter, in projection onto the galactic plane, is presented. A conclusion has been drawn that the region studied is located along the arm or a branch of the galactic arm. There are 26 references.

Ye. Kharadze

[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

23702

S/035/61/000/004/033/058
A001/A101

3,1560

AUTHOR: Pronik, I.I.

TITLE: A study of spatial distribution of stars of different spectral classes in a region with the center at $l = 343^\circ$, $b = 0^\circ$ ($\alpha = 18^h10^m$, $\delta = -15^\circ$)

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 4, 1961, 47, abstract 4A407 ("Izv. Krymsk. astrofiz. observ.", 1960, v. 23, 46-59, Engl. summary)

TEXT: Using the catalogue of the author (RZhAstr, 1959, no. 3, 1907) including stars up to $11^m.5$ - $21^m.0$ in the $8^\circ.0 \times 8^\circ.5$ region with the center at $l = 343^\circ$, $b = 0^\circ$, the visible distribution of 276 stars of spectral classes O - B3 up to $11^m.5$ was investigated. All of them are concentrated to a belt $\pm 2^\circ.2$ about the galactic equator and reveal a trend to concentrate in regions of stellar clusters and gaseous nebulae. A table is presented listing 17 diffuse nebulae and most probable stars exciting emission of the nebulae. The spatial distribution of stars is considered using estimates of their distances. Regions with enhanced and reduced content of stars O - B3 are outlined. A statistical investigation of 3,039 catalogue stars of spectral classes B5 - M up to $11^m.5$ was performed. These stars are

Card 1/2

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

23702
S/035/61/000/004/033/058
A001/A101

A study of spatial distribution ...

distributed uniformly throughout the region. The author presents the percentage of giants (III) and supergiants (I and II) among the stars of different spectral classes, as well as distribution of stars of different classes by distance moduli. On the basis of the latter, stellar density of different spectral subclasses at different distances from the Sun (up to 1,100 parsec for stars B5) was calculated. Open clusters present in this region are considered. Arguments are adduced in favor of reality of the cluster NGC 6618. Distances to the clusters NGC 6613 and NGC 6596 are estimated to be 500 and 700 parsec respectively. The author draws the following conclusions: 1) in the region studied the line of sight extends at least up to 3,000 parsec along a spiral arm; 2) there is a large complex in the arm investigated, which consists of nebulae and young star clusters within which the density of neutral hydrogen has an enhanced value: 3) there is a gap of approximately 600 parsec between the Orion arm and Sagittarius arm where there are no O - B5 stars, very few B8 - dF5 stars, and clusters and nebulae are also absent. This gap is filled up with giants of late spectral classes and dark matter. There are 30 references.

T.Agekyan

[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONIK, I.I.

O-B stars in the region $\alpha = 18^h 54^m$, $\delta = +5^\circ.0$. Astron. tsir. no. 214:17 S '60. (MIRA 14:1)

1. Krymskaya astrofizicheskaya observatoriya.
(Stars—Observations)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONIK, I.I.

Photographic magnitudes and color indices of 79 early O-B2 stars in an area with the center at $\alpha = 18^h54^m$, $\delta = +5°,0$. Izv.Krym. astrofiz.obser. 25:37-45 '61. (MIRA 14:10)
(Stars--Observation)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONIK, I.I.

Luminosity function in the region of the Milky Way with the center $l = 343^{\circ}$, $b = 0^{\circ}$. Astron.zhur. 38 no.4:662-664 Jl-Ag '61. (MIRA 14:8)

1. Krymskaya astrofizicheskaya observatoriya AN SSSR. (Milky Way)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONIK, I.I.

Structure of the arm in Orion. Astron.zhur. 39 no.2:362-363
Astron.zhur. 39 no.2:362-363 Mr-Ap '62. (MIRA 15:3)

1. Krymskaya astrofizicheskaya observatoriya AN SSSR.
(Nebulae)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONIK, I. I.; PRONIK, V. I.

Distribution of early stars in the Galaxy. Astron. zhur. 40 no.1:94-99 J-F '63. (MIRA 16:1)

(Stars—Distribution)

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BOYARCHUK, A.A.; PRONIK, I.I.

Spectrophotometric study of Be stars with very thick envelopes.
Izv. Krym. astrofiz. obser. 29:268-277 '63. (MIRA 16:10)

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L 8616-65 EWT(1)/EWG(v)/EEC(t) Pe-5/Pae-2 AFWL/AFETR/SSD/ESD(t) GW

ACCESSION NR: AR4038677 S/0269/64/000/005/0036/0036

SOURCE: Ref. zh. Astron. Otd. vyp., Abs. 5.51.306

AUTHOR: Proaik, I. I.

TITLE: The problem of the relationship between the density of gas and dust in the direction of the diffuse nebula NGC 6618

CITED SOURCE: Izv. Krymsk. astrofiz. observ., v. 30, 1963, 118-125

TOPIC TAGS: nebula, astronomy, stellar spectral class, stellar astronomy, interstellar space, neutral hydrogen, nebular dust cloud

TRANSLATION: As a result of a review of the spectra of stars responsible for the luminescence of the nebula NGC 6618 it has been found that the distance to the nebula is 3300 parsecs, which agrees with radioastronomical observations. Newly determined spectral classes of certain stars, together with certain other data, are cited in a table. After comparing optical data for dust clouds with radioastronomical data for clouds of neutral hydrogen the author concludes that in the [illegible]

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150:1. Bibliography of 22 titles. B. Fesenko.

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ACCESSION NR: AR4038677

DATE ACQ: 17Apr64

SUB CODE: AA

ENCL: 00

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

BOYARCHUK, A.A.; PRONIK, I.I.

Study of the H_α line profile in Be star spectra. Izv. Krym. astrofiz. obser. 31:3-11 '64. (MIRA 17:9)

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L 10781-65 EWT(1)/EWG(v)/EEC(t) Pe-5/Pae-2 ESD/AFWL/SSD/AFETR/ESD(t) GW

ACCESSION NR: AP4047161 S/0033/64/041/005/0963/0967

AUTHOR: Pronik, I. I.

TITLE: Possible causes of the variation in the interstellar reddening law

SOURCE: Astronomicheskiy zhurnal, v. 41, no. 5, 1964, 963-967

TOPIC TAGS: interstellar reddening, astrophysics, interstellar dust, interstellar dust cloud, Milky Way, interstellar magnetic field

ABSTRACT: Many observations have shown that the law of interstellar reddening of light is different in the directions of the constellations Cygnus and Cassiopeia-Perseus. A number of explanations have been advanced, but the only acceptable one

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ACCESSION NR: AP4047161

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law in the direction of Sagittarius-Scitum ($\ell \sim 22°$) is the same as towards Cassiopeia-Perseus, where the line of sight is across the direction of the magnetic field. However, polarization measurements show that the percentage of polarized light in the direction $\ell \sim 22°$ is small and the distribution of the directions of the electric vector of the polarized light is chaotic, like in Cygnus. It has been shown that the magnetic field in this direction is parallel to the line of sight both at relatively close distances (500 parsecs from the sun) and at great distances (over 1000 parsecs). Fig. 1 of the Enclosure shows all three directions plotted on the galactic plane. Consideration of all the facts presented in the paper leads the author to postulate that more than one factor is responsible for the variation in the reddening law. In addition to the orientation of particles in the interstellar magnetic field, it is necessary to take into account possible changes in the mean size of particles from place to place in interstellar space.

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ACCESSION NR: AP4047161

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Gershberg and Yu. S. Ilmov for discussion of the paper and G. N. Sharapova for assistance in computations". Orig. art. has: 2 figures and 2 tables.

ASSOCIATION: Krymskaya astrofizicheskaya observatoriya, AN SSSR (Crimean Astrophysical Observatory, AN SSSR)

SUBMITTED: 03Feb64 ENCL: 02 SUB CODE: AA

NO REF SOV: 005 OTHER: 013

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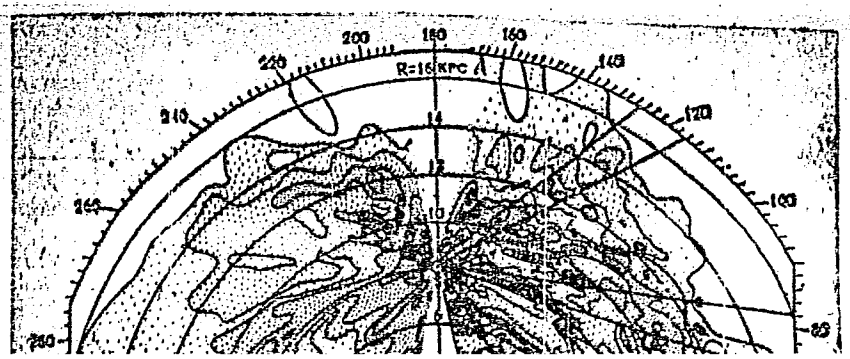
"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

L 10781-65
ACCESSION NR: AP4047161 Figure 1. ENCLOSURE: 01



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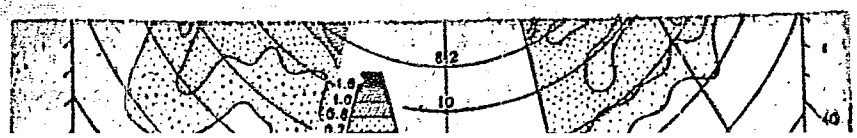
L 10781-65
ACCESSION NR: AP4047161 Continuation of Figure 1. ENCLOSURE:02



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Spiral arms of the Galaxy as indicated by observations of neutral hydrogen at 21 cm. The three mentioned directions are indicated. A) kiloparsecs

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PRONIK, I.I.

Dust distribution in the galactic plane in the vicinity of the sun (theses of a report). Trudy Astrofiz. inst. AN Kazakh. SSR 5:274-276 '65. (MIRA 18:6)

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

PRONIK, I.I.

Possible deviations from circular motion of hydrogen clouds located in the outer spiral arms of the galaxy. Astron.zhur. 42 no.5:923-928 S-O '65. (MIRA 18:10)

1. Krymskaya astrofizicheskaya observatoriya AN SSSR.

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001343230001-4

L 22924-66 EWT(1) GW

ACC NR: AP6012737 SOURCE CODE: UR/0033/66/043/002/0291/0299

AUTHOR: Pronik, I. I.

ORG: Crimean Astrophysical Observatory Academy of Sciences USSR (Krymskaya Astrofizicheskaya observatoriya, AN SSSR)

TITLE: The magnetic field of the Galaxy in the vicinity of the sun

SOURCE: Astronomicheskiy zhurnal, v. 43, no. 2, 1966, 291-299

TOPIC TAGS: galactic magnetic field, light polarization, interstellar calcium, galactic latitude, galactic longitude

ABSTRACT: Geometric investigations of the galactic magnetic field in the vicinity of the sun using light polarization data showed that the local magnetic field can be considered as a regular one. The vector of the magnetic field coincided with the sight line in two directions in the galactic plane, but the plane of the field was not parallel to the galactic plane. An analysis of the polarization of starlight and the motion of clouds of interstellar calcium showed that no regular distribution of predominant angles of the electric vector exists in galactic latitudes greater than 4°. At the galactic longitude of 140° the magnetic field is perpendicular to the sight line. At 15° longitude the magnetic field is directed along the sight line beneath the galactic plane, and at 75° longitude it is above the galactic plane. In inner regions of the Galaxy dust particles are associated with fields having dif-

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L 22924-66

ACC NR: AP6012737

ferent directions. The magnetic field of the fundamental mass of dust matter is considered to be the basic field. The basic field in longitudes near the galactic center is inclined to the galactic plane at an angle of 40°—60°, as determined from the polarization angle of starlight. A surface associated with the basic field is curved. The pole of the basic field is located in an outer region of the Milky Way and the pole of the second field is in an inner region. Hydrogen clouds having great velocities can be observed only outside the galactic plane. Analysis of a photograph of the Milky Way shows the concentration of dark nebulae in the vicinity of the sun. The inclination angle of nebulae to the galactic plane increases with the galactic latitude. The elongated shape of dark nebulae agrees with the existence of two interstellar magnetic fields located within the Milky Way. Magnetic fields in the solar vicinity intersect each other at a 60° angle. The author expresses thanks to S. A. Kaplan and N. M. Shakhovskoy for discussions and G. N. Sharapova, A. I. Bruns, and Ye. I. Ios'ko for photographs and sketches. Orig. art. has: 7 figures. [EG]

SUB CODE: 03/ SUBM DATE: 06Nov65/ ORIG REF: 005/ OTH REF: 011/ ATD PRESS: 4237

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PRONIK, V.I.

USSR/Astronomy - Interstellar Gases 1 Apr 53

"Problem of the Turbulent Character of Motion of Interstellar Gaseous Clouds," S.A. Kaplan and V.I. Pronik, L'vov State U imeni Franko

DAN SSSR, Vol 89, No 4, pp 643-646

To confirm that motion of interstellar gaseous clouds is of a turbulent nature, the authors investigate radial velocities, using catalogue of W.S. Adams (Ap.J. 109 (1949)). Conclude that motion of interstellar gaseous clouds obeys, in the first approximation, laws of isotropic and local turbulence. Presented by Acad G.A. Shayn 6 Feb 53.

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22087

S/035/61/000/003/014/048
A001/A101

3,1560

AUTHORS: Gershberg, R.Ye. and Pronik, V.I.

TITLE: The absolute spectrophotometry of the nebula NGC 7000 by means of light filters

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 3, 1961, 29, abstract 3A282 ("Izv. Krymsk. astrofiz. observ.", 1959, v. 21, 215-228; Engl. summary)

TEXT: The authors describe the methods of photographic observations of diffuse emission nebulae and present the results of investigation of the nebula NGC 7000. They determined absolute intensities of nebula emission in the lines λ3727, N_1+N_2, Hβ and Hα+[N II], and in continuous emission near λ6000. The singling out of the mentioned regions was performed by means of glass light filters. The contours of pass bands are given. Observations were conducted with a camera D = 640 mm, D/F = 1:1.4. The calibration of the photographs was made by a tubular photometer. Standardization was carried out by references to off-focus stellar images obtained with an auxiliary camera installed on the device. The energy fluxes from the standard stars were determined from the energy distribution in

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The absolute spectrophotometry ...

spectra of stars of different spectral classes with respect to the Sun. The accuracy of emission intensity determination in absolute magnitudes amounts to ~20%. The changes in emission line intensities and continuous spectrum of the nebula were obtained along the selected cross sections and in the bright filaments. It is shown that continuous emission of the nebula is mainly caused by the background of weak stars not resolved by the photoemulsion. Electronic temperature was determined from the ratios [O II]/Hβ and [O III]/Hβ. It does not practically change at the transition from the zone of O III to the zone of O II; it also does not increase in bright filaments which are sharp edges of [O III]-emission. The enhanced brightness of continuous emission near the bright filaments can be explained by the 2q-mechanism of hydrogen emission. The star HD 199579 (O7) is the star exciting the northern part of the nebula. However, it is not able to ionize the whole set of nebulae in this field. It is presumed that one more exciting star or a group of stars exist between the "Pelican" and "America" in the field of the "Mexican Bay", hidden from observation by a dense dust cloud. It is noted that the exciting star must be located very near the curvature center of a large arc-shaped filament at the nebula eastern edge. From the absence of stars of spectral classes O or B0 up to 12^m in this field, the authors estimate the density and mass of the absorbing cloud. The lower limit of absorption in the cloud is 6^m, and its mass amounts to

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The absolute spectrophotometry ...

~1,000 ⊙. It is surmised that the dark cloud is genetically related to the nebula. It is necessary to know distances to the nebula and to the cloud. The photographs of the "America" nebula in various regions of spectrum are presented, as well as photometric cross sections in various rays, and the photograph of the set of nebulae in the field investigated. There are 20 references.

V. Yesipov

[Abstracter's note: Complete translation]

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