

BARKHATOVA, K.A.; SHASHKINA, L.P.

Color-magnitude diagram for the open star cluster NGC6819.
Astron. tsir. no.233:1-3 F '63. (MIRA 16:6)

1. Kafedra astronomii i geodezii Ural'skogo gosudarstvennogo
universiteta im. Gor'kogo.
(Stars--Clusters)

BARKHATOVA, K.A.; DRONOVA, V.I.; PANEVA, L.I.; SHASHKINA, L.F.

Study of the open star cluster NGC 6819. Star. rev. p. 13-13-
13 '63. (MIRA 10-1)

BARKHATOVA, K.A.; SHTEYNBERG, M.K.

Study of the open star cluster NGC 6939. Sbor.rab. po astron.
no.1:14-32 '63. (MIRA 18:1)

BARKHATOVA, K.A.; ZHELVANOVA, E.I.

Study of the open star clusters H 21, NGC 7788, NGC 7790. Sbor.rab.
po astron. no.1:33-51 '63. (MIRA 18:1)

BARKHATOVA, K.A.

Distribution and motion of stars in the Pleiades. Secr.rab. po
astron. no.1:52-63 '63. (MIRA 18:1)

BARKOV, N.N., inzh.; PROTOPOPOV, O.A., inzh.

Electric instrument for measuring the fuel level in bunkers. Elek. sta.
29 no.10;88 0 '58. (MIRA 11:11)
(Coal--Storage) (Electric instruments)

BARKOV, N.N., kand.ekon.nauk; IZOSIMOV, A.V., kand.ekon.nauk; KOTOV, G.V.,
kand.ekon.nauk; TRUBIKHIN, M.G., kand.ekon.nauk

New edition of a textbook on transportation economy ("Economic aspects
of transportation" by A. E. Gibshman and others. Reviewed by N. N.
Barkov and others. Zhel. dor. transp. 40 no.8:91-94 Ag '58.
(MIRA 11:9)

(Transportation)

BARKOV, N.N., kand.ekon.nauk; TIKHONCHUK, Yu.P., kand.ekon.nauk

Effectiveness of an increase in car load. Vest.TSHII MPS 18
no.6:40-42 S 159. (MIRA 13:2)
(Railroads--Freight)

ABRAMOV, A.P., kand. ekon. nauk; BARKOV, N.N., kand. ekon. nauk;
SIMANOVSKIY, M.A., kand. ekon. nauk

Economic evaluation of measures for a greater efficiency of
transportation. Zhel. dor. transp. 41 no.10:16-20 0 '59.
(MIRA 13:2)

(Railroads--Freight)

BARKOV, N.N.; SIMANOVSKIY, M.A.; KOLTUNOVA, M.P., red.; MEDVEDEVA, M.A.,
tekhn.red.

[Problems pertaining to methods for a more efficient operation of
freight transportation] Metodicheskie voprosy ratsionalizatsii
perevozok. Moskva, Vses.izd-ko poligr. ob"edinenie m-va putei
soob., 1960. 139 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii
institut zheleznodorozhnogo transporta. Trudy, no.194).

(MIRA 13:10)

(Railroads--Freight)

BARKOV, N.N., inzh.

Checking the level of coal in coal bins. Energetik 8 no.11:33-35 N
'60. (MIRA 13:12)

(Level indicators)

~~BARKOV, N.N.,~~ kand.ekon.nauk

Methods for determining the coefficients of variation in
freight transportation by railroad sections with a view to
the future. Vest.TSNII MPS 17 [i.e. 19] no.7:48-51 '60.
(MIRA 13:11)

(Railroads--Freight)

BARKOV, N.N.

The EC-59P electronic analyzer of dust content in gases.
Priborostroenie no.3:23 Mr '61. (MIRA 14:3)
(Dust—Measurement)

BARKOV, N.N.

Control of the movement of loose materials in pipes. Priborostroenie
no.1:25-26 Ja '62. (MIRA 15:1)

(Electronic control)

BARKOV, N.N., kand.ekonom.nauk; IVANOV, L.N., inzh.

Determining the economic efficiency of capital investments in
railroad transportation. Zhel.dor.transp. 45 no.8:55-59 Ag
'63. (MIRA 16:9)

(Railroads--Finance)

BARKOV, Dzh.

"Basic Features of the Architecture of the Physiological Functions", Biomedghiz, 1937.

BARKOV, D. A.

Barkov, D. A. "Problems of electric surgery. Clinical and experimental data on staunching hemorrhaging by electrocoagulation," Trudy Kuyovsk. gos. med. in-ta, Vol. I, 1946, p. 139-44

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

BARKOV, D.A.

Variant of the knotted suture and formation of gastrointestinal anastomosis in stomach resection. Khirurgiia 34 no.12:77-80 D '58. (MIRA 12:11)

1. Iz kliniki obshchey khirurgii (zav. - prof. S.P. Shilovtsev) Kiybyshevskogo meditsinskogo instituta.

(GASTRECTOMY,

modif. of junction suture & form of gastrointestinal anastomosis (Rus))

BARKOV, D.A.

Echinococcosis of the diaphragm. Khirurgiia 35 no.8:89-93 Ag :59.
(MIRA 13:12)

(DIAPHRAGM--HYDATIDS)

BARKOV, D. A.; KRICHEVSKIY, A. L.

Deep lipomas of the neck. Vop. onk. 7 no.9:89-92 '61. (MIRA 14:12)

1. Iz kliniki propsevticheskoy khirurgii (zav. - prof. S. P. Shilovtsev) Kuybyshevskogo meditsinskogo instituta.

(NECK--TUMORS)

BARKOV, D.A., dotsent

Characteristics of the clinical course of stomach cancer.
Trudy Kuib. med. inst. 24:132-137 '63 (MIRA 77:4)

Topographic and anatomical variants of the duodenum and methods
of stomach resection. Ibid.:215-229

1. Iz kafedry obshchey khirurgii (nav. kafedroy - nachal'nykh. deyatel'noy nauki RSFSR prof. S.P. Shilovtsev) Kuybyshevskogo meditsinskogo instituta.

Morsk (Ker) (G. 1)

KRIZHANSKIY, Zakhariy Pavlovich; MARKHASEV, Mikhail Grigor'yevich;
~~BARKOV, G.D.~~, red.; SUSHKOV, B.B., red.; VAYL', T.I., red. izd-va;
BEGICHEVA, M.N., tekhn. red.

[Safety engineering and industrial sanitation during cleaning
operations on oil tankers] Tekhnika bezopasnosti i promsanitariia
pri zachistnykh rabotakh na sudakh neftenalivnogo vlot. Moskva,
Izd-vo "Morskoi transport," 1957. 78 p. (MIRA 11:1)
(Tank vessels--Cleaning)

BUSHKOV, V.G., dots.; BARKOV, G.D., vet. vrach; ZOROVA, A.S., vet. vrach.

Using an erythrocyte clot in the treatment of penetrating wounds of the joints in horses. Veterinariia 34 no.2:47-50 F '57.

(MLRA 10:11)

1. Kazanskiy veterinarnyy institut i gorodskaya veterinarnaya poliklinika.

(Joints--Wounds and injuries) (Blood--Coagulation)
(Horses--Diseases and pests)

BARKOV, G.D.; PROSETSKIY, P.A.

Improvement of working conditions in loading pitch at sea and river ports. Gig. i san. 23 no.12: 62-65. D '58. (MIRA 12:1)

1. Iz Tsentral'noy nauchno-issledovatel'skoy laboratorii gigiyeny i sanitarii na vodnom transporte Ministerstva zdravookhraneniya SSSR.
(INDUSTRIAL HYGIENE
in dock workers (Rus))

BUSHKOV, V. G. (Docent, Kazan' Veterinary Institute), ZOROVA, A. S. and BARKOV, G. D.
(Veterinary Doctors, Republic Veterinary Polyclinic).

"Treatment of dogs suffering from coprostasis"

Veterinariya, vol. 39, no. 9, September 1962, p. 56

POPOV, Garri Sergeyevich; RASTORGUYEV, Petr Vasil'kevich; STEN'KO, Yuriy Mikhaylovich; NOVIKOV, Teodor Nikitovich; BARKOV, G.D., red.; BONDAREV, G.I., kand. med. nauk, red.; MOSHAROVA, T.P., red.izd-va; TIKHONOVA, Ye.A., tekhn. red.

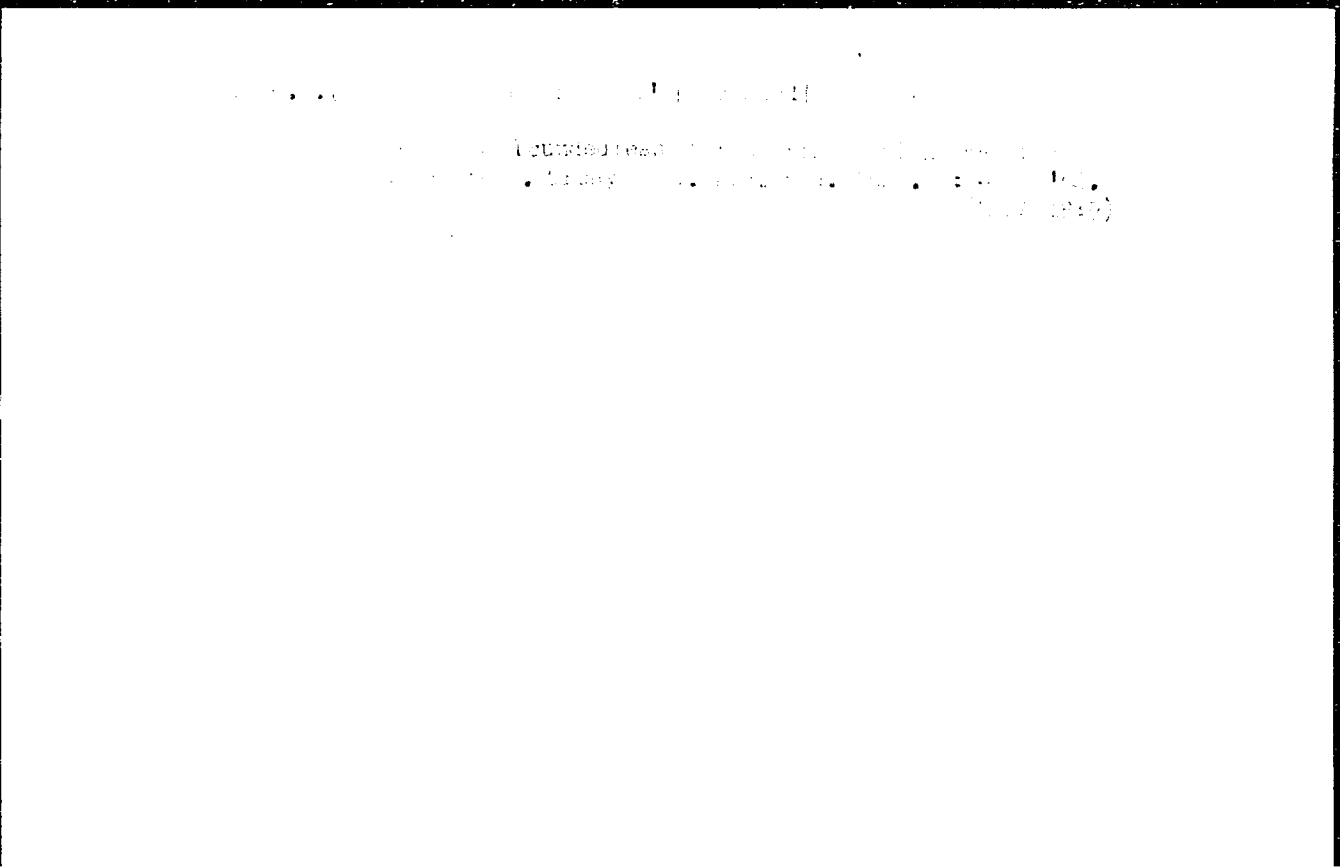
[Medical handbook for the ship's captain] Meditsinskii spravochnik kapitana. Pod obshchei red. G.D.Barkova. Moskva, Izd-vo "Morskoi transport," 1963. 213 p. (MIRA 16:5)

1. Direktor Tsentral'noy nauchno-issledovatel'skoy laboratorii gigiyeny vodnogo transporta (for Barkov).
(MEDICINE, NAVAL—HANDBOOKS, MANUALS, ETC.)

BUSHKOV, V.G., dotsent; ZOROVA, A.S., veterinarnyy vrach; BARKOV, G.D.,
veterinarnyy vrach

Treatment of dogs with coprostasis. Veterinariia 39 no.9:56-57 S
'62. (MIRA 16:10)

1. Kazanskiy veterinarnyy institut (for Bushkov). 2. Respublikanskaya
veterinarnaya poliklinika, Kazan' (for Zorova, Barkov).



KARTASHEVSKIY, N.G.; BARKOV, G.I.; FEDOROVA, I.G.; FROLENKO, G.I.

New plastic package for the storage of preserved homotransplants.
Vest.khir. no.7:112-115 '61. (MIRA 15:1)

1. Iz Leningradskogo ordena Trudovogo Krasnogo Znameni nauchno-
issledovatel'skogo instituta perelivaniya krovi (dir. - dotsent
A.D. Belyakov, nauchnyy rukovoditel' - prof. A.N. Filatov) i
Nauchno-issledovatel'skogo instituta tokov vysokoy chastoty
im. prof. V.P. Vologdina (dir. - kand.tekh.nauk M.A. Spitsyn,
zam. dir. po nauchnoy chasti - kand.tekh.nauk N.P. Glukhanov).
(TRANSPLANTATION OF ORGANS, TISSUES, ETC.—EQUIPMENT AND SUPPLIES)

(S)

16.4/150

S/140/60/000/004/007/023 XX
C111/C222

AUTHOR: Barkov, G.I.

TITLE: On Some Systems of Polynomials Orthogonal on Two Symmetric Intervals

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika. 1960. No. 4, pp. 3 - 6

TEXT: On the set $\sigma = [-1, -\xi] + [\xi, 1]$ ($0 \leq \xi < 1$) let be given the system $\{\psi_n(x)\}_0^{\infty}$ of polynomials being orthogonal on σ with the summable weight $\varrho(x) > 0$, where

$$\varrho(x) = \begin{cases} \varrho_1(x) & \text{for } x \in [-1, -\xi] \\ \varrho_2(x) & \text{for } x \in [\xi, 1] \\ 0 & \text{for } x \in \bar{\sigma} \end{cases}$$

Let the polynomial $\psi_n(x)$ have the degree n and the coefficient 1 for x^n .
Let the polynomials $\psi_n(t)$ ($n = 0, 1, 2, \dots$) be of degree n , let the
Card 1/4

85494

On Some Systems of Polynomials
Orthogonal on Two Symmetric Intervals

S/140/60/000/004/007/023 XX
C111/C222

coefficients of x^n be 1 and on $[a, b]$ let these polynomials form an
orthogonal system with respect to a non-negative weight $\mu(t)$.

Theorem 1: If

$$(1.5) \quad \rho_1(x) = \frac{x + \alpha}{x - \alpha} \rho_2(x)$$

and

$$(1.6) \quad \mu(t) = \frac{1}{\sqrt{\frac{(1 - \xi^2)t + b\xi^2 - a}{b - a} + \alpha}} \rho_2\left(\sqrt{\frac{(1 - \xi^2)t + b\xi^2 - a}{b - a}}\right)$$

then it holds

$$(1.7) \quad \varphi_{2n}(x) = k_n \psi_n\left(\frac{(b-a)x^2 - b\xi^2 + a}{1 - \xi^2}\right)$$

where k_n is a constant factor.

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85491

On Some Systems of Polynomials Orthogonal on Two Symmetric Intervals S/140/60/000/004/007/023 XX
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Theorem 2: If under the assumptions of theorem 1 it holds $f_2(x) = (x+\alpha)p(x)$, where $p(x)$ is an even function and $-\xi \leq \alpha \leq \xi$, then

$$(1.12) \quad \psi_{2n+2}(x) = \frac{\psi_{2n+2}(x) - m_{2n} \psi_{2n}(x)}{x + \alpha}$$

where $m_{2n} = \frac{\psi_{2n+2}(-\alpha)}{\psi_{2n}(-\alpha)}$

The theorems are used for constructing polynomials $\psi_n^{(p,q)}$ orthogonal with respect to the weight $g(x) = |x + \alpha| (x^2 - \xi^2)^p (1 - x^2)^q$ on $\sigma = [-1, -\xi] + [\xi, 1]$. E.g. it is

$$(2.2) \quad \psi_{2n}^{(p,q)}(x) = \left(\frac{1-\xi^2}{2}\right)^n \left(\frac{2}{1-\xi^2}\right)^{p+q} I_n^{(p,q)} \left(\frac{2x^2 - \xi^2}{1-\xi^2}\right)$$

Card 3/4

85494

On Some Systems of Polynomials Orthogonal on Two Symmetric Intervals S/140/60/000/004/007/023 XX
C/111/C222

where $P_n^{(p,q)}(t)$ are Jacobian polynomials with the coefficient 1 for t^n
The author gives constants v_{2n} and α_{2n-1} for the recurrence formula

$$(3.3) \psi_{2n+1}^{(p,q)}(x) = (x + v_{2n}) \psi_{2n}^{(p,q)}(x) - \alpha_{2n-1} \psi_{2n-1}^{(p,q)}(x)$$

Some further cases are considered. It is pointed out that the theorems 1 and 2 remain true if instead of G the set $E = [-b, \xi] + [\xi, b]$ is considered and $b \rightarrow \infty$.

The author mentions N.I. Akhiezer and V.E. Bizhechka. There are 5 references: 3 Soviet and 2 American.

ASSOCIATION: Chelyabinskiy pedagogicheskiy institut
(Chelyabinsk Pedagogical Institute)

SUBMITTED: October 16, 1958

Card 4/4

ACCESSION NR: AR4034975

8/0299/64/000/009/M016/M016

SOURCE: Ref. zh. Biol. Sv. t., Abs. 9493

AUTHOR: Kurdybaylo, F. V.; Barkov, G. I.; Yeleshin, Yu. N.

TITLE: Possible utilization of cadaver bone marrow in a clinic

CITED SOURCE: Sb. 3 Vses. konferentsiya po peresadke tkany i organov, 1963. Yerevan, 1963, 211-212

TOPIC TAGS: human, cadaver, bone marrow, preservation, bone marrow transplantation, anemia

TRANSLATION: A method of taking bone marrow from cadavers for subsequent use in a clinic is described in detail. The highest percentage of viable cells was obtained when bone marrow was taken 4-6 hrs after donor died of a cardiovascular disease. The quantity of bone marrow obtained increased if the cadavers were preserved at +2, +4°. For 15 days following bone marrow removal, myelogram changes were investigated and the number of megakaryocytes, myelokaryocytes, mitoses, and the degree of stain changes were determined

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ACCESSION NR: AR4039975

for RNA, DNA, and glycogen. Morphological change and destruction of bone marrow cells took place by the 3rd day. Only lymphoblasts and a small number of base- and oxyphile erythroblasts were preserved in the bone marrow on the 6th day. Twenty-one patients with systemic blood diseases were administered 40 cadaver bone marrow transfusions. Positive results were obtained only in 3 of the 5 patients with hypoplastic anemia, and in the remaining patients bone marrow transfusions did not affect the pathological process. Reaction to transfusion in the form of a slight temperature increase was noted in only 3 patients. A. Eysgen.

SUB CODE: LS

ENCL: 00

2/2

Barkov, I.

✓ Testing fire-resistant coatings for fire-breaks and decks
of ships. M. Gusev'shechikov and I. Barkov. *Morskoi i*
MT *Rechnoi Flot* 1953, No. 7, 16-17; *Referat Zhur., Khim.*
1954, No. 40312.—Of the tested materials, Al₂O₃ cement
and calcined vermiculite were most fire resistant. A com-
bination of these two gave good results. These materials
can also be used as heat insulators to reduce heat losses in
steam and Diesel installations. M. Hosh...

①

BARKOV, I.D.; SVERDLOV, M.A.

Investigating the use of various output indices in ship repairs.
Trudy TSNIIMF no.43:81-91 '62. (MIRA 16:2)
(Ships—Maintenance and repair)

BARKOV, I.I.; YENTUS, N.R.

Use of fluoroplast in protective coatings of an electric
dehydrator of Electrical Desalting Units. Khim.i tekhn.topl.
i masel 7 no.8:36-39 Ag '62. (MIRA 15:8)

1. Kuybyshevskiy neftepererabatyvayushchiy zavod.
(Petroleum--Refining) (Plastics)

YENTUS, N.R.; BARKOV, I.I.

Experience with combined electric desalting and atmospheric and vacuum distillation units. Neftoper. i neftekhim. no.483-7 '63
(MIRA 1787)

1. Kuybyshevskiy neftepererabatyvayushchiy zavod.

L 13078-66 FWT(m)/T WE

ACC NR: AP5028676

SOURCE CODE: UR/0318/65/000/011/0003/0007

AUTHOR: Barkov, I. I.; Yentus, N. R.

23
B

ORG: Kuybyshev Petroleum Refinery (Kuybyshevskiy neftepererabatyvayushchiy zavod)

TITLE: Modernized variant of an atmospheric-vacuum pipe still for processing high-sulfur crudes

SOURCE: Neftepererabotka i neftekhimiya, no. 11, 1965, 3-7

TOPIC TAGS: petroleum refinery equipment, fractional distillation, CRUDE PETROLEUM

ABSTRACT: The article describes the modernization of a typical atmospheric-vacuum pipe still at the Kuybyshev Petroleum Refinery (Kuybeshevskiy neftepererabatyvayushchiy zavod), where the still was converted for processing high-sulfur crudes of the Sernovodsk and Buguruslan oil fields. A flow sheet for the modernized still is given. The following changes were made in the operational conditions of the still:

| | Before modernization | After modernization |
|--|----------------------|---------------------|
| Temperature, C: | | |
| at exit of crude from furnace | 330 | 360 |
| of bottom of evaporator | 180 | 230 |
| of bottom of the main (atmospheric) column | 315-320 | 340 |
| of bottom of vacuum column | 300-305 | 325-330 |

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UDC: 665.512.2:665.5.048.5.002.73.004.68

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ACC NR: AP5028676

| | Before modernization | After modernization |
|--|-------------------------|------------------------|
| Pressure in the main column, tech. atm. . . | 0.7 | 3.0 |
| Heating temperature of the main flow of heat carrier, C | - | 350-360 |

The output of the still was increased by about 20%. Orig. art. has: 1 figure.

SUB CODE: 13 / SUBM DATE: none

Card 2/2 HW

BARKOV, I. P.

154T86

USSR/Medicine - Infectious Diseases 1 Jan 61

"Transmission of the Causative Factor of Tularemia
(*B. tularensis*) by Some Species of Gamasid Mites
Under Natural Conditions." Ye. N. Mol'china, I. P.
Barkov. Rostov State Sci Res Inst. Min Pub Health
USSR

"Dok Ak Nauk SSSR" Vol LXXVIII, No 4, pp 829-831

Collected mites infesting *Arvicola terrestris* L. and
Microtus arvalis Pall. Found that among these mites
Laelaps muris (which infests *Arvicola terrestris* L.)
L. hilaris (infesting *Microtus arvalis* Pall.) and
Haemolaelaps mohrae Oudem. (infesting both these
species of rodents and many others) are carriers of
tularemia

154120

BUNOV, I. P.

"A rediscovered natural focus of the plague in the desert and a number of zones of the Mongolian People's Republic." p. 222

Bozvatoye sovetskoye na parazitologicheskoye problema i zoonoznykh boleznykh. 22-23 Oktobra 1950 g. (Soviet Conference on Parasitological Problems and Diseases with Natural Food 22-23 October 1950). Moscow-Leningrad, 1950, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1, 25pp.

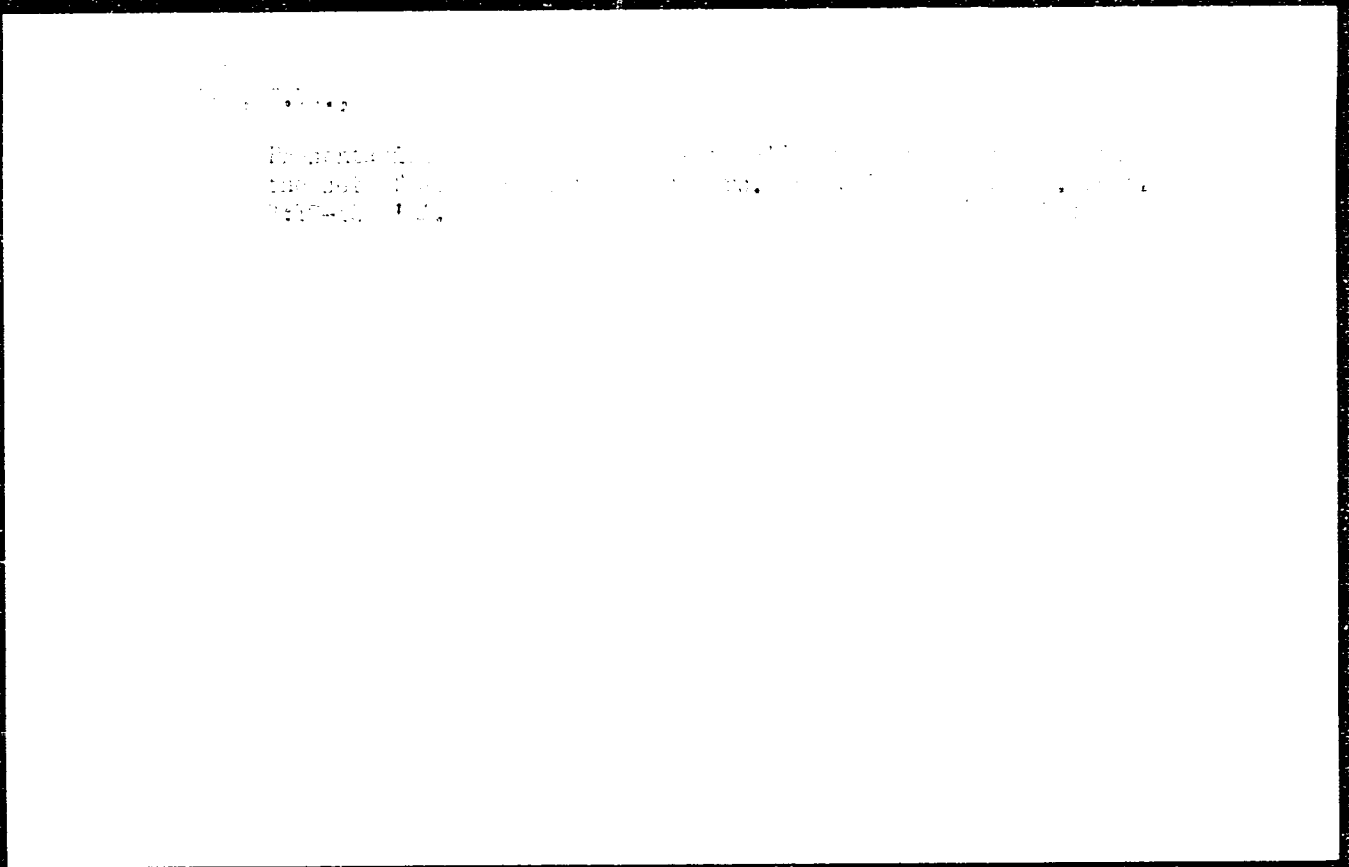
Anti-plague Inst. / Rostov-on-Don

BARKOV, I.P.; BAZUNOVA, L.P.; SHIRYAYEVA, A.

Plague among Mongolian and southern gerbils in the Central
Asian focus. Izv.Irk.gos.nauch.-issl.protivochum.inst. 20:
117-119 '59. (MIRA 13:7)

(GOBI--GERBILS--DISEASES AND PESTS)

(PLAGUE)



BARKOV, I.Ya., otv. red. (g. Chelyabinsk), BUDANTSEV, P.A., red., (g.Orenburg),
GONIN, Ye.G., red., (g. Perm'), KOCHETKOVA, Ye. S., red.,(g.Chelyabinsk),
NAGIBIN, F.F., red.,(g. Kirov), SEMENOVICH, A.F., red.,(g. Sverdlovsk),
CHAYKOVSKIY, N.A., red.,(g. Ural'sk), YAKOVKIN, M.V., red., MAKHOVA,
N.N., tekhn. red.

[Problems in teaching mathematics in secondary schools; a collection
of articles] Voprosy prepodavaniia matematiki v srednei shkole; sbornik
statei rabotnikov kafedr pedagogicheskikh institutov Ural'skoi
zony. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosveshcheniia
RSFSR, 1958. 350 p. (MIRA 11:10)

(Mathematics --Study and teaching)

BARKOV, Ivan Yakovlevich; SENCHISHCHEV, N.A., red.; KOLBICHEV, V.I.,
tekh.n.red.

[Fundamentals of the arithmetic of real numbers] Osnovaniia
arifmetiki deistvitel'nykh chisel. Cheliabinsk, Cheliabinskoe
knizhnoe izd-vo, 1960. 254 p. (MIRA 14:1)
(Numbers, Theory of) (Aggregates)

BARKOV, I.Ya. (Chelyabinsk)

Ural Scientific and Methodological Conference of the Departments of
Mathematics of Pedagogical Institutes. Mat. v shkole no.3:89
My-Je '61. (MIRA 14:5)

(Mathematics—Congresses)

BARNOV, L. S.; VETOL'SKAYA, L.D.; NETSKY, G.I. and E. KOVALOVA, S.T.

"Congenital Toxoplasmosis in the City of Gorki"

Voprosy toksoplazmoza, report theses of a conference on toxoplasmosis, Moscow, 3-5 April 1961, publ. by Inst Epidemiology and Microbiology im. N. P. Gamaleya, Acad. Med. Sci USSR, Moscow, 1961, 68pp.

VYDRIN, V.N.; BARKOV, L.A.; BLINOV, Yu.I.

Determining contact areas in rhomb - square grooves. Izv.
vys. ucheb. zav.; Chern. met. 6 no.12:109-111 '63.
(MIRA 17:1)

1. Chelyabinskiy politekhnicheskij institut.

VYDRIN, V.N.; BARKOV, L.A.

Determining the rolling diameter in rhomb - square grooves.

Izv. vys. ucheb. zav.; Chern. met. 7 no.1:89-94 '64.

(MIRA 17:2)

1. Chelyabinskiy politekhnicheskiy institut.

VYDRIN, V.N.; BARKOV, L.A.

Energy for rolling in square and diamond-shaped grooves with tension or backing of the strip. Izv. vys. ucheb. zav.; Chern. met. 7 no.2:94-99 '64. (MIRA 17:3)

1. Chelyabinskiy politekhnicheskii institut.

VYDRIN, V.N.; BARKOV, L.A.

Character of the critical line in the diamond - square groove
system. *Izv. vys. ucheb. zav.; chern. met.* 7 no.3:113-117
'64. (MIRA F7:4)

1. Chelyabinskiy politekhnicheskiy institut.

BARKOV, L.M.

Category : USSR/Nuclear Physics - Origin of charged and neutral particles through matter.

C-6

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 610

Author : Barkov, L.M., Mukhin, K.N.

Title : Slowing Down of Fission Neutrons in Water

Orig Pub : Atom. energiya, 1956, No 3, 31-32

Abstract : A procedure is described and experimental results are given for the measured values of τ for neutrons obtained by fission of U^{235} , moderated in water to energies $E = 1.46$ ev. The value obtained for τ is $\tau = 1.46 \text{ ev} = 29.4 \pm 1.5 \text{ cm}^2$.

Card : 1/1

BARKOV, L. M.

C-6

Category : USSR/Nuclear Physics - Origin of charged and neutral particles through matter

Abs. Jour " : Ref Zhur - Fizika, No 1, 1957 No 609

Author : Barkov, L. M., Mkar'in, U. K., Mukhin, K. N.

Title : Measurement of Slowing Down of Neutrons in Water in the Energy Range 1.46 -- 0.025 ev.

Orig. Pub : Atom. energiya, 1956, No. 3, 33-39

Abstract : An Indium detector was used to measure the spatial distribution of the resonant ($E = 1.46$ ev) and thermal neutrons, formed when photoneutrons from a $Sb + PBe$ source were slowed down in water. The neutron age τ at 1.46 ev and the diffusion length of the thermal neutrons in water was determined as was the square of the slowing-down length of the neutrons Δr from 1.46 ev to thermal energy (0.025 ev) .

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Category : USSR/Nuclear Physics - Origin of charged and neutral particles through matter.

C-6

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 611

Author : Barkov, L.M., Venediktov, A.P., Mukhin, K.N.

Title : Slowing Down of Fission Neutrons in Uranium-Water Media

Orig Pub : Atom. Energiya, 1956, No 3, 40-44

Abstract : The spatial distribution of the density of resonant neutrons ($E = 1.46$ ev), formed by moderating fission neutrons from U^{235} from a "point" source were measured in three versions of uranium-water lattices, made up of thick (35 mm) blocks of natural uranium, clad in cadmium tubes. It was shown that there is no anisotropy in the distribution of the moderated neutrons, and the values of τ were determined.

Card : 1/1

BARKOV, L.M.

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PRODUCTION OF SLOW π^+ MESONS IN PHOTOGRAPHIC EMULSION NUCLEI BY 880 MEV PROTONS. V. V. Alpers, L. M. Barkov, R. I. Gorasimovs, I. I. Gorenich, A. P. Mikhakovs, K. N. Mukhin and E. A. Nikol'skii. Soviet Phys. JETP 3, 755-3(1956) Dec.

The study of the formation of π^+ and π^- mesons in the nuclei of photo-emulsions by fast nucleons was continued and results were obtained with 880-Mev protons. Stars formed by π^- mesons as well as the energy and angular spectra of the slow π^+ mesons were studied. (F.S.)

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BARKOV, L.M.

Category : USSR/Nuclear Physics - Elementary Particles

C-3

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3130

Author : Alpers, V.V. Barkov, L.M., Gerasimova, R.I., Gurevich, I.I., Muskhin, K.N., Nikol'skiy, B.A., Toporkova, E.P.

Title : Production of Slow π^{\pm} -mesons in the Nuclei of Photographic Emulsion by 460 Mev Protons and Neutrons of 400 Mev Effective Energy.

Orig Pub : Zh. eksperim. i teor fiziki, 1956, 30, No 6, 1025-1033

Abstract : The emulsion-camera procedure was used to study the production of charged π -mesons by 460 Mev protons and by neutrons of 400 Mev effective energy.

Card : 1/1

BARKOV, L. M.

Category: USSR/Nuclear Physics - Elementary particles

Abs Jour: Ref Zhur - Fizika, No. 2, 1957 No 3129

Author : Alpers, V. V., Barkov, L. M., Gerasimova, R. I., Gurevich, I. I.,
Mishakova, A. P., Mukhin, K. N.

Title : Production of Slow π^+ Mesons in Photographic Emulsion Nuclei by
660 Mev Protons.

Orig. Pub: Zh. eksperim. i teor. fiziki, 1956, 30, No. 6, 1034-1039

Abstract: The emulsion camera procedure was used to study the production of slow π^+ mesons in the nuclei of the emulsion by the action of 660 Mev protons. The procedure used made possible an effective study of the stars with the production of slow π^+ mesons, and also the energy and angular spectra of the slow π^+ mesons produced in the nuclei.

BARKOV, L.M.

Slowing down of fission neutrons in water. L.M. Barkov and K. N. Mukhin. Atomic Energy (U.S.S.R.) English translation, No. 2 (Pub. in J. Nuclear Energy A, 01-3 (1957)). ¹⁹ has been measured for U²³⁵ fission neutrons. slowed down to 1.46 e.v. in water. The result is 29.4 ± 1.5 sq. cm. James L. Laur.

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BARKOV, L. M.

"Measurement of the Slowing Down of Neutrons in the Energy Range 1.46-0.025 e.v. in Water," L. M. Barkov, V. K. Makar'in, and K. N. Mukhin. Atomic Energy (USSR) (English translation) 1, No. 3 (Pub. in J. Nuclear Energy, 4, 94-102 (1957).)

Photoneutrons from an Sb + Be source were slowed down in water and in the resulting distribution of resonance ($E_B = 1.46$ e.v.) and thermal neutrons was measured with an In detector. The mean square slowing-down length to 1.46 e.v. was detd. as 5.86 ± 0.15 sq. cm. for a large source and 5.48 ± 0.15 sq. cm. for a small source. The diffusion length for thermal neutrons in 19° water was found to be 2.69 ± 0.02 cm. The mean slowing-down length from 1.46 to 0.025 e.v. (thermal energies) was detd. as 1.1 ± 0.5 sq. cm. for the large and small sources, resp.

James L. Lauer.

BARKOV, L. M.

"Slowing down of fission neutrons in uranium-water media," L. M. Barkov, A. P. Venediktov, and K. N. Mukhin, Atomic Energy (USSR) (English Translation), 1, No. 3, (Pub. in J. Nuclear Energy 4, 103-8 (1957)).

The d. distribution of resonance neutrons ($E = 1.46$ e.v.) originating from a point source of fission neutrons, has been measured in U-water lattices. The neutron distribution exhibited no anisotropy. The mean square slowing-down length has been detd. for water-to-U vol. ratios of 0.4, 1.0, and 2.0 as 65 ± 3 , 47 ± 2 , and 37 ± 2 sq. cm., resp. For water alone it was found to be 29.4 ± 1.5 sq. cm.

JLL

Barkov, L.M.

CALCULATIONS: GRAPHIC METHODS

"Graphic Method of Determining the Energy and Angles in the Scattering of Two Moving Relativistic Particles", by L.M. Barkov and B.A. Nikol'skiy, Institute of Atomic Energy, Academy of Sciences USSR, Pribory i Tekhnika Eksperimenta, No 2, March-April 1957, pp 40-43.

A graphic method is proposed for determining the energy and angles in scattering of two relativistic particles having an arbitrary relative motion. The proposed method is quite effective in the calculation of the interaction between the particles and the nucleus, using the Monte-Carlo method. Reference is made to work by Goldberger (Physical Review, 1948, 74, 1269), and Ulan and von Neumann (Bulletin of American Mathematical Society, 1947, 53, 1120).

Card 1/1

BARKOV, L.M.; MAKAR'IN, V.K.; MUKHIN, K.N.

Measuring the diffusion length of thermal neutrons in ice.
Atom.energ. 3 no.7:54-55 J1 '57. (MLRA 10:7)
(Neutrons) (Neuclear reactors)

AUTHOR BARKOV L.M., NIKOL'SKIY B.A. PA - 2898
TITLE Pions. (Survey of experimental Data.)
(π -mezony Obzor eksperimental'nykh dannykh.-Russian)
PERIODICAL Uspekhi Fiz. Nauk 1957, Vol 61, Nr 3, pp 341-398 (USSR)
Received: 5/1957 Reviewed: 6/1957
ABSTRACT The present survey systematizes the most important
experimental data on the properties of pions and their
interaction with nucleons and nuclei.
The first part deals with the interaction of pions with
nucleons and is divided into the following sections:
the properties of pions, the scattering of pions by
nucleons (phase analysis of this scattering, dependence
of the total cross section of this scattering on energy),
the creation of pions on the occasion of nucleon-nucleon-
collisions, the creation of pions under the influence
exercised by γ -quanta.
Summary of first part: The energy dependence of the
cross sections of photoproduction and the scattering of
pions by nucleons have many features in common. The
cross sections of both processes attain their maximum
at the energy $E_{\pi} = 110 - 120$ MeV of the pions in the

CARD 1/3

PA - 2898

Pions. (Survey of experimental Data)

center-of-mass system, Also the "width of the maximum" in the cross sections of these processes is nearly identical. "Resonance" in the cross sections of photoproduction and scattering of pions by nucleons is determined by interaction in the state with the total angular momentum and the isotopic spin $3/2$. Both these processes apparently pass through one and the same intermediary state of the excited nucleons. Experimental data, anyhow, tend to confirm a profound inner connection between scattering processes and the photoproduction of pions on nucleons.

The second part deals with the interactions of pions with nuclei and is divided into the following sections: The interaction of pions with nuclei (elastic scattering, the cross section of recharging, nonelastic scattering, absorption of pions), the photoproduction of pions on nuclei (on deuterium, on complicated nuclei), the production of pions by nucleons on nuclei (the dependence of the production cross section of the pions upon the energy of the nucleon, the energy spectrum of the pions, the dependence of the production cross section of pions upon A , the ratio of the production cross section of

CARD 2/3

PA - 2898

Pions. (Survey of experimental Data)

mesons with different charges the effects connected with
the action at the COULOMB field of the nuclei, the
mechanism of the production of pions on nuclei.
(39 Illustrations and 25 Tables)

ASSOCIATION: not given.

PRESENTED BY: -

SUBMITTED: -

AVAILABLE: Library of Congress.

CARD 3/3

BARKOV, I. M.

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✓ 3698
PRODUCTION OF SLOW π^+ -MESONS IN PHOTOGRAPHIC
EMULSION NUCLEI BY 460 MEV PROTONS AND NEU-
TRONS OF 460 MEV EFFECTIVE ENERGY. Y. V. Albers,
I. M. Barkov, K. I. Gerasimov, I. I. Gurevich, K. N.
Bukin, B. A. Nikol'ski, and E. P. Tomarkova. Soviet Phys.
JETP 3, 513-50(1957) Jas.

2

The method of an emulsion chamber was used to investi-
gate the production of charged mesons by 460-Mev protons
and neutrons of 400 Mev effective energy. (auth)

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BACK

AUTHORS: Barkov, L.M., Makar'in, V.K., Mukhin, K.N. 89-7-13/32

TITLE: Measuring of the Diffusion Length of the Thermal Neutrons in Ice
(Izmereniye diffuzionnoy dliny teplovykh neytronov vo l'du)

PERIODICAL: Atomnaya Energiya, 1957, Vol. 3, Nr 7, pp. 54-55 (USSR)

ABSTRACT: In an ice prism of $100 \times 100 \times 130 \text{ cm}^3$ the authors carried out measurements of the distribution of the density of the thermal neutrons which occur with slowing down of neutrons of a $^{235}\text{U} + \text{Be}$ source. The source was fitted into the center of the prism and an indium foil (by means of which the density of the thermal neutrons was measured) was irradiated at various distances from the source in channels within the prism. ($17.4 \text{ R} \approx 31 \text{ cm}$). For the purpose of eliminating the influence exercised by the cavity, the indium foil was irradiated inside ice rods which were fitted within the channels. The activation due to the resonance neutrons is infinitely small in the intervals $R \approx 17 \text{ cm}$ because the density of the resonance neutrons at increasing distance from the source decreases rapidly. The activation by the resonance neutrons at $R = 17 \text{ cm}$ amounts to only 0.1% of the entire activation of the foil. The method of the measurements was described already in one of the authors previous works. The diffusion length for ice at

Card 1/2

Measuring of the Diffusion Length of the Thermal Neutrons
in Ice

89-7-13/32

$t^0 = -14^{\circ}\text{C}$ amounted to $L_i = 2.85 \pm 0.05$ cm. The density of the ice was determined hydrostatically and amounted to 0.89 ± 0.01 g/cm³. The value obtained for the diffusion length L_i of the thermal neutrons in ice can be compared with the previously measured diffusion length of the neutrons in water: $L_w = 2.58 \pm 0.02$ cm. When comparing the value, the various ranges of the absorption σ_c and the transition τ_r for water and ice must be taken into account. Next, some details are discussed. The agreement of the experimental value for L_i with that of L_w (by taking account of the dependence of the ranges σ_c and τ_r upon the density and the temperature) indicates a slight influence of the modification of the chemical binding upon the diffusion length on the occasion of transition from water to ice. ($L = 0.1$ cm). There is 1 Slavic reference.

SUBMITTED: February 5, 1957

AVAILABLE: Library of Congress

1. Neutrons - Diffusion - measurement
2. Ice - Applications

Card 2/2

BARKOV, L.M.; SAMOYLOVICH, D.M.

Development of nuclear emulsions. Dokl.AN SSSR 136 no.5:1059-
1062 F '61. (MIRA 14:5)

1. Predstavleno akad. A.P.Aleksandrovym.
(Photography, Particle track--Developing and developers)

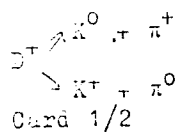
S/056/62/043/001/047/056
B102/B104

AUTHORS: Barkov, L. M., Mukhin, K. N., Ogurtsov, V. V.,
Romantseva, A. S., Svetloolobov, I. A., Chuyeva, S. A.,
Shlyapnikov, R. S., Likhachev, M. F., Stavinskiy, V. S.,
Strunov, L. N.

TITLE: The problem of the D^+ -meson

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43,
no. 1(7), 1962, 335-337

TEXT: The authors have searched for a D^+ -meson production or a decay among 14,000 pairs of photographs. A propane bubble chamber with pulsed magnetic field was irradiated with a beam of positively charged particles (momentum ≈ 1.8 Bev/c) containing up to 9% K^+ mesons. The processes looked for were $K^+ + p \rightarrow D^+ + \Sigma^+$ and



The problem of the D^+ -meson

S/056/62/043/001/047/056
B102/B104

The first branch of the decay reaction is the more possible. Neither a process $K^+ + p \rightarrow D^+ + \Sigma^+$ nor one of the type $K^+ + n \rightarrow D^+ + \Lambda^0$ could be found. It is inferred that the D^+ meson production cross section in K^+N reactions will be smaller than $1.2 \cdot 10^{-29} \text{ cm}^2$.

ASSOCIATION: Institut atomnoy energii (Institute of Atomic Energy)
(R. S. Shlyapnikov); Ob"yedinennyy institut yadernykh
issledovaniy (Joint Institute of Nuclear Research)
(L. N. Strunov)

SUBMITTED: April 25, 1962

Card 2/2

BARKOV, L.M.; SUYETIN, V.A.

Electron-optical system with diffraction gratings for measuring
linear motions. Prib. i tekhn. eksp. 8 no.5:196-197 S-0 '63.
(MIRA 16:12)

1. Institut atomnoy energii AN SSSR.

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ACCESSION NR: AP5021359

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621.318.3:621.384.634

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AUTHOR: Akhmanov, V. V.; Barkov, L. M.; Nikol'skiy, B. A.; Sokolov, B. V.;
Khakimov, S. Kh.; Shestakov, V. D.; Bobovikov, R. S.; Dobretsov, Yu. P.;
Zamolodchikov, B. I.

TITLE: An arrangement for producing pulsed magnetic fields of strengths up to 150 kilogauss

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1965, 182-187

TOPIC TAGS: pulsed magnetic field, thyatron, synchrocyclotron

ABSTRACT: The units of an apparatus for producing a pulsed magnetic field of 146 kilogauss in a space of about 600 cm³ are described. Pulsed magnets² of beryllium bronze are powered by a capacitor bank of 0.1 farad capacitance. The capacitors are charged through limit resistances to 2 kv from a thyatron rectifier, and a I-100/5 ignitron is used as the switching element. Synchronization and control for operation with a synchrocyclotron are obtained by a special circuit. This arrangement for obtaining the pulsed field operates reliably. In the tests two separate magnets were used, each producing a field of 146 kilogauss. The use of the I-100/5

Card 1/2

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ACCESSION NR: AP5021359

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ignitron when proper heating and cooling were maintained prior to switching in the field secured operation without breakdown for 20—40 hr at a switching rate of 10/min. The joint operation of the pulsed magnet with the synchrocyclotron required some rearrangement of the control system to guarantee that no particle was emitted without accompaniment of a pulsed magnetic field. "The authors express their thanks to V. I. Danilov, T. N. Tomilina, and I. B. Yanchevich for carrying on the work. The authors are grateful to I. I. Gurevich and V. P. Dzhelepov for their constant interest and help in the work. The authors express their thanks to V. I. Smirnov, F. Ye. Gugin, I. P. Lavrushkin, Yu. V. Maksimov, A. V. Shestov, V. I. Ivanov, I. M. Markashev, A. F. Burtsev, B. V. Degtyarev, N. P. Chistyakov, and M. T. Berezov for their aid in maintaining and operating the equipment." Orig. art. has: 11 figures and 1 table. [04]

ASSOCIATION: Institut atomnoy energii GKAE, Moscow (Institute of Atomic Energy GKAE); IYaP OIYaI ; NII EFA; MIFI

SUBMITTED: 17Jun64

ENCL: 00

SUB CODE: EAMP

NO REF SOV: 001

OTHER: 003

ATD PRESS: 4110


Card 2/2

LOSHAKOV, K.; - BARKOV, M.

Mechanized loading of railroad cars. Muk.-elev. prom. 26
no. 12:26 D '60. (MIRA 13:12)

1. Atbasarskaya perevalochnaya baza khleboproduktov Almaolinskoy
oblasti.

(Loading and unloading)

BARKOV, N., inzh. (Khar'kov); POLTAVSKIY, G. (Cherkassy); CHELNOKOV, I.B.;
GLADKIKH, I.A.; NEGRIYENKO, B.A.; BARA'NIKOV, M.

Readers' letters. Bezop.truda v prom. 7 no.3:34 Mr '63.

(MIRA 16:3)

1. Komandiry gornospasatel'nykh vsvodov, Donetskaya obl. (for
Chelnokov, Gladkikh, Negriyenko). 2. Shakhta "Mariya-Glubokaya",
Luganskaya obl. (for Barannikov).

(Industrial safety)

PARKOV, N.G., inzh.

Use of television by electric power plants. *Telesenergetika*
(no.3:26-28 Ag '61. (SIR 14:13)
(Electric power plants)
(Industrial television)

BARKOV, N.I., mladshiy nauchnyy sotrudnik

Using the melting method in drilling deep holes in the ice
cover. Inform. biul. Sov. antark. eksp. no.40:39-42 '63.

(MIRA 16:7)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy
institut.

BARKOV, N.I.

Sea at Novolazarev Station. Inform. biul. Sov. antark. eksp.
no.40:52-53 '63. (MIRA 16:7)

(Novolazarev Station, Antarctica--Ice)

BARKOV, N.I., mladshiy nauchnyy sotrudnik; KONOVALOV, G.V., mladshiy nauchnyy sotrudnik

Nature of the melting of the surface of a glacier north of the Schirmacher Oasis. Inform. ^{biul.}Sov. antark. e^{sp.} no. 41:27-30 '63.

(MIRA 17:1)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.

BARKOV, N.I.

Convex traces in the snow. Inform, tiul, Sov, antark. eksp. no. 41:67-68
'63. (MIRA 17:1)

BARKOV, N.I., mladshiy nauchnyy sotrudnik

"Cyclone," device for measuring drifting snow and work with it at the
Mirnyy Observatory. Inform.biul.Sov.antark.eksp. no.42:51-55 '63.
(MIRA 17:1)

1. rkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.

BARKOV, N.I.

Sun as a sculptor. Inform.biul.Sov.antark.eksp. no.42:63-64 163.
(MIRA 17:1)

BARKOV, N.I., mladshiy nauchnyy sotrudnik; IVANOV, V.B., kand.geograf.nauk

Contact method of photographing snow and firn specimens. Inform.
biul. Sov. antark. eksp. no.45:45-47 '64.

(MIRA 18:1)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy
institut (for Barkov). 2. Leningradskiy gosudarstvennyy universitet
im. A.A.Zhdanova (for Ivanov).

ВВЕДЕНИЕ. 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.

1. (Северный и антарктический научно-исследовательский институт).

2. (Северный и антарктический научно-исследовательский институт).

BARKOV, N.I.

Gigantic boulder on the glacier. Inform.biul.Sov.antark.eksp.
no.44:81-82 '63. (MIRA 17:4)

BARKOV, N. K.: Master Med Sci (diss) -- "On the combined effect of derivatives of the phenothiazine series and analgesics". Moscow, 1959. 42 pp (Acad Med Sci USSR), 250 copies (KI, No 11, 1959, 122)

BARKOV, N.K.

Analgesic properties of phenothiazine derivatives. Farm.1 toks.
23 no.4:311-315 JI-Ag '60. (MIRA 14:3)

1. Laboratoriya chastnoy farmakologii (zav. - deystvitel'nyy chlen
AMN SSSR prof. V.V.Zakusov) Instituta farmakologii i khimioterapii
AMN SSSR.

(PHENOTHAZINES)

(ANALGESICS)

BARKOV, N.K.

Effect of phenothiazine derivatives on the action of analgesics.
Biul. eksp. biol. i med. no.2:60-64, F '61. (MIRA 14:5)

1. Iz laboratorii chastnoy farmakologii (zav. - deystvitel'nyy
chlen AMN SSSR V.V.Zakusov) Instituta farmakologii i khimioterapii
AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR
V.V.Zakusovym.
(PHENOTHIAZINE) (ANALGESICS)

BARKOV, N.K.

Dependence of pharmacological effect upon the ratio of combined substances. Farm.i toks. 24 no.1:36-40 Ja-F '61. (MIRA 14:5)

1. Laboratoriya chastnoy farmakologii (zav. - deystvitel'nyy chlen AMN SSSR prof. V.V.Zakusov) Instituta farmakologii i khimioterapii AMN SSSR.

(ANALGESICS)

(ANTIPIRETICS)

BARKOV, N.K.

Analgesic activity of a combination of promedol with
phenothiazine derivatives. Eksper. khir. i anest. 8 no.4:75-77
Jl- Ag '63. (MIRA 17:5)

1. Laboratoriya chastnoy farmakologii (zaveduyushchiy-deystvitel'nyy
chlen AMN SSSR prof. V.V. Zakusov) Instituta framakologii i khimio-
terapii AMN SSSR.

BARKOV, N.K.

Analgesic action of quinine, promedol and aminazine mixtures.
Farm. i toks. 27 no.4:429-432 01-Ag '64.

(MIRA 17:11)

1. Laboratoriya chastnoy farmakologii (zav. - deystvitel'nyy
chlen ANI SSSR prof. V.V. Yakusov) Instituta farmakologii i
khimioterapii ANI SSSR, Moskva.

BARKOV, N.K.

Action of antorphin and ~~daftazol~~: under conditions of potentiated analgesia. Farm. i toks. 24 no.5:518-523 S-0 '61. (MIRA 14:10)

1. Laboratoriya chastnoy farmakologii (zav. - deystvitel'nyy chlen AMN SSSR prof. V.V.Zakusov) Instituta farmakologii i khimioterapii AMN SSSR.

(NORMORPHINE) (DAPAZOLE) (ANALGESIA)

BARKOV, N.K.

Analgesic properties of various phenothiazine derivatives. *Biul. eksp.biol.i med.* 50 no.9:90-93 S '60. (MIRA 13:11)

1. Iz laboratorii chastnoy farmakologii (zav. - deystvitel'nyy chlen AMN SSSR V.V. Zakusov) Instituta farmakologii i khimioterapii (dir. - deystvitel'nyy chlen AMN SSSR V.V. Zakusov) AMN SSSR, Moskva.

(PHENOTHIAZINE)

BARKOV, N.K.

Avtomaticheskie regulatory skorosti gidroturbin. Moskva, Gosenergoizdat, 1947.
130 p.

Automatic speed control of hydraulic turbines.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of
Congress, 1953.

BARKOV, N.K., N.A.POPOV and IA.F.FITSERMAN.

Eksploatatsiia gidroagregatov. Leningrad, Gosenergoizdat, 1949. 260 p. illus.
Bibliography: p. 2&0.

Operation of hydraulic units.

DLC: TJ870.B3

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of
Congress, 1953.