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1. Zaveduyushchiy proizvodstva Balakhninskogo kombinata  
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NIKOL'SKIY, M.I. \*non-confidential

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KIY NK

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April 15, 1957. The electrode active independent of the kind  
of electrode used, the meter is calibrated according to the  
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power transmission lines in areas with a highly polluted atmosphere.  
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(Electric lines--Overhead)

(Electric insulators and insulation--Testing)

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TIKHODEYEV, N.N.

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(Electric power distribution--Direct current)

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"Some aspects of automation in ore concentration plants."

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Mekhanobr Inst, Leningrad.

BLISHCHENKO, I.P.; BOCHAROV, I.N.; OLUSHAKOV, P.I.; MIRONOV, V.S.;  
NIKOL'SKIY, M.M.; NIKOL'SKIY, M.M.; PUCHKOV, I.B.; CHERNIKOV,  
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1. Сокращен "Фригидодая" (г. Верхута, Кови АССР)  
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**NIKOL'SKIY, N.M.**

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NIKOL'SKIY, N.M.

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NIKOL'SKIY, N.M.

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YAKOVLEV, I.I.; NIKOL'SKIY, N.M., personal'nyy pensioner; SIKORSKIY, A.N.

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8

EXCERPTA MEDICA Sec 2 Vol 12/7 Physiology July 59

1006. TIME OF ARISING OF ACTION POTENTIALS IN KALMAR'S GIANT AXON AND IN THE FROG'S SCIATIC NERVE (Russian text) - Nikol'skiy N. N. - BIOFIZIKA 1958, 3/5 (568 575) Graphs 2 Tables 4

The latent period of the spike at the stimulating electroc. was studied in the frog's sciatic nerve and in the giant axon of *Ommateostrephes sloanei-pacificus*. The latent period of the spike was measured in response to threshold stimuli varying in duration. When the latter varied between 5 msec. and 56  $\mu$ sec., the latent period changed, on the average, between 1.43 and 0.3 msec. in the frog's sciatic nerve. In the squid's giant axon, the latent period of the spike changed between 1.24 and 0.33 msec., when the duration of the stimuli varied between 2 msec. and 40  $\mu$ sec. At the rheobase, the duration of the latent period of the spike was equal to the utilization time (Hauptnutzzeit). When the duration of the stimulation was shortened, the latent period declined in disproportion to the change in the stimulation time and tended to approach the limits attained when the stimulation duration is shorter than 100  $\mu$ sec. The effects of conservation (survival) in Ringer's solution and of sodium citrate and of  $\text{CaCl}_2$  upon the latent period of the spike were also studied in the frog's sciatic nerve. An insignificant change in the latent period was found in response to considerable changes in the 'strength duration' curve. Measurement of the utilization time for defining the latent period of the spike at the rheobase is suggested.

NIKOL'SKIY, N.N.

Changes in the functional characteristics of the frog nerve during  
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(NERVES) (ELECTROPHYSIOLOGY)



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1. Laboratoriya fiziologii kletki Instituta tsitologii AN SSSR,  
Leningrad.

(NERVES)

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POLYANSKIY, Yu.I., otv.red.; ALEKSANDROV, V.Ye., red.; GINETSINSKIY, A.O.,  
red.; ZHUKOV, Ye.K., red.; ZHIRAUNSKIY, A.V., red.; KARASIK, V.M.,  
red.; KIRO, M.B., red.; LOZINA-LOZINSKIY, L.K., red.; NIKOL'SKIY,  
N.M., red.; PARIBOK, V.P., red.; ROMANOV, S.N., red.; SVETLOV,  
P.O., red.; SOKOLOV, I.I., red.; TROSHIN, A.S., red.; USHAKOV,  
B.P., red.; SHERSTORITOV, O.Ye., red. izd-va; PEYBER, R.S.,  
tekhn.red.

[Problems in cytology and general physiology] Voprosy tsitologii  
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398 p.

1. Akademiya nauk SSSR. Institut tsitologii. 2. Institut evo-  
lyutsionnoy fiziologii im. I.M.Sechenova AN SSSR, Leningrad (for  
Ginetsinskiy). 3. Fiziologicheskii institut im. A.A.Ukhtomskogo pri  
Leningradskom universitete im. A.A.Edenova (for Zhakov). 4. Insti-  
tut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR,  
Leningrad (for Karasik). 5. Institut tsitologii AN SSSR, Leningrad  
(for Kiro, Paribok, Sokolov). 6. Institut fiziologii im. I.P.Pavlova  
AN SSSR, Leningrad (for Romanov). 7. Laboratoriya embriologii  
Instituta eksperimental'noy meditsiny AN SSSR, Leningrad (for  
Svetlov). 8. Laboratoriya fiziologii kletki Instituta tsitologii  
AN SSSR, Leningrad (for Troshin). 9. Laboratoriya sravnitel'noy  
tsitologii Instituta tsitologii AN SSSR, Leningrad (for Ushakov).  
(CYTOLOGY) (PHYSIOLOGY)

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TSitologia 4 no.1:98-99 Ja-F '62.

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Distribution of neutral red between the giant axon of Sepia and the  
medium. *Tsitologiya* 4 no.2:171-181 Mr-Apr '62. (MIRA 15:8)

1. Laboratoriya fiziologii kletki Instituta tsitologii AN SSSR,  
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(STAINS AND STAINING ( MICROSCOPY))

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Nature of resting potential in phytophagous insects. *Tsitologiya*  
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& no.4:451-453 J1-Af '62.

1. Laboratoriya fiziologii kletki Instituta tsitologii AN SSSR,  
Leningrad.

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VERENINOV, A.A.; NIKOL'SKIY, N.N.; ROZENTAL', D.L.

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1. Laboratoriya fiziologii kletki Instituta tsitologii AN SSSR  
Leningrad.

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Effect of alterations on the sorption of neutral red by the  
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1. Laboratoriya fiziologii kletki Instituta tsitologii AN  
SSSR, Leningrad.

(CEPHALOPODA) (CELLS) (SORPTION)  
(NEUTRALRED)



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and its environment. Tsitologiya 5 no.4:414-419 JI-Ag '63.  
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1. Laboratoriya fiziologii kletki Instituta tsitologii AN  
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1. Institut fiziologii AN BUL, unnumbered.

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1. Institut tsitologii AN SSSR, Leningrad.

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Genetic properties of the muscle fibers of a frog. *TSitologia*  
7 no.2:173-181 Apr 1965. (MIRA 18:7)

1. Laboratoriya fiziologii kletki Instituta tsitologii AN SSSR,  
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NEZOLINIKY, N.N. ; VENOGRADOVA, N.A.

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566-570 11-12 '65. (MIRA 18:9)

1. laboratoriya fiziologii kletki Instituta tsitologii AN SSSR,  
Leningrad.

NIKOL'SKIY, N. N.

23

Lecturer, Department of Soil Science  
Moscow Agricultural Academy imeni Timiryazev

Studies on experimental tract of moisture, water  
fixation and chemical properties of soil.

NIKOL'SKIY, N. N.

H/5  
923.876  
.89

Spravochnik po orfografii i punktatsii dlya rabotnikov pechati (Handbook on orthography and punctuation for printers, by) K. I. Bylinskiy i N. N. Nikol'skiy. Moskva, Iskusstvo, 1952-

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Lib. has: 1952 - 2d. ed.  
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NIKOL'SKIY, N. N.

Nikol'skiy, N. N. - "The water content of fields of porous podzols when worked down to the roots", Doklady (Mosk. s.-kh. akad. in. Timiryazeva), Issue 8, 1948 (In index: 1949), p. 123-27.

SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).



USSR / Soil Science. Physical and Chemical Properties of Soils. J

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95687.

Author : ~~Nikol'skiy, N. N.~~

Inst : Moscow Agricultural Academy inoni K. A. Timiryazev.

Title : Structure of the Upper Horizon of Different Types and Varieties of Soils.

Orig Pub: Dokl. Mosk. s.-kh. akad. im. K. A. Timiryazova, 1956, 1, No 26, 73-77.

Abstract: Results are cited of a determination of aggregate and microaggregate compositions, and the content in the aggregates of particles less than 0.05 mm, in chernozem and solonetz soils of the Kamen-naya Steppe and in the turf-podzolic soils of the "Shchapovo" Uchkhoz (training farm).

Card 1/1

8

NIKOL'SKIY, N.N., dots., kand. nauk.

Soils of the central massif on the "Shchapovo" experimental farm.  
Botl. VNIIA no.29:287-291 '57. (NINA 11:6)  
(Moscow Province--Soils)

Country : USSR  
Category : Soil Science. Physical and Chemical Properties of Soils. J

Abs Jour : RZhBiol., No 6, 1959, No 24586

Author : Nikol'skiy, N. N.  
Inst : Moscow Agricultural Academy imeni K. A. Timiryazev.

Title : The Effect of Hydroxide Solutions of Mono- and Bivalent Minerals on the Water Resistance of the Chernozem's Soil Aggregates.

Orig Pub : Dokl. Mosk. s.-kh. akad. im. K. A. Timiryazeva, 1957, vyp. 31, 228-234

Abstract : The effect of the hydroxide solutions of Na, K, Ca, Mg and Ba on the structure stability of the chernozem virgin lands in Kamen Steppe was compared. The soils were from under the forest and from old arable lands. The effect of alkaline and acid solutions from a pH higher

Card : 1/3

NIKOL'SKIY, Nikolay Nikolayevich, kand.sel'skokhoz.nauk; CHEKLYSHKIN, Yu.G.,  
red.; NAIKOVA, N.N., tekhn.red.; GOR'KOVA, E.D., tekhn.red.

[Soil science; a textbook for practical experiments] Pochvovedenie;  
posobie dlia prakticheskikh zaniatii. Moskva, Gos.isd-vo sel'khoz.  
lit-ry, 1959. 320 p. (MIRA 13:7)  
(Soils) (Agricultural physics)

NIKOL'SKIY, N.N., kand. sel'skokhozyaystvennykh nauk, dotsent

Role of aggregated and single-grain state of mechanical elements  
in the structural formation of virgin and old soils [with summary  
in English]. Izv. TSKhA no.2:96-113 '61. (MIRA 14:8)  
(Soil physics)

NIKOL'SKIY, Nikolay Nikolayevich; YEFIMOV, A.L., red.; KOZLOVSKAYA,  
M.D., tekhn. red.

[Soil science] Pochvovedenie. Moskva, Uchpedgiz, 1963. 303 p.  
(MIRA 17:3)

L 14454-66 EWT(m)/T/ETC(m)-6 WW/DJ

ACC NR: AP6002959

(N)

SOURCE CODE: UR/0286/65/000/024/0128/0128

INVENTOR: Blokhin, Yu. I.; Nikol'skiy, N. N.; Kharlamov, B. V.

39

ORG: none

TITLE: Roller bearing with positive separator lubrication. Class 47, No. 177238

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 128

TOPIC TAGS: roller bearing, lubrication

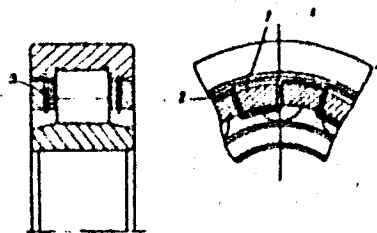
ABSTRACT: This Author's Certificate introduces a roller bearing with forced lubrication of the separator which is made with radial lubrication apertures on both sides of the rollers. Reliability of lubrication is improved and the design is simplified by making annular grooves along the outer surface of the separator passing through the centers of the radial apertures. A continuous wick is laid in these grooves leading from each aperture to the corresponding annular groove.

Card 1/2

UDC: 621.822.84-722.2

L 14454-66

ACC NR: AP6002959



1 - annular grooves; 2 - continuous wick; 3 - radial apertures.

SUB CODE: 13/ *de*  
Card 2/2

SUBM DATE: 15Jun64



NIKOL'SKIĬ, N. P.

Nikol'skiĭ, N. P., Fils, I. E. - "Oxidation potentials of hypochlorite solutions."  
(p. 1298)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1952, Vol. 22, No. 8

NIKOL'SKIY, N.P.; KUPRIN, V.A.; KRISTENKO, N.I. (Novosibirsk)

What hampers the shortening of car detention time during loading operations. Zhel.dor.transp. 42 no.7:40-44 (NIRA 13:7) J1 '60.

1. Nachal'nik Tomskoy zheleznoy dorogi (for Nikol'skiy)
2. Nachal'nik gruzovoy sluzhby Tomskoy zheleznoy dorogi (for Kuprin).
3. Glavnyy inshtener sluzhby dvizheniya Tomskoy zheleznoy dorogi (for Kristenko).

(Railroads--Freight cars)

NIKOLSKY, N.S.

Some characteristics of the distribution of ore mineralization  
on Sakhalin. Trudy Sakh. kemp. nauch.-issl. inst. AN SSSR no.15:  
14-21 '63. (MIRA 17:10)

NIKOL'SKIY, N.S.

Prenitization in the subalkaline intrusive rocks of Sakhalin.  
Trudy Sakh. kmp. nauch. issl. inst. AN SSSR no. 15:66-71 '69.  
(MIRA 17:10)

NIKOL'SKIY, N.V.

Electric furnace for tempering intake manifolds of diesel engines.  
From.energ.11 no.12:17 D '56. (NIRA 10:1)  
(Electric furnaces) (Diesel engines)

NIKOL'SKIY, N.V., inzh.; RIVKIN, Yu.M., inzh., nauchnyy red.; RUDEMAN,  
A.G., red.izd-va; OSENKO, L.M., tekhn. red.

[Assembly of boiler units] Montazh kotel'nykh ustanovok. Moskva,  
Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 302 p.  
(MIRA 11.12)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye po montazhu tekhnologicheskogo oborudovaniya i proizvodstvu montazhnykh robot.  
(Boilers) (Electric power plants--Design and construction)

NIKOL'SKIY, N.Y., inst.

Park light with six lamps. Svetotekhnika 5 no.8:29 Ag '59.  
(KINA 13:2)

1. Chelyabinskiy trakternyy zavod.  
(Garden lighting)

NIKOL'SKIY, N.V.

Contact rail device for cranes operating in the open air. From.  
energ. 15 no.6:26-27 Je '60. (MIRA 13:7)  
(Electric cranes)



NIKOL'SKIY, N.Y.

Inaccurate circuit for disconnecting the flexible trolley wires when they break. Prom.enarg. 16 no.5:59 Ny '61. (MIRA 14:7)

1. Chelyabinskiy traktorny zavod.  
(Electric cranes)

NIKOL'SKIY, O.G., inzh.; PETRUNYA, A.G., inzh.

Hermetic sealing of ship holds. Sudostroenie 27 no.6:57-59  
Je '61. (MIRA 14:6)

(Bulkheads (Naval architecture))

NIKOL'SKIY, O.G., inzh.

Special lining for testing tanks with compressed air.  
Sudostroenie 27 no.10:69 0 '61. (MIRA 14:12)  
(Tanks—Testing)

DRYDA, A.S., ... ..

Experience in ... ..  
pressing station. Perm. ... .. '65.

1913A 1137

NIKOL'SKIY, O. P.

Certain Problems of the Genesis of Hydrothermal Deposits (Ukrainian, with  
resume in Russian) Geologichny zh., 15, No 2, 1953, 19-31.

The chemical composition of the containing rocks influences the composition  
and determines the metal-bearing quality of granitic magma. Ore-bearing zones and  
belts are connected with definite types of the containing rocks. Individual  
intrusive complexes are characterized by multiphase (environmental) formation  
according to six schemes listed. (RZhGeol, No 1, 1954)

SO: W-31128, 11 Jan. 55

Name: NIKOL'SKIY, P. N.

Dissertation: Study of power characteristics of the control apparatus  
of hydraulic turbines

Degree: Cand Tech Sci

*Defended at.*  
~~approximate~~

Min Higher Education USSR, Leningrad Polytechnical Inst  
imeni M. I. Kalinin

*Publication*

~~Defense Date~~, Place: 1956, Leningrad

Source: Knizhnaya Letopis', No 1, 1957

NIKOL'SKIY, P.F.

VASURO, E.G.; NIKOL'SKIY, P.F.

Capability of oligophrenic and normal school-age children for retaining traces of visual stimulations. Vop. psikhol. 2 no.6: 94-100 M-D '56. (MLBA 10:2)

1. Gosudarstvennyy yestetvenno-nauchnyy institut imeni P.F. Lesgafta i vspomogatel'naya shkola No.231, Leningrad. (Recognition (Psychology)) (Mentally handicapped children)

SOV/124-58-7-7652

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 7, p 45 (USSR)

AUTHOR: Nikol'skiy, P.N.

TITLE: The Influence Exerted by the Shape of the Volute Casing of a Water Turbine and by the Arrangement of its Distributor Guide Vanes on the Force Characteristics of the Distributor (Vliyaniye formy podvodyashchey kamery i raspolozheniya lopatok napravlyayushchego apparata gidroturbiny na yego silovyye kharakteristiki)

PERIODICAL: V sb.: Gidroturbostroyeniye. Vol 4. Moscow-Leningrad, Mashgiz, 1957, pp 43-54

ABSTRACT: To reduce the stresses on the various parts of a water-turbine distributor, it is important to know in designing the distributor which of the shapes that could be given it and what conditions of flow produced by the turbine's volute casing will yield the minimum values for the forces and moments acting on the vanes. Results are set forth of investigations made of the influence of the placement of a vane along the distributor circumference and of the shape of the volute casing on the forces and moments acting on the vanes. By way of example, results

Card 1/2



SOV/124-58-7-7652

The Influence Exerted by the Shape of the Volute Casing (cont.)

are given of a study undertaken of a distributor with symmetrical vane profiles in an S-49 spiral casing. The tests were carried out on a model having a 460-mm diameter, a PL-587 rotor, and an S-49 spiral casing with an angle of envelopment  $\theta_0 = 139^\circ$ .

B.V. Aronov

1. Turbines--Analysis    2. Water--Applications    3. Turbines--Test results

Card 2/2

AP6012175 (N) SOURCE CODE: UR/0413/66/000/007/0108/0108

INVENTOR: Marantsev, A. M. ; Nikol' skiy, P. N.

ORG: none

TITLE: Lifesaving device.<sup>2</sup> Class 65, No. 180494<sup>1</sup>

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 108

TOPIC TAGS: life raft, caprone net, float, floating anchor

ABSTRACT: An Author Certificate has been issued for a lifesaving device consisting of a towing cable and a caprone net with floats and a floating anchor. To improve the reliability of rescue work, the device is equipped with rafts mounted between the caprone net and the floating anchor, and the floats are connected to the towing cable by hooks (see Fig. 1). Orig. art. has: 1 figure. [Translation] [NT]

Card 1/2

UDC: 627.957.2

L 47091-60

ACC NR: AP6012175

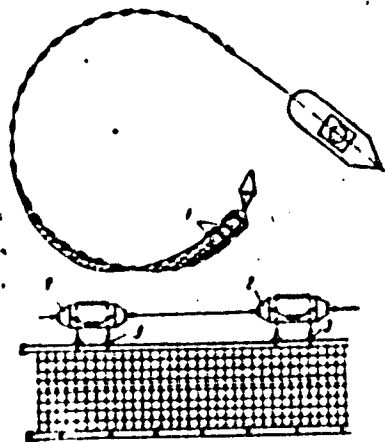


Fig. 1. Rescue device. 1—Rafts;  
2—floats; 3—hooks.

SUB CODE: 13/ SUBM DATE: 12Nov64/

Card 2/2 hs

LYUBIMOV, N.M., prof.; ALLAKHYERDYAN, D.A., dotsent; STAM, V.M., dotsent;  
GOL'DENBERG, A.M., dotsent; VINOGR, R.D., dotsent; AZARH, M.R.,  
dotsent; SHER, I.D., prof.; RIVKIN, B.B., dotsent; ABROSKIN, A.A.,  
dotsent; DYMCHITS, I.A., dotsent [deceased]; KON'SHIN, P.V., prof.;  
IPATOV, P.F., dotsent; NIKOL'SKIY, P.S., kand.ekon.nauk; ROSHCHINA, L.,  
red.; TELEGINA, T., tekhn.red.

[Finance in the U.S.S.R.; a collection] Finansy SSSR. Avtorskii  
kollektiv pod rukovodstvom D.A.Allakhverdiana i N.M.Liubimova.  
Moskva, Gosfinizdat, 1958. 391 p. (MIRA 12:4)

1. Moskovskiy finansovyy institut (for all except Roshchina, Telegina).  
(Finance)

ALLAKHVERDYAN, D.A., prof.; IPATOV, P.F., dots.; STAM, V.M., dots.;  
ABRESKIN, A.A., dots.; VINOGRAD, R.D., dots.; AZARKH, M.R.,  
dots.; SHER, I.D., prof.; KON'SHIN, F.V., prof.; NIKOL'SKIY,  
E.S., dots.; KONDRAT'YEV, A., red.; FILIPPOVA, E., red.;  
LEBEDEV, A., tekhn. red.

[Finances of the U.S.S.R.] Finansy SSSR. Moskva, Gosfinizdat,  
1962. 412 p. (MIRA 16:1)

1. Moskovskiy finansovyy institut (for all except Kondrat'yev,  
Filippova, Lebedev).

(Finance)

NIKOLENII, R. H.; SHLYAPNIKOV, E. G.; ALAKHVERDIYEV, I. A.; BAGIYEV, R. V.; KUCHENKOV, I. A.;  
FOMICHEV, T. F.; KASK, Ye. A.

"On zooveterinary servicing of consolidated kolkhoz."

SO: Vet. 28 (12) 1951, p. 17

Veterinarian, Director Alabug Zooveterinary District, Brodokolnakh Rayon, Chelyabinsk Oblast.

L-01067-66 ENT(m)/EPP(c)/EPP(n)-2/ENG(m) - WW/DM

ACCESSION NR: AP5014537

UR/0089/65/01B/005/0474/0477  
621.039.51

AUTHOR: Krasnoyarov, N. V.; Nikol'skiy, R. V.; Yefimov, I. A.

19  
B

TITLE: Investigation of power effects of the BR-5 reactor

SOURCE: Atomnaya energiya, v. 18, no. 5, 1965, 474-477

TOPIC TERMS: fast reactor, fuel element warmup, reactivity variation, power effect

ABSTRACT: After pointing out first that earlier studies were made for the most part with the control-rod regulating system disconnected, but that it is more desirable to test the response of the reactor to a change in the power load with the regulating system turned on, the authors describe experiments in which a sudden change in power was made and the behavior of the control rod was identified with the transient characteristics of the reactor. The input parameter was taken to be the change in power, and the output parameter the reactivity. The tests were made at various coolant flow rates. All tests were made on the linear part of the control rod, so as to make it convenient to convert from changes in rod position to changes in reactivity. Principal attention was paid to methods in which the power-response component connected with the warm-up of the fuel can be separated. The results show that for each rate of coolant flow there is one section on the plot

Card 1/2

NIKOL'SKIY, S.A.

The most important thing is a correct agricultural system.  
Zemledelie 5 no.6:75-81 Je '57. (MLRA 10:8)

1. Agromom 1-y Dmitrovskoy Mashinno-traktornoy stantsii Moskovskoy  
oblasti.

(Dmitrov District--Agriculture)  
(Rotation of crops)



NIKOL'SKIY, S.F., inventor [deceased]

Experience with the use of vibrating pile drivers. *Elek.sta.* 25 no.12:  
38-40 B '54. (MIRA 7:12)  
(Filing)

USSR/Nuclear Physics - Counters, Electronic Jul 48  
Nuclear Physics - Cosmic Radiation

"Use of the Proportional Counter Method for  
Studying the Genetic Relationship of Impacts  
Caused by Cosmic Rays," N. Dobrotin, S. Nikol'skiy,  
V. Tyrlin, Phys Inst Imeni P. N. Lebedev, Acad  
Sci USSR, 21 pp

"Dok Ak Nauk SSSR" Vol XXI, No 2

Continuation of previous paper (see 58786). Ex-  
periments were performed in summer of 1947, 3,860  
meters above sea level. Results confirm previous  
conclusion, that many of the coincidences in

11/19/85

USSR/Nuclear Physics - Counters, Jul 48  
Electronic (Contd)

proportional counters, whether placed side by side or  
above each other, are caused by genetically con-  
nected fissions. Submitted 15 May 49.

11/19/85

1A 11/17/79

USSR/Nuclear Physics - Ionization Chambers Apr 49  
Nuclear Physics - Elementary Particles

"Pulse Coincidences in Several Ionization Chambers," V. Nikolayev, S. Nikol'skiy, L. Balcegov, Phys Inst Imeni P. F. Lazarev, Acad Sci USSR, 3 pp

"Dokl Ak Nauk SSSR" Vol LV, No 4

Used cylindrical chambers with housing made from copper one mm thick, with a diameter of 11 cm and effective length of the external electrode

41/Ag993

USSR/Nuclear Physics - Ionization Chambers (Contd) Apr 49

25 cm. Chambers were filled with technical argon to a pressure of 3 at. Carried out two experiments with four chambers placed in a square arrangement. In the first, chambers were unshielded, and in the second, surrounded by an aluminum filter 1.2 cm thick. Insertion of absorbing substance did not cause any noticeable decrease in the number of double coincidences, contradicting the assumption that coincident pulses are created by nuclear fissions in the wall of one chamber, chipings of which penetrate into the second chamber. Submitted by Acad D. V. Skobel'tsyn, 31 Jan 49.

41/Ag993

SECRETARY G. I.

PA 111111

USSR/Nuclear Physics - Counters, Ionization 1 Oct 50

"Coinciding Pulses in Several Ionization Chambers,"  
S. I. Nikol'skiy

"Dok Ak Nauk SSSR" Vol LXXIV, No 4, pp 695-698

Correlates number of double, triple, quadruple coincidences for various conditions: without carbon; under graphite; aluminum between chambers with carbon under them; etc. Work directed by N. A. Dobrotin.  
Submitted 12 Jul 50 by D. V. Skobel'tsyn.

17212

S/048/62/026/005/017/022  
B108/B102

3,2410  
AUTHORS:

Nikol'skiy, S. I., Murzina, Ye. A., Tukish, Ye. I., and  
Yakovlev, V. I.

TITLE:

Nuclear-active particles and high-energy electron-photon  
avalanches in extensive atmospheric showers of cosmic-ray  
particles

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26,  
no. 5, 1962, 668-673

TEXT: An ionization chamber and a counter device with a surface area of  
25 m<sup>2</sup> were used to measure the total number and energy of shower particles. B  
The errors in measurement varied from 20 to 40%. The energy of electron-  
photon showers induced by photons of 10<sup>10</sup> - 10<sup>12</sup> ev is proportional to the  
number N of particles. In the present case, it was determined from the  
ionization under 10 radiation units of lead: E = 1.2 · 10<sup>8</sup> N ev. The nuclear-  
active component was recorded by ionization chambers under a graphite  
layer (210 g/cm<sup>2</sup>) which caused the nuclear-active particles to impart most  
Card 1/3

Nuclear-active particles and...

S/048/62/026/005/017/022  
B108/B102

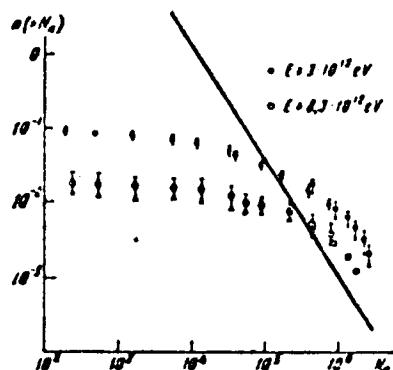


Fig. 4. Integral spectrum of extensive showers induced by nuclear-active particles. Straight line: shower spectrum without registration of high-energy nuclear-active particles.

←  
B

Fig. 4.

Card 3/3

NIKOL'SKIY, S. I.

Authors: ~~Bobrova, N.A., Grzevskaia, I.I., Rappoport, I.D., Grigorov, N.L.~~  
~~Nikol'skii, S.I.~~

Title: Ionization spectrum of particles of the soft and hard components of cosmic radiation.

Journal: Doklady Akademii Nauk SSSR, 1951, Vol.77, No. 4, P. 599

Subject: Physics

From: D.S.I.R., Oct. 1951

НИКОЛАЙ, С.

"Characteristics of certain classes of functions of several variables based on differentiable sets and their application in the calculus of variations." Tr. from the Russian. Kozlemenyei, Budapest, Vol 3, No 2, 1953, p. 243

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress



MINIBAH, S. I.

MINOL'KIN, S. I. — "Investigation of Genetics of Gas-Phase Ionization Collisions." Sub 31 Mar 62, Physics Inst Acad P. U. Lebedev, Acad Sci USSR. (Dissertation for the Degree of Candidate in Physico-mathematical Sciences.)

SC: Vechernaya Moskva January-December 1962

B. T. R.  
Vol. 3 No. 4  
Apr. 1954  
Geophysics

1954. Spatial Distribution of Charged Particles Close to the Axis of the Dipole Atmospheric Shower of Cosmic Rays. (Russian.) In: N. Ya. V. S. I. ~~... ..~~  
Doklady Akademii Nauk SSSR, v. 91, No. 11, 1954, p. 233-236.

Experiments were conducted at an altitude of 3000 m. over sea level. Shows that experimental results do not agree with predictions arising from Fermi's theory. Graphs. 7 ref.

WISNOLSKI, S. I.

6-16-54  
DRC

KRASIL'NIKOV, D.D.; NIKOL'SKIY, S.I.

Spectrum and meteorological effect of ionization bursts.  
Trudy I Ak. fil. AN SSSR. Ser. fiz. no. 1: 48-54 '55. (MLRA 9:10)

(Cosmic rays) (Ionization chambers)

*1-1000*

Spatial distribution of charged particles at small distances  
from the axis of laser plasmas (Abstract) S. I. Nikiforov  
Bull. Acad. Sci. U.S.S.R. Phys. Ser. 3, 278 (1962) (English  
translation) -See C.A. 50, 7614c H. M. R.

*1*

*1000*

DOBROTIN, N.A.; ZATSEPIN, G.T.; NIKOL'SKIY, S.I.; SARYCHEVA, L.I.; KRISTIANSEN,  
G.B.

Investigation of the interaction of high-and superhigh-energy particles  
with nucleons and atomic nuclei. Izv.AN SSSR Ser.fiz.19 no.6:666-676  
N-D '55. (NLRA 9:4)

1.Fizicheskiy institut imeni P.N.Lobacheva Akademii nauk SSSR i Moskovskiy  
gosudarstvennyy universitet imeni M.V.Lomonosova.  
(Cosmic rays) (Nuclear physics)

**NIKOL'SKIY, S.I.**

~~Space distribution of charges particles at short distances from the axis of extensive air showers. Izv. AN SSSR Ser. fiz. 19 no. 6: 747 N-D '55. (NIRA 9:4)~~

1. Fizicheskiy institut imeni P.N. Lebedeva Akademii nauk SSSR.  
(Cosmic rays) (Nuclear physics)

PROPERTY, S.I.

✓ 8401 ABRE-IDENTIFICATION 000  
 THE SPATIAL DISTRIBUTION OF NUCLEAR ACTIVE PARTICLES IN WIDE ATMOSPHERIC DEPOSITS OF THE MURMANSK REGION IN 1954-1955 AND V. P. BIRNBAUM. Translated by M. H. ...  
 Report, Piz. 24, 508-619601, 2p

The flux of nuclear-active particles in wide atmospheric showers at 3000 m was determined from the number of ...  
 particles. Results are shown in graphical form (B.I.R.)

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 LTH  
 [Signature]

*Handwritten:* Nikol'skiy, S. I.  
USSR/Physics - Charged particles

Card 1/ Pub. 22 - 13/59

Authors : Dovzhenko, O. I., and Nikol'skiy, S. I.

Title : Spatial distribution of charged particles at short distances from the axis of a wide atmospheric shower

Periodical : *Dokl. Akad. Nauk SSSR* 102/2, 241-244, May 11, 1955

Abstract : Results of experiments with wide atmospheric showers of charged particles of various energies, conducted at the top of Pamirs mountains are described. The experiments were conducted for the purpose of establishing a law governing the distribution of charged particles around the axes of the showers at short (0.5 - 10 meters) distances from them. The data obtained, however, can not be explained by the theory assumed. Six references: 2 USA and 4 USSR (1948-1954). Diagram; graphs.

Institution : Acad. of Sc., USSR, Physical Institute imeni P. N. Lobedev

Presented by : Academician D. V. Skobel'tsin, February 2, 1955



403  
INTERACTION OF ULTRA HIGH ENERGY PARTICLES  
WITH NUCLEONS AND ATOMIC NUCLEI N. A. Zhurav  
to T. A. Zhurav, N. I. Nikolskiy and V. M. Kostomarov, Acad.  
emy of Sciences of the USSR and State Univ. Moscow. Pre-  
print No. 4, 1964. 44 p. (1964)

A brief review is presented of some of the recent results of  
theory and experiment on the interaction of ultra high energy  
particles with nucleons and atomic nuclei. The interaction of  
ultra high energy particles with nucleons is discussed in the  
context of the quark model. The interaction of ultra high  
energy particles with atomic nuclei is discussed in the context  
of the quark model. The interaction of ultra high energy  
particles with atomic nuclei is discussed in the context of the  
quark model. (S. J. H.)

NIKOL'SKIY, S.I.

597.101.13

✓ 5418. INFLUENCE OF THE EARTH'S MAGNETIC FIELD ON  
 THE SPATIAL DISTRIBUTION OF PARTICLES IN HIGH ALTITUDE  
 COSMIC SHOWERS. V. I. Shust'ralov and L. E. Gerasimov.  
 Zh. eksper. teor. Fiz., Vol. 31, No. 4(10), 714-15 (1956). in  
 Russian.

For counters placed 18 m from the centre of the shower, no  
 effect is observed, but when they are placed 100 m, a small effect is  
 found, corresponding to an increase in the radius of the shower of  
 about 5-10% in the east-west direction. O. E. I. 1956

*2*

*not killed*

~~NIKOL'SKIY, S.I.~~ NIKOL'SKIY, S.I.

PA - 1846

CARD 1 / 2

SUBJECT

USSR / PHYSICS

AUTHOR

DOBROVOL'SKIY, S.P., NIKOL'SKIY, S.I., TURIS, E.I., JAKOVLEV, V.I.

TITLE

The Spatial Distribution of Broad Atmospheric Showers which are caused by Primary Cosmic Radiation with Different Energies.

PERIODICAL

Zurn. eksp. i teor. fis, 31, fasc. 6, 939-942 (1956)  
Issued: 1 / 1957

In the summer of 1954 the authors carried out experiments for the broadening of the energy interval of the broad atmospheric showers under investigation. The spatial distribution of particles was investigated at an altitude of 3860 m above sea level in showers with a primary energy of less than  $6 \cdot 10^{13}$  and more than  $10^{15}$  eV. In order to be able to measure the great densities of the flows of particles with accuracy, groups of hodoscopic counters with a surface of  $16 \text{ cm}^2$  each were used. The average spatial distribution of particles in showers with  $1,2 \cdot 10^6$  particles is illustrated by a diagram. Difficulties arise when investigating showers with less than  $10^4$  particles because of the low number of particles. On the occasion of the passage of the showers investigated by the authors through the experimental system, discharges occurred in from 4 to 7 of 456 counters. The position of the axis in such showers was determined by means of a group of hodoscopic counters. In all showers investigated the ratio (total number of counters / number of counters recording the passage of a shower particle) was determined at given distances from the axis. The spatial distribution of the particles thus obtained is illustrated in form

2892  
 INVESTIGATIONS OF NEUTRAL AND IONIC COMPONENTS  
 OF EXTENSIVE ATMOSPHERIC SHOWERS BY COSMIC  
 RADIATION S. I. NIKOL'SKI, Yu. M. YANOV, and Yu. A.  
 BELY (Leningrad State Univ., Leningrad, USSR  
 11, 71-21160) Sov. J. (in English)

*Be  
 2892*

Experiments were made to determine the spatial distribution of the number of nuclear-source particles with the energy of  $10^{11}$  eV. The measurements were taken at 1800m above sea level (Pamir) in the summer and autumn of 1954. The total number of charged particles per m<sup>2</sup> per m<sup>2</sup> carried shower was estimated with the aid of a series of  $\alpha$  10<sup>11</sup> eV by measuring the amount of nuclear particles at various distances from the shower axis. The possibility of formation and the recording of  $\beta$  showers induced by nuclear-particle particles were also determined in the same experiments. All showers recorded during the period of observation were divided into groups according to the total number of particles. The functions of spatial distribution of nuclear source particles for each group were analyzed in the intervals from 1 to 40 m from the axis of the showers (B.V.).

*10/14*