

27145

S/166/61/000/004/004/007

B112/B102

Study of the parameters of a ...

have Gaussian shape - the following holds for the half width η of the gamma lines: $\eta^2 = \alpha + \beta/E$, where α and β are spectrometer constants. The authors arrived at the following conclusions: The resolution of the spectrometer is 0.5 Mev for soft radiation and somewhat less for hard radiation. The theoretical values of the photoelectric effect cross section of the NaI(Tl) crystal can be used for determining the efficiency of the spectrometer for γ -lines which satisfy the condition $\eta \cdot 100\% < 0.5 \cdot 100\% / (2E + 0.5)$. In this case the error is approximately 10%. There are 3 figures, 2 tables, and 4 references: 2 Soviet and 2 non-Soviet. X

ASSOCIATION: Akademiya nauk UzSSR (Academy of Sciences Uzbekskaya SSR)

SUBMITTED: September 30, 1960

Card 2/2

MOROSHKIN, B.F., prof.; KOSTINA, A.A., dotsent; IVANSKIY, Ye.F., dotsent

Changes in the blood of cattle infected with leptospirosis.
Veterinariia 41 no.4:42-43 Ap '64. (MIRA 17:8)

1. L'vovskiy zooveterinarnyy institut.

IVANOVSKIY, Ye.G., dotsent.

Book about the cutting of wood. ("The cutting of wood" S.A.
Voskresenskiy. Reviewed by Ye.G. Ivanovskii). Der.prom. 5 no.5:
27-28 My '56. (MLRA 9:8)

1. Leningradskaya lesotekhnicheskaya akademiya.
(Woodwork) (Voskresenskiy, S.A.)

LAPTEV, Aleksandr Grigor'iyevich; MOROZOV, N.A., dots., kand.
tekhn. nauk, retsenzent; IVANOVSKIY, Ye.G., dots.,
kand. tekhn. nauk, retsenzent; KNYAZEV, S.A., dots.,
kand. tekhn. nauk, retsenzent; GRUBE, A.E., prof.,
doktor tekhn. nauk, otv. red.; BEZGODOVA, L.V., red.

[Machines and instruments for wood processing; manual on
the preparation of a course project for students of the
Faculty of Mechanical Wood Processing] Stanki i instrumen-
ty po obrabotke drevesiny; posobie k kursovomu proektiro-
vaniyu dlia studentov fakul'teta mekhanicheskoi tekhnolo-
gii drevesiny. Leningrad, Vses. zaochnyi lesotekhn. in-t,
1963. 161 p. (MIRA 17:5)

BERSHADSKIY, Aleksandr L'vovich, prof.; IVANOVSKIY, Ye.G., red.;
LEBEDEVA, I.D., red izd-va; SHIBKOVA, G.Ye., tekhn. red.

[Manual on calculations in wood cutting] Spravochnik po
raschetu rezhimov rezaniia drevesiny. Moskva, Goslesbun-
izdat, 1962. 123 p. (MIRA15:11)
(Woodworking)

MOROSHKIN, B.F., prof.; KOSTINA, A.A., kand. veter. nauk; LYANSKIY, Ye.F.,
kand. veter. nauk; SUTYAGIN, V.S., kand. veter. nauk

Hemoptosis in experimental fascioliasis. Veterinaria 41
no.10:41-42 0 '64. (MIRA 18:1)

Ivanovskiy, Ye. A.; IL'IN, A. N.
IVANOVSKIY, Ye. A.; IL'IN, A. N.

Contribution to the discussion of electric smelting in copper metallurgy. TSvet.met. 28 no.4:44-46 J1-Ag '55. (MIRA 10:11)

1. Kombinat "Pechenganikel."
(Copper--Metallurgy)

IVANOVSKIY, Yu. S.

Primary sarcoma of the heart in a twelve-year-old child. Zdrav.
Tadzh. 3 no.1:41-42 Ja-F '56. (MIRA 12:7)

1. Iz Leninabadskoy Oblastnoy bol'nitsy (glavnyy vrach - Ya. K.
Kamilov)
(HEART--TUMORS)

IVANOVSKIY, Yu.S., klinicheskiy ordinator

Electrophoresis of the protein fractions of the blood serum in children with tuberculous meningitis. Sbor. trud. Kursk. gos. med. inst. no.13:185-188 '58. (MIRA 14:3)

1. Iz kliniki detskikh bolezney (zav. - dotsent I.A.Bystritskiy)
Kurskogo gosudarstvennogo meditsinskogo instituta.
(ELECTROPHORESIS) (BLOOD PROTEINS)
(MENINGES--TUBERCULOSIS)

IVANOVSKIY, Yu.S., klinicheskiy ordinator

Tuberculin allergy in children with tuberculosis meningitis.
Sbor. trud. Kursk. gos. med. inst. no.13:247-248 '58.

(MIRA 14:3)

1. Iz kliniki detskikh bolezney (sav. - dotsent I.A. Bystritskiy)
Kurskogo gosudarstvennogo meditsinskogo instituta.
(TUBERCULIN) (MENINGES—TUBERCULOSIS)

IVANOVSKIY, Yu. S.

Electrophoresis of protein fractions of the blood serum, phagocytosis and tuberculin allergy in tuberculous meningitis in children. Probl. tub. no.3:104-111 '62. (MIRA 15:4)

1. Iz kliniki detskikh bolezney Kurskogo meditsinskogo instituta.

(MENINGES--TUBERCULOSIS) (BLOOD PROTEINS)
(PHAGOCYTOSIS) (TUBERCULIN) (ELECTROPHORESIS)

IVANOVSKY, E.

Sirucek, V. Crushing equipment used in subsurface mining. p. 81.
RUDY, Praha, Vol. 3, no. 3, Mar. 1955.

SO: Monthly List of East European Accessions, (EMAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

IVANOVSKIY, L.; ZOTOVA, Vera Vladimirovna [translator]; MURATOV, Vadim
Nikolayevich, kandidat geologo-mineralogicheskikh nauk, redaktor;
KONINA, I.N., vedushchiy redaktor; GERNAD'YEVA, I.M., tekhnicheskiy
redaktor

[A wax encyclopedia; in two volumes. Translated from the German]
Entsiklopediia voskov; v dvukh tomakh. Rasshirennoe perer. izd. s
alfavitnym predmetnym ukazatelem. Perevod s nemetskogo V.V.Zotovoï.
Pod red. V.N.Muratova. Leningrad, Gos. nauchno-tekhn. izd-vo nef'tianoi
i gorno-toplivnoi lit-ry, Leningradskoe otd-nie. Vol.1. [Waxes and
their principal characteristics] Voski i ikh vashneishie svoïstva.
1956. 145 p. (MLRA 10:1)
(Waxes)

IVANOVITSEV, P. V.

"The Precipitation Reaction as a Method for Accelerating the
Diagnosis of Paratyphoid Group Bacteria in Meat." Cand Vet Sci,
Moscow Veterinary Academy, Min Higher Education USSR, Moscow, 1955.
(KL, No 12, Mar 55)

SO: Sum. No. 670, 29 Sep 55—Survey of Scientific and Technical
Dissertations Defended at USSR Higher Educational Institutions (15)

IVAN VISEV
ALICHKIN, S.L.; AGRINSKIY, N.I.; ANDREYEV, G.F.; BAKUMENKO, G.D.;
VORONTSOV, S.M.; VOYSTRIKOV, I.V.; GRADYUSHKO, G.M.; ZYKOV, A.V.
IVANOVTSSEV, P.V.; KINBURG, M.Ya.; KOVALEV, P.A.; KOZLOVSKIY, Ye.V.
KORNIYENKO, A.P.; KOLYAKOV, Ya.Ye.; LAKTIONOV, A.M.; LEVADNIY, B.A.
MEDVEDEV, I.D.; NOVIKOV, N.V.; ORLOV, F.M.; OSTROVSKIY, A.A.;
ORTSEV, V.P.; PENIONZHKO, A.M.; POLOZ, D.D.; PRITULIN, P.I.;
PETUKHOVSKIY, A.A.; ROGALEV, G.T.; RYBAK, P.Ya.; SUTYAGIN, G.P.
TUKOV, R.A.; KHAVCHENKO, D.F.; CHERNETSKIY, T.I.; SHPAYER, N.M.
SHUSTOVSKIY, F.A.

Nikolai Vasil'evich Spesivtsev. Veterinariia 35 no.2:96 F '58.
(MIRA 11:2)
(Spesivtsev, Nikolai Vasil'evich, 1901-1957)

VAL'KOV, A.M., inzh.-polkovnik v otstavke; KUSTOV, A.I., polkovnik intendantskoy sluzhby v otstavke; DERBENEVA, Ye.P., sluzhashchaya Sovetskoy Armii agronom; TRUTNEV, N.F., polkovnik intendantskoy sluzhby zapasa; RYABOV, I.G., polkovnik intendantskoy sluzhby v otstavke; LUPPOV, A.P., polkovnik zapasa; DIKUSHIN, V.F., general-mayor tekhnicheskikh voysk v otstavke; LAVROV, I.A., podpolkovnik med. sluzhby; DMITRIYEV, N.D., polkovnik veterinarnoy sluzhby zapasa; IVANOVITSEV, P.V., podpolkovnik veter. sluzhby kand. veter. nauk; SAFRONOV, I.V., general-leytenant v otstavke; ZHALKOV, S.I., red.

[Unit administrator's manual] Spravochnik voiskovogo khoziaistvennika. Moskva, Voenizdat, 1965. 462 p.
(MIRA 18:6)

I. 02309-67 EWT(1)
ACC NR: AN6024336

SOURCE CODE: UR/0428/66/000/001/0121/0127
30

AUTHOR: Ivanow, A. P.; Sherbaf, I. D.

ORG: none

TITLE: Influence of optical parameters on the scattering of a narrow beam of light in a turbid medium

SOURCE: AN BSSR. Vestsi. Seryya fizika-matematychnykh navuk, no. 1, 1966, 121-127

TOPIC TAGS: light scattering, turbid medium, photon scattering, optic property

ABSTRACT: The authors report the results of optical measurements made by a procedure they developed and described elsewhere (Optika i spektroskopiya v. 18, no. 4, 1965 and earlier) for producing turbid media whose parameters can be varied and which are suitable for optical scattering measurements. The measurements were made in a small cell with a light beam of 3.14 cm² area and divergence angle smaller than 1°, using an end-window photomultiplier (FEU-25) capable of measuring the illumination in various sections of the medium, in a radial direction relative to the beam propagation direction. The parameters varied were the photon survival probability (Λ), the extinction coefficient (ϵ), and the longitudinal and radial coordinates of the observation point (τ_h and τ_r). It is shown that for equal values of τ_h , the amount of radially scattered radiation decreases with decreasing Λ . The extinction coefficient has an important influence on the shape of the beam-spreading curve at small τ_h and is of no importance for large τ_h . Diagrams of isophots, characterizing the geometric locus of the points

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L 09309-67

ACC NR: AP6024336

of constant illumination in spece, are presented for different values of λ and ϵ .
Orig. art. has: 4 figures.

SUB CODE: 20/ SUBM DATE: 20Oct65/ ORIG REF: 004

Card 2/2

KAMINAROV, Nakhim Yakovlevich; IVANS, A.K., red.; NESMYSLOVA, L.M.,
tekh. red.

[Organizing the production training of post, telegraph and
telephone communication operators] Organizatsiia proizvodstven-
nogo obucheniia operatorov pochtovo-telegrafno-telefonnoi sviazi.
Moskva, Vses. uchebno-pedagog. izd-vo Proftekhizdat, 1961. 31 p.
(MIRA 15:4)

1. Zamestitel' direktora spetsial'nogo remeslennogo uchilishcha
No.2 Volgograda (for Kaminarov).
(Communication and traffic--Employees)

BUTUZOV, Andrey Fedorovich; VASILEVSKIY, Vladimir Konstantinovich;
ARESHKIN, G.I., red.; IVANS, A.K., red.; PEREDERIY, S.P.,
tekhn. red.

[Conducting individual exercises in tractor and combine operations] Provedenie individual'nykh zaniatii po vozhdeniiu traktorov i kombainov. Moskva, Proftekhizdat, 1963. 49 p.
(MIRA 16:12)

1. Zamestitel' nachal'nika Leningradskogo oblastnogo upravleniya professional'no-tekhnicheskogo obrazovaniya (for Vasilevskiy). 2. Direktor uchilishcha mekhanizatsii sel'skogo khozyaystva No.8 (for Butuzov).
(Agricultural machinery)

L 8509-66 EWT(1)/EEC(k)-2/EWA(h)

ACC NR: AT5027522

SOURCE CODE: UR/2690/65/008/000/0079/0084

AUTHOR: Ivans, A. V.

ORG: Institute of Electronics and Computer Technology, AN LatSSR, Riga (Institut elektroniki i vychislitel'noy tekhniki AN LatSSR)

TITLE: A unit for voltage comparison in digital voltmeters

SOURCE: AN LatSSR. Institut elektroniki i vychislitel'noy tekhniki. Trudy, v. 8, 1965. Avtomatika i vychislitel'naya tekhnika, 79-84

TOPIC TAGS: voltage regulator, semiconductor device, voltmeter, switching circuit

ABSTRACT: The use of contactless switching elements in digital voltmeters offers distinct advantages (reliability, long life, speed). The article discusses the requirements imposed on the voltage comparison unit of a contactless digital voltmeter made of semiconductor switching elements. It offers recommendations concerning the choice of operating principles used and the choice of schemes of the individual loops. A prototype of a voltage-comparing unit shown in Fig. 1 was tested in conjunction with the voltmeter over a period of two weeks during which it operated flawlessly and without retuning. The threshold sensitivity is ± 1 mv, the maximum zero drift over the entire test period is 2 mv. The comparison cycle lasts $5 \cdot 10^{-3}$ sec. All given quality indicators were exceeded by several times. With the exception of the capacitance modulator requiring matched stabilitrons, all other circuit elements are commercial

Card 1/3

UDC: 621.317.725.084.2

L 8509-66

ACC NR: AT5027522

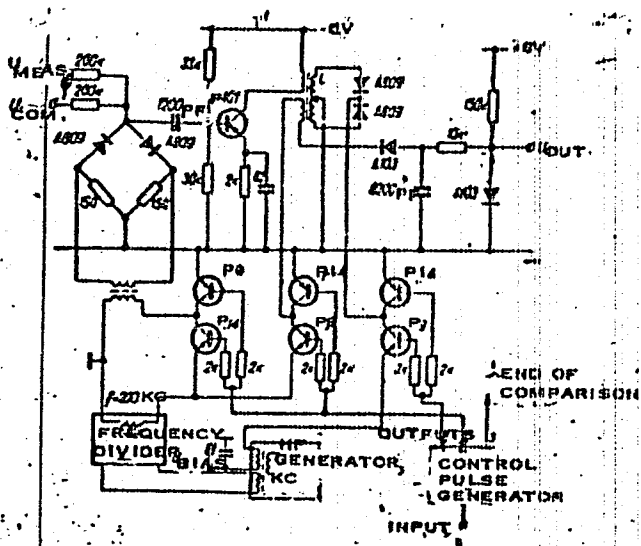


Figure 1. Voltage comparison unit circuit.

Card 2/3

L 8509-66

ACC NR: AT5027532

stock items with standard tolerances. Orig. art. has: 1 formula and 4 figures.

SUB CODE: EC, EE / SUBM DATE: 06 / ORIG REF: 001 / OTH REF: 003

Card 3/3 DW

L 40067-66 EWT(d)/EWP(1) IJP(c) GG/BB

ACC NR: AT6019745

SOURCE CODE: UR/3192/65/000/011/0145/0147

AUTHOR: Ivans, A. V.; Ivane, A. E.

SH
BH

ORG: none

TITLE: Static punched card input device 160

SOURCE: Akademiya nauk Latvyskoy SSR. Institut elektroniki i vychislitel'noy tekhniki. Avtomatika i vychislitel'naya tekhnika, no. 11, 1965, 145-147

TOPIC TAGS: punched card, computer input unit, automatic control technology, optic system

ABSTRACT: An optical device for reading a single punched card is described. The total lapse time between initiating illumination and recording is 70 usec. A sketch and circuit diagram of the device is given. It is recommended for use in industrial control processes where the same card is read repeatedly and since the absence of moving parts should provide high reliability. Orig. art. has: 3 figures. [14]

SUB CODE: 13,09/

SUBM DATE: Nov64/

ORIG REF: 002

UDC: 681.142.624

Card 1/1 11b

IVANS, E.

Knife for cutting sheet material. Radio no.11:Supp.32 N '57.
(MIRA 10:10)

(Cutting tools)

IVANS, Ya.A.; GAL'PERIN, A.S.

Mill processes. Sakh.prom. 29 no.1:28-31 '55.

(MIRA 8:4)

1. Krustpilskiy sakharnyy zavod (for Ivans). 2. Pribaltiyskiy sakh-sveklotrest (for Gal'perin).

(Sugar industry---Equipment and supplies)

IVAN'SHIN, P.M.

Result of the application of paravertebral novocaine block with methylene blue as adjunct in thoracocautery. Probl. tuberk., Moskva no. 4:23-25 July-Aug. 1952. (CLML 22:5)

1. Candidate Medical Sciences. 2. Of the Division for Thoracic Surgery (Head -- P. M. Ivan'shin), L'vov Tuberculosis Scientific-Research Institute (Director -- G. I. Chemeris; Scientific Supervisor -- Prof. Yu. A. Petrovskiy).

IVAN'SHINA, L.P.

Geochemical conditions of the diagenesis of Neogene sediments in northern Sakhalin. Trudy VNIGRI no.224:8-15...1963.

Results of the petrographic study of Neogene commercial oil-bearing rocks and test areas in northeastern Sakhalin. Ibid.:142-146
(MIRA 17:2)

IVANISHIMA, V.V.

Fish Culture

Feeding pond fish with tadpoles. Ryb. khoz. 20, no. 4, 1952.

AUGUST 1952

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

IVANSKAYA, E.N.

Mechanical principles of plant structure as exemplified
by some alpine saxifrages. Bot. zhur. 48 no.9:1353-1355
S '63. (MIRA 16:11)

1. Severo-Osetinskiy gosudarstvennyy pedagogicheskiy institut,
Ordzhonikidze.

IVANSKAYA, E.N.

Anatomic characteristics of some alpine primroses of the central
Caucasus. Bot. zhur. 47 no.9:1342-1348 S '62. (MIRA 16:5)

1. Severo-Osetinskiy gosudarstvennyy pedagogicheskiy institut,
Ordzhonikidze.

(Caucasus--Primroses)

IVANSKAYA, E.N.

Certain characteristics of the anatomic structure of the leaves
of alpine rosette and cushion plants. Dokl. AN SSSR 146 no.2:467-
470 S '62. (MIRA 15:9)

1. Severo-Osetinskiy pedagogicheskiy institut. Predstavleno
akademikom V.N. Sukachevym.
(Leaves--Anatomy) (Alpine flora)

ALFEROVA, L.A., kand.tekhn.nauk; BONDAREVA, T.N.; SHERSTNEVA, V.A., inzh.;
IVANSKAYA, L.N., inzh.; GUSHCHINA, L.I.

Amount of acid waters formed in the manufacture of fatty acids.
Masl.-zhir.prom. 29 no.11;40-43 N '63. (MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut vodosnabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidrologii Akademii stroitel'stva i arkhitektury SSSR (for Alferova, Bondareva). 2. Volgodonskoy filial Vsesoyuznogo nauchno-issledovatel'skogo i proyektного instituta sinteticheskikh zhirozameniteley (for Sherstneva, Ivanskaya, Gushchina).

ZYKIN, L.A.; IVANSKAYA, O.N.; KHADZHIYEV, N.Kh.; BEREZKIN, A.S.

Work practices of meat, milk, and food inspection stations.
Veterinariia 42 no.7:97-98 J1 '65. (MIRA 18:9)

IVANSKAYA, V. I.

Vegatable Gardening

Influence of density of plants under irrigation on productivity; Sad. 1 og.
no. 3, 1952.

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

IVANSKAYA, V. I.

IVANSKAYA, V. I.: "The effect of the procedures of furrow irrigation on the yield of basic vegetable crops under conditions of Voronezh Oblast." Min Higher Education USSR. Fruit and Vegetable Institute I. V. Michurin. Michurinsk, 1956.
(Dissertation for the degree of Candidate in Agricultural Sciences)

SO: Knizhnaya Letopis', No 36, 1956, Moscow.

IVANSKIY, A.

Over the Kursk sector. Kryl.rod. 4 no.7:17-19 JI '53. (MLRA 6:7)
(World War, 1939-1945--Aerial operations) (Kursk, Battle of, 1943)

IVANSKIY, A

215.11
.19

LUCHSHIY PARASHYUTIST MIRA (WORLD'S BEST PARACHUTISTS) MOSKVA, IZD-VO
DOSAFF, 1955. 55 p. ILLUS., FORTS

Ivanskiy, A.

AID P - 2847

Subject : USSR/Aeronautics
Card 1/1 Pub. 58 - 6/19
Author : Ivanskiy, A.
Title : Cadets of an aviation school
Periodical : Kryl. rod., 9, 12, S 1955
Abstract : The author describes a normal working day in the Air Force Pilots' School in Bataysk. He mentions a number of names of students and officer instructors. Photos show: jet aircraft on ground and in flight, men in class rooms, and in various outside activities.
Institution : Bataysk Air Force Pilot School
Submitted : No date

IVANSKIY, A.

In the name of our country. Voenn. znaniya. 31 no. 6:3 Ja '55. (MIRA 8:11)
(Pavlov, Ivan Fomich)

IVANSKIY, A., podpolkovnik.

Soviet aviation. Voен.znan. 31 no.6:4-5 Je '56.

(MLRA 9:10)

(Russia--Air force)

IVANSKI, A.

New Soviet transport airplanes. p.25

(ARIPILE PATRIEL. Vol. 3, No. 4, Apr. 1957. Bucurest, Rumania)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 10, October 1957. Uncl.

IVANSKIY, A.

85-58-5-21/98

AUTHOR: Ivanskiy, A.

TITLE: Forward Communists! (Kommunisty, vpered!)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 5, pp 14-15 (USSR)

ABSTRACT: The author attributes the achievements and might of the Soviet Armed Forces to the successful industrialization and collectivization of the country accomplished by the Communist Party. The mobilization of one million communists, sent to the front lines during the first year of the War, was intended to raise the morale of the fighting forces and to provide examples in personal sacrifice. In accordance with the decisions of the Plenum of the Central Committee of the Communist Party, efforts are being made to further improve political-party activities in the Soviet Armed Forces.

AVAILABLE: Library of Congress

Card 1/1 1. Armed forces - USSR

IVANSKIY, A.

Beginning of a biography. Kryl. rod. ll no.12:22-24 D '60.
(MIRA 14:3)
(Pokryshkin, Aleksandr Ivanovich, 1913-)

IVANSKIY, A.

In the Silesian aeroclub. Kryl.rod. 12 no.2:22-24 F '61.
(MIRA 14:6)
(Katowice, Poland--Aeronautics as recreation)

IVANSKIY, Anatoliy Ivanovich, trizhdy Geroy Sovetskogo Soyuz; BIRYUZOVA, Ye.I., red.; KOROLEV, A.V., tekhn. red.

[Eagle wings] Orlinye kryl'ia. Moskva, Izd-vo DOSAAF, 1961. 102 p.
(MIRA 15:5)

(Pokryshkin, Aleksandr I., 1913-)

IVANSKIY, I. G. - co-author with B. V. Gorlov, S. G. Kolesov, and L. F. Popov of "Bivalent Serum against Cholera and Erysipelas of Swine" - on experiment conducted at Omsk Bioplant in 1941-42 by the authors to obtain bivalent serum against cholera and erysipelas of swine.

SO: Veterinariya, Vol. 24, No. 1: 25, Jan. 1947
Trans. XV (in full) by L. Lulich

Uncl

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IVANSKIY, I.G. from "USSR Articles on Hog Cholera in 1947", brief summaries of Soviet articles for the year 1947:

7. V.V. Gorlov, S.G. Kolesov, L.F. Popov, I.G. IVANSKIY, "Bivalent Serum Against Hog Cholera and Hog Erysipelas," (Veterinariya, Vol. XXIV, No. 1, p 25)

SO: ~~W-22591~~; date of info 47-50, 9 May 1952, ~~W-22591~~

dog

IVANSKIY, K.I.

Development of the zone of raw products for the Khachmas Canning
Combine. Kons. i ov. prom. 14 no.7:18-20 JI '59.

(MIRA 12:9)

1. Khachmasskiy konservnyy kombinat.
(Khachmas--Vegetable gardening)

ANDREYEV, S.V.; SAMOYLOVA, Z.I.; MARTENS, B.K.; IVANSKIY, N.L.

Gamma rays and pest control. Zashch. rast. ot vred. i bol. 7.
no.9:25-26 S '62. (MIRA 16:8)

(Insects, Injurious and beneficial--Control)
(Gamma rays--Physiological effect)

5(4)

SOV/54-59-3-19/21

AUTHORS: Dolgov, B. N., Ivanskiy, V. I.

TITLE: On Certain Catalytic Transformations of Propylene Glycol

PERIODICAL: Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1959, Nr 3, pp 128 - 133 (USSR)

ABSTRACT: The present paper continues a series of investigations of the catalytic reactions of multiatomic alcohols carried out at the kafedra organicheskoy khimii LGU (Chair of Organic Chemistry of the LGU). Copper and nickel aluminum silicate $Cu.Al_2O_3.SiO_2$ (1) and $NiO.Al_2O_3.SiO_2$ (2) served as catalysts. A vertical electric furnace with a quartz tube with catalyst inside was the catalysis device. Tests were carried out at 250, 275, 300, and 320° in catalyst 1. The condensate was fractionated on an ordinary stripping tower after a pre-distillation. The data on the products obtained are compiled in table 1. α -Methyl levulin aldehyde (it has hitherto not been described in publications), methyl glyoxal propionic aldehyde, pentadione-2,3, propionic acid, pyrotartaric acid, acetone and traces of methyl propyl ketone were obtained. Accord-

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On Certain Catalytic Transformations of Propylene
Glycol

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ing to spectrum analyses: 2-methyl pentadione-3,4-al-1. Tests were carried out at 250, 300 and 350^o with the catalyst 2. The separation of the catalyzate was carried out in the same way as in catalyst 1. Table 2 shows the data concerned. For the purpose of identifying α -methyl levulin aldehyde the infrared spectra of diacetyl and acetyl acetone were taken as comparative spectra and compared with the spectrum of the fraction containing α -methyl levulin aldehyde. The figure shows the infrared spectrum of α -methyl levulin aldehyde. On the basis of the character of the products obtained the following transformation of propane diol is assumed: dehydrogenation and dehydration to methyl glyoxal and propionic aldehyde forming as the main substance, and further condensation of the latter. It was not possible to detect condensation products from two molecules propionic aldehyde nor from two molecules methyl glyoxal. Decarbonylation takes place in the process of condensation. The products $\text{CH}_3\text{COCH}_2\text{CH}_2\text{CH}_3$ and pentadione-2,3, are a confirmation thereof. Further investigations will be necessary to explain the presence of propionic- and pyrotartaric acid.

Card 2/3

On Certain Catalytic Transformations of Propylene
Glycol

SOV/54-59-3-19/21

There are 2 figures, 1 table, and 18 references, 1 of which
is Soviet.

SUBMITTED: April 30, 1959

Card 3/3

DOLGOV, B.N. [deceased]; IVANSKIY, V.I.

Catalytic conversions of methyl- and ethylcellosolves over a
copper aluminosilicate and nickel aluminosilicate catalyst.
Vest.LGU 15 no.10:152-159 '60. (MIRA 13:5)
(Ethanol) (Catalysts)

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CONVERSIONS OF GLYCOLS AND MONOESTERS OF ETHYLENE GLYCOL."
LENINGRAD, 1961. (MIN OF HIGHER AND SEC SPEC ED RSFSR, LE-
NINGRAD ORDER OF LABOR RED BANNER TECHNOL INST IM LENSOVET).
(KL, 3-61, 201).

IVANSKIY, V.I.; DOLGOV, B.N. [deceased]

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(MIRA 16:3)

1. Leningradskiy gosudarstvennyy universitet.
(Furan) (Butyrolactone) (Butanediol)

IVANSKIY, V.I.; DOLGOV, B.N.

Some catalytic conversions of 1,3-butanediol. Zhur. prikl.
khim. 36 no.10:2256-2261 0 '63. (MIRA 17:1)

MOROSHKIN, B.F., prof.; KOSTINA, A.A., kand. veter. nauk; IVANSKIY, Ye.B.,
kand. veter. nauk

Stachybotryotoxicosis of cattle. Veterinarlia 41 no.1:98-100
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I. Gruzinskiy zootehnicheskko-veterinarnyy uchebno-issledovatel'skiy
institut.

IVANSKIY, YE. F.

Ivanskiy, Ye. F.

"Partial Electrocardiography together with other Methods of Investigating the Cardiovascular System of Horses." Min Higher Education USSR, L'vov Zootechnical-Veterinary Inst. L'vov, 1955 (Dissertation for the degree of Candidate in Veterinary Science)

SO: Knizhnaya letopis' No. 27, 2 July 1955

IVANTER, A. A.

Dissertation: "The City of Kimry and the Kimrskiy Rayon (Economic-Geographic Features)."
Cand Geog Sci, Moscow City Pedagogical Inst imeni V. P. Potemkin, 14 May 54.
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SO: SUM 284, 26 Nov 1954

IVANTER, E.V.

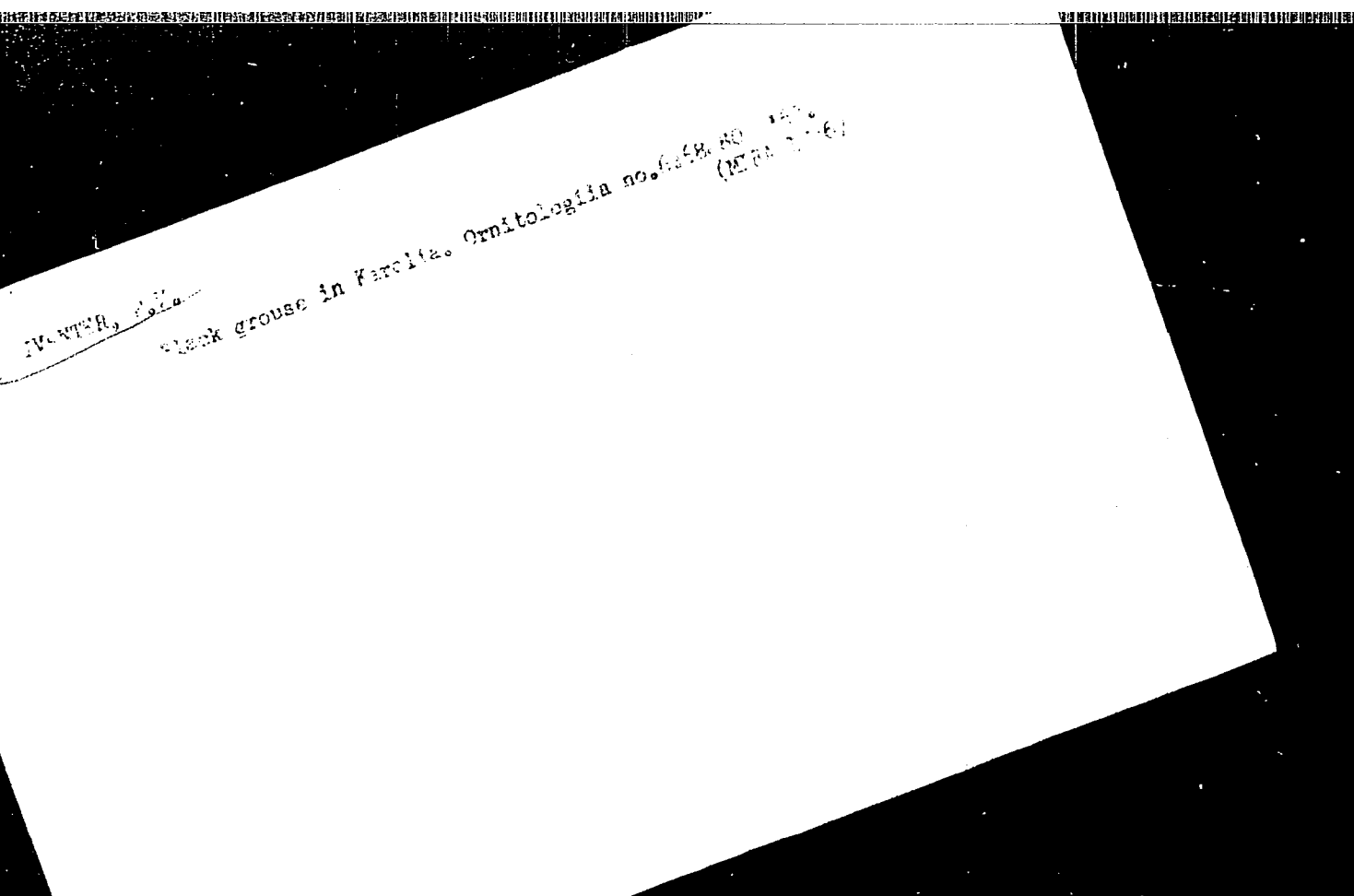
Birds of the Kivach Preserve. Ornitologia no. 5:68-85 '62.
(MIRA 16:2)

(Kivach Preserve--Birds)

IVANTER, E.V.

Biology of the hazel grouse in Karelia. Ornitologiya no.4:87-98 '62.
(MIRA 16:4)

(Karelia—Grouse)



IVANTSEV, I. G.

Distribution of weak electrolyte in the double layer. Koll. zhur.
19 no.1:41-50 Ja-F '57. (MLRA 10:4)

1. Minskiy traktornyy zavod, Mekhanicheskaya laboratoriya i Tsentral'naya zavodskaya laboratoriya.
(Electrolytes)

AUTHOR
TITLE

IVANTER, I.G., OKUN', L.B.,

PA - 2711

PERIODICAL

On the theory of the Scattering of Particles by Nuclei.
(K teorii rasseyaniya chastits na yadrakh - Russian)
Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 32, Nr 2,
pp 402-403, (U.S.S.R.)
Received 5/1957

Reviewed 6/1957

ABSTRACT

Several authors investigate the scattering of nucleons by nuclei by means of a model with the help of which the nucleus is represented in form of a nucleon gas with $T = 0$. With this model, however, also the scattering of other particles by nuclei can be studied. By using the thus obtained results orientation would be possible on the occasion of the evaluation of the effects of the scattering of pions and K-mesons which are connected with the PAULI principle. A particle 1 with the mass m_1 and the momentum \vec{p}_1 is assumed to impinge on to a FERMI gas of particles 2 with the mass m_2 and the momenta \vec{p}_2 ($0 \ll p_2 \ll p_F$). This FERMI gas is assumed to have the temperature $T = 0$. The differential cross section of the collision of the free particles 1 and 2 is assumed to be isotropic and equal to $\sigma_0/4\pi$ and not to depend on energy. The authors here computed the total cross section $\sigma = \sigma_0 F$ of the collision of the particle 1 with one of the particles of the gas. Apparently $F < 1$ applies, because for the particle 2 in the FERMI gas not all finite states are permitted, but only the states with $p_2' > p_F$. For the computation of F the collision of two particles is here investigated. The balance of the momenta of the occasion of the collision is written

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On the theory of the Scattering Particles by Nuclei.

PA - 2711

down. Herefrom the equation of the surface S is determined which limits the "permitted domain" of the parameters used here. After computation of the number of collision which the particle 1 suffers in the time unit, an expression is obtained for the factor F . In conclusion the general expression for F for various values of the parameter p_f are specialized. The formulae obtained in this way are simplified considerably in both limiting cases $m_1/m_2 = 0$ and $m_1/m_2 = 1$. Here m_1 and m_2 denote the masses of the particles 1 and 2 respectively.
(2 ill.)

ASSOCIATION
PRESENTED BY
SUBMITTED
AVAILABLE
Card 2/2

29.11.1956
Library of Congress

IVANTER, I. G.

56-6-10/47

AUTHOR: Ivanter, I. G.

TITLE: Interior Bremsstrahlung of a Polarized μ -Meson and the Non-Conservation of Parity (Vnutrenneye tormoznoye izlucheniye polyarifizovannogo μ -mezona i nesokhraneniye chetnosti)

PERIODICAL: Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1957, Vol. 33, Nr 6, pp. 1383 - 1386 (USSR)

ABSTRACT: On the condition of the conservation of "combined parity" the formulae for the angular- and energy distribution of inner bremsstrahlung, which accompany the decay of a polarized μ -meson, are derived. For the purpose of derivation the method of calculating the decay probability developed by Lenard is used, and for computation polarized projection operators developed by Tolhoek and Lipps were employed. In the appendix the function f_i ($i = 1, 2, \dots, 8$) is represented in detail. There are 8 references, 2 of which are Slavic.

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Interior Bremsstrahlung of a Polarized μ -Meson and the Non-Conservation of Parity 56-6-10/47

ASSOCIATION: Institute for Scientific Information AN USSR
(Institut nauchnoy informatsii Akademii nauk SSSR)

SUBMITTED: May 10, 1957

AVAILABLE: Library of Congress

Card 2/2

AUTHOR: Ivanter, I. G.

SOV/56-54-5-21/61

TITLE: On the K_{e3} -Decay ($0 K_{e3}$ -raspada)PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958,
Vol. 34, Nr 5, pp. 1202-1206 (USSR)

ABSTRACT: This paper investigates the problem of the possibility of determining the interaction constant and the properties of the neutrino by studying the polarization and the spectra of particles emitted in K_{e3} -decays. The author uses the form of interaction given in some previous papers (Refs 5 - 7) and it is not necessary to assume that the neutrino is a two-component particle. First, an expression for the matrix element is given and then follows a formula for the probability of the emission of electrons and pions. This formula is an analogon of the formula given in a paper by Okun' (Ref 7). If the constants are assumed not to depend on the energy of the pion, it is possible to determine all four combinations of the constants. In the opposite case it is only possible to express three combinations by the fourth one. But there is an exception - if there is no contribution of the vector component. The investigation of the polarization of the elec-

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On the K_{e3} -Decay

SOV/56-54-5-21/61

trons for fixed momenta of the electron and of the pion may give additional information on the interaction constants and on the properties of the neutrino. The author derives an expression for the difference of the probabilities of the polarizations, which are parallel and antiparallel to the electron momentum. The expression for the longitudinal polarization is very similar to the expression for the energy spectrum. Then the problem of the transverse polarization in the plane of decay is investigated. An expression is also derived for the difference of the probabilities of the polarizations that are parallel and antiparallel to the directions $J_3 = \left[\frac{\vec{p}_\pi \vec{p}_e}{|\vec{p}_\pi \vec{p}_e|} \right]$. That is the direction perpendicular to the decay plane. The constants may be determined completely only if one of the components of the vector interaction (but not both of them simultaneously) is zero. Then the second group of experiments is discussed: the measurements of the spectrum and of the longitudinal polarization of the electrons. At last the author gives expressions for the probability of emission of an electron with a fixed energy and with a polarization into a fixed direction and also for the emission of a pion with a fixed energy. There are 10 references, 3 of which are Soviet.

Card 2/3

On the K_{e3} -Decay

30V/56-34-5-21/61

ASSOCIATION: Institut nauchnoy informatsii Akademii nauk SSSR
(Institute of Scientific Information, AS USSR)

SUBMITTED: December 4, 1957

1. Neutrinos—Properties 2. Particles--Decay 3. Particles
—Polarization 4. Electrons--Spectra

Card 3/3

AUTHOR: Ivanter, I. G.

SOV/56-35-1-15/59

TITLE: On the Possibility of Determining the Interaction Constants From Experiments on $K_{\mu 3}$ -Decay (O vozmozhnosti opredeleniya konstant vzaimodeystviya iz opytov po $K_{\mu 3}$ -raspadam)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol. 35, Nr 1, pp. 111 - 115 (USSR)

ABSTRACT: After expressions for the spectra of μ -mesons and their polarization have been given in a number of publications by various authors (Refs 1-11), the present paper investigates the spectra and the polarization of μ -mesons produced in $K_{\mu 3}$ -decays for any kind of complex interaction constants (or functions, because a dependence on E_{π} is possible). The energy of the pions is fixed. It is shown that from the experimental data of the spectra and from three polarizations all interaction constants can be determined with the exception of the second vector variant, which cannot be separated from the first vector function and the scalar interaction function. Determination is accurate with the

Card 1/3

On the Possibility of Determining the Interaction
Constants From Experiments on $K_{\mu 3}$ -Decay

SOV/56-35-15/59

exception of an unimportant phase shift. From measurements of the spectrum and of the polarization of myons at energies near the maximum it is possible to draw conclusions concerning the existence of a tensor interaction. Basing upon the assumption that the interaction functions do not depend on E_{π} , expressions for the spectra and the longitudinal polarization of pions were derived by several authors (Furuichi-Ref 2, Matinyan- Refs 7,8, Okun'). According to Okun' it is easy to show that if the interaction constants are independent of E_{π} , all 12 combinations of these constants can be determined from the data on the spectrum and the longitudinal polarization. For the purpose of representing the energy- and interaction functions of the pions the author uses the expressions A_i , B_i , C_i and D_i , the mathematical interpretation of which is given in an appendix. In conclusion, the author thanks L.B. Okun' for raising the problem and discussing it, and he also thanks K.A.Ter-Martirosyan for discussing the problem. There are 1 figure and 11 references, 3 of which are Soviet.

Card 2/3

On the Possibility of Determining the Interaction
Constants From Experiments on $K_{\mu 3}$ -Decay

SOV/56-35-1-15/59

ASSOCIATION: Institut nauchnoy informatsii Akademii nauk SSSR (Institute
of Scientific Information, AS USSR)

SUBMITTED: January 16, 1958

Card 3/3

24(5)

AUTHOR:

Ivanter, I. G.

SOV/56-36-1-51/62

TITLE:

The Correlation of the Polarizations in the Coulomb Scattering of Electrons and μ -Mesons on Light Nuclei in Consideration of Radiation Corrections (Korrel'yatsiya polarizatsiy pri kulonovskom rasseyanii elektronov i μ -mezonov na legkikh yadrah s uchetom radiatsionnykh popravok)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 1, pp 325-326 (USSR)

ABSTRACT:

The author applies the method of the projection operators, which was developed by N. A. Tolhoek (Tol'khuk) (Ref 1) et al. If low-order radiation corrections are taken into account, the second Born approximation must be used. In this case, the matrix element of the transition is $M = A \gamma_4 - iB \hat{q} + C$. A, B, and C do not contain the Dirac (Dirak) matrices and $\hat{q} = \hat{p}_2 - \hat{p}_1$ where p_1 and p_2 denote the four-dimensional momenta of the particle before and after scattering. Moreover, $A = A_0 + A_1$, where $A_0 = 2\pi iZe^2 / |\vec{q}|^2$. The author then gives an expression for the cross section of a purely

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The Correlation of the Polarizations in the Coulomb Scattering of Electrons and μ -Mesons on Light Nuclei in Consideration of Radiation Corrections SOV/56-36-1-51/62

elastic scattering, and this expression can be written down as a sum of 4 terms: $d\sigma_s = (1/2)\overline{d\sigma}_s + (1/2)d\sigma_s(1) + d\sigma_s(2) + d\sigma_s(1,2)$. $\overline{d\sigma}_s$ is the cross section averaged over the polarizations of the incident particle and summated over the polarizations of the scattered particle. The ratio $d\sigma_s(1)/\overline{d\sigma}_s$ gives the asymmetry in the scattering of unpolarized particles, the ratio $2d\sigma_s(2)/\overline{d\sigma}_s$ - the polarization degree in the scattering of unpolarized particles, the ratio $2d\sigma_s(1,2)/\overline{d\sigma}_s$ - the "correlation degree of the polarizations" of the scattered particle and of the incident particle, i.e. the rotation of the spin. The expressions for $d\sigma_s(1)$ and $d\sigma_s(2)$ were found by Mott (Ref 3). The low-order radiation corrections do not make a contribution to $d\sigma_s(1)$ and $d\sigma_s(2)$, i.e. they have no influence upon the asymmetry in the scattering of polarized particles and upon the polarization in the scattering of

Card 2/3

The Correlation of the Polarizations in the Coulomb Scattering of Electrons and μ -Mesons on Light Nuclei in Consideration of Radiation Corrections SOV/56-36-1-51/62

unpolarized particles. A rather long expression for $d\sigma(1,2)$ is given and discussed for the case of elastic scattering. The author hopes that measuring the remanent longitudinal polarization in scattering by the angle θ_0 is one of the experimentally practicable methods for the investigation of the radiation corrections and of the second Born approximation. The influence of the second Born approximation decreases with increasing energy. At low energies, however, the influence of the second Born approximation is predominant. The author thanks K. A. Ter-Martirosyan for discussing the present paper. There are 5 references, 1 of which is Soviet.

ASSOCIATION: Institut nauchnoy informatsii Akademii nauk SSSR (Institute for Scientific Information of the Academy of Sciences, USSR)

SUBMITTED: September 15, 1958

Card 3/3

24(5)

SOV/56-36-4-20/70

AUTHOR:

Ivanter, I. G.

TITLE:

Polarization in Pair Production by Circularly Polarized Quanta
(Polyarizatsiya pri obrazovanii par tsirkulyarno polyarizovannykh kvantami)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,
Vol 36, Nr 4, pp 1093-1097 (USSR)

ABSTRACT:

In the present paper the author analyzes the cross section formulas for bremsstrahlung and pair production by photons in a Coulomb center. The formulas for pair production and bremsstrahlung are completely similar. It holds that

$$\sigma = \sigma_A \frac{1}{4} \frac{2\delta^2}{1+\delta^2} + \sigma_B \frac{1}{4} \frac{2(2\delta^2-3|\delta|+1)}{1+\delta^2} + \sigma_C \frac{1}{2} \frac{2\delta^2}{1+\delta^2} + \sigma_{C'} \frac{1}{2} \frac{2\delta^2}{1+\delta^2} +$$

$$+ \sigma_D \frac{2\delta^2}{1+\delta^2} + \sigma_E \frac{2(2\delta^2-3|\delta|+1)}{1+\delta^2}$$

for pair production, and by replacement of all σ_i by σ_i^1 a

formula for bremsstrahlung is obtained. The significance of σ_i differs accordingly from that of σ_i^1 . Thus, σ_A means the

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SOV/56-36-4-20/70

Polarization in Pair Production by Circularly Polarized Quanta

cross section from the Bethe-Heitler-formula (Ref 1) for the pair formation of unpolarized particles by unpolarized quanta, and σ_A^i the cross section of bremsstrahlung on unpolarized electrons summated over the polarizations of γ -quanta (according to the Bethe-Heitler formula), σ_B - the formation cross section of pairs of unpolarized particles by γ -quanta polarized in the \vec{e}_1 -plane, and σ_B^i - the cross section of bremsstrahlung with given linear polarization for unpolarized electrons. For polarization it holds that $\vec{e} = (\vec{e}_1 + i\delta\vec{e}_2)(1 + \delta^2)^{-1/2}$, where \vec{e} is the polarization vector, \vec{e}_1 and \vec{e}_2 - the polarization vectors in directions which are vertical to each other in the plane that is vertical to the momentum of the quantum; δ is a real number, $|\delta|$ is different from one if polarization is not circular. For the $\sigma_C^{(0)}$, $\sigma_C^{(i)}$, $\sigma_D^{(0)}$, $\sigma_E^{(i)}$ only the ratios to $\sigma_A^{(0)}$ are known. Formulas for σ_B , σ_B^i , σ_A , σ_A^i , σ_C^i have already been derived in

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SOV/56-36-4-20/70

Polarization in Pair Production by Circularly Polarized Quanta

references 1-5, for σ_D^i , σ_C^i , σ_D , σ_C in references 6,7. First, the question is investigated as to whether it is possible to obtain the formula for bremsstrahlung immediately from pair formation and vice-versa in the case of fixed polarizations. Finally, expressions are derived for σ_C , σ_C^i and σ_C^i in Born's approximation without taking the screening and recoil effects into account and for fixed polarizations of all involved particles. By means of the derived transformation formulas it is possible to obtain one formula from the others. Formula (17) supplies an expression for pair production σ_C^i by circularly polarized quanta. The author finally thanks I. Ya. Kobzarev for discussing several problems. There are 10 references, 3 of which are Soviet.

ASSOCIATION: Institut nauchnoy informatsii Akademii nauk SSSR (Institute for Scientific Information of the Academy of Sciences, USSR)

SUBMITTED: July 12, 1958
Card 3/3

24 (5)
AUTHOR:

Ivanter, I. G.

SOV/56-36-6-53/66

TITLE:

The Connection Between the Gravitation Constant, the Specific Electron Charge, and the Fine-structure Constant (O svyazi mezhdru gravitatsionnoy postoyannoy, udel'nyy zaryadom elektro-na i postoyannoy tonkoy struktury)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,
Vol 36, Nr 6, p 1940 (USSR)

ABSTRACT:

Between the gravitation constant $G = 6.673 \cdot 10^{-8} \text{ g}^{-1} \text{ cm}^3 \text{ sec}^{-2}$, the electron mass m , its charge e , and the fine-structure constant $\alpha = e^2/\hbar c = (137.0377 \pm 0.0016)^{-1}$ the following numerical relation exists: $\frac{1}{G} \left(\frac{e}{m}\right)^2 = \left(\frac{4\pi}{3}\right) \hbar c / 2e^2$. This relation is exceedingly sensitive to the magnitude of the fine-structure constant; nevertheless, this formula holds with an accuracy within the error limits of $\pm 1\%$. It may be assumed that this simple relation is not a mere random one. (This is a free translation of this "Letter to the Editor". The abstracter).

Card 1/2

The Connection Between the Gravitation Constant, SOV/56-36-6-53/66
the Specific Electron Charge, and the Fine-structure
Constant

ASSOCIATION: Institut nauchnoy informatsii Akademii nauk SSSR (Institute
for Scientific Information of the Academy of Sciences, USSR)

SUBMITTED: March 2, 1959

Card 2/2

IVANTER, I.G.

$K^+ \rightarrow \pi^+ + \pi^0 + e^+ + e^-$ decay. Zhur. eksp. i teor. fiz. 41
no. 1: 244-246 J1 '61. (MIRA 14:7)

1. Institut nauchnoy informatsii AN SSSR.
(Gamma rays) (Radioactive substances—Decay)

IVANTER, I.G.

Determining the decay amplitude of $K^+ \rightarrow 2\pi + \gamma$ from dispersion relations and unitarity conditions. Zhur. eksp. i teor. fiz. 41 no.3:773-783 S '61. (MIRA 14:10)

(Mesons---Decay)

S/020/63/148/002/016/037
B108/B186

AUTHOR: Ivanter, I. G.

TITLE: Topological structure of space and mass spectrum of the elementary particles

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 148, no. 2, 1963, 303-306

TEXT: Various types of critical surfaces are considered, i.e. surfaces associated with a critical radius (or mass) of a body below which the coordinate τ no longer has the character of time. Relationships between the characteristics of the simplest topological structures (spherical, axisymmetric, helical) are derived. The packing coefficients are chosen as such characteristics. The packing coefficients of more complex structures can be expressed in terms of the packing coefficients of the sphere and of the torus. The masses of the elementary particles can be expressed in the form $m_x = m_y \exp(\pm \frac{\hbar c}{4e^2} (I_x/I_y - 1))$, where the symbol

I represents the packing coefficients of the respective particles. According to this scheme, the electron has spherical symmetry and the pion

Card 1/2

ACCESSION NR: AP4019222

s/0056/64/046/002/0568/0577

AUTHORS: Ivanter, I. G.; Popova, A. M.; Ter-Martirosyan, K. A.

TITLE: Behavior of the cross section for the inelastic process
 $a + b \rightarrow c + d + e$ at high energies

SOURCE: Zhurnal eksper. i teor. fiz., v. 46, no. 2, 1964, 568-577

TOPIC TAGS: inelastic scattering, high energy scattering, Regge pole, genuine inelastic collisions, almost elastic collisions, single Regge pole approximation, asymptotic reaction amplitude

ABSTRACT: Conversion of two particles into three is investigated in the region of very high energies, on the basis of the results of an analysis of the asymptotic amplitudes of the inelastic processes. (K. A. Ter-Martirosyan, ZhETF v. 44, 341, 1963; Nuclear Phys., in press. A. M. Popova and K. A. Ter-Martirosyan, Nuclear Phys., in press). The results are based on the assertion that, if only the

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ACCESSION NR: AP4019222

contribution of the Regge pole on the extreme right is included, then the asymptotic behavior is determined solely by the contributions from simple diagrams very similar to Feynman diagrams. The total cross section for the reaction consists of three terms, of which one determines the contribution from small momenta of particle d , the second makes a small contribution when the energy is very large and corresponds to events having a "shower" character, when both ultrarelativistic particles c and d are emitted in a narrow cone in the direction of the colliding particles and the momentum of particle c is much larger than the momentum of particle d . The last term corresponds to the case when the momenta of the particles c and d are almost parallel and their magnitudes are of the same order, corresponding to "almost elastic" collisions, whereas the collisions of the first two types are "genuine elastic collisions." The total cross section is found to have an energy dependence of the form $[c_1 \ln [\ln(s/m^2)] + c_2]/\ln(s/m^2)$ (s -- energy, m -- mass).

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ACCESSION NR: AP4019222

The largest contribution to the cross section corresponds to the case of the so-called "genuine inelastic" collisions. In this case one of the two particles with the same direction has a much larger momentum than the other particle. Orig. art. has: 29 formulas and 4 figures.

ASSOCIATION: None

SUBMITTED: 21Jun63

DATE ACQ: 27Mar64

ENCL: 00

SUB CODE: PH

NO REF SOV: 003

OTHER: 004

Card 3/3

IVANTER, I.G.; POPOVA, A.M.; TER-MARTIROSYAN, K.A.

Behavior of the cross section for the inelastic process
 $a + b \rightarrow c + d + e$ at high energies. Zhur. eksp. i teor. fiz.
46 no.2:568-577 F '64. (MIRA 17:9)

IVANTER, I.G.; TROITSKIY, M.A.

Mass difference of mirror nuclei. Zhur. eksp. i teor. fiz. 47 no.5:
1772-1776 N '64. (MIRA 18:2)

L 2752-66 EWT(m)/T/EWA(m)-2
ACCESSION NR: AP5024345

UR/0367/65/002/002/0307/0314

AUTHOR: Zaretskiy, D. F.; Ivanter, I. G. 44, 55

46
B

TITLE: The four-fermion interaction and baryon masses

SOURCE: Yadernaya fizika, v. 2. no. 2, 1965, 307-314 19, 44, 55

TOPIC TAGS: particle symmetry, unitary symmetry, group theory, strong nuclear interaction, baryon, fermion, particle physics

ABSTRACT: A simple dynamic model is proposed for interpreting the mass spectrum of baryons (octet and decuplet). The mathematical analysis is based on a Hamiltonian with strong four-fermion interaction, which corresponds to a scalar and to the eighth component of an 8-vector $SU(3)$ representation. The four-fermion interaction is made up of strongly interacting baryon currents. This model is used as a basis for determining the relationship between splitting of the masses of the baryons in the octet and corresponding splitting in the decuplet. Orig. art. has: 32 formulas.

ASSOCIATION: none
SUBMITTED: 30Dec64
NO REF SOV: 002

ENCL: 00
OTHER: 016

SUB CODE: HP, MA

mlr
Card 1/1

ZARETSKIY, D.F.; IVAN'ER, I.G.

Four-fermion interaction, and baryon masses. JAd. fiz. 2 no.2:307-
314 Ag '65. (MIRA 18:8)

IVANTER, V.

Efficiency of credit for production mechanization and automation
expenditures. Den. i kred. 21 no.10:27-34 0 '63. (MIRA 16:10)

MAIUSOV, A.N.; YEREMIN, I.A.; IVANTER, V.L.

Effect of the specific energy and current intensity on the
kinetics of formation of nitrogen oxides in a discharge. Zhur.
fiz. khim. 39 no.8:1906-1911 Ag '65. (MIRA 18:9)

L. Moskovskiy gosudarstvennyy universitet imeni Lenina.

SENGHUROV, K.T.; IVANTER, V.S., redaktor; BRODSKAYA, A.B., redaktor;
VARAKIN, I.M., tekhnicheskiy redaktor.

[Market of lumber and pulp-and-paper goods in capitalistic countries]
Rynok lesnykh i tselliulozno-bumazhnykh tovarov kapitalisticheskikh
stran. Moskva, Vnezhtorgizdat, 1953. 114 p. (MLRA 7:12)
(Lumber trade) (Wood pulp industry)

IVANTER, V.S.; NOVOSEL'TSEV, N.V., red.

[What to read about efficient utilization of wood; a bibliography of recommended Soviet literature, 1945-1950]
Chto chitat' o ratsional'nom ispol'zovanii drevesiny; rekomendatel'nyy ukazatel' otechestvennoi literatury za 1945-1960 gg. Moskva, 1961. 26 p. (MIRA 15:5)

1. Moscow. Tsentral'naya nauchno-tekhnicheskaya biblioteka lesnoy i bumazhnoy promyshlennosti.
(Bibliography--Wood-using industries)

IVANTER, V.S.; MITROFANOV, A.Ye., red.; IOFA, M.A., otv. red.

[What to read about the construction of logging roads;
index of recommended Russian literature for 1958-1960] Chto
chitat' o stroitel'stve lesovoznykh dorog; rekomendatel'nyi
ukazatel' otechestvennoi literatury za 1958-1960 gg. Mo-
skva, 1962. 32 p. (MIRA 16:2)

1. Moscow. TSentral'naya nauchno-tekhnicheskaya biblioteka
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1. Iz endokrinologicheskogo kabineta Instituta onkologii (dir. -
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otdela mikrobiologii Instituta eksperimental'noy meditsiny (dir. -
deystvitel'nyy chlen AMN SSSR D.A. Biryukov), AMN SSSR, Leningrad.