is equal to $\frac{8\pi}{\sqrt{\nu^2-m^2}} \operatorname{Im} f_{H(A)}(\nu)\big|_{\Delta^2=0}$ and under consideration of the formulas

$$\frac{m^2}{E^2}\left[|\alpha_{H(A)}|^2 + |\beta_{H(A)}|^2 + 2|\gamma_{H(A)}|^2 + |\delta_{H(A)}|^2 + |\varepsilon_{H(A)}|^2\right] \quad (2)$$

$\delta_{H(A)} \to \beta_{H(A)}$; $\gamma_{H(A)} \to 0$; and

$$T_{H(A)} \to \frac{m}{E}\left[\alpha_{H(A)} + \beta_{H(A)}(\vec{\sigma}_1\vec{\sigma}_2) + (\varepsilon_{H(A)} - \beta_{H(A)})(\vec{\sigma}_1\vec{l})(\vec{\sigma}_2\vec{l})\right] \quad (6)$$

(8) $a_H(\nu) \approx -(\pm 1)\, a_A^{\gamma}(\nu)$ for $\nu \to \infty$ is obtained.

This equation corresponds with the results of the work (Ref 1). Furthermore the conclusion can be made that the total scattering cross-sections averaged after the polarizations and the differential cross-sections for elastic scattering are equal for narrow

On the Relation Between the Amplitudes of Nucleon-Nucleon and Antinucleon-Nucleon Scattering at High Energies

SOV/54-58-3-4/19

angles of the nucleon-nucleon and antinucleon-nucleon scattering at high energies. There are 2 references, 1 of which is Soviet.

SUBMITTED: March 5, 1958

Card 3/3

Kuni, F. M.

AUTHOR: Kuni, F. M.

56-1-24/56

TITLE: The Application of the Low Integral Equation Method to the Problem of Proton-Proton Scattering (Primeneniye metoda integral'nykh uravneniy Lou k zadache o rasseyanii protona na protone).

PERIODICAL: Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1958, Vol. 34, Nr 1, pp. 163-172 (USSR).

ABSTRACT: The present paper investigates the problem of the elastic nuclear proton-proton scattering from the point of view of the integral equation of the Low (Lou)-ian type. The first section of this paper treats the integral equation for the scattering of a proton on a proton. First the matrix-element of the operator used for the examination is given. The present paper shall now derive an integral equation for this matrix--element. The author starts from the anticommutation relation for the operators of the nucleon field. The course of the calculation is followed step by step and the sought integral equation is then explicitly given. In the second section the integral equation for the wave $^1S_0$ is investigated and the cross section of scattering is calculated. The author here

Card 1/3

The Application of the Low Integral Equation Method to the Problem of Proton-Proton Scattering. 56-1-24/56

restricts himself to the taking into account of the most intensively scattered wave $^1S_0$ with a disappearing orbital angular momentum, spin and total angular momentum. The matrix-element corresponding to this case is explicitly given. The expression obtained by a longer calculation for the cross section of the scattering of the wave $^1S_0$ is explicitly given here. This expression only little depends on the cut-off energy and in the range of medium energies (approximately from 0,1 to 100 MeV) is in good agreement with the experimental data. By the method of calculation discussed here it is not possible to determine the dependence of the initially mentioned matrix-element and of the cross section of the scattering on the interaction constant g^2. But the dependence of the integration constant and thus also of the cross section of the scattering on the interaction constant g^2 could principally by determined by comparison with the theory at low temperatures. In this paper the author only makes some general remarks on this. There are 5 non-Slavic references.

ASSOCIATION: Leningrad State University (Leningradskiy gosudarstvennyy universitet).

Card 2/3

The Application of the Low Integral Equation Method to the Problem of Proton-Proton Scattering. 56-1-24/56

SUBMITTED: July 11, 1957

AVAILABLE: Library of Congress

Card 3/3

KUNI, F. M. Cand Phys-Math Sci -- (diss) "Dispersion relationship and Low's equation for nucleon-nucleon scattering." Len,1959. 8 pp (Len Order of Lenin State Univ im A. A. Zhdanov), 200 copies (KL, 48-59, 113)

AUTHORS: Fok, V. A., Academician, Kuni, F. M. SOV/2o-127-6-14/51

TITLE: On the Introduction of a "Quenching" Function in the Dispersion Relations

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 6, pp 1195-1198 (USSR)

ABSTRACT: The object of the present paper is the proof of the analytical continuation of the scattering amplitude into the upper half plane, into the so-called "physical"range of energy. The idea of the proof consists in the introduction of a weight function into the Cauchy formula. In the first part, a limited range in the complex plane is used as a basis, and the proof of the analytical continuation is given by means of two theorems. By means of the results obtained, the dispersion relations are investigated, and the function describing the energy of the dispersing particles is conformally transformed into a semicircle $|z| \leq 1$, and it is ascertained that the problem of the analytical continuation is identical in both planes. The transformed function is then introduced into equations (1a) and (3), and the equations (5) and (6) are obtained. Equation (5) expresses the value of the scattering amplitudes in the upper half plane of energy by its value

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in the "physical" range of energy, and equation (6) is the condition of the analytical continuation. Finally, the dispersion of protons on protons is dealt with as an example. There are 3 figures and 6 references, 2 of which are Soviet.

SUBMITTED: May 29, 1959

DOBRETSOV, Leontiy Nikolayevich; KUNI, F.M., red.; KAL', M.M., red.; LUK'YANOV, A.A., tekhn.red.

[Atomic physics] Atomnaia fizika. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 348 p. (MIRA 14:3)
(Spectrum, Atomic) (Atomic theory)

TERENT'YEV, I.A.; KUNI, F.M.

Expressing the amplitude of the $2\pi \to N\bar{N}$ reaction in terms of the phases of π-π and π-N scattering. Vest. LGU 16 no.16:5-18 '61. (MIRA 14:8)

(Mesons--Scattering)
(Nuclear reactions)

22140
S/056/61/040/003/020/031
B108/B209

24.6900 (1138, 1191, 1559)

AUTHORS: Kuni, F. M., Terent'yev, I. A.

TITLE: A method of successive extension of the range of known spectral functions in the Mandelstam representation

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40, no. 3, 1961, 866-878

TEXT: The authors perform an approximative calculation of the nucleon-nucleon scattering amplitude on the basis of the Mandelstam representation. The aim of the study is to establish a semiphenomenological method of determining the amplitude of nucleon-nucleon scattering from the amplitudes of pion-pion and pion-nucleon scattering. Part I of the paper deals with the Mandelstam equations (Refs. 1, 2: S. Mandelstam. Phys. Rev., 112, 1944, 1958; K. A. Ter-Martirosyan. ZhETF, 39, 827, 1960). In part II, it is shown how from the absorbed portion of the amplitude, given in the physically meaningful region, the spectral functions in Mandelstam representation may be found for a successively extending range. The reactions of pion-pion, pion-nucleon, and nucleon-nucleon scattering are given by

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A method of successive ...

$$\pi(q_1) + \pi(q_2) \to \pi(q_3) + \pi(q_4), \quad \text{(A.I)} \qquad \text{(A.I)}$$

$$\pi(q_1) + \pi(-q_4) \to \pi(q_3) + \pi(-q_2), \quad \text{(A.II)} \qquad \text{(A.II)}$$

$$\pi(q_1) + \pi(-q_3) \to \pi(-q_2) + \pi(q_4) \quad \text{(A.III)} \qquad \text{(A.III)}$$

$$\pi(q_1) + N(p_1) \to \pi(q_2) + N(p_2). \quad \text{(B. I)} \qquad \text{(B.I)}$$

$$\pi(-q_2) + N(p_1) \to \pi(-q_1) + N(p_2), \quad \text{(B. II)} \qquad \text{(B.II)}$$

$$N(p_1) + \bar{N}(-p_2) \to \pi(-q_1) + \pi(q_2) \quad \text{(B.III)} \qquad \text{(B.III)}$$

$$N(n_1) + N(p_1) \to N(n_2) + N(p_2), \quad \text{(C. I)} \qquad \text{(C.I)}$$

$$N(n_1) + \bar{N}(-p_2) \to \bar{N}(-p_1) + N(n_2), \quad \text{(C.II)} \qquad \text{(C.II)}$$

$$N(n_1) + \bar{N}(-n_2) \to \bar{N}(-p_1) + N(p_2) \quad \text{(C.III)} \qquad \text{(C.III)},$$

respectively. $\pi(q)$ denotes the pion with the four-momentum q;

Card 2/6

A method of successive ...

N(p) and $\overline{N}(p')$ are the nucleon and antinucleon with the four-momenta p and p', respectively. The Mandelstam system of equations is found by writing the unitary conditions for the spectral functions of the above reactions in approximation for elastic scattering. When the partial amplitudes $h_1(\nu^2)$ are given, the expression

$$A_i(\sigma_1, \sigma_3) = \sum_l \operatorname{Im} h_l(\nu^2) P_l(\cos\chi). \qquad (80) \qquad (80)$$

follows for the absorbed portion of the amplitude in the case (A.I); l denotes the moment of momentum, ν the momentum, χ the scattering angle in the c.m.s., which is related to the relativistically invariant variables $\sigma_1 = (q_1 + q_2)^2$, $\sigma_2 = (q_1 - q_4')^2$, $\sigma_3 = (q_1 - q_3)^2$ (1) by the relations

$$\sigma_1 = 4\mu^2 + 4\nu^2, \quad \sigma_2 = -2\nu^2(1 + \cos\chi). \quad \sigma_3 = -2\nu^2(1 - \cos\chi). \quad (81) \qquad (81),$$

where μ is the mass of the pion at rest. When ν = const, the A_1 are

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found from Eq. (80) for all regions where the spectral functions $A_{13}(\sigma_1, \sigma_3) = 0$, $A_{12}(\sigma_1, \sigma_2) = 0$ (82). This region is termed the region of zeroth approximation with respect to the absorbed portion. If $A_1(\sigma_1, \sigma_3)$ is known in this region, the spectral function $\chi(\sigma_3, \sigma_1) + \chi(\sigma_1, \sigma_3)$ may be found from

$$A_{13}^{(3)}(\xi, \eta) = -\frac{1}{4\pi^2\eta^{1/2}(\eta/4-\mu^2)^{1/2}} \int\limits_{(\xi_1<\xi)} dxdy \frac{A_1^*(x, \eta) A_1(y, \eta)}{[(\xi-\xi_1)(\xi-\xi_2)]^{1/2}}, \quad (12) \qquad (12)$$

$$\xi_{1,2} = \xi_{1,2}(\eta; x, y) = x + y + \frac{2xy}{\eta-4\mu^2} \pm \frac{2}{\eta-4\mu^2} \times$$

$$\times [x^2 + (\eta-4\mu^2)x]^{1/2}[y^2 + (\eta-4\mu^2)y]^{1/2}, \quad (13) \qquad (13)$$

in regions where

$$\sigma_3 \leqslant \xi_1(\sigma_1; \sigma_1^{(0)}(\sigma_1), 4\mu^2), \qquad \sigma_1 \leqslant \xi_1(\sigma_3; \sigma_1^{(0)}(\sigma_3), 4\mu^2).$$

which are termed the regions of zeroth approximation of the spectral function $A_{13}(\sigma_1, \sigma_3)$. By extending the region in which the absorbed

portion $A_1(\sigma_1, \sigma_3)$ is known, one may, by Eq. (12), extend the region where the spectral functions $A_{13}(\sigma_1, \sigma_3)$ and $A_{12}(\sigma_1, \sigma_2)$ are known, so that the region of this $A_1(\sigma_1, \sigma_3)$ may be extended anew. This extension is only possible if $X_A(\sigma_1, \sigma_3)$ (that portion of $A_{13}(\sigma_1, \sigma_3)$ which is due to inelastic scattering with energies σ_1 and σ_3) vanishes. The calculation for pion-nucleon and for nucleon-nucleon scattering is analogous. The phase of nucleon-antinucleon annihilation into two pions may then be expressed in terms of the pion-pion scattering phase and of the absorbed portion of the pion-nucleon scattering amplitude if the integral equation of the latter for a fixed scattering angle can be solved by the method of N. I. Muskhelishvili (Ref. 6: Singulyarnyye integral'nyye uravneniya, Gostekhizdat, 1946). The authors thank Yu. V. Novozhilov for advice and his interest in this study. There are 6 references: 3 Soviet-bloc and 2 non-Soviet-bloc.

22140

S/056/61/040/003/020/031
B108/B209

A method of successive ...

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: September 20, 1960

Card 6/6

S/054/63/004/001/002/022
B102/B186

AUTHORS: Kuni, F. M., Franke, V. A.

TITLE: One possibility for taking into account the jumps in transition amplitude above the production threshold of more than two particles

PERIODICAL: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii, no. 1, 1963, 15-19

TEXT: A method is developed for calculating the inelastic components of the absorptive part of the partial amplitudes on the physical cut. The initial assumptions made are the same as are usually applied in calculations based on the two-particle Mandelstam method. As a discussion of the conditions

$$\langle 2'|A|2\rangle_{\text{унр}} = \int d\Omega_{2''} \langle 2'|T|2''\rangle^* \langle 2''|T|2\rangle, \quad (4)$$

$$\langle 2'|\widetilde{A}|2\rangle_{\text{унр}} = \int d\Omega_{2''} \langle 2'|T|2''\rangle \langle 2''|T|2\rangle^*. \quad (4a)$$

holding for the elastic components of the absorptive part of the amplitudes shows, the condition

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One possibility for taking into ...

$$\frac{\operatorname{Im}\int d\Omega_{2''}\langle 2'|T|2''\rangle^{*}\langle 2''|T|2\rangle}{\left|\int d\Omega_{2''}\langle 2'|T|2''\rangle^{*}\langle 2''|T|2\rangle\right|}=0 \qquad (5)$$

will be valid also above the production threshold of more than two particles. Eq.(5) ensures validity of all calculations based on the two-particle Mandelstam method. With the $N\bar{N} \to 2\pi$ reaction as an example it is shown that this condition yields equations for the partial amplitudes when both elastic and inelastic components of the absorptive part are taken into account. This method can also be generalized for other reactions.

SUBMITTED: September 15, 1962

Card 2/2

KUKI, F.K.

Functional methods in statistical thermodynamics of inhomogeneous fluids. Part 1. Vest LGU 19 no.22 87-98 '64
(MIRA 18:1)

KUNI, F.M.

Contribution to the osmotic theory of solutions. Dokl. AN SSSR 157 no.5:1178-1179 Ag '64. (MIRA 17:9)

1. Leningradskiy gosudarstvennyy universitet im. Zhdanova. Predstavleno akademikom V.A. Fokom

KUNI, F.M.

Functional methods in statistical thermodynamics of inhomogeneous fluids. Part 2. Vest. LGU 20 no.4:11-25 '65.

(MIRA 18:4)

KUNI, F.M.

Statistical thermodynamics of surface phenomena. Part 1: Relationships between distribution functions at two different external fields. Koll. zhur. 27 no.4:546-551 Jl-Ag '65.
(MIRA 18:12)

1. Fizicheskiy fakul'tet Leningradskogo universiteta.
Submitted January 29, 1964.

KUNI, F.M.

Statistical thermodynamics of surface phenomena. Part 2: Distribution functions in the surface layer of a liquid. Koll. zhur. 27 no.5:720-727 S-O '65. (MIRA 18:10)

1. Leningradskiy universitet imeni Zhdanova, fizicheskiy fakul'tet.

KUNI, F.M.

Statistical thermodynamics of surface phenomena. Part 3: Thermodynamics of a surface layer of liquid. Koll. zhur. 27 no.6:839-845 N-D '65. (MIRA 18:12)

1. Fizicheskiy fakul'tet Leningradskogo universiteta.
Submitted January 29, 1964.

L 34422-66 EWT(m)/T IJP(c) WW/JW/RM

ACC NR: AP6010547 SOURCE CODE: UR/0069/65/027/006/0839/0845

AUTHOR: Kuni, F. M.

CRG: Physics Department, Leningrad University (Fizicheskiy fakul'tet, Leningradskiy universitet)

TITLE: Contribution to the statistical thermodynamics of surface phenomena. Part 3. Thermodynamics of the surface layer of a liquid

SOURCE: Kolloidnyy zhurnal, v. 27, no. 6, 1965, 839-845

TOPIC TAGS: statistical thermodynamics, rarefied gas, surface tension

ABSTRACT: The article continues the study of an interphase layer located between a rarefied gas and a liquid or between a solid layer and a liquid. The discussion is restricted to the case where the molecules of the liquid interact only via paired central forces characterized by a certain reciprocal potential, and for simplicity, the molecules are assumed to be identical and monatomic. The study is based on the relations between the partition functions for a liquid in the presence of two different external fields $u(\vec{r})$ and $u_0(\vec{r})$. Using the molecular-statistical theory, the author derives an expression for the surface tension at the boundary between a liquid and a rare gas or a solid, taking into account the structure of the transition layer, and an expression for the dependence of the surface tension of the liquid at the boundary with the rarefied gas on the curvature of this boundary. The author thanks

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UDC: 541.18.536.7

L 34422-66

ACC NR: AP6010547

2

V. A. Fok and Yu. V. Novozhilov for helpful comments. Orig. art. has: 27 formulas.

SUB CODE: 07, 20/ SUBM DATE: 29Jan64/ ORIG REF: 003/ OTH REF: 002

Card 2/2 BLG

FISHER, G.S., inzh.; KUNI, G.V., inzh.; KHLEBNIKOV, A.Kh., inzh.

Construction of precast reinforced concrete road spans which are jointed both longitudinally and laterally. Avt.dor. 22 no.4:12-14 Ap '59. (MIRA 12:6)

(Roads, Concrete)

FISHER, G.S., inzh.; KUNI, G.V. inzh.; KHLEBNIKOV, K.A., inzh.

New technology for injecting channels in prestressed beams under low-temperature conditions. Avt. dor. 22 no.5:8 My '59. (MIRA 12:8)

(Bridges, Concrete)

AUTHOR

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and Their Applications. Cellulose and Cellulose Products. Paper. K-5

Abs Jour : Ref Zhur - Khimiya, No 2, 1958, 6609

Author : Slavik, Kuniak

Inst : -

Title : On Lignin Determination in Viscose Bleached Cellulose.

Orig Pub : Chem. zvesti, 1957, 11, No 5, 285-292

Abstract : In order to determine the actual lignin content it is proposed that the sample be preliminarily extracted with ether for the purpose of eliminating the resins which are present in the sample.

Card 1/1

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications. Cellulose and Its Derivatives. Paper. H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 21810

Author : Kuniak, L.; Slavik, I.
Inst :
Title : Delignification of Wood Pulp with Nitric Acid.

Orig Pub : Papir a celulosa, 1958, 13, No 1, 6-11

Abstract : The outlay of HNO_3 (I) during boiling of cellulose (C) and polycellulose from beech wood pulp and the possibility of regeneration of I, were investigated. The quality of C obtained was compared with C obtained

Card : 1/2

17-147

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications. Cellulose and Ita Derivatives. Paper. H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 21810

by the chlorination method. During delignification (DL) with very reactive I, C is obtained; DL proceeds rapidly; concentrated solutions of sugars useful for fermentation were obtained, which DL does not give with chloride; the negative side of this method is the high temperature of DL. The authors have not succeeded in achieving full regeneration of I as this is done in Canada (by use of a catalyst). -- E. Tukachinskaya

Card : 2/2

Country : CZECHOSLOVAKIA
Category :

Abs. Jour : 44894

Author : Kuniak, L. and Mahdalik, M.
Institut. :
Title : Content of Non-Glucose Sugars in Viscose Cellulose

Orig Pub. : Papir a celulosa, 1958, 13, No 11, 243-244

Abstract : Local and foreign celluloses (C) were tested with respect to their content of non-cellulose sugars and also the content of α-, β-and γ-C. It was established that the local C contain considerable quantities of mannan and xylan which diminish the reaction capacity of viscose C. The removal of these sugars may be attained by additional refining. Author's resume.

Card: 1/1

CATEGORY :

ABS. JOUR. : RZKhim., No. 1959, No. 73455

AUTHOR : Mahdalik, M.; Kuniak, L.
INST. :
TITLE : Short Fibers in Viscose Cellulose

ORIG. PUB. : Papir a celul., 1958, 13, No 4, 77-81

ABSTRACT : An attempt is made to explain the effect of short fibers content on properties of viscose cellulose. The results obtained by the authors have confirmed prior data concerning the fact that the content of resin and lignin in short fibers is several times higher than in the initial cellulose. Removal of short fibers would lower the resin content of cellulose by 80-90%.

From Authors' Summary.

CARD: 1/1

(19)

KUNIAK, L.; SLAVIK, I.

"Sugar sorghum, a new important raw material for the cellulose industry."
P. 102.

PAPIR A CELULOSA. (Ministerstvo lesu a drevarskeho prumyslu). Praha, Czechoslovakia, Vol. 14, No. 5, May 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

ALINCE, Bohumil; KUNIAK, Ludovit

Effect of mercerization on the density and sorption capacity of cellulose. Papir a celulosa 19 no. 3: 67-70 Mr '64.

1. Institute of Chemistry, Slovak Academy of Sciences, Bratislava.

KUNIAK, Ludovit; ALINCE, Bohumil

Study of changes in pulp wetting temperatures during hydrolysis, mercerization, and drying. Drevarsky vyskum no.2:63-72 '64.

1. Institute of Chemistry of the Slovak Academy of Sciences, Bratislava.

KUNIAK, Ludovit

Requirements for the properties of the sheet in the titration of cellulose. Pt.2. Chem prum 15 no.2:73-77 F '65.

1. Institute of Chemistry of the Slovak Academy of Sciences, Bratislava.

KUNIAK, M.

Contribution to the theory of geometric constructions of quadratic problems. Sbor VST Kosice 1:35-41 64.

1. Chair of Descriptive Geometry of the Higher School of Technology, Kosice. Submitted March 28, 1963.

CEPEL, J.; KUNIAK, M.

Graphic method of determining the shape of a concave helicoidal surface. Sbor VST Kosice 1:77-86 '64.

1. Chair of Machine Parts of the Higher School of Technology, Kosice (for Cepel). 2. Chair of Descriptive Geometry of the Higher School of Technology, Kosice (for Kuniak). Submitted March 25, 1963.

CEPEL, J., doc. inz.; KUNIAK, M., inz.; SIPOS, A., inz.

Graphic and mathematical method of determining the form of a concave helical surface. Strojirenstvi 14 no.4:280-286 Ap '64

1. Higher School of Technology, Kosice (for Cepel and Kuniak)
2. KPU, Kosice (for Sipos).

KUNIAK, Matus, inz.

Graphic definition of characteristics of enveloping helicoid surfaces. Aplikace mat 9 no.6:455-466 '64.

1. Higher School of Technology, Kosice, Zbrojnicka 7. Submitted January 28, 1964.

BARDOS, L.; KUNIAK, M.

Our surgical approach to the thoracic esophagus and its geometrical justification. Rozhl. chir. 42 no.10:693-699 O '63.

1. Chirurgicka klinika Lekarskej fakulty UPJS v Kosiciach (prednosta prof. dr. J. Knazovicky) a Katedra deskriptivnej geometrie VST v Kosiciach (veduci prom. mat. V. Paluch).

MEDVEC, Andrej, doc. inz.; KUNIAK, Matus, inz.

Contribution to the kinematics of blade section grinding.
Stroj cas 16 no.1:6-13 '65.

1. Higher School of Technology, Kosice. Submitted May 20, 1964.

VOLODCHENKO, K.G.; BONAS, O.V.; ISAKOV, L.I.; SMIRNOV, V.A.; KUNICHENKO, M.S.; LASHKOVA, Ye.A.; UVAROVA, N.A.; CHEVOTKINA, M.A.; NIKOLAYEV, P.S., glavnyy red.; SEREBRYAKOV, L.P., glavnyy red.; DERZHAVINA, N.G., red.; GUROVA, O.A., tekhn.red.; IVANOVA, A.G., tekhn.red.

[ENV unified production norms for operations in geological prospecting; mining operations] Edinye normy vyrabotki na geologorazvedochnye raboty (ENV); gornoprokhodcheskie raboty. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1959. 123 p. (MIRA 13:6)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr. 2. Otdel ekonomiki geologorazvedochnykh rabot Vsesoyuznogo nauchno-issledovatel'skogo instituta mineral'nogo syr'ya (VIMS) (for Volodchenko, Bonas, Isakov, Smirnov, Kunichenko, Lashkova, Uvarova, Chevotkina).

(Mining engineering--Standards)

KANAREYKIN, K.F., doktor meditsinskikh nauk; KUNICHEV, L.A.

"Sochi the all-Union health resort." M.M.Shikhova. Reviewed by K.F.Kanareikin, L.A.Kunichev. Vop.kur.fizioter. i lech.fiz.kul't. 21 no.2:70-72 Ap-Je '56. (MLRA 9:9)
(SOCHI--THERAPEUTICS, PHYSIOLOGICAL)
(SHIKHOVA, M.M.)

KUNICHEV, L.A.

Dosage of sun baths in ultraviolet radiation units by an automatic dosimeter. Vop.kur.fizioter. i lech. fiz.kul't.21 no.3:34-37 Jl-S '56. (MLRA 9:10)

1. Iz klinicheskogo sanatoriya imeni Fabritsiusa, Sochi.
(SUN BATHS)

KUNICHEV, L.A., polkovnik.med.sluzhby

Heliotherapy during the cold season at Sochi-Matsesta. Voen.med. zhur. no.12:48-52 D'57 (MIRA 11:5)
(SUNLIGHT, ther.use,
during cold seasons (Rus))

KUNICHEV, L.A.

[redacted] radiation in Sochi during the eclipse of June 30, 1954.
Biul. VAGO no.20:41-46 '57. (MLRA 10:8)
(Eclipses, Solar--1954)
(Solar radiation)

KUNICHEVA, G.S.

"Parenchymatous keratitis." A.G.Krol'. Reviewed by G.S.Kunicheva. Vest.oft. 69 no.3:41-43 My-Je '56. (MLRA 9:8)
(CORNEA--DISEASES) (KROL', A.G.)

KUNICHEVA, G.S.

Clinical significance of indications of the functional state of the nervous system in glaucoma [with summary in English]. Vest.oft. 71 no.5:3-18 S-O '58 (MIRA 11:10)

1. Glaznaya klinika I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova (zav. kafedroy - chlen-korrespondent AMN SSSR prof. V.N. Arkhangel'skiy).

(GLAUCOMA, physiol.
NS funct., clin. significance (Rus))
(NERVOUS SYSTEM, in various dis.
glaucoma (Rus))

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Developmental anomalies in the progeny of guinea pigs in radiated with gamma rays and their inheritance in a number of generations. Med.rad. 4 no.11:37-42 N '59. (MIRA 13:2)

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L 21908-66 EWT(m)/T/EWA(h) IJP(c)
ACC NR: AP6014483 SOURCE CODE: PO/0046/65/010/007/0463/0468

AUTHOR: Kunicki, Adam; Scharf, Waldemar

ORG: Laboratory of Dosimetric Apparatuses, Experimental Department, Bureau of the Organization of Nuclear Technology (Pracownia Aparatury Dozymetrycznej Zaklad Doswiadczalny, Biuro Urzadzen Techniki Jadrowej); Institute of Nuclear Research, Warsaw-Zeran (Instytut Badan Jadrowych)

TITLE: Universal laboratory monitor [19] model MSP-2

SOURCE: Nukleonika, v. 10, no. 7, 1965, 463-468

TOPIC TAGS: gamma radiation, beta radiation, alpha radiation, radiation counter, scintillator, plutonium

ABSTRACT: The monitor system, designed mostly for measurement of low-level and medium-level contamination of laboratory table tops and floors, consists of a portable counting-control and power supply-chassis with provisions for attaching three different types of probes. For hard beta and for gamma radiation, 3 G-M counters with a wall thickness of 45 mg/cm^2 and a total area of 72 cm^2 are used. For alpha-radiation, a ZnS (Ag) scintillator with a 1.1 mg/cm^2 "Melinex" window and area of 100 cm^2 is used. It is 20% efficient for a ^{239}Pu source over a solid angle of 2 Pi. For soft beta radiation, G-M counters with 2- and 4-mg/cm^2 mica windows and a sensitive area of 14 cm^2 are used. The counting circuitry employs a count-rate meter designed for three ranges of count-rate; 15 to 600, 150 to 6000, and 1500 to 60,000 counts per minute. Straight-forward counting is possible with the use of mechanical scalars

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L 21908-66
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having a maximum counting speed of 50/sec and a maximum storage capacity of about 10^4 counts. The count-rate meter has a pulse-forming network in which a univibrator is turned on by a random event (count) and turned off by a multivibrator pulse running at a fixed frequency, N_o. The resultant average current measured by an ammeter gives a (nonlinear) measure of the count rate with the use of a calibrated scale. The accuracy of this scale is about 10% for count rates N of 0.2 to 10 times N_o. Orig. art. has: 5 figures. [NA]

SUB CODE: 18 / SUBM DATE: none

Card 2/2 7118

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Investigation of 2,922 quarters samples of milk from 19 large herds showed the presence of Str. mastitidus in 10.33%, Str dysgalactiae in 0.65%, other streptococci in 0.98%, Esch. coli in 0.23% of cases. In 174 cases of latent infection andy micrococci in large numbers were isolated. The frequency of latent and chronic infection varied in various herds from 27% to 90%. The age of an animal has a marked influence on the frequency of infection--mastitis was detected only in 20% of cows in their first lactation period, but in 88% of animals 10 years old or older. Infection localized in one quarter of the udder has little significance for yield of the milk. For the detection of latent and chronic masitis the following combination of laboratory tests was found to be suitable: determination of hydrogenion concentration, quantitative catalase test can be substituted for coll on blood-agar plates. The quantitative catalase test can be substituted for cell count. The amount of catalase is proportional to the logarithm of the number of leucocytes per ml. Kunicki-Goldfinger--Lubin

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