SUBJECT USSR / PHYSICS

AUTHOR SUDAKOV, V.V.

TITLE The Conclusions to be drawn from the Renormaliability of Quantum Electrodynamics and the Meson Theory.

PERIODICAL Zurn.eksp.i teor.fis, 31, fasc.4, 729-731 (1956)
Issued: 1 / 1957

According to the author's opinion these conclusions drawn from renormalizability (M.GELL-MANN, F.F.LOW, Phys.Rev. 95, 1300 (1954), N.P.BOGOLJUBOV, D.V.ŠIRKOV, 30, 77)(1956) are best formulated as follows:

$$\alpha(g_o^2, \zeta - L) = \frac{\alpha_c(g_c^2, \zeta)}{\alpha_c(g_c^2, L)}, \quad \beta(g_o^2, \zeta - L) = \frac{\beta_c(g_c^2, \zeta)}{\beta_c(g_c^2, L)}, \quad d(g_o^2, \zeta - L) = \frac{d_c(g_c^2, \zeta)}{d_c(g_c^2, L)}$$

Here α_c, β_c, d_c denote the asymptotic expressions of the slowly modifying factors in the case of a renormalized summit part and renormalized GREEN'S functions of the nucleon, g_c - the renormalized meson charge, $\zeta = \ln(-k^2/m^2)$, $L = \ln(\Lambda^2/m^2)$ (Λ is the "cut off momentum", α, β, d and g_o denote the not renormalizable quantities which correspond to the cut-off momentum Λ.

It was found useful from the beginning to introduce the logarithmic variables ζ and L. Apart from the trivial conclusion that α, β and d become equal to one at $\zeta = L$, the following postulate results which is of importance for what

is to follow: with $\zeta \gg 1$, α, β and d are asymptotically the functions of the difference $\zeta - L = \ln(-k^2/\Lambda^2)$ alone, i.e. they no longer depend on the nucleon mass m. Further, a quantity is introduced which may be called "effective charge":

$$g^2(\zeta) = g_0^2\alpha^2(g_0^2, \zeta - L)\beta^2(g_0^2, \zeta - L)d(g_0^2, \zeta - L) = g_c^2\alpha_c^2(g_c^2, \zeta)\beta_c^2(g_c^2, \zeta)d_c(g_c^2, \zeta).$$

This equation results from the aforementioned relations and from the relations between the renormalized and the not renormalized charges. From the last named equation it may be seen that the effective charge g can be looked upon either as a function of g_0^2 and ζ or as a function of g_c^2 and ζ. The final formulation consists in the statement that the logarithmic derivatives of α and α_c etc. according to ζ depend only on the effective charge:

$$\alpha'/\alpha = \alpha_c'/\alpha_c = F_1(g^2); \quad \beta'/\beta = \beta_c'/\beta_c = F_2(g^2); \quad d'/d = d_c' = F_3(g^2);$$

$$(g^2)'/g^2 = 2F_1(g^2) + 2F_2(g^2) + F_3(g^2)$$

The strokes here denote differentiation according to the corresponding argument $\zeta - L$ or ζ. The last equation is a consequence of the first three and also of the second-named equation. As an example the first of the three equations is proved; the others are obtained in the same manner.

$\alpha = Q^{1/5}$, $\beta = Q^{-3/10}$; $d = Q^{-4/5}$ are obtained.
In the most simple case of quantum electrodynamics and if the series of the perturbation theory for GREEN'S function of the photon:
$d_t = \sum_{m \geq n} c_{mn} e_o^{2m} (\{ -L)^n$ is known an asymptotic expression for d_t can be obtained in any order with respect to e^2. With the help of WARD'S theorem the following is obtained for quantum electrodynamics:
$e^2(\{) = e_o^2 \, dt_t \, (e_o^2, \{ - L) = e_c^2 \, d_{t,c} \, (e_c^2, \{) \, d_t'/d_t = d_{t,c}' = F(e^2)'/e^2 = F(e^2)$
By an investigation which is similar to the above we obtain:

$$F(e^2) = \sum_{m=1}^{\infty} c_{m1} \, e^{2m} \Big/ \sum_{m=o}^{\infty} c_{mo} \, e^{2m}$$

When determining the aforementioned series for d_t the cut-off proceeding demonstrated by D.W.POSENER and M.W.P.STRANSBERG, Phys.Rev.95, 374 (1954), which warrants the condition $d_t(e_o^2, 0) = 1$ being satisfied with accuracy, must be used.

INSTITUTION:

Žurn.eksp.i teor.fis,31,fasc.5,899-901 (1956) CARD 2 / 4 PA - 1931

$\mathfrak{P}$ denotes a quantity which is connected with the amplitude P of scattering by the following relation: $\mathfrak{P} = (g_0^2/4\pi\lambda_0)P$, $\mathfrak{P}_c = (g_c^2/4\pi\lambda_c)P_c$. λ_0 is a constant in the following term of the HAMILTONIAN of interaction:

$$(\lambda_0/4!)(\delta_{\tau_1\tau_2}\delta_{\tau_3\tau_4} + \delta_{\tau_1\tau_3}\delta_{\tau_2\tau_4} + \delta_{\tau_1\tau_4}\delta_{\tau_2\tau_3})\varphi_{\tau_1}\varphi_{\tau_2}\varphi_{\tau_3}\varphi_{\tau_4}.$$

The equivalence of the definition of the effective charges by renormalized and not renormalized quantities follows from the aforementioned equations and from the following relations between renormalized and not renormalized constants:

$$g_0^2 = g_c^2 \alpha_c^2(g_c^2, \lambda_c, L)\beta_c^2(g_c^2, \lambda_c, L) d_c(g_c^2, \lambda_c, L)$$

$$\lambda_0 = \lambda_c d_c^2(g_c^2, \lambda_c, L)\mathfrak{P}_c(g_c^2, \lambda_c, L)$$

The fundamental statement made is that the logarithmic derivatives of α, β, d, $\mathfrak{P}$ according to $\{$ are only functions of the effective charge g^2, λ The proof of the aforementioned equations is sketched out in short. The logarithmic derivatives of the effective charges are:

$(g^2)'/g^2 = 2F_1(g^2, \lambda) + 2F_2(g^2, \lambda) 2F_2(g^2, \lambda) + F_3(g^2, \lambda)\lambda'/\lambda =$
$= F_4(g^2, \lambda) + 2F_3(g^2, \lambda)$. If F is known these two equations form a system of differential equations which, together with the boundary conditions

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The following equation for the amplitude P of the scattering of a meson by a meson is eventually obtained:

$dP/dx = 16/3 - (11/6)(P/x)^2$. In addition there is the boundary condition $P(1) = 4\pi \lambda_o/g_o^2$. The solution of this equation is:

$$P = \frac{16}{11} \times \frac{B - x^{-19/3}}{B + (8/11)x^{-19/3}} ; \quad B = \left(1 + \frac{1}{2} \frac{4\pi\lambda_o}{g_o^2}\right) / \left(1 - \frac{11}{16} \frac{4\pi\lambda_o}{g_o^2}\right)$$

which is in agreement with the results obtained by I.T.DJATLOV and K.A. TER-MARTIROSJAN, Zurn.eksp.i teor.fis,30, 416 (1956 for $\lambda_o = 0$ ($B = 1$).

The here discussed methods of investigation are suited for the determination of asymptotic behaviors of any order with respect to g^2, λ, if the results of the perturbation theory are available up to and including the corresponding order.

INSTITUTION:

Dokl.Akad.Nauk 111,fasc.2, 338-340 (1956) CARD 2 / 2 PA - 1980

Next, the computation of the contribution made by each single part is discussed in short, after which the amplitude of the scattering of a meson by a meson is expressed as follows:

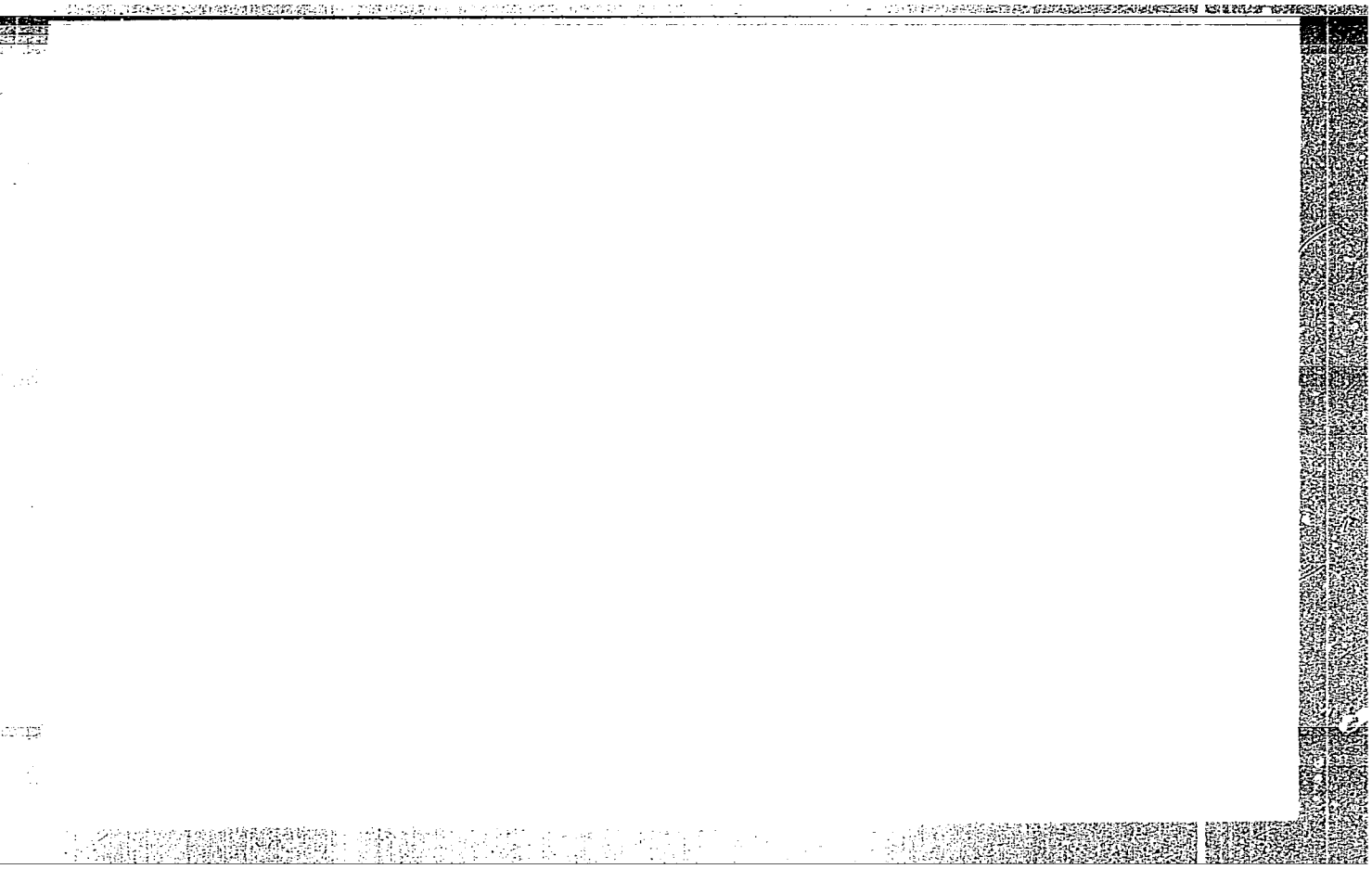
$$P(\xi) = \sum_{N=1}^{\infty} 2^{-N} \sum_{n_0,\ldots,n_N} f_{n_0,n_1,\ldots,n_N}(\xi).$$

Here f_{n_i} denotes the contribution of the i-th particle of the type n_i. The total amplitude P is expressed by a sum of 6 squares (which are illustrated) and by the sum of the three $F(\xi)$, which correspond to the totality of diagrams reducible in a certain manner: $P(\xi) = R_0(\xi) + 3F(\xi)$. The following expression is in the end obtained:

$$P(\xi) = R_0(\xi) - (3g_0^2/8\pi) \int_{\xi}^{L} P^2(z)d^2(z)dz, \quad R_0 = 24(1 - x), x=\left[1+(5g_0^2/4\pi)(L-\xi)\right]^{-1/5}.$$

The derivation mentioned here can be generalized with only minor complications (connected with the occurrence of isotopic indices) for the symmetric pseudoscalar theory. The expression for $P(\xi)$, which corresponds to this case is also explicitly given. In this case the integral equations are reduced to differential equations and their exact solution, i.e. the expressions for P(x) are also explicitly written down. These deliberations point in the direction of the meson charge being equal to zero.

INSTITUTION:



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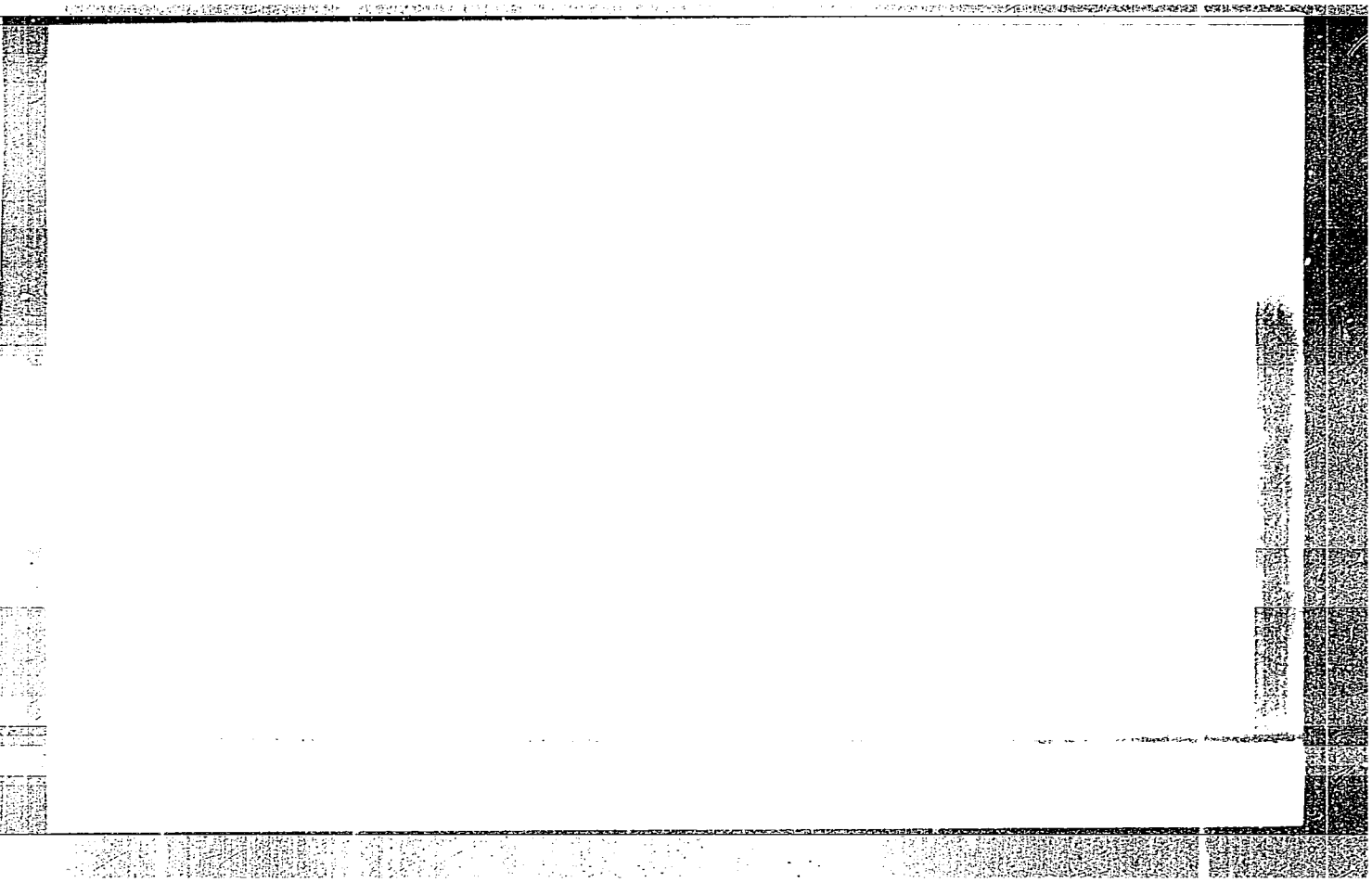

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SUDAKOV, V. V.

56-1-13/52

AUTHOR DYATLOV, I.T., SUDAKOV, V.V., TER-MARTIROSIAN, K.A.

TITLE The Asymptotic Theory of the Scattering of a Meson By a Meson (Asimptoticheskaya teoriya rasseyaniya mezona na mezone. Russian).

PERIODICAL Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 32, Nr 4, pp 767 - 780 (U.S.S.R.)

ABSTRACT The paper under review determines the asymptotic behavior for the amplitude of the scattering of a meson by a meson in a theory of the type of the theory devised by Landau, Abrikosov and Khalatnikov. First of all, the authors of the paper under review demonstrate that the sum of the contributions of all reducible graphs satisfies an exact integral equation, the form of which depends only on the contribution of the primitive graphs. The computation is carried out step by step, and the integral equation obtained is written down in tis explicit form. With two additional analogous equations a system of three integral equations is obtained, this system defines the functions $F(k_1, k_2, k_3, k_4)$, $F(k_1, k_3, k_2, k_4)$ and $F(k_1, k_4, k_2, k_3)$ unambiguously by the known quantity $R_0(k_1, k_2, k_3, k_4)$, i.e. by the contribution of the primitive graphs. Then the integral equation is specialised for the case of high impulses for the neutral and for the symmetrical theory. In the symmetrical theory, it is possible to eleiminte from consideration the variables of the isotopic spin of the mesons. The total sum $P(x)$ of the reducible graphs is a finite quantity of the same order of magnitude as the contribution

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56-4-18/52

The Asymptotic Theory of the Scattering of a Meson By a Meson

R of the primitive graphs. Finally the paper under review discusses the properties of the renormalisation of the amplitude P of the scattering of a meson by a meson. At $L \to \infty$, it is possible to automatically normalize the expressions for the sums $P(x)$ and $P(\xi)$, without being forced to introduce into the Hamiltonian terms proportional to φ^4. (7 reproductions).

ASSOCIATION Not given
PRESENTED BY
SUBMITTED 17 December 1955
AVAILABLE Library of Congress

Card 2/2

KOLKUNOV, V.A.; OKUN', L.B.; RUDIK, A.P.; SUDAKOV, V.V.

Position of the nearest singularities of the $\pi\pi$-scattering amplitude. Zhur. eksp. i teor. fiz. 39 no.2:340-344 Ag '60. (MIRA 13:9)

(Field theory) (Scattering (Physics))

SUDAKOV, V. V.

Cand Tech Sci - (diss) "Application of gamma-radiation in testing building materials and designs." Leningrad, 1961. 17 pp; (Leningrad Order of Lenin Inst of Railroad Transport Engineers imeni Academician V. N. Obraztsov); 150 copies; price not given; (KL, 5-61 sup , 193)

SUDAKOV, Vasiliy Vasil'yevich, inzh.; KOMAROVSKIY, M.F., inzh., red.; FREGER, D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Using radioactive radiation to control the density of building materials] Primenenie radioaktivnykh izluchenii dlia kontrolia plotnosti stroitel'nykh materialov. Leningrad. 1961. 22 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Stroitel'naia promyshlennost', no.5) (MIRA 14:7)
(Building materials) (Gamma rays—Industrial applications)

S/056/61/040/001/028/037
B102/B212

24.4500

AUTHORS: Patashinskiy, A. Z., Rudik, A. P., Sudakov, V. V.

TITLE: Singularities of scattering amplitudes in the perturbation theory

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40, no. 1, 1961, 298-311

TEXT: A study has been made of the position of singularities of the scattering amplitude and its asymptotic behavior in the perturbation theory. Due to conservation of the four-momentum of scattered particles, the four-momenta of the scattering and virtual particles are located in a three-dimensional space for any perturbation-theoretical graph. The three linearly independent four-vectors are chosen for basis vectors: $W = p_1+p_2$, $Q = p_1+p_3$, $P = p_1+p_4$. For $p_i^2 = M_i^2$ $(i=1,..4)$

$$2QW = M_1^2 - M_2^2 - M_3^2 + M_4^2, \quad 2WP = M_1^2 - M_2^2 + M_3^2 - M_4^2,$$
$$2QP = M_1^2 + M_2^2 - M_3^2 - M_4^2, \quad Q^2 + W^2 + P^2 = M_1^2 + M_2^2 + M_3^2 + M_4^2. \quad (1.2)$$

holds.

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Singularities of scattering...

The scattering amplitude is characterized by six parameters; for convenience they are chosen to be: M_i^2 and the invariants W^2 and Q^2. Only the singularities with real invariants are considered. There is a certain relation between W^2, Q^2 and the masses of the virtual particles at the singularity; this relation is characterized for graphs of the type shown in Fig.1 by the ratios between M_i^2 and the squares of masses of virtual particles. Fig.2 shows some singular curves of this graph. The authors then wanted to find out under what conditions anomalous singularities do occur for more complicated (than Fig.1) graphs of perturbation theory. An analysis is made for an asymptotic case, where one invariant approaches infinity. The condition that $|W^2(Q^2)| < |W^2(\infty)|$ holds as a criterion for the anomalous type of singular curves. First of all the singularities of the "open envelope" type graph (Fig.3) are studied and the asymptotic behavior of the position of its singularities is studied for one of the invariants approaching infinity. It can be shown

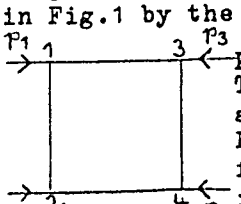

Fig.1

Singularities of scattering...

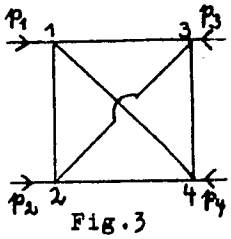

Fig.3

that the singular curve of the "open envelope" has several branches, two in the general case. The two possibilities $\varkappa < 1$ ($\varepsilon \neq 0$, $\varepsilon = 0$) and $\varkappa = 1$ are studied separately. In the following a method is developed to reduce the problem of determining the singularities of any perturbation-theoretical graph with four external lines to the problem of "open envelope" graphs with certain masses of virtual particles. Theorem 1 is formulated as: The singular curves of any p.-t. graph for the scattering amplitude coincide with the "open-envelope" graph for virtual-particle masses which are functions of invariants. In the following the two effective-mass minorants are determined. The normalized effective masses are used to determine the type of the singular curves. Here, theorem 2 is formulated: Any scattering diagram asymptotically has no anomalous singularities if the part which complicates it rests on the outer vertex of a simpler diagram (of the type shown in Fig.1, or 4, or 3), and if the asymptotically simpler diagram has no anomalous singularities either. The results are used to examine

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Singularities of scattering...

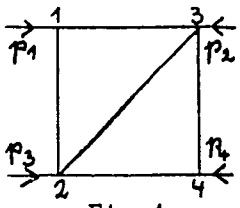

Fig.4

$\pi\pi$, KK, and NN scattering. Here, theorem 3 is formulated: In the scattering of homogeneous very light elementary particles with a given quantum characteristics (ability for a strong interaction, strangeness, baryonic charge, etc.) no anomalous singularities will occur in any approximation of perturbation theory, if the transferred momentum approaches infinity. Finally the authors thank V. N. Gribov, B. L. Ioffe, L. D. Landau, L. B. Okun', and I. Ya. Pomeranchuk for discussions. V. A. Kolkunov and V. S. Vladimirov are mentioned. There are 5 figures and 9 references: 5 Soviet-bloc and 3 non-Soviet-bloc.

SUBMITTED: July 29, 1960

Card 4/5

25204
S/056/61/040/006/025/031
B108/B209

3,1900(1538,1057)

AUTHORS: Lifshits, Ye. M., Sudakov, V. V., Khalatnikov, I. M.

TITLE: Singularities of cosmological solutions of gravitation equations. III

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40, no. 6, 1961, 1847-1855

TEXT: In earlier papers (Refs. 1,2: ZhETF, 39, 149, 1960; ZhETF, 39, 800, 1960), Ye. M. Lifshits and I. M. Khalatnikov studied the form of the cosmological solution of gravitation equations near a point with time singularity. The general solution of gravitation equations with a fictitious singularity may be represented (by a proper choice of a synchronous reference system) in a form in which the singularity is synchronous for the entire space. Such a solution must contain eight arbitrary solutions of the three spatial coordinates: 1) four "physically different" functions, necessary to establish the gravitational field at a certain initial moment, 2) one function determining the initial hyper-

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surface in the geometrical structure, 3) three functions related to the requirement that the conditions $g_{00} = -1$, $g_{0\alpha} = 0$ (1) for the metric tensor (Refs. 1,2) permit any transformation of the spatial coordinates without involving time. The arbitrary choice of the spatial coordinates may be used to bring the first terms of the expansion for the metrics near the singularity into a form in which the spatial differential length is given by the formula

$$dl^2 = g_{\alpha\beta}dx^\alpha dx^\beta = a_{ab}dx^a dx^b + (t-\varphi)^2 a_{33}dx_3^2 + 2(t-\varphi)^2 a_{a3}dx^a dx^3 \quad (5),$$

where the indices a,b assume the values 1,2; the quantities $a_{ab}, a_{3a}, a_{33}, \varphi$ are functions of all three coordinates. These statements, together with the results of Refs. 1 and 2 lead to the conclusion that the presence of a time singularity is not a necessary property of cosmological models in the general relativity theory, and that the general case of arbitrary distribution of matter and gravitational field does not lead to such a singularity. The authors thank Academician D. L. Landau and

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B108/B209

Singularities of cosmological...

L. P. Pitayevskiy for discussions. There are 3 Soviet-bloc references.

ASSOCIATION: Institut fizicheskikh problem Akademii nauk SSSR (Institute of Physical Problems of the Academy of Sciences USSR)

SUBMITTED: January 25, 1961

Card 3/3

SUDAKOV, V.V.

Using radioactive radiation to determine the moisture of materials during the automation of technological processes in the construction industry. Sbor. trud. LIIZHT no.192:77-89 '62. (MIRA 16:9)

SUDAKOV, Vasiliy Vasil'yevich; PANIVAN, P.S., red.; ALAEYSHEVA, N.A., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Pulse-acoustic and radiometric methods for testing structures] Impul'snyi akusticheskii i radiometricheskii metody ispytaniia sooruzhenii i konstruktsii. Leningrad, 1963. 29 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Stroitel'noe proizvodstvo, no.7) (MIRA 17:1)

MORSHCHIKHIN, Vasiliy Nikolayevich; SUDAKOV, V.V., red.

[Derivation of the principal mechanical characteristics of concrete under field conditions using radio engineering techniques] Poluchenie osnovnykh mekhanicheskikh kharakteristik betona radiotekhnicheskimi metodami v proizvodstvennykh usloviiakh. Leningrad, 1964. 28 p. (MIRA 17:11)

L 1838-66 EWT(d) IJP(c)
ACCESSION NR: AT5022280 UR/3138/64/000/311/0001/0031

AUTHOR: Magomedov, M. R.; Sudakov, V. V.

TITLE: Realization of a three-dimensional unitary group by "spherical functions"

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 311, 1964. Realizatsiya trekhmernoy unitarnoy gruppy sfericheskimi fundtsiyami, 1-31

TOPIC TAGS: group theory, particle interaction, wave function

ABSTRACT: A convenient parametrization of the three-dimensional U_3 group is used to represent this group in the form of "spherical functions," which is preferable for certain purposes to the abstract-operator approach. The method consists of the following steps: (1) parametrization of the set of unit vectors, (2) determination of the invariant metric, (3) derivation of the invariant Laplacian, and (4) solution of the wave equation. The supermultiplets are classified in the form of square diagrams on the plane -S, 2T). Infinitesimal group operators are introduced in the form of linear differential operators, and their matrix elements are computed for an arbitrary representation. "In conclusion, the authors thank V. B. Berestetskiy, I. Yu. Kobzarev, and L. B.

Card 1/2

L 1838-66
ACCESSION NR: AT5022280

Okun' for valuable comments." Orig. art. has: 5 figures and 35 formulas.

ASSOCIATION: [Magomedov] Fizicheskiy Institut goskomiteta po ispol'zovaniy atomnoy energii SSSR, Yerevan (Physics Institute, State Committee on the Use of Atomic Energy); [Sudakov] Institut teoreticheskoy i eksperimental'noy fiziki goskomiteta po ispol'zovaniyu atomnoy energii SSSR (Institute of Theoretical and Experimental Physics, State Committee on the Use of Atomic Energy)

SUBMITTED: 28Dec64 ENCL: 00 SUB CODE: NP, MA

NO REF SOV: 003 OTHER: 005

Card 2/2

L 2214-66 EWT(d)/T IJP(c)
ACCESSION NR: AP5019242 UR/0056/65/049/001/0279/0291

AUTHORS: Magomedov, M. R.; Sudakov, V. V.

TITLE: Realization of the three-dimensional unitary group by 'spherical functions'

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 1, 1965, 279-291

TOPIC TAGS: group theory, matrix function, mathematic operator

ABSTRACT: The authors develop the mathematical formalism of the three-dimensional unitary group U_3 on the basis of a parametrization and realization of this group by means of special spherical functions which, for certain purposes, have definite advantages over the abstract-operator approach used by others. The method of realization is first illustrated by applying it to a three dimensional rotation group. In this case the method reduces to the parametrization of a manifold of unit vectors, determination of the invariant metric,

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finding the invariant Laplacian, and solving the wave equation. The infinitesimal operators of U_3 are then determined as linear differential operators and their matrix elements are calculated in an arbitrary representation. The supermultiplets are classified in terms of rectangular diagrams in the (-S, 2T) plane. The infinitesimal operators are introduced as linear differential operators and their matrix elements are computed for an arbitrary representation. The authors thank V. B. Berestetskiy, I. Yu. Kobzarev, and L. B. Okun' for helpful discussions. Orig. art. has: 35 formulas

ASSOCIATION: None

SUBMITTED: 03Feb65 ENCL: 00 SUB CODE: MA

NR REF SOV: 003 OTHER: 005

Card 2/2 DP

KUZNETSOV, A.A.; SUDAKOV, Ye.N.

Horizontal alkylation reactor design. Khim.i tekh.topl. i masel 10 no.1:40-45 Ja '65. (MIRA 18:4)

1. Groznenskiy ordena Trudovogo Krasnogo Znameni neftyanoy institut.

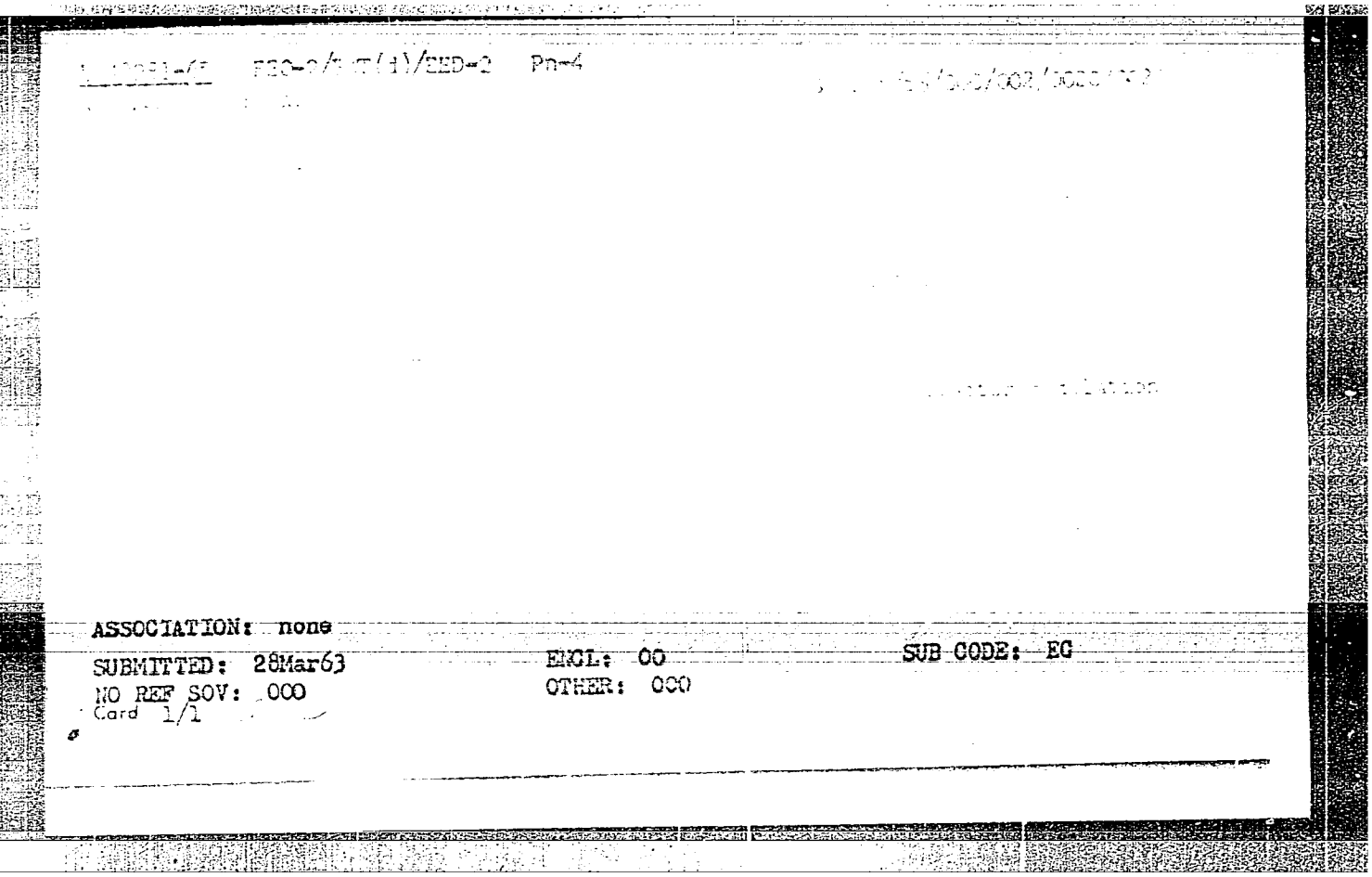
SUDAKOV, Yu.

Achievements of advanced workers. Avt. transp. 42 no.8: 8-9 Ag '64. (MIRA 17:10)

SUDAKOV, Yu., inzh.

Conveyor for the maintenance of taxicabs. Avt.transp. 43 no.5:27-29 My '65. (MIRA 18:6)

1. Tekhnicheskiy otdel Glavnogo leningradskogo upravleniya avtomobil'nogo transporta.



ASSOCIATION: none

SUBMITTED: 28Mar63 ENCL: 00 SUB CODE: EC

NO REF SOV: 000 OTHER: 000

Card 1/1

TORSKAYA, I.V. [Tors'ka, I.V.]; SUDAKOV, Yu.M.

Connections between the submaxillary ganglion and the first and second thoracic segments of the spinal cord. Fiziol. zhur. [Ukr.] 9 no.5:673-676 S-O'63 (MIRA 17:4)

1. Institut fiziologii im. Bogomol'tsa AN UkrSSR, Kiyev.

S/080/60/033/007/013/020
A003/A001

15.6600

AUTHORS: Grad, N. M., Sudakov, Yu. T.

TITLE: A Study of the Actual Corrosivity of Oils

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol. 33, No. 7, pp. 1586-1590

TEXT: The corrosion aggression of oils in relation to various metals, the effect of the acid number of oil on its corrosivity, the anticorrosion efficiency of additives in relation to various metals, and the concentration curves for anticorrosion additives were studied. The test results were expressed in milligrams of the weight loss of metal plates immersed into the oil. The deviations in the determination of the weight loss did not exceed ± 6% of the mean value. All experiments were carried out with machine oil (ν_{50} = 51 cst; acid number = 0.08 mg KOH). An industrial mixture of organic acids (C_7-C_9) obtained by the oxidation of paraffin was introduced as aggressive component into CY (SU) machine oil in the amount of 0.12%. The mixture had the following composition (in %) C_5 6.4, C_6 12.9, C_7 15.6, C_8 21.6, C_9 15.4, C_{10} 12.0, > C_{10} 14.8. After addition of the acids the acid number of the oil was 0.5 mg KOH. It was shown that lead had the highest sensitivity with regard

VARTAPETOV, B.A.; KUZ'MENKO, Ye.S.; SUDAKOVA, A.D.

Method of graphic registration of motions of the cornu uteri in a continuous experiment (pons between skin and uterus). Fiziol.zhur. 39 no.6:738-740 N-D '53. (MLRA 6:12)

1. Ukrainskiy institut eksperimental'noy endokrinologii, Khar'kov. (Uterus)

SUDAKOVA, A. D.

"Effect of a Difference in Frequency and the Intensity of Induced Electrical Irritations of the Optic Nerve on Certain Hormone Forming Functions of the Hypophysis." Cand Med Sci, Khar'kov Inst(sic), Khar'kov, 1954. (RZhBiol, No 8, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556 24 June 55

VARTAPETOV, B.A., kandidat meditsinskikh nauk; KALMYKOVA, K.M., kandidat biologicheskikh nauk; SUDAKOVA, A.D., kandidat meditsinskikh nauk; (Khar'kov)

Conditioned reflex salivary and vasomotor reactions under normal conditions and following castration. Probl. endokr. i gorm. 1 no.2:85-89 Mr-Ap '55. (MLRA 8:10)

1. Iz otdela fiziologii (zav.-kandidat meditsinskikh nauk B.A. Vartapetov) Ukrainskogo instituta eksperimental'noy endokrinologii (dir.-kandidat meditsinskikh nauk S.V.Maksimov)

(REFLEX, CONDITIONED,
salivary & vasomotor, in normal cond. & after castration)
(CASTRATION, experimental,
eff. on salivary & vasomotor conditioned reactions)

SUDAKOVA, A.D.

Effect of sodium bromide on conditioned reflex salivation and vasomotor reactions in dogs with experimental neuroses and hypertension. Trudy Ukr. nauch.-issl. inst. eksper. endok. 19:214-228 '64. (MIRA 18:7)

1. Iz otdela fiziologii Ukrainskogo instituta eksperimental'noy endokrinologii.

SUDAKOVA, A.D.

Effect of various intensity and frequency of stimulating the optic current on the follicle stimulating function of the hypophysis in rabbits. Trudy Ukr. nauch.-issl. inst. eksper. endok. 19:379-385 '64. (MIRA 18:7)

SUTAKOVA, A. I.

"The effect of thyroidin on the process of salivation and the role of the cerebral cortex in this phenomenon." Min Higher Education USSR. Central Asia State U imeni V. I. Lenin. Tashkent, 1956. (Dissertation for the Degree of Candidate in Biological Science).

SO: Khronika letopis', No. 16, 1956

SUDAKOVA, T. I.

COUNTRY : USSR
CATEGORY : Farm Animals.
Small Horned Cattle.

ABS. JOUR. : RZhBiol., No. 3, 1959, No. 12038

AUTHOR : [illegible]
INST. : [illegible]
TITLE : Correlation Between [illegible] Skin Structure in Fine-Fleeced Sheep of the Stavropol'skaya Breed.

ORIG. PUB. : Byul nauchno-tekhn. inform. Vses. n.-i. in-t zhivotnovodstva, 1957, (vyp.) aspirantskiy,

ABSTRACT : The skin thickness of Stavropol'skaya sheep [illegible] between 2,170-3,000 mu. In sheep whose wool length amounts to 11-12 cm, skin thickness is 19.9 percent, the depth at which hair follicles are established 19.4 percent, the reticular layer thickness 21.6 percent higher than in animals whose wool length amounts to 7.5 cm. The skin complexes of sheep with fine wool are tightly connected, adjoin closely to each other, their [illegible] intra-complex tissue is feebly marked,

Card: 1/2

CHELYADINOVA, A. T., SUDAKOVA, A. V.

Tree Basil

Interrelations of tree basil and its microflora. Agrobiologiia, No. 4, 1952.

Monthly List of Russian Accessions. Library of Congress, November 1952. Unclassified.

SUDAKOVA, A.V.

Dependence of development and functional maturity of the newborn infant on the condition of the mother's organism in late toxemias of pregnancy. Pediatriia no.3:29-33 My-Je '54. (MLRA 8:1)

1. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta okhrany materinstva i mladenchestva (direktor R.A.Malysheva, nauchnyy rukovoditel' - professor I.I.Yakovlev)
(INFANTS (NEWBORN)) (PREGNANCY, COMPLICATIONS OF)

SUDAKOVA, A.V.

Clinical aspects and treatment of newborn infants from mothers with late toxemias of pregnancy. Pediatriia 39 no.3:22-27 Mr '61. (MIRA 14:4)

1. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta okhrany materinstva i mladenchestva (dir. - kand.med.nauk R.A. Malysheva, nauchnyy rukovoditel' - kand.med.nauk R.Ye. Leyenson).
(PREGNANCY, COMPLICATIONS OF) (INFANTS (NEWBORN))

ACCESSION NR: AP5021807

UR/0286/65/000/008/0015/0017
621.438.001.24

AUTHOR: Sudarev, A. V. (Engineer)

TITLE: Calculation of the wall temperature of flame tubes in a gas-turbine combustion chamber

SOURCE: Promyshlennaya ob"stvennaya, no. 8, 1965, 15-17

TOPIC TAGS: gas turbine, combustion chamber, heat transfer coefficient, turbulent flow

ABSTRACT: A method for calculating the wall temperature of combustion chamber walls in this

table. 18 formulas.

Card 1/2

ACCESSION NR: AP5021807

ASSOCIATION: none

SUBMITTED: DC ENCL: 00 SUB CODE: ME, TD

NO REF SOV: 003 OTHER: 007

Card 2/2

SAIDAKOVA, F. S.

USSR/Virology. Viruses of Man and Animals E

Abs. Jour : Ref Zhur-Biol., No 15, 1958. 57379

Author : Strigin V. A., Sychkova V. M., Yefimova A. S., Colovina A. P., Zaynutdinova L. Kh., Lagno M. M., Lashol Z. I., Prutkovskaya N. T., Saidakova F. S.

Inst : Ufa Scientific-Research Institute of Vaccines and Sera/

Title : Experimental Study of the Epidemiological Effectivenss of Antiinfluenza Vaccination

Orig Pub : Tr. Ufimsk. n.-i. in-ta vaktsin i syvorotok, 1957, vyp. 4, 205-209

Abstract : Five thousand nine hundred twenty-three persons were vaccinated with dry live vaccine ("SK") of the Moscow Scientific-Research Institute of Vaccines and Sera imeni Mechnikov (4555 in the non-vaccinated group). The vaccine lowered disease

Card 1/2

Abstract : incidence by no less than 2.5 times. The reactogenesis was inconsiderable. One series of vaccines was found to be ineffective.

Card 2/2

USSR/General and Special Zoology - Insects. P.

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30621

(the narrow-bodied brown-tailed moth and the imperfect fungi) and of the narrow-leaf oleaster (the leaf flea and the fungus infection).

Card 2/2

SUDAKOVA, I. M.: Master Biol Sci (diss) -- "Nematodes of meadows, certain fruit crops, and their accompanying weeds in the All-Union Gribov Fruit Selection Experiment Station", Tashkent, 1958, published by SAGU. 12 pp, 160 copies (KL, No 4, 1959, 124)

SUDAKOVA, I.M.

Plant nematodes in the Chuvash A.S.S.R. [with summary in English].
Zool. zhur. 37 no.1:134-139 Ja '58. (MIRA 11:2)

1. Gel'mintologicheskaya laboratoriya AN SSSR, Moskva.
(Cheboksary District--Nematoda) (Plant diseases)

SUDAKOVA, I.M.

Weeds of reservoirs of plant nematodes. Trudy Gel'm. lab. 9:322-325 '59. (MIRA 13:3)
(Weeds) (Nematoda)

SUDAKOVA, I.M. (Tashkent); MASLENNIKOVA, V.F. (Tashkent);
DERGUNOV, I.D. (Tashkent)

Effect of nitrogen fertilizers on the accumulation and injuriousness of Aphelenchoides besseyi Christie, 1942, the causative agent of the "white apex" of rice. Zool. zhur. 43 no.11:1708-1710 '64. (MIRA 18:11)

SULAKOVA, I.M.; YEZERKHA, A.A.; PETROVSKAYA, E.S.

Using a photoelectrocolorimeter (FEK-1) in counting nematodes. Dokl. AN Uz. SSR 21 no. 11:65-66 '64. (MIRA 18:12)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut fitopatologii. Submitted Febr. 8, 1963.

SUDAKOVA, I.M.; MIKULINA, R.V.

Laboratory reproduction of nematodes associated with fungi, typical representatives of the cotton nematode fauna. Trudy Gel'm. lab. 16:125-127 '65. (MIRA 19:2)

SUDAKOVA, I.M.; STOYAKOV, A.V.; MIKULINA, R.V.

Methods of studying nematodes of the roots and the rhizosphere soil of cotton in the Uzbek S.S.R. Trudy Gel'm. lab. 16:128-130 '65. (MIRA 19:2)

SUDAKOVA, I.M.; PETROVSKAYA, E.S.; CHERNYAK, E.K.

Reproduction of nematodes representing the cotton nematode fauna in laboratories and the study of possible reproduction of nematodes of various taxonomic groups on fungi and plant seedlings. Trudy Gel'm. lab. 16:131-136 '65. (MIRA 19:2)

SUDAKOVA, I.M.

Reproduction of nematodes representing the cotton nematode fauna in laboratories. Abundance of nematodes reproduced on various fungi. Trudy Gel'm. lab. 16:137-139 '65.
(MIRA 19:2)

SUDAKOVA, I.M.; OLEYNIKOVA, T.K.

Resistance of some varieties of rice to the "white tip".
Trudy Gel'm. lab. 16:140-142 '65. (MIRA 19:2)

SUDAKOVA, L.V.; KRONGAUZ, Ye.A.; GANDMAN, M.G.; BELOVA, V.K.

Study of the effect of various contaminants on the growth of Bac. megaterium, var. ghosphaticum. Prikl. biokhim. i mikrobiol. 1 no. 6:717-721 N-D '65. (MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennoy mikrobiologii, Moskovskoye otdeleniye. Submitted May 20, 1965.

GUBAREV, M.; [illegible], V.; [illegible], Zh.; SHTEYNBERG, M.

Stabilizer for the discharge of liquid. Zashch. rast. ot vred. i bol. 10 no.12:35 '65. (MIRA 19:1)

1. Gosudarstvennoye spetsial'noye konstruktorskoye byuro po mashinam dlya khimicheskoy zashchity rasteniy.

SYL'VANOVICH, V. (Varshava); [illegible], A.I. (translator)

Organization of the work of microbiological laboratories in the Polish Democratic Republic for 10 years. Arkh.anat.gist. i embr. 34 no.2: 126-128 Mr-Ap '57. (MLRA 10:10)
(POLAND--MORPHOLOGY)

KIRSHE, V. [Kirsche, W.]; SUDAKOVA, L.I. [translator]

Internauronal connections in the autonomic ganglia. Arkh.anat.gist. i embr. 34 no.5:88-91 S-O '57. (MIRA 11:1)

1. Iz Anatomicheskogo instituta Universiteta im. A.Gumbol'da, Berlin. Adres avtora: Anatomicheskiy institut Universiteta im. A.Gumol'dta, Berlin, 4, Filippshtrasse, 13.
(GANGLIA, AUTONOMIC, anat. and histol.
interneuronal connections)
(NEURONS, anat. and histol.
interneuronal connections in autonomic ganglia)

BOUCHET, Nadia du, doktor (Parizh); SUDAKOVA, L.I. [translator]

Anesthesia in cardiac surgery; basic principles. Translated from the French by L.I.Sudakova. [with summary in English, p.157]. Vest.khir. 78 no.5:3-12 My '57. (MIRA 10:7)
(HEART, surg.
anesth., review)

LAN KHSI-CHUN [Lan Hsi-ch'ung]; YAO CHUAN-VEN [Yao Ch'uang-wen]; CHIEN CHAO-EU [Ch'ien Ch'ao-yu]; SUDAKOVA, L.I. [translator]

Surgical treatment of portal hypertension [with summary in English p.158] Vest.khir. 79 no.7:18-28 Jl '57. (MIRA 10:10)

1. Iz khirurgicheskogo otdeleniya Khung-Ienskogo gospitalya i Vtorogo Shankhayskogo meditsinskogo kolledzha.
(HYPERTENSION, PORTAL, surgery,
(Rus))

d'ALLAINES, F., prof., RICORDEAU, G., d'ALLAINES, Cl., assistent, SUDAKOVA, L.I. [translator].

Intraauricular thrombi encountered in surgery for mitral stenosis [with summary in English]. Vest.khir. 81 no.7:3-8 Jl '58 (MIRA 11:8)

1. Hopital Broussais, klinika serdechno-sosudistoy khirurgii, 96, rue Didot, Paris XIV, France (for d'Allaines, F.). 2. Hopitaux de Paris (for d'Allaines, Cl.)

(MITRAL STENOSIS, surg.
perop. & postop. intraauric. thromboembolism (Rus))
(THROMBOEMBOLISM,
intraauric., perop. & postop. in mitral stenosis surg. (Rus))
(COMMISSUROTOMY, complications,
perop. intra-auric. thrombosis (Rus))
(HEART, DISEASES,
intra-auric, thbombosis in commissurotomy (Rus))
(THROMBOSIS,
intra-auric. in commissurotomy (Rus))

MIKHAYLOV, S.S., dotsent; SUDAKOVA, L.I. (Leningrad)

"Surgery of the extrahepatic biliary ducts" [in Roumanian] by I.Turai, D.Gerota. Reviewed by S.S.Mikhailov, L.I.Sudakova. Vest.khir. 83 no.7:155-157 Jl '59. (MIRA 12:11)
(BILIARY TRACT--SURGERY) (TURAI, I.) (GEROTA, D.)

IZRAIL'SKIY, V.P., prof., doktor biolog.nauk; SHUSTOVA, L.N., kand.med. nauk; GOHLENKO, M.V., doktor biolog.nauk; MURAV'YEV, V.P.; BEREZOVA, Ye.F., doktor biolog.nauk; SUDAKOVA, L.V., mikrobiolog; GRUSHEVOY, S.Ye., doktor sel'skokhoz.nauk; NEMLIYENKO, F.Ye., doktor biolog.nauk; BEL'TYUKOVA, K.I., doktor biolog.nauk; STARYGINA, L.P., kand.biolog.nauk; PERSHINA, Z.G., kand.biolog.nauk; ART'YEM'YEVA, Z.S., mikrobiolog; NOVIKOVA, N.S., kand.biolog.nauk; OSNITSKAYA, Ye.A., fitopatolog; YASHNOVA, N.V., fitopatolog-mikrobiolog; MIKZABEK'YAN, R.O., kand.biolog.nauk; TETYUREVA, I.V., red.; PEVZNER, V.I., tekhn.red.

[Bacterial diseases of plants] Bakterial'nye bolezni rastenii. Izd.2., perer. i dop. Moskva, Gos.izd-vo selkhoz.lit-ry, 1960. 467 p. (MIRA 13:7)

1. Chlen-korrespondent Ukrainskoy AN (for Murav'yev).
(Bacteria, Phytopathogenic) (Plant diseases)

BEREZOVA, Ye.F., prof., doktor biologicheskikh nauk; SOROKINA, T.A., kand.biologicheskikh nauk; NOVOGRUDSKAYA, Ye.D.; SUDAKOVA, L.V.

Microbiological processes in manure-soil composts. Zemledelie 24 no.4:63-66 Ap '62. (MIRA 15:4)

1. Moskovskoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo instituta sel'skokhozyaystvennoy mikrobiologii.
(Compost)

BEREZOVA, Ye.F.; SOROKINA, T.A.; SUDAKOVA, L.V.; NOVOSELSKAYA, Ye.D.

Microbiological processes during the aging of manure-soil composts.
Agrobiologiia no.4:581-584 Jl-Ag '63. (MIRA 16:9)

1. Moskovskoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo instituta sel'skokhozyaystvennoy mikrobiologii.
(Compost--Microbiology)

SUDAKOVA, N.G.

Diagenesis conditions and the properties of loessial rocks in the Kugart Valley. Vest. Mosk. un. Ser. 5:Geog. 18 no.5: 65-68 S-O '63. (MIRA 16:11)

1. Kafedra obshchego zemlevedeniya Moskovskogo universiteta.

SUDAKOVA, N.G.

Use of mineralogical analyses in subdividing Quaternary deposits. Vest.Mosk.un.Ser.5: Geog. 20 no.4:66-68 Jl-Ag '65. (MIRA 18:12)

ITSKOVICH, Georgiy Mikhaylovich; VINOKUROV, Anatoliy Ivanovich. Prinimali uchastiye: SUDAKOVA, N.I.; GAVRILOV, Yu.V.; MAKUSHIN, V.M., laureat Leninskoy premii, prof., retsenzent; LYZHENKOV, A.A., inzh., retsenzent; SAPOZHKOV, N.M., nauchnyy red.; SHAURAK, Ye.N., red.; KOKOVENKO, Yu.N., tekhn. red.

[Collected problems on the strength of materials] Sbornik zadach po soprotivleniiu materialov. Leningrad, Sudpromgiz, 283 p. (MIRA 15:6)

(Strength of materials--Problems, exercises, etc.)

S/137/60/000/009/028/029
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 9, p. 269, # 21700

AUTHORS: Kopp, L.P., Shigidina, L.M., Sudakova, O.D.

TITLE: On the Problem of Causes of Reduced Ductility of X23H18 (Kh23N18) Steel at Elevated Temperatures and the Possibility of Improving Same by Rare-Earth Elements

PERIODICAL: V sb.: Redkozemel'n. elementy v stalyakh i splavakh, Moscow, Metallurgizdat, 1959, pp. 211-230

TEXT: A study was made of the dependence between the macrostructure of a Kh23N18 steel ingot and the ductility of the steel at 900-1,200°C, and of the effect of rare-earth elements on the macrostructure of the ingot, the purity in respect to S and O_2, and the ductility of the steel. Ductility was evaluated from the number of revolutions until the breakdown of a square section specimens of 10 x 10 mm, twisted at high temperatures. It was stated that the introduction

Card 1/2

SUDAKOVA, E. M.

Conveying Machinery

Introducing an eight-section conveyor. Leg. prom., 12, No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952 ~~XXXX~~ 1953, Uncl.

SUDAKOVA, S.A., kand. med. nauk (Moskva)

Activity of serum transaminase in rheumatic carditis during treatment with vitamin B_6. Kaz. med. zhur. no.5:84 S-O'63 (MIRA 16:12)

SUDAKOVA, S. A.

PA 31/49T31

USSR/Medicine - Liver Nov 48
Medicine - Drug, Effects

"Effect of Thiamine on the Antitoxic Function of the Liver," N. A. Ratner, S. A. Sudakova, Propaedeutic Therapeutics Clinic, First Moscow Ord of Lenin Med Inst, 10 pp

"Klin Med" Vol XXVI, No 11

Thiamine increases synthesis of hippuric acid when administered after injection of sodium benzoate, which is a manifestation of the favorable action of thiamine on antitoxic function of liver. Discusses various factors affecting this action.

31/49T31

SUDAKOVA, S. A.

24362 SUDAKOVA, S. A. Znacheniye riboflavina pri ostrykh porazheniyakh pecheni. Vrach. Delo, 1946, No. 8, STB. 695-700.

SO: Letopis, No. 30, 1949.

SUDAKOVA, S.A.

manometric examination in such cases. *M. Beaton*

1564. **Aneurin and Riboflavin Deficiency in Acute and Chronic Liver Affections.** (К вопросу о недостаточности тиамина и рибофлавина при острых и хронических поражениях печени)
S. A. Sudakova. Клиническая Медицина [*Klin. Med., Mosk.*] **28**, No. 3, 77–80, March, 1950. 4 refs.

The author studied the excretion of aneurin (thiamine) and riboflavin before and after intramuscular injection of a standard dose of 10 mg. aneurin and 5 mg. riboflavin, in patients with parenchymatous liver damage. The urinary excretion was measured in the 24 hours before dosage and during each of the following 2 complete days. Of 28 patients with acute infective hepatitis, 21 excreted less than 10% of the dose of aneurin, and only one over 20%; 17 excreted less than 50% of the riboflavin and 7 from 50% to 100% of the dose.

In 14 cases of acute hepatitis in which the tests were repeated over long intervals, it was found that the progress of vitamin excretion followed roughly the course of the disease as regards recovery or deterioration of liver function as measured by the Quick test; the parallelism was much closer in the case of riboflavin than in the case of aneurin.

The assimilation of riboflavin was diminished by a low-protein diet (most of those with acute conditions were on a mainly carbohydrate diet). The excretion of each vitamin is greater after combined dosage than after a dose of the particular vitamin alone.

1564 Cont.

In cirrhosis of the liver a considerable defect in excretion of both vitamins was observed, but after treatment [details unspecified] excretion of both considerably increased. [The diet in treatment appears to have included large amounts of protein and aneurin, riboflavin, and vitamin C; but the amino-acid content is not given.]

L. Firman-Edwards

Abstracts of World Medicine
Vol 8 1950

MOCHALOVA, A. V., kandidat meditsinskikh nauk; SUDAKOVA, S. A., kandidat meditsinskikh nauk.

Therapeutic use of a new Russian preparation digipuren. Sov. med. 20 no.4:54-57 Ap '56. (MLRA 9:8)

1. Iz 3-y terapevticheskoy kafedry (zaveduyushchiy zasluzhennyy deyatel' nauki professor I. A. Kassirskiy) Tsentral'nogo instituta i usovershenstvovaniya vrachey i Vsesoyuznogo nauchno-issledovatel'skogo instituta lekarstvennykh i aromaticheskikh rasteniy (zaveduyushchiy otdelom farmakologii --professor A. D. Turova).
(DIGITALIS, therapeutic use,
total extract digipuren (Rus))

IVANOVA-NEZNAMOVA, Yu.A., dotsent; SUDAKOVA, S.A.

Himalin, a new Russian preparation in the clinical treatment of internal diseases. Sov.med.21 no.3:89-90 Mr '57. (MLRA 10:7)

1. Iz fakul'tetskoy terapevticheskoy kliniki sanitarno-gigiyenicheskogo fakul'teta (zav. kafedroy - prof. A.G.Gukasyan) I Moskovskogo ordena Lenina meditsinskogo instituta i Vsesoyuznogo nauchno-issledovatel'skogo instituta lekarstvennykh i aromaticheskikh rasteniy (dir. N.Ya.Itskov).

(PARASYMPATHOLYTICS, ther. use
himalin)

SUDAKOVA, S.A., kandidat meditsinskikh nauk

Effect of oxygen on the antitoxic function of the liver in chronic cardiovascular insufficiency. Sov.med. 21 no.3:99-102 Mr '57. (MIRA 10:7)

1. Iz propedevticheskoy terapevticheskoy kliniki (zav. kafedroy - chlen-korrespondent Akademii meditsinskikh nauk SSSR prof. V.Kh. Vasilenko) I Moskovskogo ordena Lenina meditsinskogo instituta.

(LIVER, in various dis.
cardiovasc. dis., eff. of poor circ. on antitoxic funct. of liver)
(CARDIOVASCULAR DISEASES, compl.
poor blood circ. causing disord. in antitoxic funct. of liver)

SUDAKOVA, S.A., kand.med.nauk (Moskva)

Effect of riboflavin on the antitoxic function of the liver. Klin. med. no.2:71-75 F '58. (MIRA 11:4)

1. Iz propedevticheskoy terapevticheskoy kliniki (zav. kafedroy - chlen-korrespondent AMN SSSR prof. V.Kh.Vasilenko) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

(VITAMIN B2, eff.
an antitoxic funct. of liver (Rus))
(LIVER, eff. of drugs on
vitamin B2, eff. on antitoxic funct. (Rus))

SHIROKOVA, K.I.; SUDAKOVA, S.A. (Moskva)

Effect of riboflavin on the secretory function of the stomach. Klin.med. 37 no.6:130-133 Je '59. (MIRA 12:8)

1. Iz propedevticheskoy terapevticheskoy kliniki (dir. - deystvitel'nyy chlen AMN SSSR prof.V.Kh.Vasilenko) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

(STOMACH, eff. of drugs on vitamin B2, on secretion (Rus))
(VITAMIN B2, eff. on stomach secretion (Rus))

SUDAKOVA, S.A., kand.med.nauk; SOSHKINA, N.O. (Moskva)

Liver function in the active phase of rheumatic fever. Vrach.delo no.11:32-35 N '60. (MIRA 13:11)

1. Klinicheskoye otdeleniye (zav. - S.M.Bremener) Instituta vitaminologii Ministerstva zdravookhraneniya SSSR i I kafedra terapii (zav. - deystvitel'nyy chlen AMN SSSR, prof. M.S.Vovsi [decease]) TSentral'nogo instituta usovershenstvovaniya vrachey.
(RHEUMATIC FEVER)
(LIVER)

RYVKIN, I.A.; SUDAKOVA, S.A.

Activity of glutamic-oxalic transaminase in patients with active rheumatic fever. Terap.arkh. 32 no.9:66-70 '60.

(MIRA 14:1)

1. Iz 1-y kafedry terapii (zav. - deystvitel'nyy chlen AMN SSSR prof. M.S. Vovsi [deceased]) TSentral'nogo instituta usovershenstvovaniya vrachey i klinicheskogo otdeleniya (zav. - kand.med.nauk S.M. Bremener) Instituta vitaminologii.

(RHEUMATIC FEVER) (TRANSAMINASE)

SUDAKOVA, S.A., kand.med.nauk

Changes in sedimentation test indices during pyridoxine therapy for chronic hepatitis following Botkin's disease. Terap.arkh. 32 no.11:35-39 N '60. (MIRA 14:1)

1. Iz klinicheskogo otdela (nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR prof. M.S. Vovsi [deceased]) Instituta vitaminologii.
(PYRIDOXINE) (HEPATITIS, INFECTIOUS) (BLOOD—SEDIMENTATION)

SUDAKOVA, S.A.; ODINA, K.M.

Effect of pyridoxine on the clinical and morphological picture of experimental hepatitis. Vop. pit. 23 no.1:36-43 Ja-F '64. (MIRA 17:8)

1. Iz klinicheskogo otdela (zav. - doktor med. nauk M.I. Shevlyagina) Nauchno-issledovatel'skogo instituta vitaminologii i patologo-anatomicheskogo otdeleniya (zav. L.L. Kapuller) 52-y gorodskoy klinicheskoy bol'nitsy, Moskva.

BAGRATUNI, Gegam Vagramovich; SUDAKOVA, S.G., red.; KOMAR'KOVA, L.M., red.izd-va; BOTVINKO, M.V., tekhn.red.

[Feodosii Nikolaevich Krasovskii; a sketch of his life and scientific work] Feodosii Nikolaevich Krasovskii; ocherk zhizni i nauchno-proizvodstvennoi deiatel'nosti. Pod red. S.G.Sudakova. Moskva, Izd-vo geodez.lit-ry, 1959. 121 p. (MIRA 13:3)

(Krasovskii, Feodosii Nikolaevich, 1878-1948)

SUBMARY

3(4) PHASE I BOOK EXPLOITATION SOV/2065

Moscow. Institut inzhenerov geodezii, aerofotos"yemki i kartografii

Trudy, vyp. 32 (Transactions of the Moscow Institute of Geodetic Aerial Survey and Cartographic Engineers, Nr 32) Moscow, Geodezizdat, 1958. 130 p. 1,000 copies printed.

Ed. of Publishing House: T. A. Shamarova; Tech. Ed.: V. V. Romanova; Editorial Board: A. I. Mazmishvili (Resp. Ed.), V. I. Avgevich (Deputy Resp. Ed.), G. V. Bagratuni, N. Ya. Bobir, M. M. Bokiov, A. I. Durnev, S. V. Yeliseyev, P. S. Zakatov, G. P. Lorchuk, M. I. Modrinskiy, M. D. Solov'yev, B. V. Fefilov, and F. F. Shokin.

PURPOSE: This collection of articles is intended for geodesists, photogrammetrists, and cartographers.

COVERAGE: This issue of the Institute's Transactions is composed of articles on geodetic surveying, photogrammetry, cartography, and geodesy. Surveying and geodesy are discussed in articles on building line extensions, earthwork computations, precise trigonometric leveling, latitude determination, solution of trigonometric equations, and the geodetic interference comparator. Articles on photogrammetry include the subheadings photo rectification, spatial triangulation, and photo interpretation. Articles in the fields of geography and cartography include: 1) hunters' maps of Czechoslovakia, 2) maps of the Trans-Oka Region of Moscow oblast', and 3) the distribution of lakes in the East European plains and the Kola-Karelian Massif. References accompany individual articles.

TABLE OF CONTENTS:

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SUDAKOVA, S.S., assistent

Compilation and contents of a complex medium-scale landscape map of the trans-Oka districts of Moscow Province. Trudy MIIGAIK no.32:89-97 '58. (MIRA 12:7)

1. Kafedra fizicheskoy geografii Moskovskogo instituta inzhenerov geodezii, aerofotos"yemki i kartografii.
(Moscow Province--Maps, Physical)

SUDAKOVA, S. S.

TITLE: Scientific-technical Conference of the MIIGA i K in 1959 (Nauchno-tekhnicheskaya konferentsiya MIIGA i K 1959 g.)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka, 1959, Nr 3, pp 144 - 146 (USSR)

ABSTRACT: The periodic scientific-technical conference of the Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii (Moscow Institute of Geodetic, Aerial Survey and Cartographic Engineers) was held on April 22-24, 1959, with the participation of 500 persons. 31 lectures were delivered. The introductory speech was held by Professor A. A. Izotov. Candidate of Philosophical Sciences A. I. Ivanov lectured on "The Outstanding Work of Materialistic Philosophy"; Candidate of Technical Sciences A. V. Kondrashkov on "Radioelectronics and Geodesy"; Candidate of Technical Sciences G. V. Bagratuni on "Accuracy of the Solution of the Inverse Position Computation With Coordinates of Different Geodetic Systems"; Candidate of Technical Sciences P. F. Shokin reported on "Gravimetry in Today's Stage of Development"; Candidate of Technical Sciences

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V. D. Bol'shakov on "Investigation of the Rules Governing the Distribution of Errors When Generalizing the Relief in Photography"; Post-graduate Student Yu. V. Mokhov on "The Influence of the Rounding Error on the Accuracy of Solutions of Linear Equation Systems". Post-graduate Student N. D. Drozdov reported "On the Solution of Linear Systems in the Compensation of Geodetic Nets". Docent V. M. Korolevtsev dealt with "The Experience in the Application of Parallactic Polygonometry With Short Basis and Constant Vertical Basis". Doctor of Physical and Mathematical Sciences A. M. Faynzil'berg lectured on "Some Integrals From the Theory of Surfaces and Their Application to the Mechanics of Artificial Earth Satellites"; Candidate of Technical Sciences A. S. Valuyev on "The Stereocomparator With Correctors". Assistant M. I. Burov spoke on "Photogrammetric Method of Determining the Altitudes of Luminous Clouds". Candidate of Technical Sciences N. N. Veselovskiy reported on "The Generalization of the Formulas for the Plane Aerial Survey and the Altitudinal Aerial Survey". Candidate of Technical Sciences R. N. Rodionov and Candidate of Technical Sciences N. P. Zakaznov dealt with "Central Shutters of Band Type Aerial Cameras". Can-

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didate of Technical Sciences B. N. Rodionov spoke on the "Stroboscopic Collimator Visor"; Engineer V. L. Zershov reported on a "Computing Gear for the Automatic Entry of the Airplane in the Aerial Photography Path". Post-graduate Student Yu. S. Kuznetsov spoke on the "Application of the Instantaneous Photography for Aerial Camera Testing". Assistant Ye. F. Arkhanov spoke on the "Computation of the Aerial Camera Constants"; Engineer V. I. Grushin, Chief Technician of the Geotekhkontora Gosplana RSFSR on "Some Results and Tasks Related to Large-scale Phototheodolite Surveying Operations"; Doctor of Technical Sciences V. I. Sukhov on "The Problem Concerning the Contents of the New Map on the Scale of 1 : 2500000"; Doctor of Technical Sciences A. I. Preobrazhenskiy on "Mineral Deposits in the USSR and Their Reproduction on Economic Maps"; Assistant S. S. Sudakova on the "Method of Geographic Investigation on the Field During the Preparatory Editorial Work on the Cartographing Object (From the Working Experience Acquired by the Meshcherskaya ekspeditsiya (Meshcherskaya Expedition of the MIIGA i K 1958)".

Assistant A. S. Tolstoukhov dealt with "The Problem of Improving the Relief Representation of a Flat Inhabited Territory on the Topographic Map on the Scale of 1 : 10000". Candidate of Technical Sciences Yu. S. Bilich spoke on "Maps of Cultivated Areas in the Comprehensive Atlantes of the Oblast'". Candidate of Technical Sciences I. I. Men'shikov dealt with "A. S. Popov - Scientist, Inventor, Pedagogist (On the 100th Birthday of A. S. Popov)". Senior Lecturer N. V. Yakovlev lectured on "Mirror Lens Objectives With Great Luminous Intensity". Professor I. G. Sarkin reported on "The Problem of Compensating the Variations and the Increase of Accuracy in the Measurement of Physical Quantities". Candidate of Technical Sciences V. A. Afanas'yev dealt with "Methods of Measuring Investigations Concerning Optical Main Characteristics of Aerial Camera Objectives With Dropping Atmospheric Pressure and Temperature". Engineer V. M. Nazarov lectured on "Vertical Axis Systems of High-precision Optical Theodolites". Assistant V. S. Usov spoke on "Sighting by the Aid of Telescopes With Zone Plates". Post-graduate Student P. P. Zakharov dealt with "The Automation of Measurements on a Pair of Stereoscopic Pictures". At the Plenary Session held on April 24 the Chief of the Glavnoye upravleniye geodezii i kartografii mvd SSSR (Chief Administration of Geodesy and Cartography of the Ministry of Internal Affairs of the USSR), A. N. Baranov lectured on "The Seven-year Pl... the Development of Topographic-geodetic and Cartographic Work".

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3(2),3(4) SOV/6-59-6-21/22
AUTHOR: None Given
TITLE: Chronicle (Khronika)
PERIODICAL: Geodeziya i kartografiya, 1959, Nr 6, pp 74-75 (USSR)
ABSTRACT: At the Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii (Moscow Institute of Geodetic, Aerial Survey and Cartographic Engineers), the Ordinary Scientific Conference took place on April 22-24. A. I. Tramov, Docent, Candidate of Philosophic Sciences, spoke on "The Outstanding Work of Materialistic Philosophy". A. M. Baranov, Chief of the Glavnoye upravleniye geodezii i kartografii (Main Administration of Geodesy and Cartography) spoke "On the Seven-year Plan for the Development of Topographic-Geodetic and Cartographic Work". The following reports were delivered in the geodetic section: A. M. Feynullin, Professor, Some Integrals of the Surface Theorems and Their Application to the Mechanics of Artificial Satellites of the Earth".- A. V. Kondrashkiy, Docent, "Radio-electronics and Geodesy".- G. V. Bagratuni, Docent, "Accuracy in the Solution of Inverse Positive Computations by the Coordinates of Different Geodetic Systems".- P. F. Shokin, Docent, "Gravimetry in the Present Stage of Development".- Ye. F. Nekhay, Assistant, reported on the influence of rounding errors on the accuracy of solution of linear equation system.- V. D. Solinskoy, Candidate of Technical Sciences, spoke on the "Investigation of the Rules of Distribution of Errors in Generalizing the Relief in Surveys".- M. D. Denisov, Post-graduate Student, reported on the solution of linear systems for the adjustment of geodetic networks. V. M. Kontsevoy, Docent, demonstrated an apparatus designed by him for parallactic traversing with a short constant vertical basis.- The following reports were delivered in the aerophotogeodetic section: A. A. Fal'kov, Docent, reported on a parallactic reducer; an additional device to the stereo-comparator.- K. F. Vasil'yeva, Docent, spoke on the possibility of generalizing the formulas for the air survey of outlines and altitudes.- B. M. Rodionov and K. P. Zakarov, Docents, reported on a band-shaped central shutter for aerial cameras. P. M. Rodionov on a stroboscopic collimator sight; B. M. Rodionov and Engineer V. I. Yerkhov on the scheme of a computing device for the automatic entry of the airplane into the route for air surveys.- Ye. P. Arkhangel'skiy presented some simplifications for the computation of constants of aerial cameras.- Yu. K. Kuznetsov, Post-graduate Student, spoke on the use of rapid film recording for the investigation of aerial-camera shutters.- V. I. Grishin, Engineer of the Gosgeokhontora Gosplana RSFSR, spoke "On Some Results and Tasks in the Execution of Large-scale Photo-theodolite Surveys".- The following reports were delivered in the cartographic section: Professor Ya. I. Bukhov spoke on the content of the new map on a scale of 1 : 2,500,000.- Professor A. I. Prochrashenskiy spoke on "Mineral Resources of the USSR and Their Representation on Economic Maps".- B. A. Shakura, Assistant, reported on the method of geographic field research during the preparatory editorial work at the object of cartography.- S. Ya. Tolstukhin, Assistant, reported on the improvement of relief representation of wooded flat country on the topographic map on a scale of 1 : 10,000.- Ya. S. Ilkin, Assistant, reported on maps of apartment building in the atlases of the oblasts.- In the section of building of apparatus, I. I. Mantsikov, Docent, spoke on the life of Ye. B. Popov.- M. V. Yakovlev, Assistant, reported on reflecting lenses, Professor I. G. Sarkis on the increase in accuracy in measuring physical magnitudes, Engineer Z. M. Kazarov on vertical axial systems for highly accurate optic theodolites, V. S. Usov, Assistant, on sighting with telescopes with zone plates, P. P. Zakharov, Assistant, on the automization of evaluation of image couples.

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AUTHOR: Sudakova, S. S. SOV/6-59-11-13/21

TITLE: Method of Physico-geographical Observation of a Terrain With Topographical Photography (From Work Experience of the Meshchera Expedition of the Moscow Institute of Geodetic, Aerial Survey and Cartographic Engineers in 1958)

PERIODICAL: Geodeziya i kartografiya, 1959, Nr 11, pp 44-52 (USSR)

ABSTRACT: The area of the USSR is at present cartographed on a large scale. To shorten the time needed for physico-geographical observation in surveying the terrain, the time at disposal to the internal service must be used to best avail. The Meshcherskaya expeditsiya MIIGAiK (Meshchera Expedition of the Moscow Institute of Geodetic, Aerial Survey and Cartographic Engineers) carried out investigations according to the task: "Program and Nature of Editorial Work". Geographic observation was considered of great importance. The article first describes the terrain investigated on the left bank of the Oka River in the area of the Ryazanskaya Meshchera. Subsequently, the program of physico-geographical observations set up during the time of preparation is described. Then follows a description

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Method of Physico-geographical Observation of a Terrain With Topographical Photography (From Work Experience of the Meshchera Expedition of the Moscow Institute of Geodetic, Aerial Survey and Cartographic Engineers in 1958) SOV/6-59-11-13/21

of field work. The physico-geographical field observations were made by means of the route method and the key method. The latter consisted of a detailed investigation of typical sections of different parts of the terrain not exceeding 2 km^2. The final part of the physico-geographical field observation consisted in preparing a schematic map of the sections on a 1 : 100,000 scale. This map is used for generalization of field observations and of the keys for the various relief, forest and marsh types. This map is chiefly intended to reproduce the distribution of natural landmarks with contrasting sections in the area. There is a detailed description of the method of reproducing these sections in the terrain. The main steps of the physico-geographical observation described here serve the purpose of giving the editorial instructions a concrete character. They also serve as geographical foundations for the recommendations given for carrying out topographic work. The map mentioned scale 1 : 100,000 serves as

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Method of Physico-geographical Observation of a Terrain With Topographical Photography (From Work Experience of the Meshchera Expedition of the Moscow Institute of Geodetic, Aerial Survey and Cartographic Engineers in 1958) SOV/6-59-11-13/21

accounting document for the physico-geographical observation carried out in the field. There are 4 figures and 5 Soviet references.

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SUDAKOVA, S.S.

Landforms along the south bank of Oka, Moscow Province. Vop.geog. no.51:99-119 '61. (MIRA 14:6)
(Oka Valley (Moscow Province)--Landforms)

SUDAKOVA, T.D.

Redesigning of enclosures for spinning machines. Khim.volok. no.2:52-53 '63. (MIRA 16:5)

1. Kalininskiy kombinat.
(Spinning machinery)

S/020/63/149/002/016/028
B108/B186

AUTHORS: Kirillova, K. M., Kukhtin, V. A., Sudakova, T. M.

TITLE: The addition of trialkyl phosphites to acetylene carboxylic acids

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 2, 1963, 316 - 317

TEXT: The action of trialkyl phosphites on acetylene carboxylic acids which together form a C≡C-C=O system was studied. Both propiolic and tetrolic acid form colorless liquids with trialkyl phosphites. An analysis of the infrared spectra of these compounds showed that they are esters of the corresponding acids. One distillation of the reaction products yields fractions with a wide boiling range, but after a second distillation the resulting products have a clear boiling point. It is possible that two isomeric forms result from the reactions, the less stable of which is converted into the other, more stable form on being heated (distillation). There is 1 table.

ASSOCIATION: Kazanskiy filial Nauchno-issledovatel'skogo kinofotoinstituta (Kazan' Branch of the Scientific Research Institute of Motion Picture Photography)

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L 06513-67 EWT(m)/EWP(j) RM

ACC NR: AP7000479 SOURCE CODE: UR/0079/66/036/006/1113/1118

AUTHOR: Pudovik, A. N.; Sudakova, T. M. 23 B

ORG: Kazan' State University im. V. I. Ul'yanov-Lenin (Kazanskiy gosudarstvennyy universitet)

TITLE: Reactivity of incomplete esters of phosphorus acids in reactions of addition to acrylonitrile

SOURCE: Zhurnal obshchey khimii, v. 36, no. 6, 1966, 1113-1118

TOPIC TAGS: acrylonitrile, organic phosphorus compound

ABSTRACT: The comparative reactivities of a number of phosphorus-containing reagents with a labile hydrogen atom: dialkylphosphorous and dialkylthiophosphorous acids, incomplete esters of phosphorous acids, diethyldithiophosphoric acid, cyanophosphonemethane, and phosphoneacetic ester were investigated in the reactions of addition to acrylonitrile. Two methods of investigation were used: the method of "competitive" addition and the construction of kinetic curves, reflecting the dependence of the degree of completion of the reaction upon the time. In the first method, acrylonitrile and two of the phosphorus-containing components tested were brought together in equimolar ratios in the absence of a solvent, using a saturated solution of sodium ethylate in anhydrous alcohol as the catalyst. On completion of the reactions, the reaction mixtures were distilled under vacuum, and the amounts of addition products formed were determined. Kinetic curves of the reactions with acrylonitrile were taken in ter-butanol:dioxane (10:1) solution at constant temperature,

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SUDAKOVA, V., agronom

"Chemical industries" pavilion. Nauka i pered. op. v sel'khoz. 8 no.8:26-29 Ag '58. (MIRA 11:10)
(Moscow--Chemical industries--Exhibitions)

SUDAKOVA, V., agronom

All-Union survey of corn harvested for silage. Nauka i pered.op. v sel'khoz. 8 no.11:18-20 N '58. (MIRA 11:12)
(Corn (Maize))