16(2)

16.75 h.

SOV/2-59-3-5/13

AUTHORS: Balevskiy, D., and Tsonev, V.

TITLE: Experience With Spot-Summary of Census Results in the Bulgarian Republic. (Opyt vyborochnov svodki materialov perepisi naseleniya Marodnov Respubliki Bolgarii).

PERIODICAL: Vestnik statistiki, 1959, Nr 3, pp 41-48 (USSR)

ABSTRACT: Preliminary approximate results of the 1956 census in Bulgaria were obtained in a 5% spot summary (method of Indian Professor P.Ch.Mekhalonobis). A preliminary summary for all the 20,000 indices used in that census being impossible, the preliminary summary was calculated for only 30 major indices. The article includes the calculations and the formulae used. It was stated after the complete data procession, that the errors of the preliminary summary were correctly estimated and did not exceed practically permissible values. The method is recommended for the use in future.

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	PATARINSKI, PENKO D.			
	Tekhnicheski izmervaniia na razmerite. /Sofig (Vzmimozameniaemost v mashinostroeneto) /The precision instruments in the construction of lengths_/			
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	SO: Monthly List of East European Accessions,	Vol. 3, No. 2, /Library of Congress,	February, I	954 II, Uncl.
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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00123! PATARINSKI, P.D.; NIKOLOV, R.Kh. (Bolgarskaya Narodnaya Respublika) Noncontact measurement of displacements in machine tools. Stan.i instr. 33 no.6:36-37 Je '62. (MIRA 15:7) (Machine tools) (Strain gauges)

PATARKALISHVILT, N.M.

的关系,这些关系,我们的关系,我们就是我们的问题,

Pathogenesis and clinical treatment of relapses of typhoid and paratyphoid fever. Soob. AN Gruz. SSR 28 no.51621-627 My '62. (MIRA 18:5)

1. Tbilisskiy gosudarstvennyy meditsinskiy institut. Submitted March 15, 1961.



VESELOV, S.I.; GUSHCHINA, N.; MAKUSHKIN, L.G.; RULINA, L.B.; CHICHILO, I.K.; SHABUNIN, Ye.M.; CHILIKIN, M.G., prof.; YUSHKOV, S.B.; GOSIS, I.N.; RYABTSEV, N.I.; KRUPOVICH, V.I.; PETROV, N.I.: PATARUYEV, A.D.; BEYRAKH, Z. Ya., doktor tekhn. nauk

Twenty-first anniversary of the publication "Promy: nlennaia energetika". Prom. energ. 21 no. 1:5-7 Ja *66 (MIRA 19:1)

 Nachal nik Gosudarstvennoy inspektsii po energeticheskomu nadzoru Ministerstva energetiki i elektrifikatsii SSSR (for Veselov). 2. Moskovskoye pravleniye nauchno-tekhnicheskogo obshchestva energeticheskoy promyshlennosti (for Gushchina).
 Predsedatel' Sverdlovskogo pravleniya Nauchno-tekhnicheskogo obshchestva energeticheskoy promyshlennosti (for Makushkin).
 Glavnyy energetik Pervoge gesudarstvennogo podshipnikovogo zavoda (for Chichilo). 5. Glavnyy energetik Moskovskogo me ullurgicheskogo zavoda 'Serp i molot" (for Shar in). 6. Hektor Moskovskogo energeticheskogo instituta (for Chilikin). 7. Glavnyy inzhener instituta Tyazhpromelektroproyekt (for Krupovich).
 Glavnyy konstruktor Moskovskogo zavoda teplovoy avtematiki (for Beyrakh).

and and the second

ACCESSION NR: AP4043636 S/0056/64/047/002/0598/0600 AUTHORS: Baty*yev, E. G.; Patashinskiy, A. Z.; Pokrovskiy, V. L. TITLE: Behavior of thermodynamic quantities near the Lambda point SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 2, 1964, 598-600 TOPIC TAGS: helium, specific heat, chemical potential, lambda transition ABSTRACT: In view of the lack of agreement between the results of earlier investigations, the authors construct a semi-phenomenological theory of the λ transition in helium, which agrees with the experimental data. This theory is based on two facts: 1) The specific heat has a logarithmic behavior near the A curve. 2) The dimensionless quantity ($\delta\mu/\delta T$), (where μ -- chemical potential) has a large value. This is equivalent to assuming that the λ curve has a large slope in the (μ , T) plane and that C has a logarithmic singularity Cord 1/2

.. NR: AP4043636

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on the entire λ curve. The assumption that $\left(\delta_{\mu\nu}/\delta T\right)_{\lambda}$ is large signifies that perturbation theory becomes inapplicable at rather small values of the coupling constant. It is shown that the theory can be verified quantitatively at the λ point. Orig. art. has: 11 formulas. Ł ASSOCIATION: Institut radiofiziki i elektroniki Siberskogo otdeneniya Akademii nauk SSSR (Institute of Radiophysics and Electronics, Siberian Department, Academy of Sciences SSSR) SUBMI TTED: 19Feb64 ENCL 00 SUB CODE: TD, GP NR REF SOV: 000 **OTHER:** 005 Cord 2/2

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ACC	ESSION NR:	AP4042573	s/	0056/64/046/0	06/2093/2101
AUT	HORS: Baty	y*yev, E. G.; E	Patashinskiy, A	. Z.; Pokrovs	kiy, V. L.
TIT	LE: Phase	transition in			
SOU	RCE: Zh. e	eksper. i teor.	fiz., v. 46,	no. 6, 1964,	2093-2101
TOP: pha	IC TAGS: s se transiti	superconductivi ion	ty, pair theor	y, boson, Fern	mi liquid,
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ACCESSION NR: AP4042573

perature μ (or with the Debye temperature in the case of a metal). It is shown that the phase transition picture is the same as for a Bose liquid, in which Cooper pairs play the role of Bose particles. Only temperatures $T \geq T_0$ are considered. It is shown that the region of logarithmic phase transition in a superconductor is very small, $(T - T_0)/T_0 \sim (T_0/\mu)^4$, owing to the weakness of the pair interaction resulting from the small density and small effective mass. Such a narrow temperature interval is too small for experimental purposes. It follows from the results that the thermodynamics of the superconductors as given the Bardeen, Cooper, and Schrieffer model is valid down to the interval of the logarithmic phase transition. Orig. art. has: 48 formulas.

ASSOCIATION: Institut radiofiziki i elektroniki Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Radiophysics and Electronics, Siberian Department, Academy of Sciences SSSR)

Card 2/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001239





PATASHINSKIY, A.Z.; FOKROVSKIY, V.L.; KHALATNIKOV, I.M. Regier poles in nonrelativistic quantum mechanics. Zhur. eksp. i teor. fiz. 43 po.3:1117-1119 '62. (MIRA 15:10) 1. Institut fizicheskikh problem AN SSSR, Institut radiofiziki i elektroniki Sibirshogo otdeleniye AN SSSR J. Institut teopInfiziki Sibirshogo otbeleniye AN SSSR J. Institut teopInfiziki (Quantum theory)

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PATASHINSKIY, A. Z.

A. Z. Patashinskiy and V. L. Pokrovskiy, "Phase Transitions of the Second Kind in Eose-Liquids."

report submitted for the Conference on Solid State Theory, held in Moscow, December 2-12, 1963, sponsored by the Soviet Academy of Sciences.



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Ext(1)/FGC(w)/BDS AFFTC/ASD/ESD-3 Lip(0) L 13565-63 ACCESSION NR: AP30031 39 **8/0056/63/044/006/**2062/2078 AUTHOR: Patashinskiy, A. Z.; Pokrovskiy , V. L.; Khalatnikov, TITLE: Regge poles in problems concerning a quasi-classical potential vell SOURCE: Zhurnal eksper. 1 teor. fiziki, v, 44, no. 6, 1963, 2062-2078 TOPIC TACS: Regge poles, rectangular spherical potential well, physical and unphysical poles, levels and resonances ABSIRACT: A method recently proposed by the authors for finding the poles of the scattering phase shift (Regge poles) for the quasi-classical potentials (ZhEIF v. 43, 1117, 1962) is used to analyze the simplest problem of Regge poles for the case of rectangular spherically-symetric potential well. In this case the scattering phase-shift can be explicitly expressed in terms of Bessel functions. In looking for the Regge poles, the previously developed method is used to follow the properties of the phase shift along level lines. Two series of poles are found, "physical" and "unphysical." The character of the motion of the poles with variation of the energy is then clarified and finally some general relations are established between the mumber of levels and 1/2

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cad. Sci. SSSR	Sci. SSSR; Insti	tute of Therma	Dehysics, Siber	tute of Physic rian Departmen	<u>8</u> t
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for the density as a function of the relative changes of the critical potential and of the temperature difference. The correlation function is then shown to be propor- tional to the distance raised to the -3/2 power. The thermodynamic potential used to obtain this deduction leads to thermodynamic consequences which agree qualitative-	ACC NR: AF6010436 SOURCE CODE: UR/0386/65/003/005/0208/0212 AUTHOR: Patashinskiy, A. Z. ORG: VNIIFTRI of the Siberian Department of the Academy of Sciences, SSSR (VNIIFTRI Sibirskogo otdeleniya Akademii nauk SSSR) TITLE: Density correlation near the critical point SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 5, 1966, 208-212 TOPIC TAGS: critical point, correlation function, fluid density, phase transition, thermodynamic characteristic, potential energy ABSTRACT: The purpose of the article is to determine, within the framework of the phenomenological theory, the dependence of the correlation function of the density on the distance near the critical point of a liquid-vapor system, using data from		
ACC NR. AF6010436 SOURCE CODE: UR/0396/65/003/005/0208/0212 AUTHOR: Patashinskiy, A. Z. ORG: UNIIFTAI of the Siberian Department of the Acedemy of Sciences, SSSR (VNIIFTAI Sibirskogo otdeleniya Akademii nauk SSSR) TITLE: Density correlation near the critical point SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 5, 1966, 208-212 7 TOPIC TAGS: critical point, correlation function, fluid density, phase transition, thermodynamic characteristic, potential energy ABSTRACT: The purpose of the article is to determine, within the framework of the phenomenological theory, the dependence of the correlation function of the density on the distance near the critical point of a liquid-vapor system, using data from thermodynamic experiments. The assumptions under which the calculations are made are similar to those made by the author earlier (with V. L. Pokrovskiy, ZhETF v. 50, 439, 1966). The increment in the number of particles in a given region due to a for the density as a function of the relative changes of the critical potential and of the temperature difference. The correlation function is then shown to be propor- tional to the distance raised to the -3/2 power. The thermodynamic potential used to obtain this deduction leads to thermodynamic consequences which agree qualitative-	ACC NR: AF6010436 SOURCE CODE: UR/0386/66/003/005/0208/0212 AUTHOR: Patashinskiy, A. Z. ORG: VMILPTRIL of the Siberian Department of the Academy of Sciences, SSSR (VNILFTRI Sibirskogo otdeleniya Akademii nauk SSSR) TITLE: Density correlation near the critical point SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 5, 1966, 208-212 2/ TOPIC TAGS: critical point, correlation function, fluid density, phase transition, thermodynamic characteristic, potential energy ARSTRACT: The purpose of the article is to determine, within the framework of the phenomenological theory, the dependence of the correlation function of the density con the distance near the critical point of a liquid-vapor system, using data from are similar to those made by the author earlier (with V. L. Pokrowskiy, ZhETF v. 50, change in the thermodynamic potential is calculated, and a final expression is given of the density as a function of the relative changes of the critical potential and for the density as a function of the relative changes of the shown to be propor- tional to the distance raised to the -3/2 power. The thermodynamic potential used to obtain this deduction leads to thermodynamic consequences which agree gualitative-	$L_{24392-66} = EVT(1)/EPF(n)-2/ETC(m)-6 = rm/crt$	
AUTHOR: Patashinskiy, A. Z. ORG: WHIFTHI of the Siberian Department of the Academy of Sciences, SSSR (VNIIFTRI Sibirskogo otdeleniya Akademii nauk SSSR) TITLE: Density correlation near the critical point SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 5, 1966, 208-212 2/ TOPIC TAGS: critical point, correlation function, fluid density, phase transition, thermodynamic characteristic, potential energy ABSTRACT: The purpose of the article is to determine, within the framework of the phenomenological theory, the dependence of the correlation function of the density on the distance near the critical point of a liquid-vapor system, using data from are similar to those made by the author earlier (with V. L. Pokrovskiy, ZhETF v. 50, change in the thermodynamic potential is calculated, and a final expression is given for the density as a function of the relative changes of the critical potential and to the distance raised to the -3/2 power. The thermodynamic potential used to obtain this deduction leads to thermodynamic consequences which agree qualitative-	AUTHOR: Patashinskiy, A. Z. ORG: VNILFTRI of the Siberian Department of the Academy of Sciences, SSSR (VNILFTRI Sibirskogo otdeleniya Akademii nauk SSSR) TITLE: Density correlation near the critical point SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 5, 1966, 208-212 2/ TOPIC TAGS: critical point, correlation function, fluid density, phase transition, thermodynamic characteristic, potential energy ABSTRACT: The purpose of the article is to determine, within the framework of the phencaenological theory, the dependence of the correlation function of the density on the distance near the critical point of a liquid-vapor system, using data from are similar to those made by the author earlier (with V. L. Pokrovskiy, ZhETF v. 50, change in the thermodynamic potential is calculated, and a final expression is given of the density as a function of the relative changes of the critical potential and for the density as a function of the relative changes of the critical potential and tional to the distance raised to the -3/2 power. The thermodynamic potential used to obtain this deduction leads to thermodynamic consequences which agree qualitative-	ACC NR, ADSOJOJIZS	•
TITLE: Density correlation near the critical point SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 5, 1966, 208-212 $2/$ TOPIC TAGS: critical point, correlation function, fluid density, phase transition, thermodynamic characteristic, potential energy ABSTRACT: The purpose of the article is to determine, within the framework of the phenemenological theory, the dependence of the correlation function of the density on the distance near the critical point of a liquid-vapor system, using data from thermodynamic experiments. The assumptions under which the calculations are made are similar to those made by the author earlier (with V. L. Pokrovskiy, ZhETF v. 50, 439, 1966). The increment in the number of particles in a given region due to a change in the thermodynamic potential is calculated, and a final expression is given of the temperature difference. The correlation function is then shown to be propor- to obtain this deduction leads to thermodynamic consequences which agree qualitative-	TITLE: Density correlation near the critical point SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 5, 1966, 208-212 2/ TOPIC TAGS: critical point, correlation function, <u>fluid density</u> , phase transition, thermodynamic characteristic, potential energy ABSTRACT: The purpose of the article is to determine, within the framework of the phenomenological theory, the dependence of the correlation function of the density on the distance near the critical point of a liquid-vapor system, using data from thermodynamic experiments. The assumptions under which the calculations are made are similar to those made by the author earlier (with V. L. Pokrovskiy, ZhETF v. 50, 439, 1966). The increment in the number of particles in a given region due to a change in the thermodynamic potential is calculated, and a final expression is given of the density as a function of the relative changes of the critical potential and tional to the distance raised to the -3/2 power. The thermodynamic potential used to obtain this deduction leads to thermodynamic consequences which agree qualitative-		
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SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 5, 1966, 208-212 2/ TOPIC TAGS: critical point, correlation function, fluid density, phase transition, thermodynamic characteristic, potential energy ABSTRACT: The purpose of the article is to determine, within the framework of the phenomenological theory, the dependence of the correlation function of the density on the distance near the critical point of a liquid-vapor system, using data from thermodynamic experiments. The assumptions under which the calculations are made are similar to those made by the author earlier (with V. L. Pokrovskiy, ZhETF v. 50, change in the thermodynamic potential is calculated, and a final expression is given of the temperature difference. The correlation function is then shown to be propor- to obtain this deduction leads to thermodynamic consequences which agree qualitative-	SCURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 5, 1966, 208-212 2/ TOPIC TAGS: critical point, correlation function, <u>fluid density</u> , phase transition, thermodynamic characteristic, potential energy ABSTRACT: The purpose of the article is to determine, within the framework of the phenemenological theory, the dependence of the correlation function of the density on the distance near the critical point of a liquid-vapor system, using data from thermodynamic experiments. The assumptions under which the calculations are made are similar to those made by the author earlier (with V. L. Pokrovskiy, ZhETF v. 50, change in the thermodynamic potential is calculated, and a final expression is given of the temperature difference. The correlation function is then shown to be propor- to obtain this deduction leads to thermodynamic consequences which agree qualitative-	TITLE: Density correlation near the critical point	
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ABSTRACT: The purpose of the article is to determine, within the framework of the phenomenological theory, the dependence of the correlation function of the density on the distance near the critical point of a liquid-vapor system, using data from thermodynamic experiments. The assumptions under which the calculations are made are similar to those made by the author earlier (with V. L. Pokrovskiy, ZhETF v. 50, 1439, 1966). The increment in the number of particles in a given region due to a change in the thermodynamic potential is calculated, and a final expression is given of the density as a function of the relative changes of the critical potential and tional to the distance raised to the -3/2 power. The thermodynamic potential used to obtain this deduction leads to thermodynamic consequences which agree qualitative-	ABSTRACT: The purpose of the article is to determine, within the framework of the phenomenological theory, the dependence of the correlation function of the density on the distance near the critical point of a liquid-wapor system, using data from thermodynamic experiments. The assumptions under which the calculations are made are similar to those made by the author earlier (with V. L. Pokrovskiy, ZhETF v. 50, change in the thermodynamic potential is calculated, and a final expression is given of the density as a function of the relative changes of the critical potential and tional to the distance raised to the -3/2 power. The thermodynamic potential used to obtain this deduction leads to thermodynamic consequences which agree qualitative-		
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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00123: L 24302-66 ACC NR AF6010436 ly with theoretical results obtained by M. Ya. Azbel' et al. (ZhETF v. 46, 673, 1964), but it is stated in the conclusion that a more direct check, for example by scattering experiments, would be very useful. The author is grateful to V. L. Pokrovskiy for discussions. Orig. art. has: 20 formulas. SUB CODE: 20/ SUEM DATE: 15Jan66/ ORIG REF: 004/ OTH REF: 002 Cord 2/2 UR



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AUTHOR:	Patashinskiy, A. Z.
TITLE:	Integral representations in perturbation theory
PERICDICAL:	Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 4(10), 1962, 1371-1377
perturbation spectral func find the inter process the a graphs (N. hal problem with a	al representations of Feynman graphs drawn with the aid of theory are considered. The boundary of a region in which the tion vanishes when the masses are equal is considered. To resection of such analytical regions of all graphs of a liven whors used the technique of constructing major Feynman canishi. Suppl. Progr. Theor. Phys., 18, 1, 1961). Thereby a arbitrary interaction can be reduced to a problem in which bin at each vertex. There are 3 figures.
ASSOCIATION:	Institut teplofiziki Sibirskogo otdeleniya Akademii nauk SUSK (Institute of Heat Physics of the Siberian Department of the Academy of Sciences USSR)
SUBMITTED: Card 1/1	April 12, 1962

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PATASHINSKIY, A.Z.

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Symmetry of solutions obtained in the determination of characteristic of Feynman diagrams by Landau's method. Zhur. eksp. i teor. fiz. 39 no. 6:1744-1746 D '60. (NIRA 14:1)

1. Sibirskoye otdeleniye Akademii nauk SSSR. (Field theory)

88453

自己的社会和自己的问题

s/056/60/039/006/045/063 **B006/B063**

把采用的话

4.4500 AUTHOR:

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Patashinskiy, A. Z.

TITLE: Symmetry of Solutions Obtained by Landau's Method for Determining the Position of Singularities of Feynman Graphs

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, Vol. 39, No. 6(12), pp. 1744-1746

TEXT: The author has demonstrated that for some graphs, the solutions obtained by Landau's method for determining the position of singularities are symmetric. The singularities were determined by L. D. Landau's method for symmetric graphs, i.e., they had to be symmetric with respect to transformations, in which the invariants characterizing the position of singularities do not vary. In the quadratic graphs concerned, these symmetryconserving transformations consist in reflections and rotations through the angle π . If symmetric solutions are assumed to exist for the angles and the parameters α , the calculations for the determination of singularities in symmetric graphs may be simplified considerably. The assumption of symmetry is related to the problem of the uniqueness of the solution with Card 1/3

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Symmetry of Solutions Obtained by Landau's Method for Determining the Position of Singularities of Feynman Graphs

respect to a for given external invariants of Landau's set of equations: $\sum \alpha_i q_i = 0, \ \alpha_i > 0, \ q_i^2 - m_i^2 = 0.$ This equation, together with the theorems

of conservation, defines the inner vectors q as linear combinations of the outer vectors p with the coefficients depending on α . The set of equations $P_i\left[\alpha_k, (p_s p_m)\right] = 0$, where i,k, = 1 ... l; s, m = 1, 2, 3, is studied next. l is the number of inner lines of the graph; P_i is a polynomial homogeneous with respect to α . For symmetry-conserving transformations of a symmetric graph, this set goes over into itself. A unique solution to this set obtained with given values of the outer parameters is symmetric. The symmetries of α and the angles are clearly interrelated. The asymmetric solutions available for symmetric graphs do not satisfy the condition of

positive a_i . A general proof for the assumption of symmetric solutions cannot be given. For the quadratic graphs under consideration it has been shown that the symmetry of the solution follows from the condition $a_i > 0$.

Card 2/3

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这些时间的,我们就是我们的问题,我们就是我们的。我们们还有

网络新闻

B6453 Symmetry of Solutions Obtained by Landau's S/056/60/039/006/045/063 Singularities of Feynman Graphs V. V. Sudakov is thanked for interest and advice. There are 2 figures and 2 soviet references. ASSOCIATION: Sibirskoye otdeleniye Akademii nauk SSSR (Siberian Branch of the Academy of Sciences USSR) SUBMITTED: July 9, 1960

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観題日

ACCESSION NR: AP4025932	s/0056/64/046/003/0994/1016
AUTHORS: Patashinskiy, A. Z.; Pol	krovskiy, V. L.
TITLE: Second order phase transi	tion in a Bose liquid
SOURCE: Zhurnal eksperimental'no no. 3, 1964, 994-1016	y i teoreticheskoy fiziki, v. 46,
TOPIC TAGS: liquid helium, Bose tion, two particle interaction, m tion temperature, Green's functio guasiparticle spectrum, fluctuati	liquid, second order phase transi- any particle interaction, transi- ' n technique, diagram technique, on spectrum, specific heat
in liquid helium. It is shown th particle interactions hecome impo parameter introduced in the theor	or second-order phase transitions at not only two-particle but many- rtant, so that the only smallness y is the relative absolute devia- ure $ T - T_0 /T_0$. The calculations

ACCESSION NR: AP4025932 employ Green's-function and diagram techniques. The chief quantities studied are the Green's function, which determines the fluctuation spectrum, and the total vertex part of the diagram, which describes the two-particle scattering. The liquid helium near the phase transition curve is assumed to be an ideal gas of quasiparticle with a spectrum $\varepsilon = Ap^{3/2}$, and physical arguments are advanced in favor of this assumption. The theory shows that the width of the phase transition region depends on the interaction potential between the particles, but the fluctuation spectrum and the particle scattering amplitude are the same for any positive potential, and are independent of the details of the interaction at small distances. At small momenta the effective interaction is determined by a dimensionless charge, which is defined uniquely by the consistency conditions for the theory, but which cannot be determined accurately because the equations are too complicated. Some arguments are advanced to prove that the mathematical scheme proposed is the only possible one. The main theoretical conclusions of the theory are: Card 2/4

ACCESSION NR: AP4025932

(1) the specific heat has a logarithmic behavior on both sides of the equilibrium curve; (2) the coefficients preceding the term $\ln(|T - T_0|/T_0)$ are the same on both sides of the λ curve; (3) the specific heat experiences a finite jump which is superimposed on the logarithmic curve. All the results have been confirmed experimentally. The problem of second-order phase transitions and its present status are discussed. "We thank A. A. Vedenov for numerous discussions contributing to the clarification of the physical aspects of the problem, A. I. Larkin, V. V. Sudakov, D. V. Shirkov, G. M. Eliashberg, and other participants of the second Odessa Symposium on Theoretical Physics for fruitful discussion, and E. G. Baty*yev, S. K. Savviny*kh, and G. I. Surdutovich for useful remarks which nelped eliminate some errors. The authors point to the role played by Yu. B. Rumer whose undiminishing enthusiasm has supported research in this field for many years." Orig. art. has: 1 figure and 108 formulas.

Card

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APPROVED FOR RELEASE: Wednesday, June 21, 2000

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PATASHINSKIY, A.Z. Integral representations in perturbation theory. Zhur. eksp. i teor. fiz. 43 no.4:1371-1377 0 '62. (MIRA 15:11) 1. Institut teplofiziki Sibirskogo otdeleniya AN SSSR. (Pather bation) (Calculus, Integral)





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Singulárit	S/056/61/040/001/028/037 B102/B212	V
venience t singularit relation b	ring amplitude is characterized by six parameters; for con- hey are chosen to be: M_1^2 and the invariants W^2 and Q^2 . Only the ies with real invariants are considered. There is a certain etween W^2 , Q^2 and the masses of the virtual particles at the y; this relation is characterized for graphs of the type shown	•
in Fig.1 t $\begin{array}{c} 1\\ 1\\ \end{array}$	y the ratios between m_1 and the equiver of this graph. 3 73 3 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 4 for infinity. The condition that $ W^2(Q^2) \leq W^2(\infty) $ holds as a 4 for infinity. The condition that $ W^2(Q^2) \leq W^2(\infty) $ holds as a 5 oriterion for the anomalous type of singular curves. First 6 oriterion for the anomalous type of singular curves.	्र इ.
Fig.1 of all th studied a is studie	e singularities of the "open envelope" type graph (ingularities nd the asymptotic behavior of the position of its singularities d for one of the invariants approaching infinity. It can be shown	

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相论和理想的的事业的考虑和可能的有些非常的。

89222 8/056/61/040/001/028/037 Singularities of scattering ... B102/B212 By that the singular curve of the "open envelope" has several branches, two in the general case. The two possibilities $\kappa \langle 1 \ (e \neq 0, e = 0) \ and \ \kappa = 1$ are studied separately. In the following a method is developed to reduce the problem of determining the singularities of any perturbationtheoretical graph with four external lines to the problem " of "open envelope" graphs with certain masses of virtual 71 Fig.3 particles. Theorem 1 is formulated as: The singular curves of any p.-t. graph for the scattering amplitude coincide with the "openenvelope" 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 Card 3/5
74 75 75 75 75 75 75 75 75 75 75	L. D. Landau, L. B. Okun', and Kolkunov and V. S. Vladimirov	, k
Card 4/5		



THE INCOME.

s/056/62/042/003/027/049 1.1.1 B102/B138 AULIOR: latashinskiy, A. Z. The position of the singularities of Feynman graphs TITLE: FERIODICLE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42, no. 3, 1962, 812-819 TERT: It is shown that the denominator of the integrand of the parametric representation of Feynman integrals, $f = \frac{1}{ik} \frac{1}{ik} \left(q_{ik}^2 - m_{ik}^2\right)$ can be written as $f = k_{ik,lm} q_{ik}' q_{lm}' + \sigma(u,p,m)$ if that part of the quadratic form which depends on the external momenta is eliminated. After integrating over the internal momenta, a function of a,m and the external vectors $p_{1,1}(a,m,p)$ remains, whose properties are studied. The results are used to determine the position of the singular curves. i, k,.. characterize the vertices of the graph, p_i is the outer four-momentum to the vertex i, $q_{ik} - q_{ki}$ is the momentum of the virtual particle, $a_{ik} = a_{ki}$ is the Feynman parameter Card 1/3

The position of the singularities ...

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curves. The asymptote equations of the singular curves are derived for four-tails in zeroth approximation. It is shown that the second asymptote is not contained in all the graphs, and that it is located at larger values of the finite invariant than the usual asymptote of the singular curve for internal-mass variation. L. D. Landau, B. L. loffe, A. F. Audnik, K. A. Fer-Martbrosyan and V. V. Sudakov are thanked for discussions. There are 4 figures and 7 references: 4 Loviet and 5 non-Soviet. The three references to English-language publications read as follows: S. Mandelstam. Phys. Rev., <u>112</u>, 1344, 1959. S. Mandelstam. Phys. Rev., <u>115</u>, 1741, 1959. S. Mandelstam. Phys. Rev., <u>115</u>, 1752, 1959.

ASSOCIATION: Institut teplofiziki Sibirskogo otdeleniya Akademii nauk SUSR (Institute of Heat Physics of the Siberian Branch of the Academy of Sciences, USSR)

SUBMITTED: August 26, 1961

Card 3/3

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L., Knalatnikov, I. M. Am mechanics heskoy fiziki, v. 23, oles in the complex worked out. This method by V. L. Pokrovskij and
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5, 056, cu 043, 003, Criviust B104, '8101 Redee joles in nonrelative ation... it is concluded that three weights of a located The first of the the second in the upper second as we to the left of $v=x_1$ (Fig. 1), the recommendation of equations of the second se print x asymptotically affr as any the loss Im I = -t at $U_0 < D = 0$. To third series is missing when $\mathbb{C}_{\mathbb{C}}$ = 0, but hyproximately symmetric its the recond series when $2 \times C$. An analytical priential $C(\mathbf{r})$ having singularities in the complex momentum plane is examined. When $\mathbb{R}\gg\mathbb{T}_{c}$ in poles are near to those values of v at which the level line has two poles of inversion, $r_1\approx v/k$ and r_2 (Fig. 2). There are two perted of follow h the upper semiplane. The first series extends to the lost and deared in a the point $\mathbf{v} = \mathbf{kr}_0$, $\mathbf{k}^2 = 2\pi \mathbf{k}$, a proaching the real axis asymptotically. ... second series is situated right and left of the point $v = kr_0$ where the asymptotes $lm(v = kr_0) \sim n/ln(n)$, $Re(v = kr_0) \sim ln(v = kr_0)/ln(n)$. The position of the poles in the case of mint $(r) \in \mathbb{E} < 0$ is the same as in the case of a potential well with negative energies. There are 2 figures. Cara 2/3

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00123 S/050/62/043/003/059/063 B104/B102 Refge poles in nonrelativistic ... ASSOCIATION: Institut fizicheskikh problem Arademii naik C.SR (Institute of Physical Problems of the Acudemy of Sciences UCSR'. Institut radiofiziki i elektroniki Sibirskogo otlelenija Akademii nauk SSSR (Institute of Rad.ophysics and Electronics of the Sizerian Department of the Academy of Sciences USDR'. institut tejlofiziki Sibirskogo ottelenija Akatemii nauk COSK (Institute of Heat Physics of the Siberian Department of the Academy of Sciences USSR) SUBMITTED: July 4, 1962 께ゲ Fig. 1 Card 3/3 Fig. 2



"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001239 PATARINSKIY, N. Ŷ of Cinera ť. Seft ... 102 F. 12. 5 F ដុ Б. 17. しょう 18. nguasiaati 'n the Trilines' pg 711-91--ng, feren'iel Equit. pp 715-715-ADIAGE TALTER BARDINES CELES NAL mgiectrussingtictus, Bridg us the Strongstoryse and Decostopic N. act of the Lott Vicuati, V. Anthrik gg 759-78-4 The set are constructed and by the set of th N. HVOTOL at There in the proving in Lifting Provy Religions of the second sec ;;; and i. <u>Makay</u>i eo 771-77+. and i. <u>Makay</u>i eo 771-77+. 35 ۱ K ACSTRTEN TA "WATE TO TO TO TO TO TO The Brith Surface inder ţ 124 111 Gadradoren di Bastoren 1971 - E. B. Statter L-, bc 7, 1 ml (Contin.ed) , .lastimo", Tat For .

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SYC 2DDTA : EDICA Sec 16 Vol 7/7 Cancer July 59 2700. Hemangiopericytoma uteri (Hungarian text) PATAT P. Värpalotai Varosi Tanäcs Körhäza Szulészet-Nogyögyászati, Osztályának Atag. Omtol. 1956, 11.2 (94-98) Illus. 4 Case report of a 35-year-old woman, who was operated on for myoma. Microscopical examination showed haenangiopericytoma. Pericytoma of the female perioductive organs has been reported in a few cases only. The tumour is relatively benign, but local recurrences are relatively common; it may even be malignant. This patient is well one year after operation. Sümegi - Stockholm

CIA-RDP86-00513R00123

PATAT, Pal, Dr. Pregnancy and delivery after isolated tuberculous endometritis. Orv. hetil. 100 no.7:268-269 15 Peb 59. 1. A Zirci JT Korhaza (igazgato: lukaz Sandor dr.) Szuleszetnogyogyaszati Osztalyanak (foorvos: Patat Pal dr.) kozlemenye. (TUBERCULOS 15, FISMALE GENITAL, in pregn. endometrinl, with normal delivery (Hun)) (FREGNANCY, in various dis. tuberc. of endometrium with normal delivery (Hun))

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PATAT, Pal; BAODY, Daniel Penetration of obstructed spithelial tube; studies on the recanalization of the tube, Magy. noory. lap. 20 no.6:347-355 Dec 57. A Sirci JT Korhasa (igazgato-foorvos: Lukez Sandor) Szuleszet-nogyogyassati Osstalyanak (rozros: Patat Pal) es a Gyogyszeripari Kutato Intezet Biokeniai Osstalyanak (vezeto: Molnar Istvan) kozlemenye. (FALLOPIAN TUENG, surg. exper., recanalization using fibrin tubes (Hun))

PATAT, Fal, dr. Surgical results in therapy of genital tuberculosis. Magy. noorv. lap. 19 no.5:290-295 Sept 56.

 A Dobai Tbc. Gyogyintezet (Igaz. -foorvos: Szederkenyi, Janos, dr.) es a Zirci JT Korhaza (igaz. foorvos: Lukss, Sandor, dr.) Nobeteg Osztaly (foorvos: Patat, Pal, dr.) kosl. (TUBERCULOSIS, FEMALE GENITAL, surg. (Hun))

PATAT, Pal, dr.; SZOTS, Bertalan, dr.
On a new additional therapeutic method in the treatment of female genital tuberculosis. (Preliminary report). Orv. hetil. 105 no.32:1503-1504 9 Ag '64.
1. Ajkai Szulootthon (v. foorvos: Patat Fal dr.) Dobai The Gyogyintezet (igazgato: Szots Bertalan dr.).





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PATAT, Pal, dr.
Two rare cases of endometricsis. Magy. noorv.lap.17 no.5:307-312
Sept 54.
1. A sirci JT korhaza (Igazgato: Lukez Sandor dr.) szuleszeti
oszuleszeti osztalyanak koslemenye (Poorvos: Patat Pal dr.)
(ENDOMETRIDSIS,
ovary & eigmoid, surg.(Hun)
(GOLON, diseases
endometricsis of sigmoid, surg. (Hun)
(OVARIES, diseases
endometricsis, surg. (Hun)
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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00123: PATATINSKIY, A.Z.; POKHUVSKIY, V.L.; KHALATNIKOV, I.M. Quasi-classical scattering in a centrally symmetric field. Zhur. eksp. i teor. fiz. 45 no.4:989-1002 0 '63. (MIFA 16:11) 1. Institut fizicheskikh problem AN SSSR.

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建筑的2000年10月20日日本市场的2000年10月10日本市业 PATCHANKOWA, F. "Condensation catalytique de l'acetylene avec les amines aromatiques. Comm nication VII". Koslow, N. et Patchankowa, E. (p. 1352) SO: Journal of General Chemistry. (Zhurnal Obshchei Khimii) 1936, Vol. 6, No. C

PATCHAYEVA, M.

通過 日均用 在建立的目前分

Structure of the kinetic potentials of equations of a rank larger than zero and the admissibility of a system of primitive groups in four-dimensional space. Sbor. nauch.-issl. rab. TTI no.15:31-44 42. (MIRA 16:9)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00123 化合成合体的化化合金的公司。 化合成合体的化化合金的公司。 化合成合体的化化合金化合体的合体的

PATCHAYEVA, M.

Structure of the kinetic potentials of equations of a rank above zero admitting a given group. Nauch. trudy TashGU no.208. Mat. nauki. no.23:122-127 '62. (MIRA 16:8)

(Differential equations) (Groups, Theory of)

S/137/62/000/001/025/237 A060/A101

AUTHOR: Patching, S.U.

TITLE: Physical and chemical methods for enriching uranium ores

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 11, abstract 1985 ("Izvlecheniye i ochistka redk. metallov". Moscow, Atomizdat, 1960, 128-145)

NARY ALE AREA

TEXT: This is a survey of the technology of U-ore processing. The main types of rocks which include U-containing minerals, and also the form of the U-ore deposits are considered. The characteristics of the most important Ubearing minerals are cited. The physical methods of enriching U-ores are considered: sorting out by means of electronic apparatus, separation in a heavy medium, gravitational methods, flotation, and also the chemical methods. The relation between the physical and the chemical methods of concentrating is clarified. The following possible methods are described, by means of which the processing by physical methods improves the processes of chemical treatment: preliminary concentration for the purpose of reducing the volume of materials supplied for the chemical treatment; elimination from the ore of components

Card 1/2



WOLMAN, Y.; GALLOP, P.M.; PATCHORNIK, A.

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Peptide synthesis by oxidation of acid hydrazides. Coll Cz Chem 27 no.9:2259-2261 S '62.

Albert Einstein College of Medicien, New York (for Gallop).
 Weizmann Institute, Rehovoth, Israel (for Patchornik).
PATCZEWSHI, W.

AUTHOR:	Patczewski, W., Docent, Warsaw	85-58-2-25/36
TIUE:	Vertical Currents Aid Gliding (Vertil planerizmu); I. Classification of Ver vertikal'nykh potobov)	zal'nyye potoki na sluzhbe rtical Currents (l. Klassifikatsiya
PERIODOCAL:	Kryl'ya rodiny, 1953, Nr 2, pp 24-25	(USSR)
ABSTRANT:	This is the first of a series of artimeteorologist, glider pilot, and memb Hydrometeorological Institute in Wars three basic types of ascending current gliding: filament, thermal, and wave currents are of two types: ascending radiation, and advective currents pro- masses of air. Thermal radiation cur- heating of the earth's surface and the intensity, frequency and vertical dis- depend primarily upon the amount of se- earth's surface. This energy, therefore energy (termiki radiatsii). The warms conditions favoring the devolument of	er of the staff of the State ew. The author asserts that ts are now distinguished in currents. Ascending thermal currents caused by solar luced by the movement of cold rents result from the irregular e lower air layers. The tribution of thermal currents blar energy that reaches the one, is called radiation thermal
ard 1/3	conditions favoring the development of	ascending thermal currents

85-58-2-25/36

Vertical Currents Aid Gliding

that occur in slightly higher and slightly lower pressure areas, distinguished by light winds. Cumilus, cumilo-nimbus and cumilo-niminus torrential cloudiness may develop in these areas. Thermal advection currents occur because of the shift of cold masses of air over a warmer surface on days when contrasts in temperature develop. When solar heat increases the amount of energy, the ascending thermal advection currents are more intense. The energy which is developed in the lower layers of the atmosphere and which produces the ascending currents, is called advection thermal energy (termiki advekts1i). Streams of vertical thermal advection currents show greater turbulence than those of ascending thermal radiation currents. Thermal advection radiation currents also occur. A new type of vertical thermal current with intermediary features is observed in some cases and is distinguished by the formation of individual flows of ascending currents under each cumulus cloud. These may equally develop under high clouds, a situation typical of vertical advection thermal currents. This is the type of vertical current recommended for glider flying along a triangular route or for flights to a designated point with return to the starting point. On June 20, 1953, 27 glider pilots, including 4 women, led by Wanda Szemplinska established world records using such vertical currents, flying a triangular route 300 km long. Wave movements develop in the atmosphere as a result of the presence of thermal retentive layers. There are 2 basic types of wave movements: gravitational (free) Card 2/3

85-58-2-25/36

Vertical Currents Aid Gliding

西方非 后来于"不可能们"这次有关之外,

We we and stationary (forced) waves. Retendive thermal layers are distoured by wind and produce wave notements. Since this type of atmospheric wave movement develops independently of the local topography and of frontal surfaces (gaseous obstacles), we call it gravitational wave vibration (free). As welling currents accompany free waves and are usually so weak (0.5 m/sec average) that they cannot be used for glider flying. Stationary (forced) waves occur when air flows with sufficient speed over a nounchain ridge or a rapidly moving cold front. The amplitude of stationary waves is great. A precise classification of ascending currents is of great practical value for forecasting their speed and characteristics. Such theoretical preliminaries are necessary before proceeding to an analysis of some types of ascending currents. The next article will deal with thermal radiables current and the techniques of flying under these conditions. There is one phylograph and one diagram.

ASSOCIATION: State Hydrometeorological Institute, Warsaw

AVAILABLE: Library of Congress Card 3/3



MARIANASHVILI, G.M.; KAVILADZE, N. Sh.; ABASHIDZE, I.V.; MACHARASHVILI, G.R.; PATEISHVILI, M.A.

的方面是在自己的方面的方面。

Variation in the potassium isotope composition in plants. Socb. AM Gruz. SSR 34 no.3:565-568 Je '64 (MIEA 18:1)

1. Tbilisskiy gosudarstvennyy universitet. Submitted February 10, 1964.

PATEJDL, Zdenek

Parent Phase Should be

New antimycotics. Cesk. derm. 36 no.1:28-32 F 162.

1. Dermatovenerologicka klinika v Pizni, prednosta prof. MUDr. Vlastimil Resl. (FUNGICIDES)

PATEK, Erzsebet

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On the Hungarian Archaeological Topography in the making. Magy tud 69 no.6/7:432-433 Jo-J1 162.

1. Magyar Tudomanyos Akademia Regeszeti Kutato Csoportja tudomanyos munkatarsa.

L_31204-66 EWT(m)/EWP(f)/T-2 ACC NR: AP6022604	SOURCE CODE: CZ/0032/65/0	15/012/0950/09
AUTHOR: <u>Patek, F.</u> (Engineer) ORG: Power Development Project, Pra	gue (Energoprojekt)	1) (1)
TITLE: <u>Aircraft turboengines</u> for pe SOURCE: Strojirenstvi, v. 15, no. 1.	2, 1965, 950-955	
TOPIC TAGS: turbine engine, aircraft power plant ABSTRACT: The article shows ways in can be used efficiently and economics Details are given of a pilot station This paper was presented by Doctor, H and 1 table. [Based on author's Engla	which aircraft turboengines remo ally to drive alternators at peak designed in Czechoslovakia and s	ved from plane power station
SUB CODE: 21, 10 / SUBM DATE: nor		
Cord 1/1 BLG	UDC: 621.454: 621.313.322-81	



PATEX, K.
F9DHWCLAGY
Perioducal CLARTER PYSL. Vol. 8, no. 2, Feb. 1958
KUCERA, E.; PrTHK, K. The chemical industry ten yeirs after the Victorious February.
p. 57
Monthly List of East Euromean Accessions (ESAI LC, Vol. 8, no..., March, 1959, Uncl.

CIA-RDP86-00513R001239

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

К-CZECHOSLOVAKIA/Optics -: Ref Zhur Fizika, No 3, 1960, 7182 Abs Jour : Patek Karel Author : Physics Institute, Checkmanovak Academy of Sciences, I:..:t Prague, Czechoslovakia : On the Photoelectroluminescence of ZnS-Cu Title : Cerkosi, casop. fys., 1958, 8, No 5, 628 Orig Pub : The author has investigated the difference of ultravillet Abstract on the brightness wave of electroluminescence of ZnS-Cu; an increase in brightness of the principla maximum is observed and a reduction in the amplitude of the secondary inxing, along with a certain change in the phase shift. It is proposed that under the influence of the ultravialet radiation the number of conductivity electrons increases and these reduce the effect of polarization in the small

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Abs Jour : Ref Zhur Fizika, No 3, 1960, 7182

ZnS crystals and increase the number of electrons accelerated by the electric field. -- V. Kopetskiy



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67001 Photo-Electroluminescence in ZnS-Cu CZECH/37-59-1-7/26 the secondary maximum of the preceding cycle (Fig 9). This is obtained even by very low intensity U.V. irradiation. While at room temperature the described changes occur instantaneously with switching on of the U.V., several minutes are needed to attain equilibrium at The U.V. irradiation apparently influences the -150 °C excitation rather than the emission. The increased number of electrons in the conduction band due to $U_{\rm e}V_{\rm e}$ irradiation, necessarily leads to an increased probability of excitation of an activator by accelerated electrons. A decrease of the maximum at higher levels of irradiation may be explained by one of several mechanisms, such as radiationless recombination on surfaces, decreased effective field due to increased conductivity, etc. The disappearance of the secondary maximum can be explained by the fact that the polarisation is restricted by photoconductivity due to U.V. irradiation. Card There are 9 figures and 8 references, of which 1 is French, 1 German, 1 Czech, 1 Soviet and 4 are English,

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CZECH/37-59-1-7/26

Photo-Electroluminescence in ZnS-Cu

with illumination B. Neglecting the photoluminescence Lo, we find that the primary maximum of electroluminescence (ΔB_1) is increased, while the secondary maximum (ΔB_2) is decreased. The increase of ΔB_1 is most marked in samples with green emission, i.e. without oxygen and with chlorine. The increase is relatively larger for small intensities of electroluminescence. Samples with blue emission show only very slight increases in AB_1 , but instead show considerable phase changes. At large intensities of irradiation, ΔB_1 goes through a maximum and reaches negative values (Fig 4). The dependence of ΔB_1 on the square root of the intensity for a green-emitting sample, is shown in Fig 6 for three different frequencies of the electric field. The secondary peak of electro-luminescence disappears at a certain intensity of U.V. irradiation. Fig 7 shows the decrease of ΔB_2 with I. The experiments have shown that the relative increase in brightness of the primary maximum is equal in both emission bands (Fig 8). Some samples (blue emitters) showed a phase shift of the primary maximum, such that it sometimes coincided with

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CZECHOSLOVAKIA/Optics -

: Ref Zhur Fizika, No 3, 1960, 7184 Abs Jour : Patek, K. Author : Institute of Physics, Czechoslovak Academy of Sciences, Inst Prague, Czechoslovakia On the Photoelectroluminescence of ZnS-Cu Title : Chekhosl. fyz. zh., 1959, 9, No 2, 161-167 Orig Pub : The effect of weak ultraviolet on electroluminescence of ZnS-Cu has been investigated. A more detailed description Abstract : of the experiments, the results of which were reported earlier (abstract 7182), is given, A qualitative explanation of the phenomena is given on the basis of the assumption that the ultraviolet causes an increase in the number of electrons in the conduction band and this increases the probability of excitation of the activators by the Card 1/2- 152 -

PATER, L.; DALASHWA, S.

Decay of EnS-Cu electroluminesce e.

DOKISI UDISKY DAS SITE O FUELDI. (Deckoslovenka akademis vod. Sotav Technicke fysiky) Praha, Dzechoslovakia, Vol. 7, no. 1, 1959.

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Nonthly List of East European Accessions (TTAI) LC. Vol. 9, no. 2, Feb. 1905 Uncl.

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

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THE STOR AND ADDRESS OF STREET Distr: LE2c(m) DISUT: HDCC(M) The electrolominescence of ZnS: Cu single cratals ex-cited with pulses of alternating folarity. K. Patek (Czech, Acad. Sci., Prague). Cerchosion. J. PAST. 70, 452-67 (1960)(in English).-Measurements were made of the brightness waves of the electroluminescence of ZnS: Cu amplitude and temp. A concrete model is proposed for-electronic processes in barriers in ZnS crystals, the con-sequences of which for the decay of electroluminescence are in agreement with measurements. The interpretation of the results obtained is based on the model of 2 Mott-Schottky-type barriers expanding and contracting with the elec. field and its polarity and obviously correctly represents the processes of motion of charges in a crystal and their recombination; in particular, it permits calcn. of the decay curve of both peaks. The assumption of barriers of the Mott-Schottky type having a thickness around 10⁻⁴ cm., with a conen, of the activators around 10¹⁰ cm.⁻³, agrees best with the observed effects; a similar result is, however, obtained by assuming depletion-type barriers with which the Schottky-type barrier is connected. Quant. agreement with the measured time coasts. of decay re-fuires a conen. of the electrons around 10¹⁰ cm.⁻³, an elec. field in the barrier around 10¹⁰ cm.⁻³, an elec. field in the barrier around 10¹⁰ cm.⁻³, an elec. field in the barrier around 10¹⁰ y./.cm., lectron mobility of 2 × 10¹ cm.⁻¹ A. Kremheiler. 11.50

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CIA-RDP86-00513R001239

TITLE:

BERRY AND STREET

S/081/62/000/010/006/055 B158/B144

AUTHOR: Pátek, K.

A new procedure for growing ZnS single crystals by sublimation

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 10, 1962, 34, abstract 10B198 (Chekhosl. fiz. zh., v. B11, no. 9, 1961, 686-688)

TEXT: Defects in the method of growing ZnS or CdS single crystals under constant temperature growth conditions are shown, and a new method is suggested which uses a gradual variation in temperature conditions as the growth of the sample proceeds. The ZnS crystals are grown in a sealed ampoule, filled with H_2S at a pressure of 760 mm Hg, and placed in a special heater

with a heterogeneous temperature field. Vapors of the original substance in the ampoule are precipitated as crystalline particles in the colder part of the tube. This method differs from the usual procedure in that as crystal growth proceeds, the tube is slowly extracted from the heater; this improves the conditions for the formation of single crystals. The number of nuclei formed decreases. Conditions for sublimation of the initial Card 1/2

A new rocedure for growing ...

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mater. 1, which is continuously entering the sublimation zone, are improved, thus resulting in an intensification of the process. The zone of crustal growth extends; thus the crystal particles formed undergo less interaction with one another and are more homogeneous. The overall yield in crystals from one and the same quantity of initial substance rose by several times. The experimental data are: temperature in the sublimation zone: 1200°C; temperature in the growth zone: 1060°C; temperature gradient in the growth zone: 30°C/cm; rate of displacement of the ampoule: 1.25-3.25 mm/hour; guant by of criginal amorphous ZnS: 15 6; extent of growth zone: 70-100 mm; test period: 24-26 hours. The procedure described is primarily applicable for growing single crystals by sublimation. [Abstracter's note: Complete translation.]

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CIA-RDP86-00513R001239

DAMASKOVA, S.; PATEK, K.

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Displacement of the absorption border of ZnS-monocrystals in electric field. Acta phys Hung 14 no.2 3:127-130 162.

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1. Physikalisches Institut der Tschechoslowakischen Akademie der Wissenschaften, Prag, CSSR. Vorgelegt von G. Szigeti [Gyorgy Szigeti]

C/030/63/003/003/002/007 B185/B102

NERSEEDER: FIRE SA

AUTHORS: Hauptmanová, K., and Pátek, K.

TITLE: Measurements of the growth rates of ZnS single crystals grown from the vapor phase

PERIODICAL: Physica status solidi, v. 3, no. 3, 1963, 383 - 391

TEXT: The crystals were grown in an apparatus described earlier (Czech. J. Phys. B 12 (1962) 313) for which supplementary data are given here. At 1200°C and 760 mm Hg hydrogen sulfide pressure and a temperature gradient

of 30 deg cm⁻¹ the growth is characterized by simple whiskers which gradually widen to prismatic needles. At a temperature gradient of

45 degicm¹ the rates of growth are 3 - 10 times higher in all directions and the forms of growth are complicated: growing of plates on whiskers or needles and parasitic forms of crystallizations on whiskers. Sufficiently thin crystals show birefringence and appear completely homogeneous, probably because they are purely hexagonal, but the typical striated structure occurs when the temperature is lowered to 700°C. The heating of crystals by the resulting heat of crystallization and its effect on the rate of Card 1/2

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Measurements of the growth rates...
C/030/63/003/002/607 B185/B102
growth are discussed. The measured rates of growth of from 10⁻⁶ cm.sec⁻¹ perpendicular to the c-axis to 10⁻⁴ cm.sec⁻¹ in the direction of the c-axis are interpreted by the mechanism of two-dimensional nucleation or by that of dislocation. There are 4 figures and 2 tables.
ASSOCIATION: Physikalisches Institut der Tschechoslowakischen Akademie der Wissenschaften, Prng (Physics Institute of the Czechoslovakian Academy of Sciences, Prague)
SUBMITTED: December 11, 1962

KUBATOVA, J.; PATEK, K.

Microscopic examination of the electroluminescence of ZnS-Cu single crystals. Chekhosl fiz zhurnal 13 no.2:157-160 '63.

1. Fysikalni ustav, Ceskoslovenska akademie ved, Praha.

PATEK, Karel

Report on the session of the Scientific Committee of Physics in the second quarter of 1963. Cs cas fys 14 no. 1:73-74 *64.

 Tajemnik vedeckeho kolegia fysiky Ceskoslovenske akademie ved.



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和国际政策和中华的现在在的时候们的中国的1201月11日(1995)。42

PATEK, Karel

Meeting of the Scientific College for Physics of the Cechoslovak Academy of Sciences. Cs cas fys 13 no.3:260-261 '63.



PATEK, Karel, SPISEK, Milan

的复数形式和国际和中国和国际的运行学习。

The Explorer 22 satellite. Cs cas fys 15 no.2:182-185 (65.

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1. Institute of Physics of the Czechoslovak Academy of Sciences, Prague (for Patek). 2. Faculty of Mechanical Engineering of the Czech Higher School of Technology, Prague. Submitted November 30, 1964.

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ACCESSION NR: AP5012371 CE/0030/65/009/002/0525/0337	
AUTHOR: Hauptmanova, K.; Pantoflicek, J.; Patek, K.	
TITLE: Absorption and fluorescence of the Nd ³⁺ ion in silicate glass	
SOURCE: Physica status solidi, v. 9, no. 2, 1965, 525-537	
TOPIC TAGS: rare earth optical property, Nd fluorescence, glass absorption spectra, glass emission spectra, glass quantum yield, glass laser	
ABSTRACT: A study is made of the absorption and emission spectra, quantum yield, and fluorescence decay in three series of glasses: 1) basic glasses, generally	
with constant Nd_2O_3 concentration; 2) the same basic glass (barium crown glass) but with varying Nd_2O_3 concentration; and 3) glass with varying mono- and divalent metal ions and constant Nd_2O_3 concentration. A systematic decrease of the splitting	
of the ground level "I 9/2 with the Nd concentration was evident. This dependence was not observed for other lines, and no reasonable explanation could be found for	
this discrepancy. Ba^{++} was found to be the optimal divalent ion for use as the following element in the series $Ca^{++} \rightarrow Sr^{++} \rightarrow Ba^{++}$. The Nd^{3+} -Nd ³⁺ interaction,	
which leads to the change of transition probabilities $q(r)$, is interesting from the standpoint of the distances at which the interaction begins to work. At a $Nd^{3+}-Nd^{3+}$	
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