

201/19-59-1-101/191

5(1)

AUTHOR:

Maslov V.N.

TITLE:

THE LOW A Method of Chromatographic Separation of Sub-

stances

FERIODICAL:

Byulleten' izobret ny, 1989, No 1, r 28-29 (USSR)

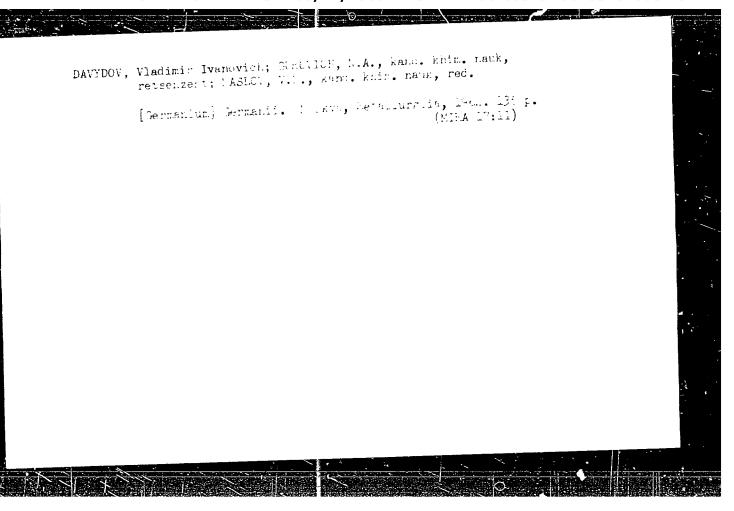
ABSTRACT:

Class 23b, 1₀₂. No 117147 (576605/4864 of 6 January

1956). Submitted to the Ministry of Chemical Industry in the USDR. Mashing out the different substances with the use of washing solutions; cutting the duration of the separation process by feeding the washing solution into the column through porous or perforated walls and with a varying filtration level.

Card 1/1

CIA-RDP86-00513R001032810001-5" **APPROVED FOR RELEASE: 06/14/2000**



APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810001-5"

57545465 EMA(k)/FRD/EWG(r)/EWT(1)/ENT(n)/EEC C(5)=2/EWF(k)/EWP(b)/EWA(m)=2/EWA(h) Pf=4/PI LJP(c) WG/JD/JG CCESSION NII: AP501/1613	UR/0181/65/007/006/1902/1904	
TWOR: Basov, N. G.; Yellseyev, P. G.; Nikitir	n, V. V.; Lishina, A. V.; Maslov,	
Rijn shel'skiy, A. Ya.	79	
TLE: A 6 30 conflictor GaAs 1-xPx Junction lases	エル 78 38	
URCE: Fizika sverdogo tela, v. 7, no. 6, 196	5, 1902-1904 A	
OPIC TAGS: Laser, semiconductor laser, junction lated emission, gallium trsenide, gallium phoses and property and gallium phoses and gallium phose	er operating at 77K is iescribed. 0.15 was prepared by epitaxial knowth at a depth of 26 µ b; diffusing sinc wafer of GaAs _{0.85} P _{0.15} . Coherent current density of 5900 amp/cm ² . The contract density was attri-	

CESSION NR: AP5014611 SOCIATION: Fizicheskiy inst	oitut im. P. N. Lebedeva	AN SSSR, Moscow (Physics	
stitute,AN SSSR) BMITTED: 28Jan65	encl: 00 other: ool	SUB CODE: SS ATD PRESS: 4037	
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EWT(1)/EWT(m)/EWP(1)/. (.)/EWP(b) IJP(c) L 3593-66 UR/0070/65/010/005/0758/076 ACCESSION NR: AP5024566 548.522 AUTHOR: Maslov, V. N.; Shaforostov, M. P. TITLE: Growth of doped acicular and filamentary gallium phosphide crystals from the gaseous phase SOURCE: Kristallografiya, v. 10, no. 5, 1965, 758-760 TOPIC TAGS: gallium compound, phosphide, acicular crystal, semiconductor crystal, crystal growth ABSTRACT: The simplest equipment for growing doped acicular and ribbon-filament crystals of gallium phosphide from the gaseous phase consists of a two-zone furnace (with a temperature of 1100-12000 in the reaction zone and 400-5000 in the NLOSphorus heating zone) and a quartz tube 100 mm in diameter in the reaction zone and 25 mm in diameter in the phosphorus heating zone. A quartz crucible is placed in the reaction zone with a 20-30 gram charge consisting of a mixture of metallic gallium with gallium oxide in a 3:1 ratio. A quartz boat is charged with 4-6 grams of red phosphorus. The phosphorus vapor is carried by a stream of pure argon to react with gallium suboxide vapor formed by the reaction Ga₂O₃ + 4Ga → 3Ga₂O, Ca d 1/3

L 3593-66 ACCESSION NR: AP5024566 Transparent yellow-orange acicular and ribbon-filament crystals 2-6 cm long are grown on the sides of the crucible in 2-3 hours. Since reaction products are removed from the surface of the charge by the argon stream, there is no chance of a tough surface crust of gallium phosphide preventing the evaporation of the gallium suboxide. Chemical and spectral analysis show that the impurity content in the non-doped crystals is no greater than the impurity concentration in the initial reagents. Sulfur, zinc and tellurium were used as dopants. Sulfur changes the shape of the crystals as well as the electrical and physical parameters. When 70 mg of sulfur is added to 5 g of phosphorus, 100% formation of ribbon filaments results. Zinc was introduced by adding zinc oxide to the gallium charge in the crucible, since addition of zinc to the phosphorus resulted in growth impairment and change in crystal color to grayish-orange. A third heating zone was added to the furnace for doping with tellurium. This doping method is more convenient than the other two since the impurity content can be controlled over a wide range. This method was used for producing n-ty e crystals of gallium phosphide with carrier concentrations from 1015 to 10¹⁷ cm⁻³. However, the dopant content in the crystals is not a single-valued function of the tellurium vapor pressure corresponding to the temperature in the tellurium heating zone. An increase in the temperature in the phosphorus zone reduces the charge carrier concentration i the crystals. The temperature in the reaction zone also has a definite effect or the impurity concentration. High dopant concentra-Card 2/3

3593-66			
CCESSION NR: AP5024566		4	
ions cause imperfections in s finished crystals, althougaxial layers of gailium phosert, has: 3 figures, 2 form	the crystals which make them they make good starting mate sphide with the use of gas trailes.	useless for applications terial for producing epi- ansport reactions. Orig.	•
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SSOCIATION: Gosudarstvenny, cometallicheskoy promyshlenno institute of the Rare Metals SUBMITTED: 30Dec64	Industry) 1 14 5		٠
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ometallicheskoy promyshiennonstitute of the Rare Metals UBMITTED: 30Dec64	Industry) 1 44 5 ENCL: 00 OTHER: 001	SUB CODE: SS ATD PRESS:4114	

JD/GG EWT(1)/EWT(m)/EWP(i)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) L 3075-66 UR/0020/65/163/001/0076/0078 AP5018077 ACCESSION MR: AUTHOR: D'yakonov, L. I.; Maslov, V. N.; Sakharov, B. A. 63. TITLE: Epitaxial growing of single-crystal gallium phosphide SOURCE: AN SSSR. Doklady, v. 163, no. 1, 1965, 76-78 TOPIC TAGS: epitaxial growing, gallium compound, semiconducting material ABSTRACT: The purpose of the investigation was to check on the applicability of the sandwich method (E. Sirtl, J. Phys. Chem. Solids v. 24, no. 11, 1285, 1963) to the production of large plate-like gallium phosphide single crystals, and to investigate the main factors influencing the growth rate and the quality of the epitaxial layers. The epitaxial growing was by means of the gas-transport reaction with water vapor $4GaP + 2H_00 \approx 2Ga_00 + P_4 + 2H_2$ using needle-like single crystals obtained from the gas phase by interaction between phosphorus vapor and gallium monoxide in an argon stream. The details of the

tween phosphorus vapor and gallium monoxide in an argon stream. The details of the growth procedure are described. Samples up to 700 μ thick were grown in 70 hours at a rate which started at 30-40 μ /hr and slowed down to 7--15 μ /hr. The presence of moisture hindered the epitaxial growth by causing oxidation of the substrate surface. The morphology of the epitaxial layers depends on the orientation of the

Card 1/2

L 3075-66

ACCESSION NR: AP5018077

surface and on the perfection of the substrate crystal structure. The best results were obtained on substrates with ($\overline{111}$) orientation. Although the Delye pattern of the epitaxially grown single crystals indicates the presence of only one phase in the sample, the presence of several per cent of gallium arsenide impurity has been noticed. Although the content of this impurity can be reduced by lowering the substrate temperature, this leads to a deterioration of the photoluminescent and electroluminescent properties of the sample. The gallium phosphide obtained had n-type conductivity, with carrier density 10^{18} - 10^{18} cm⁻³, carrier mobility 11^4 cm^{-/}v-sec at density 2 x 10^{17} cm⁻³, and resistivity 0.2 ohm-cm at room temperature, with a gallium arsenide content of 6 mol. 6. This report was presented by N. P. Sazhin. Orig. art. has: 2 figures and 1 formula.

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut redkometallicheskoy promyshlennosti (State Scientific-Research and Design Institute of the Rare-Metal Industry)

SUBMITTED: 23Dec64

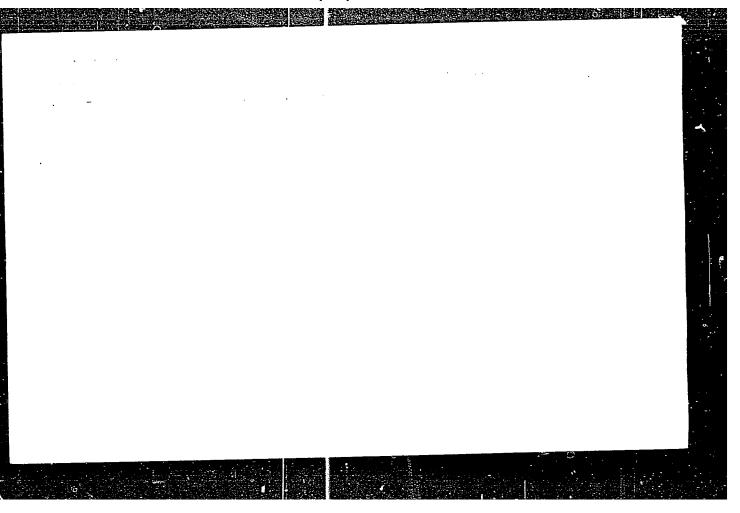
ENCL: 00

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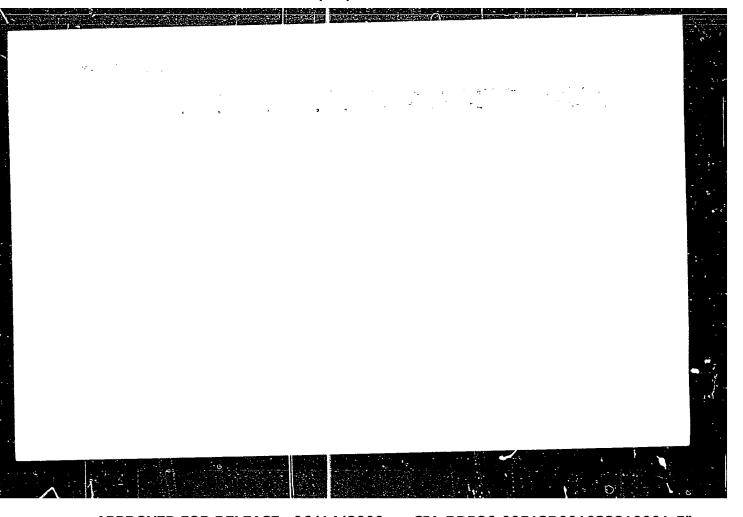
NR REF SOV: 002

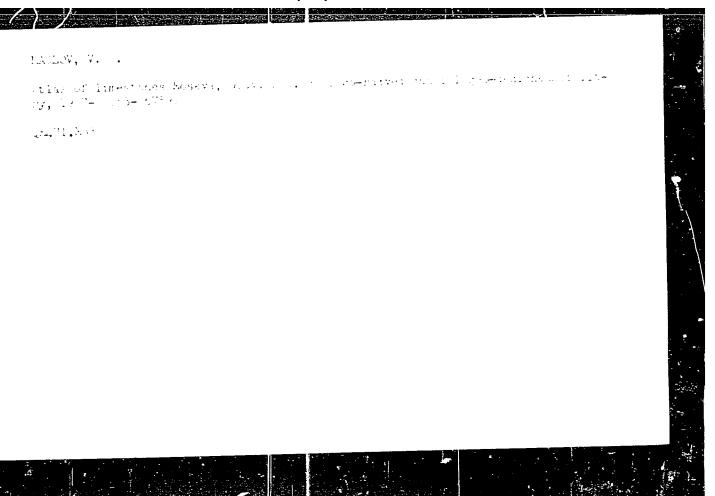
OTHER: 009

Card 2/2

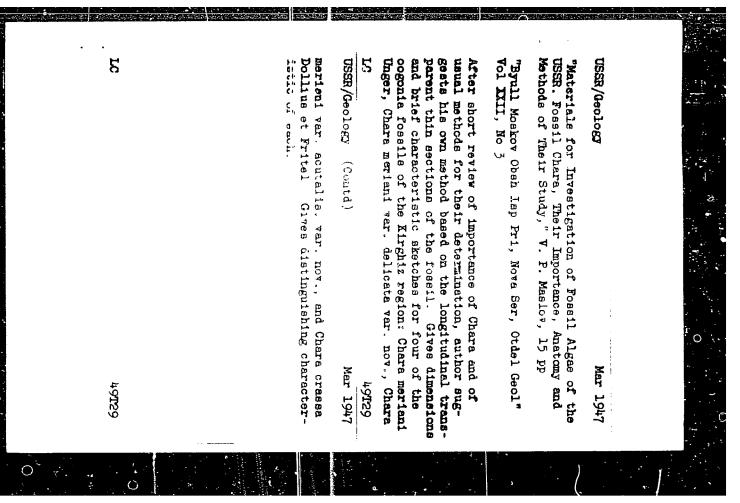


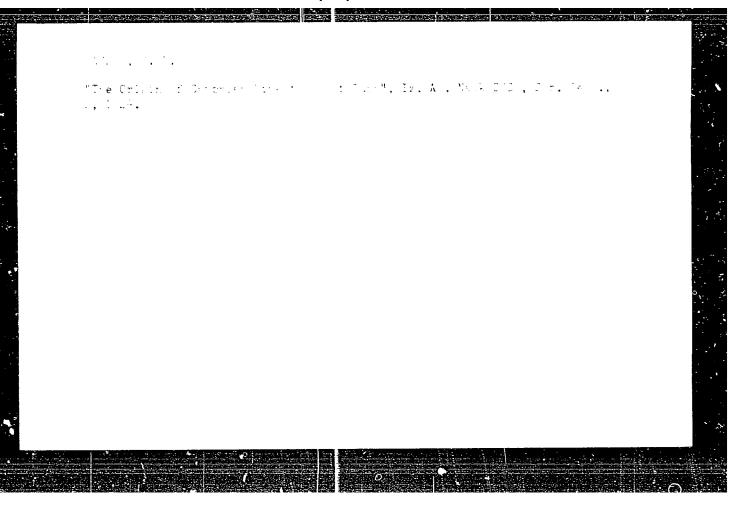
APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810001-5"

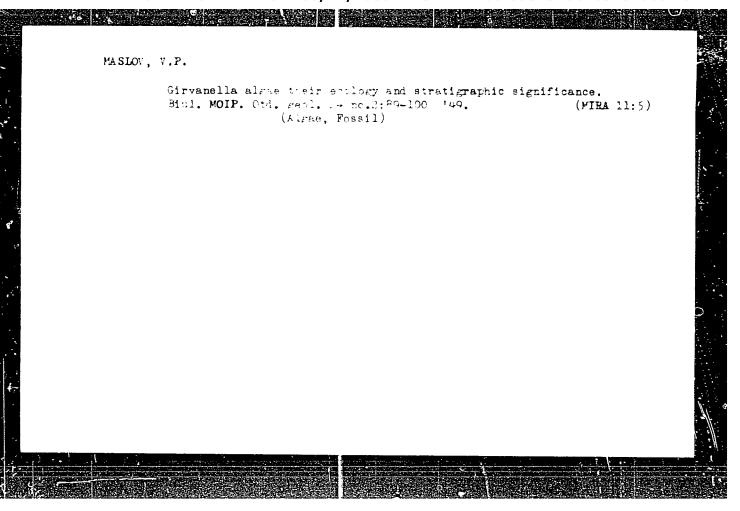


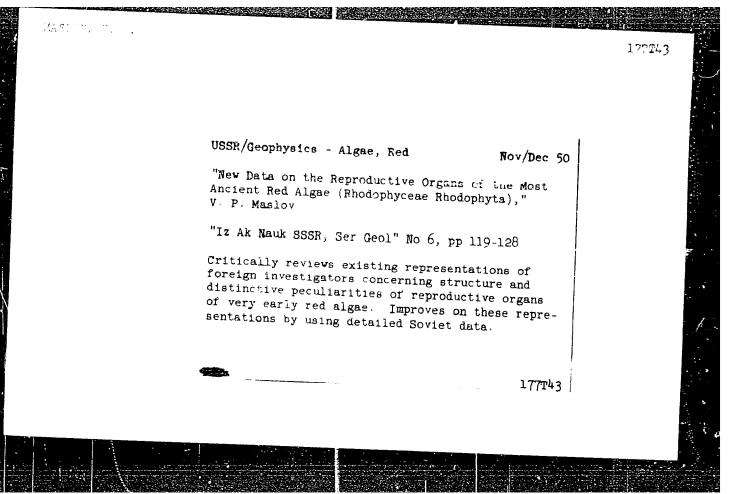


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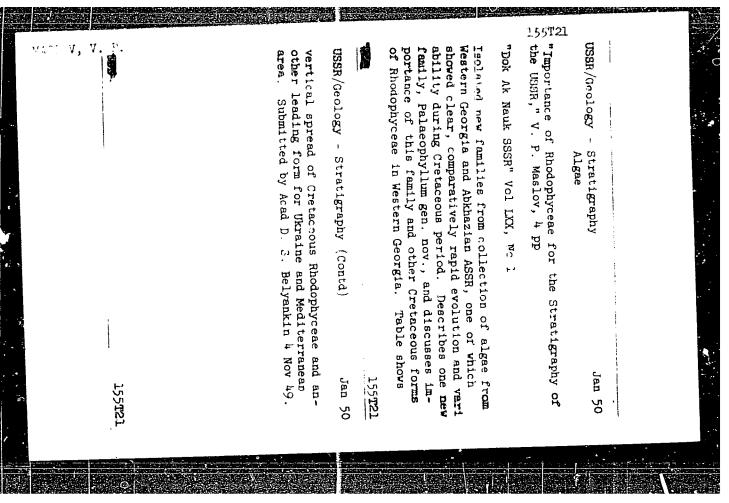


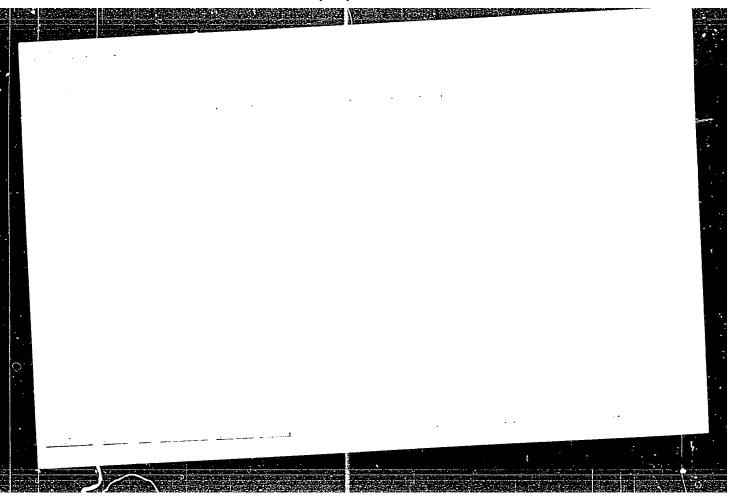




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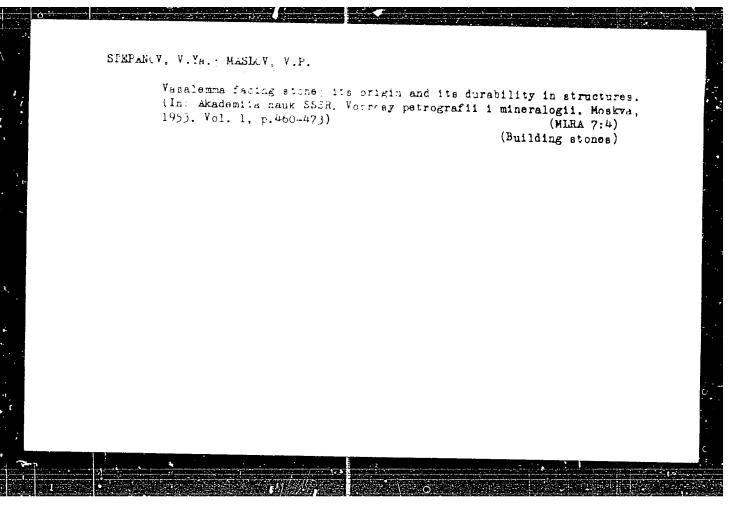


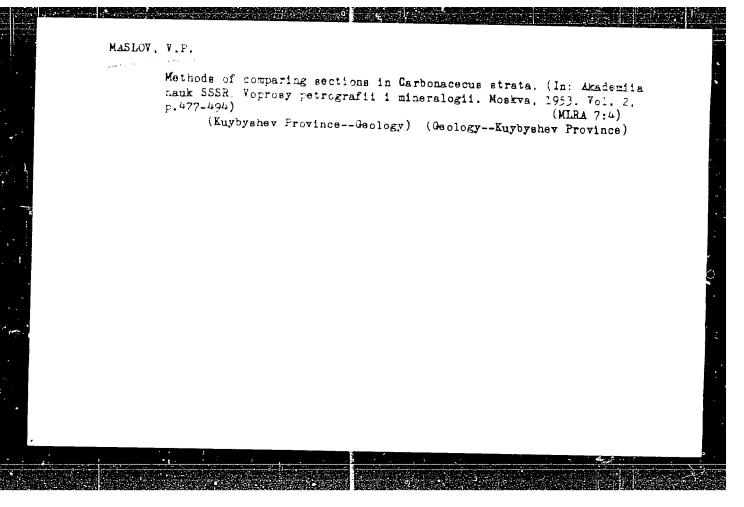
APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032810001-5"

USSR/Geophysics - East Siberia May/Jun 52 "Does an Interruption Exist Between Middle Cambrian	· ·
and verkholensk Formations in Eastern Siberia?" V.P. Maslov	:
"Iz Ak Nauk, Ser Geolog" No 3, pr 9%-100	. •
Discusses controversial opinions on the connection between carbonate Cambrian and red Verkholensk formation in eastern Siberia. Establishes existence of stratigraphic interruption between these eras.	
22~764	3.

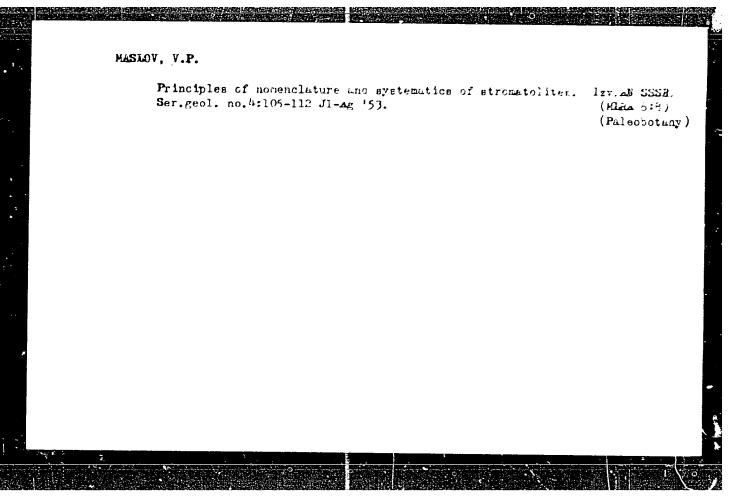
- 1. MASLOV, V. P.
- 2. USSR (600)
- 4. Concretions
- 7. Carbonaceous nodules of organic origin. Biul. MOIF. Otd. geol. 27. No. 4. 1952.

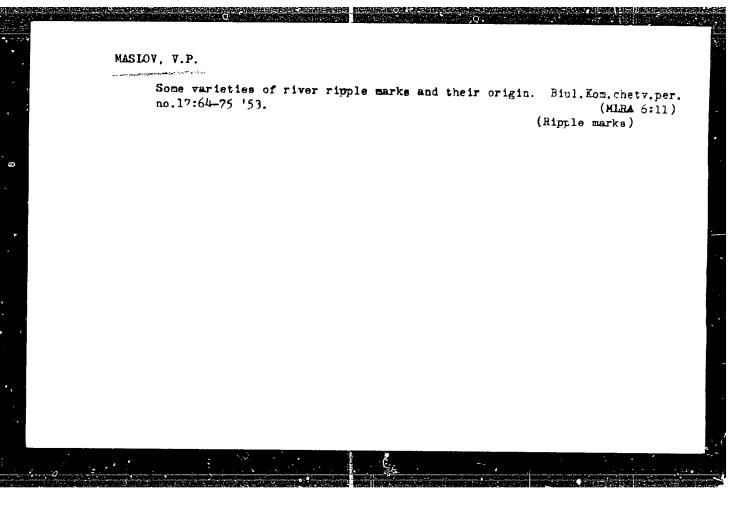
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.





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•	Kerman ditensi (n. 1808). Na eta era era dibi era eta era era era en ena era era era era era era era era era e Assorna di esta, fizzal era esta esta era era era era era era era era era er





15-57-5-5759

Translation from: Referatively churcal, Beologiya, 1957, Nr 8, p 6 (MSDR)

Maslov, V. P. ATTMIECE:

Lower Silinian of Eastern Siteria (O niznnem silure TITLE:

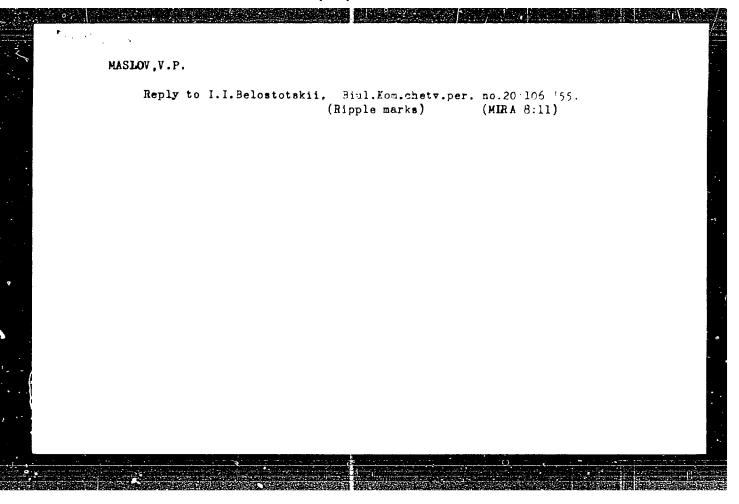
Wostochnoy 31tt ri)

PERIODIDAL: V st: Vermasy reclosii Azli. Vol 1, Moscow, Izd-vo

AN BOSE, 1864, pp 486-880.

Pilli praptic entry APSTRAIT:

Jard 1 1



MASLOY, V. P.

USER/Geology - Paleontology

Gard 1/1

Pub. 22 - 46/53

Arthora

Maslov, V. P.

Title

New type of purple seaweeds from the Danish stratum of the Caucasus

Periodical

Dok, AN SSSR 102/4, 827-829, Jun 1, 1955

Abstract

Scientific data are presented on a new type of seaweeds of the floridae class extracted from the Danish stratum of Abkazia and western Georgia bordering with the Caucasus. Two USSR references (1950). Drawing.

Institution :

....

Presented by :

Academician N. M. Strakhov, March 29, 1955

MASLOW, V. P.

USSR/ Geology - Paleontology

Pub. 22 - 39/46 Card 1/1

Authors Maslov, V. P.

New forms of Tertiary period seaweeds Title

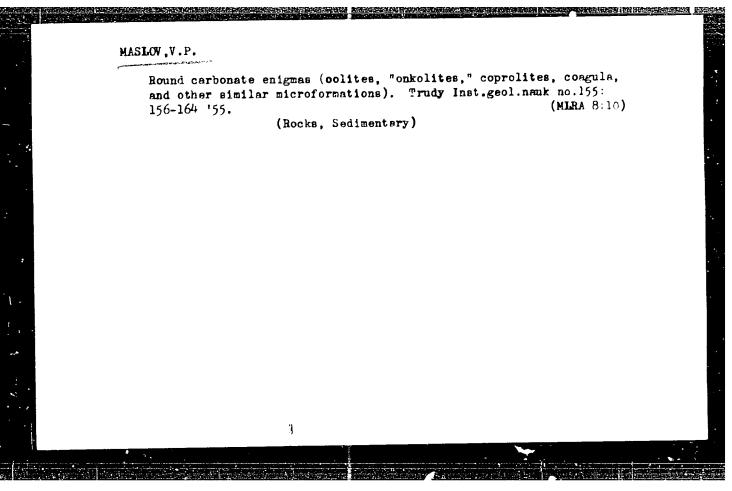
Dok. AN SSSR 103/1, 145-148, Jul 1, 1955 Periodical :

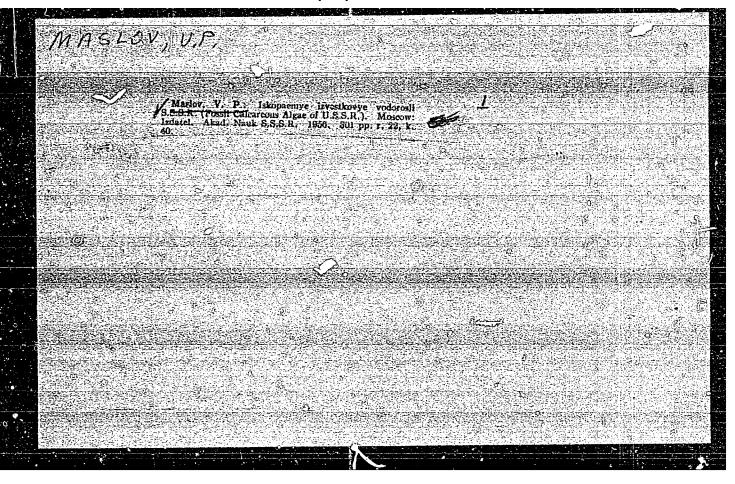
Paleontological data are given on the new form of Tertiary period seaweeds discovered in southern USSR. One USSR references (1950). abstract

Drawings.

Institution:

Presented by: Academician N. M. Strakhov, March 29, 1955





MASLOV, V.P.

Intervals in sedimentary deposits in Cambrian and Silurian variegated series of the southern Siverian Platform. Izv.AN SSSR. Ser.geol. 21 no.6:31-46 Je '56. (MIRA 9:10)

1. Geologicheskiy insitut Akademii nauk SSSR, Moskva. (Siberian Platform-Geology, Stratigraphic)

MASLOV V.P.

NSSR/ Geology - Paleontology

Card 1/1

Pub. 22 - 33/43

Authors

Maslov, V. P., and Kulik, Ye. L.

Title

New kind of seaweed (Bereselleae) from the carbon of the USSR

Periodical

Dok. AN SSSR 106/1, 126-129, Jan 1, 1956

Abstract

Geological-paleontological data are presented on a new type of Bereselleae seaweeds presumably originated during the Carboniferous period of the USSR. Four references: 3 USSR and 1 Germ. (1893-1951). Drawings.

Institution:

Presented by: Academician N. M. Strakhov, July 20, 1955

On a new fessil family of Red Algae and two new genera of Bluegreen Algae from the Carboniferous. Dokl.AN SSSR 107 no.1:151-154 Nr '56. (NIRA 9:7) 1. Institut geologicheskikh nauk Akademii nauk SSSR. Predstavleno akademikom N.M.Strakhovym. (Algae, Possil)

MASLOV, V.P.

New Devonian red algae from the Euznetsk Basin and the evolution of Corallinaceae. Dokl. AN SSSR 110 no.2:280-283 S *56. (MLRA 9:12)

1. Geologicheskiy institut Akademii nauk SSSR. Predstavleno akademikom N.M. Strakhovym.

(Kuznetsk Basin--Algae, Fossil)

AUTHOR TITLE MASLOV, V.P.,

A Contribution to the Problem of Classification and Phylogenesis

of Charephytes.

(K vopresu o klassifikatsii i filogenii kharofitov - Russian) Dehlady Akademii Nauk SSSR, 1957, Vel 113, Nr 3, pp 678-680.

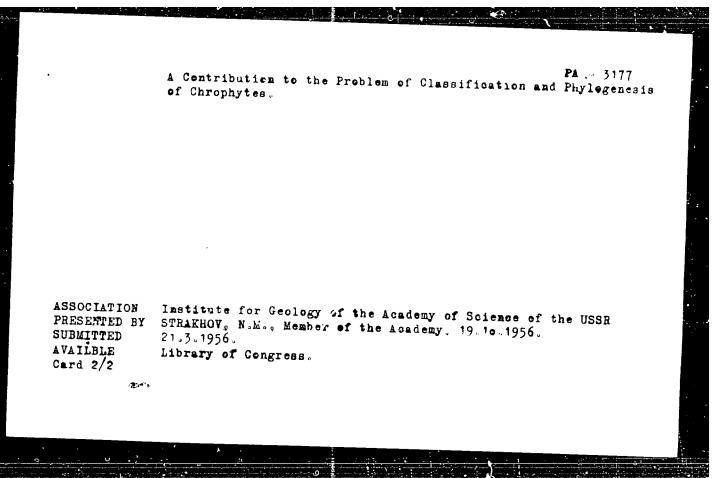
PERIODICAL Dehlady Akademi (U.S.S.R.)
Receive 6/1957

Reviewed 7/1957

ABSTRACT

A survey of the charophytae still existing and those which are existinct is given. From this we see what an important part the fessions of this type have played and how few groups of them are still extant. A hypothesis on the commection of the great groups of charophytae in the past is given. In the Cambrium or in the Ordovia there were two orders: the Sycidiales and the Trochliscales. Another group branched off from the sycidiales in the Devon which represents a transition to the charales and is possibly related to the Atopocharaces. This latter group maintained its existance as a fessil of this transition group to the real Charophytae which is unknown to us. The development of the Charales began in the Paleozoic age and reached its climax in the Mesozoic and Kanooic ages. Another period of the Chrophytae began with the Perm and reached its climax in the Tertiary. A number of kinds became extinct at the end of the Tertiary. (With 1 illustration)

Card 1/2



20-2-51/60

AUTHOR:

Maslov, V. P.

TITLE:

A New Reproductive Organ of a Devonian Plant

(Novyy organ razmnozheniya devonskogo rasteniya)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr. J. Pr. 417 319

(USSR)

ABSTRACT:

Since spores of highly organized plants were found in the Lower Paleozoicum it has become probable that there exist terrestrial plants which are more nighly organized than the Psilophytes are in the Devonian and earlier. Some authors draw the conclusion that terrestrial woods existed already in the pre-Cambrian period. Without taking a stand on this conclusion, the paper under review discusses a sample found in Devonian calcareous rocks from the Russian plate (Starcbin, Bobruysk Oblast, Belorussian SSR, depth 743-735 m). The stone consisted of carbonate shallow-water rock with admixture of clay and rests of Algae. In one of the polishes a longitudinal section of a formation has been found which may be considered as a propagation organ of a plant (figure)

Card 1/3

20-2-51/60

A New Reproductive Organ of a Devonian Plant

Nr 1 - 3 of the paper under revise). The organic remainder is a clear yellowish carbonated envelope of cigar snape. tapering towards the top and blunt at the base. On the ter there is a dense fringe of bristles with preserved cellular structure. At both ends of the bag there are pores which are linking its interior cavity with the surrounding medium. The central part of the inner surface has round protuberances. The length of the entire bag amounts to 3.5 mm. The author of the present paper suggests for the above structure the name Hirsutocarpon extensum gen. et erro. nov. . The exterior shape of the bag resembles the megasperophyll genus Lepidecarpon from the Carboniferous of Engla.d, but differs in its inner structure and also in its having ristles. Bristles and a similar shape of the external envelope are known to occur in Miadesmia membranecea C. Bertrand, again from the Carboniferous of England. The difference lies in the inner structure of, and in the presence of several envelopes in the English form. Both of the above species belong to the class of Lyopodiales, group of Lepidospermae. As the author of the paper under review is not in a position to identify this generative organ with the vegetative parts of any fossil plant species described before, he places it presumptively with the

Card 2/3

A New Reproductive Organ of a Devonian Plant

Lycopodiaceae. It remains unclear whether the rank in the berances in the interior are separate upores or uporally which, after having matured, seemed towards the extent of If this assumption is correct, we must consider the structure as a sporangiophor and not as a negaspersphyriate of the transdescribed above is sufficiently complicated in order to the considered as a more highly organized plant that the Devit an Psilophyts. There are 3 figures, and 2 references

ASSOCIATION: Geological Institute AS USSR (Jeologicaleskiy institut

Akademii nauk SSSR)

PRESENTED:

February 19, 1967, by N. M. Strakhov Member . the costens

SUBMITTED:

February 8, 1,57

AVAILABLE:

Library of Congress

Card 3/3

CIA-RDP86-00513R001032810001-5" APPROVED FOR RELEASE: 06/14/2000

MASIDT, W. P., (Candidate of leological and uneralogical defences)

"Calcureous Possil Airse of the Lood"

for this work author recoived award by the Adalery of Schemes of the Loon, in a Priroda, No. 2, 1756. pp. 113-111.

AUTHORS: Maslov, V.P., Etrobin, V.N. SOV/11-68-12-7/16

TITLE: The Expansion of Red Algae of the Tertiary Period or the

Territory of the Ukrainian SSR, and Their Correlation with Sea Transgressions (Rasprostraneniye tretichnykh bagryanykh vodorosley Ukrainskoy SSR i svyat' ikh s transgressiyami

morya)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1058,

Nr 12, pp 73-93 (V35E)

ABSTRACT: The article gives an exhaustive geological survey of different parts of the Ukrairian SSR where the Tertiary calcareous red

algae (Rhodophyceae) has been found. This strvey showed that at the Tortonian (Epper Miocene) stage a shallow sea covered the plateau parts of the Ekraine, and the expansion of the red algae corresponded to definite stages of the development of these sea basins. The following Soviet geologists are mentioned by the author: V.G. Morozova, A.S. Moyseyev, V.N. Utrobin, L.V. Linetskaya, L.B. Bashkirov, C.S. Vyalov, E.F. Zhizhchenko, V.P. Kozakova, M.Ya. Serova, L.N. Kudrina, V.F.

Livental', A.A. Rogdanova, V.V. Glushko, L.S. Fishvanova,

Card 1/2 G.1. Molyavko, P.F. Naydin and V.P. Maslov.

3CV/11-58-12-7/15

'The Expansion of Red Algae of the Tertiamy Period on the Territory of the Ukrainian SSR, and Their Correlation with Sea Transgressions

There are 7 maps, 2 profiles, 1 scheme, 1 table and 29 references, 18 of which are Soviet, 9 Polish and 2 Austrian

ASSOCIATION: Deologicheskiy institut AN SSSR, Moskva (The Geological Institute

the AS USSE, Moscow)

MINISTER ARESCENDED

Livovskaya e speditsiya Ukrneftegazrazvedki (The U vov Ex-

pedition of the Ukrneftegazrazvedka

SUBMITTED: August 21, 1957

Card 2/2

sov/20-121-2-43/53 Maslov, V. P. AUTHOR: New Finds of Algae in the Jurassic Formation of the Crimea TITLE: (Novyye nakhodki vodorosley v yure Kryma) Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 2, pp. 354-357 PERIODICAL: (USSR) Since the collection of the soleropores and linoporelles in ABSTRACT: the Jurassic limestone of the Krym-Yayla (Krymskaya Yayla) there have been no data on new types of algae in this area. Only recently V. F. Pchelintsev and N. P. Kyansep mentioned a farther spreading of the solenopores. The author found interesting Siphonea of the Upper Jurassic in the western Yayla They belong to the type CHLOROPHYTA, class ISOCCN-TAE, order SIPHONALES, family Dasycladadeae, genus Actinoporella Alth., 1882. Act. (?) krymensis sp.nov. Figure 1 a - d, and 2 g. A description of this new type is given. Distribution: Karabi-Yayla. Genus Triplophorella Steinmann, 1880, Tripl. karabiensis sp.nov. Figure 1 ye and 2 ye, zh. Munieria Deecke, 1983. Mun. baconica Deecke, 1883. Distribution: limestone in the Yayla. Furthermore Actinoporella sp. and Solenophora sp. which could not be determined to the genus, as well as rests of sev-Card 1/2

SOV/20-121-2-47/53

New Finds of Algae in the Jurassic Formation of the Crimea

eral types of Coscinoconus Leupold were found. The facial binding of Actinoporella krymensis and Munieria baconica seems to indicate polymorphous limestones from deeper water (not deeper than 50 m). Triplophorella karabiensis and Solenophora sp. were found in coarse detritus limestone, i.e. in a facies of the shallow water near to the roef or shore. There are 2 figures and 3 references, 0 of which are Soviet.

ASSOCIATION:

Geologicheskiy institut Akademii nauk SSSR (Geological Institute AS 1888)

stitute, AS USSR)

PRESENTED:

March 4, 1958, by N. S. Shatskiy, Member, Academy of

Sciences, USSR

SUBMITTED:

February 28, 1958

Card 2/2

AUTHOR:

Maslov, V P

SOV/20-121-3-41/47

ENGINEERING TO THE PROPERTY OF THE PROPERTY OF

TITLE:

A Found of the Genus Coscinoconus Leupold in the Jurassic of the Crimea and the Real Nature of This Genus (Nakhodka v Yure Kryma roda Coscinoconus Leupold i yego istinnaya priroda)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 3,

pp. 545 - 548 (USSR)

ABSTRACT:

In 1935 Loupold found the remnants of the organisms mentioned in the title in Switzerland and called them foraminifera (Ref 3). There was no definite decision on the position of this organism in the system (Refs 1,2.5-7) The author investigated Coscinoconus remnants found by L. G.Reznikova in the Kimeridgian stage of the Crimea-Yayla (Krymskaya Yayla). The author succeeded in finding Leupold's opinion wrong as well as his methods of description. The author gives a new description of the genus which he classifies among the type Chlorophyta, class Isocontae, order Siphonales, family Dasycladaceae, Tribus Acetabularieae(?). In 1935 the author described the type Coscinoconus alpinus Leupoll (Fig 1b) as organs of reproduction of the whorl-like, siphona-like algae. The very tative parts remain unknown. 6 new Coscinoconus types were further described: C.fusiformis spanov.

card 1/2

A Found of the Genus Coscinoconus Leupeld in the SOV/20-121-3-41/47 Jurascic of the Crimea and the Real Hature of This Genus

(Figs 1a.2a,3b) from Karabi-Yayla and Aypetri-Yayla (Aypetrins-kaya yayla); C conicus sp. nov. (Figs 2b,3d), Karabi-Yayla; Cheremoch- and Rybnitsa river, northern slope of the Carpathians (severnyy sklon Karpat), material by L.V.Linetskaya; C.minutus sp.nov. (Fig 3a) from Ay-Petri; C.oblongus sp.nov. (Figs 2v,3v) from Ay-Petri; C_pagodaeformis (Figs 2g,3g) from Karabi-Yayla; C.assymetricus sp.nov from Karabi-Yayla. At the end of the paper the position in the system and the distribution of the mentioned types are discussed. There are 3 froures and 7 references, 1 of which as Soviet.

ASSOCIATION: Geologicheskiy institut Akademii nauk SSSR (Institute of Geo-

logy, AS USSR)

PRESENTED: March 4, 1958, by N S. Shatskiy, Member, Academy of Sciences,

USSR

SUBMITTED: February 28. 1958

Card 2, 2

MASLOV, v.P.

Lime algae as indicators of factors governing the formation of sediments. Sov.geol. 2 no.12:126-128 D '59. (MRA 13:5) (Algae, Possil) (Geology, Stratigraphic)

3(5) AUTHOR:

Maslov, V. P.

SOV/20-125-1-36, 61

TITLE:

Stromatoliths and Facies (Stromatolity i fatsii)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 5, pp 1085-1088

(USSR)

ABSTRACT:

Stromatoliths are the only widely distributed organic forms of the Precambrian. Not until the last decade have several directional methods of description, nomenclature and classification stood out: 1) the paleontologic direction (Refs 1-3). Definite stromatolich genera, which are assigned to the Cyanophyceae, are described here. 2) "botanical" direction (Refs 4,5), in which the microstructures of the stromatoliths are considered as comparable with those of the recent Phaeophyceae and Cyanophyceae families, however, the exterior form remained unnoticed. 3) lithologic paleontologic direction (Ref 6); the micro- and macrostructures are considered to be forms of complex origin. They are classified according to a special morphologic system, which deviates from the biologic system. The traces of algae and animals are discussed separately. 4) lithologic direction (Ref 7 and others). No special names are given to the stromatoliths or their

Card 1/4

Stromatoliths and Facies

SOV/20-125-5-36/61

structures. Their systematic is formed on the basis of the exterior form and the character of the stratification. Further treatment occurs in the present work according to standpoint 3. This multiplicity of conceptions goes back to the complex genesis of the stromatoliths. Various complexes of primitive algae took part in their formation, depending on the salt content of the water, the quantity of terrigenous material deposited, depth of the water, strength of water movement (currents and surf) and further, origins unexplained for the time being (eg. pH). Further, the presumed living conditions of the stromatoliths and the formation of onkoliths and ooliths are portrayed. The stromatoliths are more closely connected with the sedimentation than with the petrographic composition of the sediment. The familiar standpoint that the stromatoliths are involved in the life activity of primitive algae does not always explain the formation of some structures which occur in them. The experiments of V. O. Kalinerko (Ref 9) have shown that the bacterial factor of the carbonate deficiency may not be neglected. The bacterial colonies are able to change the acidity of the ster locally. Thus, under favorable circumstances,

Card 2/4

Stromatoliths and Facies

SOV/20-125-5-36/61

microscopic spheres and grains are deposited within the colony. All of these methods of deposition, including carbonate sedimentation by algae, are closely related to the environmental conditions. The optimum conditions for the growth of the stromatoliths suggest the boundary between sea water und fresh water or the transformation of sea water into a brackish water lagoon along with the otherwise necessary conditions mentioned. All of the factors acting on the stromatoliths are closely connected with facies. The algae and bacteria could be replaced by others in the course o' geological time. The sedimentation conditions were also changed. Perhaps the stromatoliths will be helpful in understanding these transformations. Thus the conclusion is drawn that the study of the stromatoliths as the result of sedimentation and as a guiding stratigraphic index is very complicated. There are 11 references, 6 of which are Soviet.

Card 3/4

Stromatoliths and Facies

SOV/20-125-5-36/61

ASSOCIATION:

Geologicheskiy institut Akademii nauk SSSR (Geological

Institute of the Academy of Sciences, USSR)

PRESENTED:

December 31, 1958, by N. S. Shatskiy, Academician

SUBMITTED:

December 25, 1958

Card 4/4

MASLOV, Vladimir Petrovich; SHATSKIY, N.S., akademik, glavnyy red.; VAKHRAMEYEV, V.A., otv.red.; ZELENOV, K.K., otv.red.; II'INA, N.S., red.izd-va; KUZ'MIN, I.F., tekhn.red.

[Stromatolites; their genesis, method of study, relation with facies, and geological significance, based on studies of Ordovician deposits of the Siberian Platform] Stromatolity; ikh genezis, metod izucheniia, sviaz's fatsi ami i geologicheskol znachenie na primere ordovika Sibirskoi platformy. Moskva, Izdva Akad. nauk SSSR, 1960. 186 p. (Akademiia nauk SSSR. cogicheskii institut. Trudy, no. 41) (MIRA 14:2) (Siberian Ratform—Stromatolites)

MASLOV, V.P.

Acicularia and their significance for the stratigraphy of the U.S.S.R. Paleont.shur. no.3:115-122 '60. (MLMA 13:10)

1. Geologicheskiy institut Akademii nauk SSSR. (Algas, Fossil)

VYALOV, O.S. (SSSR); MASLOV, V.P. (SSSR); WDOWIARZ, St. (Poleka);
OLENICZ, Z.R. (Poleka); NOVAK, V. (Pol'sha); SLAVIH, V.I. (SSSR)
MASLAKOVA, N.I. (SSSR); VYALOV, O.S. (SSSR); EMERZIN, A.G. (SSSR)
BONDARCHUK, V.G. (SSSR)

Participation in discussions. Mat.Kerp.-Balk.assots. no.3:157179 '60. (Carpathian Mountains—Geology)

MASLOV, V.P.

Microscope object holder (system MD-1). izv. AN SSSR. Ser. geol. 25 no.9:113-115 S '60. (MIRA 13:9)

1. Geologicheskiy institut AN SSSR, Moskva. (Microscopy)

MASION. U.P. Coprolites and traces of boring organisms and their significance for lithologists. Izv. AN SSSR. Ser. geol. 25 no. 10:81-86 0 '60. (MIRA 13:10) 1. Geologicneskiy institut AN SSSR, Moskva. (Coprolite)

3 (5) AUTHORS:

Zhuk-Pochekutov, K. A., Maslov, V. P. SOV/20-130-1-40/69

TITLE:

Problems Regarding Graphite From the Botogol'skiy Mountain (East Sayan)

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 1, pp 140-142 (USSR)

ABSTRACT:

Considerable deposits of high-quality graphite are known to occur in the alkaline Botogol'skiy massif . Praphite occurs almost in all rocks, but the bulk of large graphite bodies is concentrated in the northern part of the massif and is bound to leucocrate-nerheline-syenites and to alkaline and nepheline-pyroxene-syenites. Large individual granite bodies are bedded in limestones or in their contact areas. Graphite either is dispersed in rocks or forms little pockets and roundish or lens-shaped bodies of different size respectively. Larger deposits (bodies to 50 times 35 m in diameter) are ellipsoidal or roundish. Of this deposit, A. N. Labuntsov (Ref 1) classified the following graphite varieties: 1) massive, solid-crystalline, 2) arborescent, 3) drop-shaped ("somatoid") and concentrical-spheroidal, and 4) imbricating graphite. The first variety is the most frequent one. The genesis of Botogol'skiy graphite has not been completely explained. The age of the Botogol'skaya

Card 1/4

Problems Regarding Graphite From the Botogol'skiy Mountain (East Sayan)

SOV/20-130-1-40/69

intrusion is determined to be Lower or Middle Devonian. Most researchers agree that limestones are the source of carbon. Opinions, however, differ as to the formation conditions and the sedimentation age of graphite. According to B. M. Kupletskiy (Ref 2), besides organic remains of limestones, carbonic acid which was released during the CaCO₃ dissociation, also took

part in the graphite development. Hydrocarbons were able to liberate carbon with CO₂ separated from the limestones during

the interaction of gas-saturated magma. N. A. Florensov and V. S. Sobolev agree as to the source of carbon. However, they hold the opinion that graphite was developed by the CO decomposition (reaction of Boudoir) in the obligatory presence of bitumen. Graphite sedimentation set in already Juring the magmatic stage. Its bulk, however, was deposited by post-magmatic hydrothermal solutions. According to V. P. Solonenko the transformation process of limestones into syenite favored the carbon concentration. The hydrothermally deposited graphite is said to be of organic origin. Finally the authors

Card 2/4

Problems Regarding Graphite From the Botogol'skiy Mountain (East Sayan)

507/20-130-1-40/69

describe a new tubelike variety of graphice from the Botogol'skiy massif (Fig 1). It forms groups of parallel tubes with an intermediate space of 1-2 mm, a length of 20 mm and walls 0.1-0.3 mm thick. The middle part of the tubes is filled by zonated minerals in the sequence: calcite, pyroxene, microcline, nepheline (from outside). Thick tubes dichotomize in a sharp angle. The authors arrived at the conclusion that in this case graphite was separated earlier than minerals of the syenite part. The latter are of metasomatic origin. Graphite tubes originally u.y have been composed of organic carbon compounds. In their embedding they remained hard and became graphite without considerable mechanical deformations. If this assumption is true, this problem is to have a name: Botogolia saiamensis gen. et sp.n. These "Organisms" (as a working hypothesis) probably belong to algae of the species Phaeophyceae. Finally the authors are of the opinion that it is much simpler to explain the formation of graphite by this theory than by the assumption of a complicated carbon concentration by metasomatic processes. The authors also mention S. V. Obruchev. There are 1 figure and 4 Soviet

Card 3/4

Problems Regarding Graphite From the Botogol'skiy Mountain (East Sayan)

50**V**/20-130-1-40/69

references.

ASSOCIATION:

Geologicheskiy institut Akademii nauk SSSR (Institute of

Geology of the Academy of Sciences, USSR)

PRESENTED:

July 5, 1958, by N. S. Shatskiy, Academician

SUBMITTED:

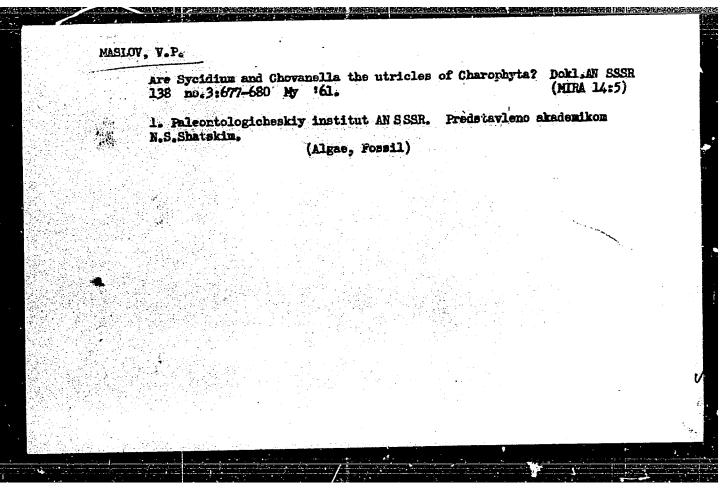
July 3, 1958

Card 4/4

MASLOV, V.P. New Cretaceous algae from Kopet Dag (Turksequistan). Dokl.AB SSSR 134 no.4:939-941 0 '60. (MIRA 13:9) 1. Geologicheskiy institut Akademii nauk SSSR. Predstavleno akad. N.S.Shatskim. (Kopet Dag--Algae, Possil)

Bioherms and algae as indicators of facies. Geol.sbor. [Lvov]
no.7/8:441-449 '61. (MIRA 14:12)
l. Geologicheski y institut AN SSSR, Moskva. (Reefs)
(Petroleum geology) (Algae, Fossil)

	MASLOV, V.P.	
•	Algae and carbonate sedimentation. Izv.AN SSSR Ser.geol. 26 no.12:81-86 D '61. (MIRA 14:12)	
	1. Geologicheskiy institut AN SSSR, Moskva. (Algas)	
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MASLOV, Vladimir Petrovich; BOLKHOVITINA, N.A., etv.red.; VERSTAK, G.V., red.izd-va; GUS'KOVA, O.M., tekhn.red.

[Fossil red alga in the U.S.S.R. and their association with facies] Iskopaszye bagrianye vodorosli SSSR i ikh sviaz's fatsiiami. Moskva, Izd-vo Akad.nauk SSSR, 1962. 221 p. 36 plates.
(Akademiia nauk SSSR. Geologicheskii institut. Trudy, no.53).
(MIRA 15:7)

(Rhodophyceae, Fossil)

Gencerning E. V. Remansva's article "Neegene Chara species from eastern Kazakhstan." Paleent. zhur. no.?:174 '62.
(MIRA 15:10)

1. Geologicheskiy institut AN SSSR.
(Kazakhstan—Algae, Fossil) (Remaneva, E. V.)

KRIVIN, A.L. [deceased]; MASLOV, V.P.

New data on algae and the stratigraphy of the Upper Cretaceous and Lower Palmocene of the Marmarosh Massif. Izv. AN SSSR. Ser.geol. 27 no.12:61-71 D '62. (MIRA 16:2)

1. Geologicheskiy institut AN SSSR, Institut geologii poleznykh iskopayemykh AN UkrSSR.

(Transcarpatia—Geology, Stratigraphic)

(Transcarpathia—Algae, Possil)

MASJOV, V.P.

Paleogene stromatolites of the Gissar Range. Dokl. AN SSSR 142
no.3:690-691 Ja '62.

1. Geologicheskiy institut AN SSSR. Predstavleno akademikom N.M.
Strakhovym. (Gissar Range--Stromatolites)

PAYNSHTEYN, E.G.; MASLOV, V.P.; KORNILOV, G.I.

Remote control of surface substations at the S.M. Kirov Mine.
Sbor. nauch. trud. KCRI no.19:30-35 '62. (MIRA 16:5)

(Krivoy R. og Basin-Electric substations) (Remote control)

FAYNSHTAYN, E.G.; KORNILOV, G.I.; MASLOV, V.P.

Apparatus for remote control of block-type fans in the S. M. Kirov Mine. Sbor. nauch. trud. KGRI no.19:35-38 '62. (MIRA 16:5)

(Krivoy Rog Basin-Fans, Electric)

(Remote control)

Remote control of the operation of automatic shuttle belt conveyors. Sbor. nauch. trud. KCRI no.19:105-108 '62. (MIRA 16:5) (Conveying machinery) (Remote control)

MASLOV, Vladimir Petrovich; GOLLERBAKH, M.M., otv. red.; VAKHRAMEYEV, V. A., otv. red.; PEYVE, A.V., glavnyy red.; MARKOV, M.S., red.; MENNER, V.V., red.; TIMOFEYEV, P.P., red.; VANYUKOVA, O.M., red. izd-va; CUS'KOVA, O.M., tekhn. red.

[Introduction to the study of fossil charophytes.] Vvednie v izuchenie iskopaemykh kharovykh vodoroslei. Moskva, Izd-vo Akad. nauk SSSR, 1963. 103 p. (Akademiia nauk SSSR. Geologicheskii institut. Trudy, no. 82). (MIRA 16:11)

1. Chlen-kerrespendent AN SSSR (for Peyve).

AND DESCRIPTION STATEMENT OF STATEMENT STATEMENT OF STATE

MASLOW, V.P.

Articulate red algae of the genus Janie from Middle Sarmstian bioherms in Moldavia. Paleont.zhur. no.1:111-122 *63. (MIRA 16:4)

1. Geologicheskiy institut AN SSSR. (Moldavia--Algae, Fossil)

MASLOV, V.P.

Find of a lime corolla and the structure of the apical part of the fruit-bearing organs in fossil Charophyta. Dokl. AN SSSR 149 no.4:954-956 Ap '63. (MIRA 16:3)

1. Geologicheskiy institut AN SSSR. Predstavleno akademikom W.M.Strakhovym. (Algae, Fossil)

MASLOV, V.P.

Germination of the cospore in fossil charophytes, and a new form genus. Dokl. AN SSSR 152 no.2:443-445 S 163.

(MIRA 16:11)

1. Geologicheskiy institut AN SSSR. Predstavleno akademikom $N_{\bullet}M_{\bullet}$ Strakhovym.

MASLOV, V.P.; RENGARTEN, N.V.

Find of fossil calcareous algae in loess. Dokl. AN SSSR 159 no.3:579-581 N '64 (MIRA 18:1)

1. Geologicheskiy institut AN SSSR. Predstavleno akademikom N.M. Strakhovym.

MASLOY, V.r.

Kopetdagaria, a new tribe of verticillate Sighoneae (green algae).

Dokl. AN SSSR 164 no.5:1154-1157 0 %5.

(MIRA 18:10)

1. Geologicheskiy institut AN SSSR. Submitted December 8, 1964.

Maslov, U.P.

USSR/Theoretical Physics

B-4

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, No 10863

Author

: Maslov, V.P.

Inst

Title

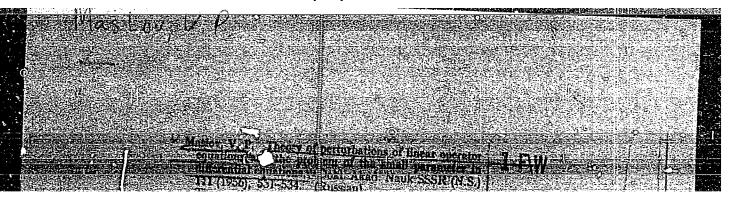
: Correction to the Quasi-Classical Energy Approximation.

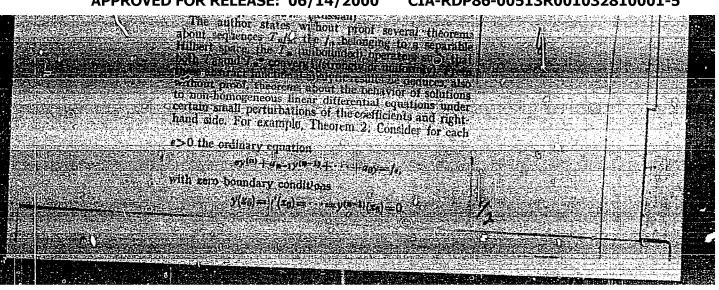
Orig Pub : Tr. 3-go Vses. matem. s"ezda. 2. M., AN SSSR, 1956, 164

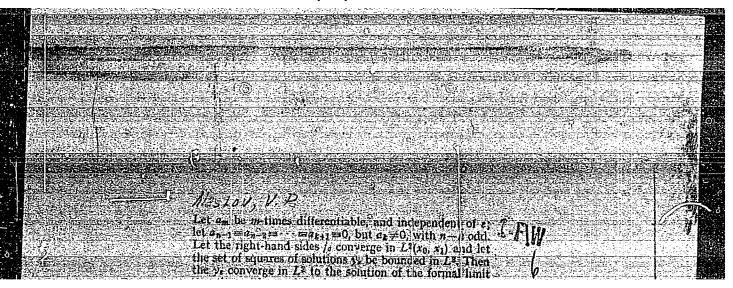
Abstract

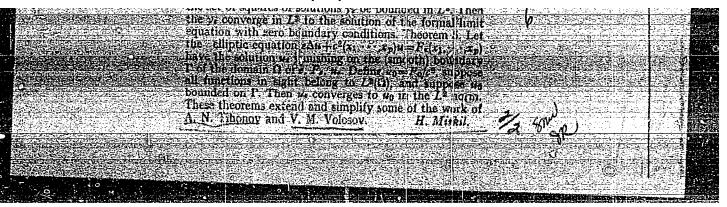
: No abstract.

Card 1/1



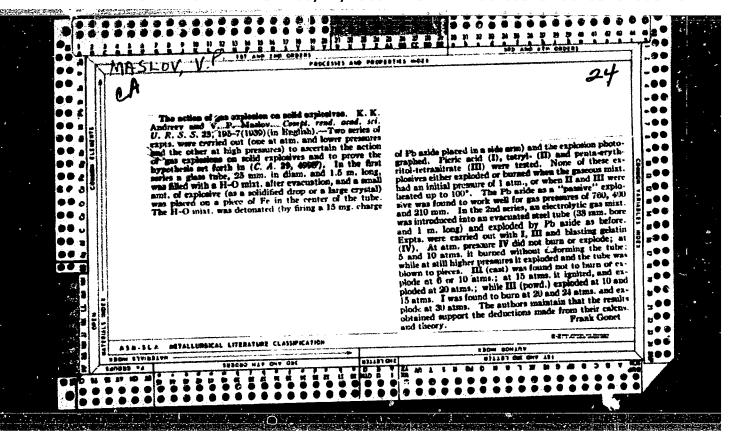






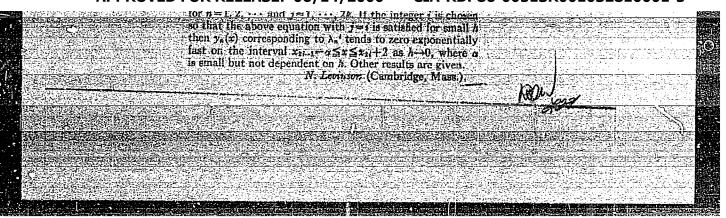
MASLOV, V. P. Cand Phys-Math Sci -- (diss) "Certain problems of the theory of disturbances." Mos, 1957. 4pp 22 cm. (Mos State Univ im M. V. Lomonosov), 110 copies. (KL, 15-57, 104)

-6-



USSR / Masley V. P. On the limit behavior of certain quantums—
mechanical quantities. John, Akad. Nauk SSR (N.S.) 94.623-626 (1954) : (Russian)

The squatton $h^{i}y' + h^{i}(h - u(x)) y \neq 0$. ($2m \approx 1$ is considered with $1(x) = u(x) = \infty$ and y(x) having a finite number of maximum and minima. Let h^{i} be an eigenvalue and $y_{i}(x)$ a high-liked eigenfunction on $(-\infty, \infty)$. Let $\pi_{i} = \pi_{i}$ be roots of $h^{i}_{0} = u(x) = 0$. Then h^{i}_{0} satisfies one of the equation: $h^{-1} \int_{-1/2}^{1/2} (h^{i}_{0} - u(x))^{1/2} dx = \pi(n + \frac{1}{2}) + O(h)$ $h^{-1} \int_{-1/2}^{1/2} (h^{i}_{0} - u(x))^{1/2} dx = \pi(n + \frac{1}{2}) + O(h)$ for $n = 1, 2, \dots$ and $j = 1, \dots, 2k$. If the integer k is chosen so that the above equation with j = i is satisfied for small h.



17:

SUBJECT USSR/MATHEMATICS/Functional analysis AUTHOR CARD 1/2 MASLOY V.P. TITLE

Perturbation theory at the transition from a discret specime to a continuous one.

PERIODICAL

Doklady Akad. Nauk 109, 267-270 (1956) reviewed 11/1956

Control of the Contro

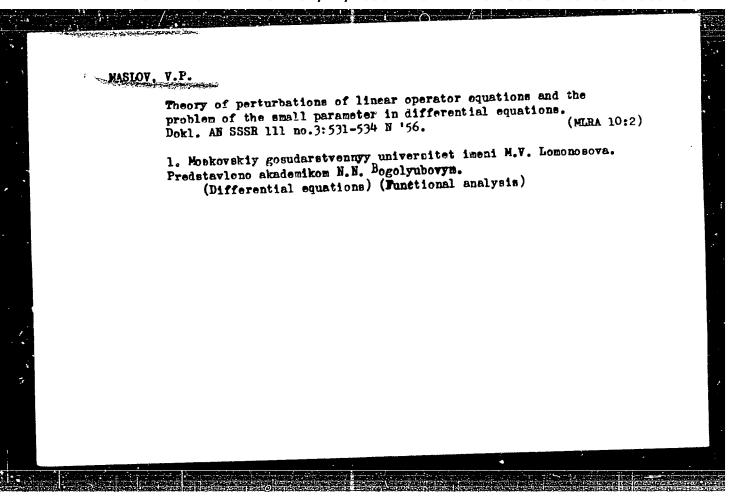
The author generalizes his earlier results (Doklady Akad. Nauk 24. (1964)) on the approximations for the one-dimensional Schrödinger equation to the moredimensional case. He establishes that for $\hbar \to 0$ the eigenfunctions of a moredimensional Hamilton operator in a certain sense converge to the combinations of more-dimensional δ -functions. This result holds for an arbitrary quantum mechanical operator which corresponds to a physical magnitude which can be measured. If in the three-dimensional case there exists a function $R_{\mathbf{n}}$ such

$$-\frac{\hbar}{2m}\Delta R_n + \frac{1}{\hbar} u(x, y, z) R_n - \frac{1}{\hbar} M_n(\hbar) R_n \rightarrow 0$$

for $h\to 0$ and $\mbox{$M_n(h)$}\to\lambda$, then R_n is the asymptotic of the eigenfunction of the Hamilton operator. The function ightharpoonup n(n) gives the asymptotic of the eigenvalues for $n \longrightarrow 0$ in the three-dimensional case of the Schrödinger equation if the potential function possesses a minimum. Here the distance of neighbored

Doklady Akad. Nauk 109, 267-270 ('956) CARD 2/2 PG - 374 points of the spectrum has the order n for $M_n(n) \to \lambda$. $\begin{array}{c} n \to \infty \\ n \to 0 \end{array}$

INSTITUTION: Lomonossow University, Moscow.



PA - 1997 CARD 1 / 2 A Method Based on the Perturbation Theory for the Determination USSR / PHYSICS of the Spectrum of Ordinary Differential Operators with Small SUBJECT MASLOV, V.P. AUTHOR Parameters for the Oldest Derivative. TITLE Dokl.Akad.Nauk 111, fasc.5, 977-980 (1956)

be assumed to be a series of self-adjoined operators with discrete PERIODICAL spectrum which converges considerably in the direction of the self-adjoined denote the asymptotic operator with a continuous spectrum. If $\Psi_k^{(1)}$ and $E_k^{(1)}$ behavior of the eigenfunctions and eigenvalues of the operators ${\tt A}_{k}$ in the case of large k, the first correction of the asymptotic behavior of eigenvalues can be expressed in the following manner, which is similar to that adopted in the (($\Psi_k^{(1)}$, $A_k^{(1)}$)/($\Psi_k^{(1)}$, $\Psi_k^{(1)}$)) - $E_k^{(1)}$. This naturally holds only if $\Psi_k^{(1)}$ belongs case of the ordinary perturbation theory; to the definition domain of A_k and if $\Psi_k^{(1)}$ (i.e. the eigenvalue in first approximation) is not degenerated. For the purpose of determining the following approximations it is necessary in each concrete case to make use of one or the other modification of the perturbation theory. The method discussed below is suited for the purpose of solving boundary value problems in the case of ordinary

PA - 1997 CARD 2 / 2 Dokl. Akad. Nauk 111, fasc. 5, 977-980 (1956) linear differential equations with small parameter in the case of the "oldest"(?) derivative. The author explains this method on the basis of the SCHROEDINGER equation: $-(\hbar^2/2\mu)(d^2/dx^2)\Psi_n + \{u(x) - E_n\}\Psi_n = 0$ with the condition $\int_{n}^{\infty} \Psi_n^2(x) dx < \infty \text{ Here } \hbar^2/2 \text{ is considered to be a small parameter, and}$ the HAMILTONIAN operator $H = (\hbar^2/2\mu)(d^2/dx^2) + u(x)$ at $h \to 0$ on this occasion converges considerably towards the multiplication operator u(x). H.A.KRAMERS, Zs.f.Phys., 39, 828 (1926) found the first so-called quasiclassical approximation for the aforementioned SCHROEDINGER equation, and the following approximations are discussed in the course of this article. In this connection u(x) - E is assumed to have two simple roots. The first approximation of the eigenvalues of the SCHROEDINGER equation investigated here is found with the aid of a BOHR equation. For the determination of the following approximations a recurrence formula is set up which connects the (i+1)-th formula with the i-th approximation. On the basis of the asymptotic behavior of the BESSEL functions it is possible to write down the second approximation for the eigenfunctions of the problem under investigation. In conclusion, the determination of the asymptotic behavior of the eigenfunctions is described.

INSTITUTION: Moscow State University.

MASLOV, V.P.

Limit change of quantum mechanics to classical. Vest. Hosk. un.

Ser. mat., mekh., astron. fiz., khim. 12 no. 6:107-116 '57.

(MIRA 11:10)

l. Kafedra matematiki dlia fizicheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta.

(Quantum theory)
(Mechanics)

MASLOV, AUTHOR 🤻 20-5-11/60 MASLOV, V.P. TITLE Degeneration on Passing from a Discrete Spectrum to a Centinuous and Transition from Quantum Mechanics to Classical (Vyrozhdeniye pri perekhode ot diskretnogo spektra k nepregymoma i perekhod iz kvantovcy mekhaniki v klassicheskuyu - Russian) Doklady Akademii Nauk SSSR 1957, Vol 114, Nr 5, pp 957-960 PERIODICAL (USSR) ABSTRACT $\{e_{i}^{k}\}$ here denotes the system (k = 1, 2, ...) of the orthonormed bases in a certain HILBERT'S space H; $\{n_k\}$ - a certain sequence of whole numbers depending on k. $n_k = \infty$ is true. Furthermore, the index $m\{n_k\}$ is k →.∞ eliminated here. First, the conceptions "element of the space $\mathbf{M}_n \circ \left[\begin{smallmatrix} e^k \\ i \end{smallmatrix} \right]^\pi$ and "element of the space $\mathbf{M}_n \left[\begin{smallmatrix} e^k \\ i \end{smallmatrix} \right]$ are defined. Also the elements equivalent to zero are defined. In H $_n$ [$\mathbf{e_i^k}$] a scalar product is defined. The space $\mathbf{H}_{n}\left[\mathbf{e}_{1}^{k}\right]$ is a separable HILBERT space. If at $k\rightarrow\infty$ the CARD 1/2

20-5-11/60 Degenration on Passing from a Discrete Spectrum to a Continuous and Transition from Quantum Mechanics to Classical

difference (n-n') $\Rightarrow \infty$ then the spaces $M_n \left[e_i^k \right]$ and Mn, [ei] are orthogonal in the sense of the scalar product

 $\lim_{k\to\infty}(x_k,\,\vec{x}_k),\,\,x_k\in\underline{\mathbf{M}}_n\mathbf{L}\mathbf{e}_i^k]\,,\,\,\vec{\mathbf{X}}_k\in\underline{\mathbf{M}}_n,\,\,\mathbf{L}\mathbf{e}_i^k.]$

Now [A] is assumed to denote a sequence of selfadjoined positive definite operators with a discrete spectrum with the eigenfunctions $\{x_i^k\}$ and with the eigenvalues $\{\lambda_i^k\}$

These operators strongly converge towards the selfadjoining operator A with a continuous spectrum. \(\lambda\) is assumed to denote a point of the spectrum of the operator A; the space M_n { A_k } is denoted by M_n [x_i] The following theorem applies: The conclusion of the operator $\{A_k\}$ in A_k

is the operator of the multiplications with the number λ .

ASSOCIATION:

Moscow State University "M.V. LOMONOSOV"

PREBENTED BY: N.N. BOGOLYUBCV, member of the Academy on 31.10.1956

AVAILABLE: CARD 2/2

Library of Congress.

MASLOV, V.P.

**Administrative Passing for the passing from the quantum to the classical limit. Nauch.dokl.vys.skoly; fiz.-mat.nauki no.1:63-67 '58. (MIRA 12:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. (Quantum theory) (Mechanics)

AUTHORS: Meslov, V.P. Samarskiy, A.A., Fomin, S.V., SOV/42-13-6-31/33

and Shirokov, Yu.M.

TITLE: I.I.Gol'dman and V.D.Krivchenkov, Collection of Problems for Quantum Mechanics, Moscow, Gostekhizdat, 1957, 275 Pages, 15000 Copies, 5 Rub. 15 Kop. (I.I.Gol'dman i V.D.Krivchenkov, Sbornik zadach po kvantovoy mekhanike, M., Gostekhizdat, 1957,

str. 275, tirazh 15000 ekz., tsena 5 r. 15 kop)

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 6, pp 234-237 (USSR)

ABSTRACT: This is a very appreciating review of the above book. For the further editions it is commended to consider the group-

theoretical methods of quantum mechanics and to give

instructions for some difficult problems.

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在农业的企业的企业的企业的企业的企业的企业的企业 SOV/20-123-4-14/53 24(3), 9(9) AUTHOR: Maslov, V. P. The Asymptotic Behavior of the Eigenfunctions of the Equation Au+ku=0 TITLE: With Boundary Conditions Along Equidistant Curves and the Scattering of Electromagnetic Waves in a Wave Guide (Asimptotika sobstvennykh funktsiy uravneniya $\Delta u + k^2 u = 0$ s krayevymi usloviyami na ekvidistantnykh Frivykh i rasseyaniye elektromagnitnykh voln v volnovode) Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 4, pp 631-633 PERIODICAL: (USSR) The author investigates the equation $\Delta\psi_k$ + $k^2\!\psi_k$ = 0 in a ABSTRACT: certain domain which is bounded as follows: a) either by 2 closed equidistant curves, or b) by 2 equidistant curves and 2 verticals to these curves, or c) by 2 equidistant curves extending towards infinity. $\psi_k|_{\Gamma}$ is assumed. In the two first cases the spectrum will be concrete, but in the third case it will be continuous. The arc length s of the inner equidistant curve and the length r of the corresponding normal are introduced as a new system of coordinates. An equation for $\psi_k(r,s)$ resulting under these conditions is Card 1/3