APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MAL'CHEVSKIY, A.S., kand. biol.nauk

Role of birds in shelterbelts of the trans-Volga region.
Vest. LGU 2 no.4:28-29 Ap '47. (MIRA 12:9)
(Volga Valley--Birds, Injurious and beneficial)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MAL'CHEVSKIY, A. S.

"Biology of the Emberiza Brunniceps," Priroda, No. 6, 1946.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MOGILEVSKIY, M.Sh.; MAL'CHEVSKAYA, V.I.; VOYNAROVSKAYA, Ye.P.

Mechanism of activation of chloramine in aqueous solutions.
Gig.i san. 24 no.8:77-80 Ag '59. (MIRA 12:11)

1. Iz laboratorii Leningradskoy gorodskoy dezinfektsionnoy stantsii.

(ANTISEPTICS, HALOGEN, chemistry)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MAL'CHEVSKAYA, K.P.

Improving the qualitative composition of fish in Lake Pesochnoye. Dop. ta pov. L'viv. un. no.7 pt.3:108-110 '57. (MIRA 11:2)
(Pesochnoye, Lake--Fishes)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MAL'CHEVSKAYA, K.P.

Fertility and nature of multiplication of ruffs in lakes of the forest area of western Ukraine. Dop. ta pov. L'viv. un. no.7 pt.3: 106-108 '57. (MIRA 11:2)

(Ukraine--Ruff)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MALICHEVSKAYA, K.P.

Food supply and nutritive correlation for fish living in Lake Bolshoye Domashnee of Volyn' Province. Dop. ta pov. L'viv. un. no.7 pt.3 103-105 '57. (MIRA 11:2)
(Bolshoye Domashnee, Lake--Fishes--Food)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MAL'CHEVSKAYA, K.P.

Measures for efficent utilization of pike stocks in Lake Tur, Velhynia. Dop. ta pov. L'viv.un.no.6 pt.2:71-73 '55.
(Tur, Lake--Pike) (MLRA 10:3)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

ILLEGIBLE

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

Bonov, A., Malcheva-Popova, M., "The Perseids During 1951," p.135 (GODISHNIK, MATEMATIKA I FIZIKA, Vol. 47, No. 1, Pt. 2, 1950/51-1951/52, Sofiya.)

SO: Monthly List of East European Accessions, Vol. 3, No. 3, Library of Congress, March, 1954, Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

ANGELOVA, V.; MALCHEVA, Zdr.

Methodic preparation of "High molecular compounds." Biol i khim 7 no. 2: 24-39 '64.

1. Deputy Editor and Member of the Board of Editors, "Biologiia i khmiia" (for Angelova).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MALCHEVA, Z.; NIKIFOROV, V.

Notes on the results of the candidate student examinations in chemistry carried out in July 1964. Biol i khim 8 no.1:22-30 '65.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

ANGELOVA, V.; MALCHEVA, Z.

Visual method of studying fluidized bed processes and dry purification of gases. Biol i khim 7 no.4:54-57 '64

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MALCHEVA, Z.

Application of the semimicromethod in the chemical laboratory works in secondary schools. Biol i khim 5 no.1:13-24 '63.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

ANGELOVA, V.; MALCHEVA, Z.

Some experiments with plastics. Khim. v shkole 17 no.6:76-79 N-D '62. (MIRA 16:1)

1. Sofiyskiy gosudarstvennyy universitet, laboratoriya metodiki khimii.

(Plastics) (Bulgaria--Chemistry--Experiments)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

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MALCHEVA, Z.

Impressions from a visit to the Pedagogic Institute for the Training of Chemistry Teachers at Halle, German Democratic Republic. Biol i khim 4 no.6:60-62 '62.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

ANGELOVA, V.; MALCHEVA, Z.; MEKHMEDOV, R.

Model for the manufacture of hydrochloric acid, made of Plexiglas. Biol i khim 4 no.6:57-60 '62.

1. Chlen na Redaktsionnata kolegiia, "Biologiia i Khimiia" (for Angelova).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

ANGELOVA, V.; MALCHEVA, Z.; KOSTOV, L.

Glyphthalic resins. Biol i khim 4 no.5:57-59 '62.

1. Chlen na Redaktsionnata kolegiia, "Biologiia i khimiia" (for Angelova).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

ANGELOVA, V.; MALCHEVA, Z.; TERZIEV, L.

Manufacture of cast phenolaldehyde plastics. Biol i khim 4 no.5:56-57 '62.

1. Chlen na Redaktsionnata kolegiia, "Biologiia i khimiia" (for Angelova).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

ANGELOVA, V.; MALCHEVA, Z.

Some experiments along the theme "Compounds of High Molecular Weight." Biol i khim 4 no.3:48-53 '62.

1. Chlen na Redaktsionnata kolegiia, "Biologiia i khimiia".

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MALCHEVA, N., inzh.

Teeming speed, and its influence on the macrostructure of the 250 kg. ingots of boiling steel. Min delo 17 no.5:38-40 My '62.

1. NIIM.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MALCHEVA, N., inzh.

Segragation of carbon, sulfur, and phosphorus in the 250 kg. ingots of rimmed steel. Min. delo 18 no.4:25-28 Ap'63

1. Nauchoizsledovatelski institut po cherna metalurgiia.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MALCHEVA, M.

Popova, Malcheva, M., "Investigation in Determining the Direction of the Meridian and Other Similar Problems." p.1 (GODISHNIK, MATEMATIKA I FIZIKA, Vol. 47, No. 1, 1950/51-1951/52, Sofiya.)

SO: Monthly List of East European Accessions, Vol. 3, No. 3, Library of Congress, March, 1954, Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MAL'CHEV, Sergey Mikhaylovich; STUL'NIKOV, V.S., otvetstvennyy redaktor; NADEINSKAYA, A.A., tekhnicheskiy redaktor; ALADOVA, Ye.I., tekhnicheskiy redaktor

[Mine hoisting equipment mechanic] Mashinist shakhtnoi pod"emnoi ustanovki. Moskva, Ugletekhizdat, 1956. 309 p. (MLRA 9:10)
(Mine hoisting)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MASCHEV, Roson, inzh., n. sotr.; MITEV, Iliia, inzh., n. sotr.

Wall panels of effective ceramics for industrial buildings.
Ratsionalizatsiia 14 no.4:11-13 '64.

1. Scientific Research Institute for Construction.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MALCHEV, S., inzh.

Platinotron. Radio i televiziia 13 no.3:82-85 '64.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MALCHEV, Rosen, inzh.

Floor panels and elements of keramzit concrete. Stroitelstvo 10 no.5:14-17 S-O'63

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

SACHANSKI, S'liu, inzh., nauchen sutrudnik; MALCHEV, Rosen, inzh., nauchen sutrudnik

Roofing constructions of effective ceramics. Tekhnika Bulg 13 no. 2: 9-12 '64.

1. Scientific Research Institute for Construction.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

SACHANSKI, S., inzh., sutrudnik; MALCHEV, R., inzh., sutrudnik

Bulgarian State Standard 346-64: Ceramic Elements for Floor Constructions. Ratsionalizatsiia 15 no.5:31-34 '64

1. Scientific Research Institute for Construction.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

IONKOV, Iv.; TSOLOV, R.; DOSKOV, I.; SHISHMANOVA, IUl.; ANDREEV, I.; NIKOLOV, St.; SUKIASIAN, Kh.; MATEV, M.; ATANASOV, E.; TODOROV, B.; STEFANOVA, A.; PETRUNOV, St.; TSVETKOV, D.; GRESHKOV, V.; SIMEONOV, S.; PATARINSKI, D.; AVRAMOVA, N.; MALCHEV, Kh.

Biochemical changes in patients with influenza during the 1959 epidemic. Nauch. tr. vissh. med. inst. Sofia 41 no.7: 9-14 '62.

1. Predstavena ot prof. I. Ionkov.
(INFLUENZA) (GAMMA GLOBULIN) (IRON METABOLISM)
(BILIRUBIN) (BICARBONATES) (BLOOD CHOLESTEROL)
(UREA) (BLOOD SUGAR) (PROTEIN METABOLISM)
(POTASSIUM) (BLOOD PROTEINS) (SODIUM)
(17-KETOSTEROIDS) (SODIUM CHLORIDE)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

L 20579-66

ACC NR: AP6002073

all three types of substances investigated was also similar. The dust electrification can occur only if cleavage electrons are unevenly distributed between surfaces. Of the three compounds investigated, the binding energy of the KJ dust is the smallest, and its lattice constant is the largest; the dust electrification of the KJ is also the greatest. Orig. art. has: 2 figures and 2 tables. [Based on author's abstract] [NT]

SUB CODE: 20/ SUBM DATE: 01Jul65/ ORIG REF: 002/ OTH REF: 005

Card 2/2 BK

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

L 20579-66 T/EWP(t) IJP(c) JD/JG

ACC NR: AP6002073 SOURCE CODE: PO/0045/65/028/006/0919/0922

57
B

AUTHOR: Malcher, J. O.; Szaynok, A.; Wolniewicz, H.

ORG: Department of Physics, Institute of Technology, Wroclaw, Poland

TITLE: Dust electrification of KCl, KBr, and KJ monocrystals

SOURCE: Acta physica polonica, v. 28, no. 6, 1965, 919-922

TOPIC TAGS: electric measurement, dielectric crystal, ferroelectric crystal, crystal impurity, chemical purity, spectral distribution, crystal lattice energy, crystal lattice, crystal dislocation, electric conductivity, dust, electrification

ABSTRACT: Dust electrification measurements were carried out for dusts of KCl, KBr, and KJ monocrystals. The dependence of electrification on the binding energy and lattice constant was observed. The KJ dust exhibits the greatest electrification and the KCl dust, the least. The increase of the binding energy and the decrease of the lattice constant cause the dust electrification to decrease. The degree of purity of the KCl, KBr, and KJ monocrystals used for the measurements was similar. The spectral analysis showed impurities in small quantities of Mg, Ca, Sr, Fe, and Al. Some dislocations can be expected in the monocrystals. It can be assumed that the degree of the crystal-lattice regularity of

Card 1/2

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L 22370-66
ACC NR: AP6009603

2

p-type conductivity. Impurities of type n cause smaller electrification than impurities of type p given the same concentration. Smaller electrification of n-type doped CdTe is caused by increased conductivity. The CdTe crystals used for experiments were obtained from zone-melted Cd and Te and doped with several impurities at the Semiconducting Materials Laboratory of the Institute of Physics of the Polish Academy of Sciences in Warsaw. Dust electrification measurements of CdTe crystals, pure and doped, were carried out by the Kunkel and Hansen method. A polycrystalline CdTe structure was used for measurements. The authors wish to express their gratitude to Dr. W. Giriat for kindly supplying them with the materials and for his interesting remarks. Orig. art. has: 1 figure and 1 table. [Based on author's abstract]

[KS]

SUB CODE: 20/ SUBM DATE: 12Feb65/ ORIG REF: 002/
OTH REF: 005

Card 2/2 dla

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

L 22370-66 EWT(1)/EWG(m)/T/EWP(t) IJP(c) RDW/JD/GG

ACC NR: AP6009603 SOURCE CODE: PO/0045/65/028/004/0477/0481

58
56
B

AUTHOR: Nikliborc, Jan; Malcher, Jozef; Szaynok, Anna

ORG: Department of Experimental Physics, Wroclaw University; Department of Physics, Institute of Technology, Wroclaw

TITLE: Influence of p- and n-type impurities on dust electrification in CdTe

SOURCE: Acta physica polonica, v. 28, no. 4, 1965, 447-481

TOPIC TAGS: cadmium telluride, impurity, semiconductor conductivity, impurity conductivity, cadmium, tellurium, stoichiometric excess

ABSTRACT: The electrification of CdTe dust depends on the kind and concentration of impurities introduced into the crystals. The increase in the concentration of impurities gives rise to dust electrification. Conductivity measurements show that CdTe can be a semiconductor of the p- or n-type, according to the kind of impurities introduced or the stoichiometric excess of cadmium or tellurium in the crystal. Impurities of groups III and VII of elements or a stoichiometric excess of cadmium will yield n-type semiconductivity, while impurities of groups I and V of elements or a stoichiometric excess of tellurium will yield

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L 38410-66

ACC NR: AP6019936

D

the crushing process. The electrical conductivity of CdTe dust crushed in a porcelain mortar with a rough surface is greater than that in metal mortar. The dust particles adhere to the rough surfaces of the mortar and form a cover in contact with one another almost to the exclusion of contact with the mortar, which leads to a partial charge recombination. The electrical conductivity of CdTe dust crushed in an agate mortar with a smooth surface is the highest of all. Contact of the dust particles with agate, a material of high specific resistance, produces increase in electrical conductivity. Orig. art. has: 1 table and 2 figures

[GC]

SUB CODE: 20,11/ SUBM DATE: 23June65/ ORIG REF: 000/ SOV REF: 000/ OTH REF: 004

Card 2/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

L 38410-66 EWT(1)/EWP(t)/ETI IJP(c) RDW/JD

ACC NR: AP6019936 SOURCE CODE: PO/0045/66/029/002/0103/0106

AUTHOR: Malcher, Joseph; Sycinska, Anna; Szaynok, Anna

ORG: Department of Physics, Institute of Technology, Wroclaw, Poland

TITLE: Influence of contact with several materials on the electrical conductivity of CdTe dust

SOURCE: Acta physica polonica, v. 29, no. 2, 1966, 103-106

TOPIC TAGS: electric conductivity, charged particle, porcelain, ~~[illegible]~~, ~~agate~~ mortar, ~~metal mortar~~, cadmium telluride, ~~dust~~ metal

ABSTRACT: The authors discuss the measurements of the electrical conductivity of cadmium telluride dust, crushed in mortars made of agate, porcelain, and metal. The measurements were carried out according to the Kunkel and Hansen method (Kunkel, W. B., Hansen, J. W., Rev. Sci. Instrum., 21, 308 (1950)). A distinct influence of the contact of other materials on the dust cloud charge was revealed. A decisive property of the mortar material is its electrical conductivity. The lowest electrical conductivity of the dust was produced in a metal mortar because of the high conductivity of the metal. Contact of the dust with the metal promotes the recombination of charges produced during

Card 1/2

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Doping caused the increase of both positive and negative charges in comparison with the pure material. A distinct predominance of positive charges in the pure and In-doped germanium dust was observed. A photoelectric effect was also observed. Orig. art. has: 1 figure.

[KS]

SUB CODE: 20/ SUBM DATE: 21Aug65/ ORIG REF: 002/ OTH REF: 003/

Card 2/2 11b

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

L 41358-66 EWP(t)/ETI/T IJP(c) JD

ACC NR: AP6021912 SOURCE CODE: PO/0045/66/029/003/0411/0413

71
70
B

AUTHOR: Nikliborc, J.; Malcher, J.; Szaynok, A.

ORG: [Nikliborc] Department of Experimental Physics, University of Wroclaw, Wroclaw (Katedra Fizyki Doswiadczalnej Uniwersytetu Wroclawskiego); [Malcher; Szaynol] Department of Physics, Institute of Technology, Wroclaw

TITLE: Electric properties of dust made of germanium pure and doped single crystals

SOURCE: Acta Physica polonica, v. 29, no. 3, 1966, 411-413

TOPIC TAGS: germanium single crystal, photoelectric effect, germanium, ~~dust~~, electric property

ABSTRACT: Measurements of electric properties of germanium-dust presented in this paper were carried out for pure and p- or n-doped material by the Kunkel and Hansen method [Kunkel, W. B., J. Appl. Phys., 21, 820 (1950)]. The germanium monocrystal used for measurements was produced at the Tewa Semiconductor Factory in Warsaw. Indium and stibium doping was performed at the Semiconductor

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MALCHER, J., dr inz. (Czechoslovakia)

State of experiments in rendering harmless the sewages from Czechoslovak potato starch plants. Przem ferment i rol 8 no.2:54-58 F '65.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

L 29320-66

ACC NR: AT6003649

the surroundings, but this phenomenon is as yet difficult to explain and is being explored further. Orig. art. has: 4 figures.

SUB CODE: 20/ SUBM DATE: none ORIG REF: 002/ OTH REF: 002/

Card 2/2 BK

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

L 29320-66 EWT(t)/ETI LJP(c) JD

ACC NR: AT6003649 SOURCE CODE: PO/2542/65/000/008/0003/0007

AUTHOR: Malcher, Jozef (Master engineer, Senior Assistant in the Physics Department); Szaynok, Anna (Dr., Adjunct in the Physics Department)

ORG: Breslau Polytechnical Institute (Politechnika Wroclawska)

48
B+1

TITLE: Electrification of dust obtained from polycrystalline germanium

27

SOURCE: Breslau. Politechnika. Zeszyty naukowe. Fizyka, no. 8, 1965, 3-7

TOPIC TAGS: electron charge, electron, crystal, semiconductor crystal, crystal lattice, crystal lattice defect, germanium, indium, antimony, crystal impurity, electric measurement

ABSTRACT: The effect of lattice defects on the degree of dust electrification was studied on pure polycrystalline germanium, and on indium or antimony doped germanium to a concentration of 10^{18} cm^{-3}. The dust electrification measurements show that 1) the mean charge of a dust particle is linearly dependent on the diameter of the dust particle, 2) the introduction of impurities increases the charge of the dust cloud, 3) the increase in the charge is due to the crystal lattice defects caused by the impurities, and 4) the increase in the charge is higher for admixtures of antimony of similar concentration in the germanium crystal. The predominance of negative charges in the dust cloud formed by indium doped germanium suggests an addition of electrons from

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ACCESSION NR: AP4017208

the glass and thus increasing the probability of unequal distribution of charges by crushing. The crushing supplies further amounts of energy, causing additional excitation, and electrons situated near the surface can be ejected in the exoemission process, resulting in the predominance of the positive charge in the dust cloud as a whole. Orig. art. Has: 2 graphs and 2 tables.

ASSOCIATION: Politechnika Wroclawska, Katedra Fizyki, Wroclaw (Wroclaw Polytechnic, Chair of Physics)

SUBMITTED: 06Jul63 DATE ACQ: 18Mar64 ENCL: 00

SUB CODE: PH NO REF SOV: 000 OTHER: 008

Card 2/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

ACCESSION NR: AP4017208 P/0045/64/025/001/0057/0060

AUTHOR: Bodnar, Zygmunt; Malcher, Jozef; Szaynok, Anna; Wolniewicz, Walentyna

TITLE: Influence of gamma-rays on the electrical properties of glass dust

SOURCE: Acta physica polonica, v. 25, no. 1, 1964, 57-60

TOPIC TAGS: gamma-irradiation, glass dust, electrical property, thermal excitation, crushing, trap in glass, distribution of charge, exoemmission process, positive charge

ABSTRACT: Gamma-irradiation of glass produces changes in the electrification of the dust. Short irradiation (about 100 minutes) increases it, while lengthy irradiation decreases it. Unirradiated but heated dust shows increased electrification; irradiated and heated dust, a predominance of positive charge. In irradiated but unheated glass, there is equalization of the positive and negative charge with increasing irradiation time. Heating may be treated as thermal excitation, causing the introduction of electrons into the traps in

Card 1/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MALCHER, Josef, inz., dr.

Complex utilization of the starch industry waste. Prum potravin 14 no.5:242 My '63.

1. Ceska skrobarny, n.p., Havlickuv Brod.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

COUNTRY : Czechoslovakia H-27
CATEGORY : Chemical Technology. Chemical Products and Their Applications--Fermentation industry.
ABS. JOUR. : RZKhim., no. 21 1959, No. 76435

AUTHOR : Malsner, J., Chmelar, V., and Muzik, R.
INST. : Not given
TITLE : The Objective Evaluation of the Quality of the Malt Supplied to Distilleries

ORIG. PUB. : Kvasny Prumysl, 5, no 4, 94-99 (1959)

ABSTRACT : Methods used in the evaluation of malt (M) quality in distillation practice are discussed. The effect of the conditions under which the M is germinated and dried on its diastatic activity (DA) was studied and technological indexes for the application of M in varying amounts were determined. Barley, wheat, rye, oats, and soybeans were used as raw materials. Considerable DA was found in wheat bran. The drying of the M lowers its DA by 20-25% with a corresponding increase

CARD: 1/2

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CZECHOSLOVAKIA / Chemical Technology. Chemical Products and Their Application. Fermentation Industry. H

Abs Jour: Ref Zhur-Khimiya, No 12, 1959, 43913.

Author : Mica B., Chmelar V., Malcher J.
Inst : Not given.
Title : Utilization of Water Used in Washing Potatoes as a Nutritive Medium in Fermentation.

Orig Pub: Kvasny prumysl, 1958, 4, No 10, 232-235.

Abstract: The wash water effluent from the potato-starch factories contains nitrogenous and mineral substances that promote fermentation of molasses and cause a more complete conversion of starchy brews. This water may be successfully utilized in the combined manufacture of starch and alcohol. -- G. Oshmyan.

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MALCHER, J.

The quality and neutralization of waste water in the potato industry. p. 17. VODA. (Ustredni sprava vodniho hospodarstvi) Praha. Vol. 35, no. 1, Jan. 1956.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

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KALCHER, J. AND OTHERS

"Problem of drying potatoes for feeding purposes."

PRUMYSL POTRAVIN, Praha, Czechoslovakia, Vol. 6, no. 10, 1955.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MALCHER, J.; Hosek, K.; Medal K.

"Economical Utilization of Slaughterhouse Blood with Reference to the Cleanliness of Water Flow." p. 331 (VODA, Vol. 33, No. 12, December 1953)

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954, Unclassified

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MALCHER, J.

MALCHER, J.; BRIXI, B.; DUSEK, V. "Control of production in agricultural distilleries." Chemicke Zvesti, Bratislava, Vol 7, No 9, Nov 1953, p. 587

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

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CA

16

The higher alcohols in the unrectified spirits in relation to vinegar fermentation. J. Makher, C. K. Medal, and J. Weinfurter (Lihovarský Ústav, Prague, Czech.). *Sborník Československ. Akad. Zemědělské* 21, 312-32(1948)

(Pub. 1949). In lab. and com. vinegar manuf. it is possible to use raw spirits contg. fusel oil. The oxidation and esterification of the higher alcs. by acetic acid bacteria impart desirable flavor and aroma, superior to the product made from pure spirits. Raw spirits from fruits, grain (rye), and potatoes contg. not more than 4.0 g. of fusel oil per ml. can be used. In potato spirits as much as 92% of fusel oil was oxidized and esterified. The great fluctuations of the fusel oil in the raw spirits cause weakening of the activity of acetic acid bacteria. Jan Micka

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CA

11D

Investigations with hormones on plants grown for use in the production of alcohol. J. Malcher and C. K. Medal. *Věstník Česk. Akad. Zemědělské* 19, 162-8(1943); cf. *C.A.* 38, 6329[1]. —Hormone treatment of barley seed and potato tuber cuttings increased the yield, the increase being 5.5% with barley, 13.7% with the potato variety "Erstling," 22% with Ackersegen, and 27% with Kurba. Hormone treatment increased the percentage of N in barley and lowered the ash content compared to that of the control. N, starch, and ash content in potato tubers were all greater than the corresponding values of the control. Yield in treated beets, however, was lowered by hormone treatment. The treated beets remained green longer than the untreated. The yield of roots was 5.2% lower than the control; the yield of tops was 15% higher. Treated barley was more susceptible to barley stripe than was the control. Heteroauxin in concns. of 0.001, 0.0015, and 0.002% in alc. soln. was used to treat the barley. Potatoes were treated with 0.002% and 0.006% solns. of heteroauxin. Other expts. on potatoes were made with 8 tablets of Euradin in 200 l. H_2O applied to 25 kg. of seed potatoes, and with 8 tablets of Euradin plus 0.5 g. of α-naphthyloctylacetic acid in 25 l. H_2O applied to 25 kg. of seed potatoes. Beet seed was treated with 1 tablet of Euradin in 5 l. H_2O applied to 5 kg. of seed.

Nellie M. Payne

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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PROCESSES AND PROPERTIES INDEX

CA

16

The traces of copper and iron in alcohol. J. Knop and J. Malcher. *Chem. Obsor* 14, 209-12 (1939).—A spectrum of the residues from raw alcs. showed the elements Al, Ca, Cu, Fe, K, Na, Mg, Mn and Si. The Fe lines exceeded those of Cu in intensity. For the Cu detns. neutralize 25 cc. of raw alc. with NaOH, mix with 25 cc. H_2O, add 5 cc. of a diphenylcarbazide reagent (0.1 g. of diphenylcarbazide in 50 cc. EtOH and 50 cc. C_6H_6), dil. to 100 cc. with C_6H_6, shake and allow the mixt. to stand quietly for several hrs. Remove the colored C_6H_6 layer and compare it to a $Cu(NO_3)_2$ in EtOH soln. contg. 0.00145-0.00029 mg. Cu per cc. In 9 specimens of raw alc. prepd. in Czechoslovakia the Cu content ranged from 0.2 to 5.2 mg. per l. Refined alc. contained 0.001 mg. Cu per l. For the Fe detns. take 25 cc. of neutralized raw alc., add 0.25 cc. of concd. HCl, 0.25 cc. of concd. HNO_3 and 5 cc. of a 10% KCNS, dil. to 100 cc. with water, and allow to stand for 1 hr. Compare the colored soln. with a standard $FeCl_3$ soln. contg. 0.002 mg. Fe per cc. In 8 specimens of raw alc. prepd. in Czechoslovakia the Fe content ranged from 0.7 to 42.9 mg. per l. Refined alc. contained 0.02 mg. Fe per l. The presence of Fe in the ratio Fe:Cu::5:1 did not interfere with the Cu detns. Elec. cond. detns. confirmed the analyses. In the residues from 9 different distilleries the Cu content ranged from 7 to 21 mg. per l. and the Fe content ranged from 3 to 12 mg. per l., the Cu content exceeding that of Fe in all residues. The method enables a study of the *corrosion of stills* and an evaluation of the *keeping qualities of motor fuel*, i. e., catalytic effect of Fe and Cu upon the formation of resins and unsatd. hydrocarbons.

Frank Maresh

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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BODALSKI, Tadeusz; MAICHER, Ewa

Appearance of rutin and its determination in Dictamnus albus L. leaves. Acta Pol. pharm. 21 no.1:51-55 '64.

Determination of rutin in 5 species of Ruta. Ibid.:55-58

1. Z Katedry Farmakognozji Akademii Medycznej we Wrocławiu (Kierownik: prof. dr T. Bodalski).

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BODALSKI, Tadeusz; MALCHER, Ewa; LOKAY, Marian

Determination of anthra-compounds in fruits of 20 strains of Rhamnus L. Acta Pol. pharm. 21 no.2:131-134 '64.

1. Z Katedry Farmakognozji Akademii Medycznej we Wrocławiu (Kierownik: prof. dr. T. Bodalski).

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SUMAROKOV, O.M.; UTKIN, I.A.; MAL'CHENOK, V.O.

Sectional magnitostriction vibrator for percussive-rotary drilling. Biul. nauch.-tekh. inform. VIMS no.2:76-77 '63. (MIRA 18:2)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

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SUMAROKOV, O.M.; UTKIN, I.A.; MAL'CHENOK, V.O.

Combined vibrator for percussiv rotary drilling. Biul.nauch.-tekh.inform VIMS no.1:97-98 '63. (MIRA 18:2)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MAL'CHENOK, V.O.; UTKIN, I.A.

Effect of high external pressure on the destruction of the material in the treatment of solids with sound. Akust.zhur. 6 no.1:128 '60. (MIRA 14:5)

(Sound waves) (Ultrasonic waves—Industrial applications)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MAL'CHENOK, V.O.

Potentialities for increasing the output of impact-cable boring machinery. Zap.Len.gor.inst. 36 no.1:240-255 '58. (MIRA 12:4)

(Boring machinery)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MAL'CHENOK, V.O.

AUTHOR: Mal'chenok, V.O. 132-58-4-7/17

TITLE: Calculation of Acceleration and Falling Speed of a Drilling Stem in Cable-Percussion Boring (Opredeleniye uskoreniya i skorosti padeniya snaryada pri udarno-kanatnom burenii)

PERIODICAL: Razvedka i Okhrana Nedr, 1958, Nr 4, pp 23-30 (USSR)

ABSTRACT: Fourteen different formulae are given by which the acceleration and speed of a falling drilling stem can be calculated. There are 4 tables and 3 graphs.

ASSOCIATION: VITR

AVAILABLE: Library of Congress

Card 1/1 1. Drilling machines-Operation

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MAL'CHENOK, V.O.; SUMAROKOV, O.M.

Prospects for developing the vibration drilling method. Trudy VITR no.1:389-412 '58. (MIRA 12:1)
(Boring)

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MAL'CHENOK, V. O. Cand Tech Sci -- (diss) "Study of drilling regimes. According to the example of the utilization of cable-impact drilling machine-tools in the Noril'sk combine." Len, 1958. 16 pp (Min of Higher Education. Len Mining Inst im G. V. Plekhanov), 150 copies (KL, 52-58, 102)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MAL'CHENOK, V. O., SUMARKOV, O. M.

"Possibilities in Applying Oscillatory Processes in Drilling"

(New Developments in the Methods and Techniques of Geological Exploration) Leningrad, Gostoptekhizdat, 1958. 423 p. (Series: Its: Sbornik trudov I)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MAL'CHENOK, V. O.

Mal'Chenok, V. O. -- "Investigation of Systems of Boring, on the Example of the Shock-Cable Boring Machines Used in the Mines of the Noril'sk Kombinat." Min Higher Education. Inst of Nonferrous Metals and Gold imeni M. I. Kalinin. Moscow, 1956. (Disseration For the Degree of Candidate in Technical Sciences).

So: Knizhnaya Letopis', No. 11, 1956, pp 103-114

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MAL'CHENKOVA, S.V.; LATYNNIK, A.A., elektromekhanik

Device for checking the output limitation of IGIO apparatus. Avtom., telem. i sviaz. 9 no.1:37 Ja '65. (MIRA 18:2)

1. Starshiy elektromekhanik Bryanskoy distantsii Moskovskoy dorogi (for Mal'chenkova).

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L 08555-67

ACC NR: AP6033919

hr, as opposed to 20—24 hr for standard methods. Orig. art. has: 3 figures. [W.A. 50]

SUB CODE: 06/ SUBM DATE: none

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

L 08555-67 EWT(1) JK

ACC NR: AP6033919 SOURCE CODE: UR/0177/66/000/010/0062/0065

AUTHOR: D'yakov, S. I. (Lieutenant colonel, Medical corps, Docent); Malchenkov, A. M. (Docent)

ORG: none

TITLE: Immunofluorescent method for rapid determination in native materials of antibiotic sensitivity in microbial agents

SOURCE: Voyenno-meditsinskiy zhurnal, no. 10, 1966, 62-65

TOPIC TAGS: ~~clinical method~~, immunofluorescent method, antibiotic sensitivity, ~~diagnostic medicine~~ antibiotic, drug effect, microbiology

ABSTRACT: A rapid immunofluorescent method for determination of antibiotic sensitivity in microbes has been developed which takes less time than standard methods, which take at least 20 hr. Petri dishes containing antibiotic disks between thick layers of nutrient media are seeded with suspensions of unknown materials. The dishes are then incubated briefly, treated with a fluorescent chemical, and studied microscopically. Nonsensitive, sensitive, and weakly sensitive cells were clearly distinguishable by the way they fluoresced. This method was comparable in accuracy to standard bacteriological methods and generally took five

Card 1/2 UDC: 576.8.097.22:615.779.9

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MALCHENKOV, A.M.

Dynamics of degenerative changes of E. coli under the influence of subbactericidal doses of disinfectants. Mikrobiologiia 32 no.1:74-79 '63 (MIRA 17:3)

1. Voyenno-meditsinskaya akademiya imeni Kirova.

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MALCHENKOV, A.M.

Effect of disinfectants on the morphology and biology of a bacterial cell. (Electron microscopic study on structural and morphological changes of Escherichia coli. Zhur.mikrobiol., epid. i immun. 33 no.8:3-8 Ag '62. (MIRA 15:10)

1. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova.
(ESCHERICHIA COLI) (DISINFECTION AND DISINFECTANTS)

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MALCHENKOV, A.M.

Effect of disinfectants on biological and serological properties of Escherichia coli. Mikrobiologiia 30 no.6:1028 N-D '61. (MIRA 14:12)

1. Voyenno-meditsinskaya akademiya, Leningrad.
(ESCHERICHIA COLI) (ANTISEPTICS)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MALCHENKOV, A. M.

Effect of disinfectants on the morphology and biology of the bacterial cell. Mikrobiologiia 30 no.3:466-472 My-Je '61. (MIRA 15:7)

1. Voyenno-meditsinskaya akademiya, Leningrad.

(DISINFECTION AND DISINFECTANTS)
(BACTERIA, EFFECT OF DRUGS ON)

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D'YAKOV, S.I.; IVANOVA, A.N.; MALCHENKOV, A.M.

Comparative evaluation of microbiological applications of phase and anoptral methods of contrasting. Zhur.mikrobiol.,epid.i immun. 30 no.12:112-114 D '59. (MIRA 13:5)

1. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova.
(MICROSCOPY)
(MICROORGANISMS)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MALCHENKOV, A.M.

Bactericidal and bacteriostatic properties of some new preparations. Zhur.mikrobiol.epid. i immun. 30 no.5:147 My '59. (MIRA 12:9)

1. Iz Voyenno-meditsinskoy akademii imeni S.M.Kirova.
(BACTERIA, EFFECT OF DRUGS ON)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MALCHENKOV, A.M.; D'YAKOV, S.I.

Using the anoptral method of microscopy in bacteriological practice. Lab.delo 3 no.4:28-30 Jl-Ag '57. (MIRA 10:8)

1. Iz kafedry mikrobiologii Voyenno-meditsinskoy ordena Lenina akademii nauk S.M.Kirova
(PHASE MICROSCOPY) (BACTERIOLOGY)

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38345 MALCHENKOV, A. M.

O bakteriologicheskoy diagnostike gemotoraksov i empiyem posle ognestrel'nykh raneniy grudnoy kletki. Bestnik khirurgii im. Grekova, 1949, No 5, s. 37-41

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ISAKOV, V.A.; MAL'CHENKO, Yu.I.; TEN, N.A.; KHARTOVICH, Yu.I.

Advantage of mining low-grade ores in the "Sokol'noye" deposit mines. Trudy Inst. gor. dela AN Kazakh. SSR. 19:9-18 '65.
(MIRA 18:12)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

ISAKOV, V.A.; KADYRBAYEV, E.M.; MAL'CHENKO, Yu.I.; KHARTOVICH, Yu.I.

Ways of increasing the productivity of scraper ore handling in systems with mass caving. Trudy Inst.gor.dela AN Kazakh. SSR 9:28-35 '62. (MIRA 15:8)
(Leninogorsk region (East Kazakhstan Province)—Ore handling)

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GALIMZHANOV, K.G.; BOGUSLAVSKIY, R.A.; ISAKOV, V.A.; KUTUZOV, D.S.; MAL'CHENKO, Yu.I.; TEN, N.A.; GOLOVANOVA, A.V., otv. red. CHASOVIKOVA, Z.I., tekhn. red.

[Progressive practice in working medium-thick ore bodies of the Sikolovka deposit]Peredovoi opyt razrabotki rudnykh tel srednei moshchnosti sokol'nogo mestorozhdeniia. [By] K.G. Galimzhanov i dr. Alma-Ata, TSentr. in-t nauchno-tekhn. informatsii, 1962. 74 p. (MIRA 15:9)
(Kustanay Province--Mining engineering)

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ISAKOV, V.A.; MAL'CHENKO, Yu.I.

Method of determining the minimum commercial metal content of complex ores. Trudy Inst.gor.dela AN Kazakh.SSR 8:40-45 '61. (MIRA 15:4)

(Ores--Sampling and estimation)

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GALIMZHANOV, K.G.; ISAKOV, V.A.; MAL'CHENKO, Yu.I.

Experimental testing of a variant of the panel caving system with ore breaking in the haulageways of the mine named in honor of the 40th Anniversary of the All-Union Lenin's Young Communist League. Izv. AN Kazakh. SSR. Ser. gor. dela no.1:18-24 '61. (MIRA 15:2)

(Sokol region (Kazakhstan)--Mining engineering)

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USPANOV, K.Ye.; ISAKOV, V.A.; MAL'CHENKO, Yu.I.; ALBOROV, Z.B.; GALIMZHANOV, K.G.; KUTUZOV, D.S.

Systems of mining thin and medium thickness sections of the Sokol'noye deposit. Trudy Inst. gor. dela AN kazakh. SSR 7:38-48 '60. (MIRA 14:6)
(Leninogorsk region(East Kazakhstan Province)--Mining engineering)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

GALIMZHANOV, K.G.; ISAKOV, V.A.; MAL'CHENKO, Yu.I.

Comparing alternate mining systems with ore breaking through horizontal and upward holes in the "Sokol'nyy" deposit area. Izv. AN Kazakh. SSR. Ser.gor.dela no.2:1-12 '60. (MIRA 13:10)
(East Kazakhstan Province--Mining engineering)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

USSR / Diseases of Farm Animals. Diseases Caused by Protozoa. R

Abs Jour : Ref Zhur - Biol., No 22, 1958, No 101346

Authors : Kolomakin, G. A.; Sarsenov, U. S.; Mal'chenko, Ye. N.

Inst : Institute of Veterinary Medicine of the Kazakh Affiliate of the All-Union Academy of Agricultural Sciences imeni Lenin.

Title : Recommended Intervals in Performing Blood Tests According to the Complement Fixation Reaction in the Presence of Malanders.

Orig Pub : Tr. In-ta vet. Kazakhsk. fil. VASKhNIL, 1957, 8, 330-332.

Abstract : Experiments on the control of mating disease in horses proved that a 3 times repeated blood serum examination according to BSR [Blood Serum Reaction] with short intervals (10 - 15 days) is more effective than when the horse herds are examined every 30 days, as has been stipulated previously. -- L. S. Kirichenko.

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MAL'CHENKO,V.S.

Effect of self-absorption on the intensity of spectral lines in d.c. arcs. Izv. AN SSSR. Ser. fiz. 19 no.1:30-31 Ja-F '55. (MLRA 8:9)

1. Sibirskiy Fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni V.V.Kuybysheva
(Spectrum analysis) (Spectrometer)

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SLIVETS, D.F. (Dnepropetrovsk); MAL'CHENKO, V.P. (Dnepropetrovsk)

Progressive scientist. Put' i put. khoz. 9 no.10:36-37 '65.
(MIRA 18:10)

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MAL'CHENKO, V.M.; RUDNIK, A.V.; DZYUBA, M.L.; ROSSOSHANSKAYA, V.A.; AZAROVA, O.A.; KRAVCHENKO, Z.I.; STRIZHEV, A.N.; SUPRUNENKO, I.M.; PEVZNER, V.I., tekhn.red.

[Collective-farm calendar for 1960] Kalendar' kolkhoznika na 1960 god. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 175 p. (MIRA 12:12)

(Calendars) (Agriculture)

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SAVKEVICH, I.A., inzh.; MAL'CHENKO, V.I., inzh.; KLEBANOVA, M.M., inzh.; OSTAPENKO, V.D., kand.tekhn.nauk

Semidry pressing of roofing tiles. Stroi.mat. 5 no.11: 27-28 N '59. (MIRA 13:3)
(Voronezh--Tiles, Roofing)

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MAL'CHENKO, V.I.; LEVIN, Ya.B.

Structural defects in presses for the SM-143 stiff mud process.
Ogneupory 19 no.1:35-38 '54. (MIRA 11:8)
(Refractory materials) (Power presses)

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MAL'CHENKO, V.I.

Mechanization of charging ball-like briquets in shaft kilns.
Ogneupory 18 no.4:186-188 Ap '53. (MIRA 11:10)

1. Semilukskiy shametnyy zavod.
(Kilns) (Briquets)
(Refractories industry--Equipment and supplies)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700016-6

MAL'CHENKO, V. I.

"The Gershkovich clay-cutting machine"

Ogneupory, No. 9, 1949

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L 06386-67

ACC NR: AP6021255

Klein-Gordon equation

$$(\Delta + s - m^2)\varphi(\vec{x}) = gc(s, \vec{x})\varphi(\vec{x}).$$

under certain assumptions about the potential function $c(s, \vec{x})$. Orig. art. has: 14 formulas.

SUB CODE: 12,20/ SUBM DATE: 01Apr65/ ORIG REF: 007/ OTH REF: 001

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L 06386-67 EWT(1) LJP(c) GG

ACC NR: AP6021255 SOURCE CODE: UR/0041/66/018/002/0126/0129

24
B

AUTHOR: Mal'chenko, V. I. (Dnepropetrovsk)

ORG: none

TITLE: The inverse problem for quantum mechanics equations with energy-dependent potentials

SOURCE: Ukr matem zh, v. 18, no. 2, 1966, 126-129

TOPIC TAGS: particle motion, integral equation, Fredholm equation

ABSTRACT: The inverse problem to that of finding the dispersion of elementary particles with energy-dependent potentials is studied: i. e., given the dispersion, to find the potentials. A method is constructed which serves to reconstruct the potential in terms of the dispersion amplitude both in the approach of quantum mechanics and in that of quasi-optics. From the integral equation for the amplitude $f(s, \vec{\sigma})$, the following limiting equation is derived:

$$\lim_{\gamma\to\infty,\ \sigma<2\gamma} f(s, \vec{\sigma}, i\gamma) = -\frac{g}{4\pi}\int d\vec{x}c(s, \vec{x})e^{-i\vec{\sigma}\vec{x}}.$$

and this relation allows the construction of a solution of the inverse problem of the

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Double dispersion relations... S/056/61/040/002/026/047
B112/B214

Ukr. matem. zhurn., 11, 3, 1959). The result is widened in the present paper to include a double dispersion relation. With the help of this relation, the following statement may be made about the meson-nucleon scattering: The radius of meson-nucleon interaction is $Q = 0.86 \cdot 10^{-13}$ cm if the mass of the nucleon is taken to be infinite. This result agrees with the value obtained by H. Lehmann (Nuovo Cim., 10, 578, 1958). There are 5 references: 2 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Dnepropetrovskiy gosudarstvennyy universitet (Dnepropetrovsk State University)

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S/056/61/040/002/026/047
B112/B214

AUTHOR: Mal'chenko, V. I.

TITLE: Double dispersion relations for potential scattering

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40, no. 2, 1961, 546-548

TEXT: A class of cases of elastic scattering is considered, where the potential has the form

$$V(r) = F(r)\, r^{-1}\, e^{-\alpha r}, \quad \alpha > 0.$$

The behavior of the scattering matrix T is studied in the complex t-plane as a function of the squares of the (real) momentum k and the (complex) recoil momentum $\sqrt{t}$. It is shown that $T(k^2, t)$ is capable of analytical continuation for all real k in the t-plane cut along the real axis from the point $4\alpha^2$ to infinity if the potential factor F(r) satisfies certain conditions. Accordingly, T is an analytic function of $E = \sqrt{k^2 + m^2}$ and t. This makes it possible to generalize a dispersion relation for T(E, t) derived by the present author in a previous paper (Ref. 1:

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32216

On a converse problem S/139/61/000/004/005/023
E032/E314

There are 5 references: 2 Soviet-bloc and 3 non-Soviet-bloc. The English-language references read as follows: Ref. 1 - T. Kato - Comm. on Pure and Appl. Math., 12, No. 3, 1959; Ref. 3 - N.N. Khuri - Phys. Rev., 107, No. 4, 1957 and Ref. 5 (quoted in text).

ASSOCIATION: Dnepropetrovskiy gosuniversitet (Dnepropetrovsk State University)

SUBMITTED: May 3, 1960

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$$\lim_{m \to \infty} T(a + im, \underline{\tau})/E = 2\lambda \int e^{i\underline{\tau}\underline{x}} V(\underline{x}) d\underline{x} \qquad (11) .$$

This result may be obtained from a direct examination of $T(k, \underline{\tau})$ using the theory put forward by N.N. Khuri (Ref. 5 - Phys. Rev., 109, No. 1, 1958). If $R(k, \underline{\tau})$ denotes the scattering matrix for the Dirac equation (Ref. 5) then for all real $\tau \leqslant a$

$$\lim_{m \to \infty} R(a + im, \underline{\tau}) = \lambda \int e^{i\underline{\tau}\underline{x}} V(\underline{x}) d\underline{x} \qquad (12) .$$

It is concluded that the problem can be solved uniquely for Eq. (8) and the Dirac equation, using Eqs. (11) and (12). Acknowledgments are expressed to Yu.M. Berezanskiy for discussions.

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and m is the mass of the particle. In this case, the potentials $V(\underline{x})$ are chosen so that

$$|V(\underline{x})| \leqslant F_1(x), \quad V^2(\underline{x}) \leqslant F_1(x) \leqslant N_1/x^2 \tag{10}$$

where

$$\int_0^\infty F_1(x)x^s dx \leqslant M_1 < \infty, \quad (s = 1, 2) \tag{6'}$$

With these limitations the solution of Eq. (8) exists for all fixed k. The scattering matrix $T(k, \underline{\tau})$ can be constructed as in Ref. 4 (the author - UMZh, 11, No. 3, 1959) and is defined for all real $k^2 \geq \tau^2/4$. Next, consider $T(k, \underline{\tau})$ for $k = a + im$, where a is a finite number as large as desired. Then, for all finite and real $\tau \leq 2a$

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then the scattering amplitude exists for all $k^2 \geq \tau^2/4$ and has the property that for all finite and real momentum transfers τ

$$\lim_{k \to \infty} f(k, \underline{\tau}) = -\frac{\lambda}{4\pi} \int e^{i\underline{\tau}\underline{x}} V(\underline{x}) d\underline{x} \qquad (7).$$

The converse problem can therefore be solved for the Schroedinger equation using Eq. (7). In the case of relativistic particles with spin 0 one must use the Klein-Gordon equation

$$(\Delta + k^2)\psi(\underline{x}) = (2\lambda E V(\underline{x}) - \lambda^2 V^2(\underline{x}))\psi(\underline{x}) \qquad (8)$$

where

$$E = \pm\sqrt{k^2 + m^2} \qquad (9)$$

X

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On a converse problem ...

where $\exp(ikx)$ represents the incident plane wave
$I_{mk} = 0$ and
v satisfies the condition

$$v = O(1/x) \tag{3}$$

$$\frac{\partial v}{\partial x} - ikv = O\left(\frac{1}{x}\right) \tag{4}$$

If the potential $V(\underline{x})$ is such that

$$|V(\underline{x})| \leqslant F(x) \leqslant N/x^2 \tag{5}$$

$$\int_0^\infty F(x)x^s dx \leqslant M < \infty \quad (s = 1, 2) \tag{6}$$

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E032/E314

24.4400

AUTHOR: Mal'chenko, V.I.

TITLE: On a converse problem in quantum mechanics

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, no.4, 1961, 28-29

TEXT: This note is concerned with the following problem: using the known elastic-scattering amplitude $f(k, \underline{x})$ for quantum mechanical particles, determine the scattering potential. In the nonrelativistic case the solution of the scattering problem is equivalent to the solution of the Schroedinger equation

$$(\Delta + k^2)\psi(\underline{x}) = \lambda V(\underline{x})\psi(\underline{x}) \qquad (1)$$

the form of the solution being

$$\psi(\underline{x}) = e^{ik\underline{x}} + v \qquad (2)$$

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