L 29607-66

ACC NR: AP6013376

Data on the angular distribution of positively and negatively charged pions show practically no asymmetry. This may be due to the fact that the principal transitions which take place in the production of these mesons at 600 Mev are the (Sp)-transition in σ_{01} and the resonance (Pp)-transition in the partial cross section σ_{11}, which take place independently. The total measured cross section for production of both types of pions is $(1.3 \pm 0.2) \cdot 10^{-27}$ cm^2 which does not contradict the relationship between the cross sections based on the hypothesis of charge invariance and may be used for determining the cross section for production of π-mesons in nucleon-nucleon collisions with a total isotopic spin of: $\sigma^{\pi}_{T=0} = (2,7 \pm 1,2) \cdot 10^{-27}$ см^2. A comparison of the value found for $\sigma^{\pi}_{T=0}$ with $\sigma^{\pi}_{T=1} = (10.1 \pm 0.6) \cdot 10^{-27}$ cm^2 shows that the effect of nonresonance transitions cannot be disregarded in phenomenological models of meson production in nucleon-nucleon collisions in spite of the predominant part played by resonance processes. The authors thank Yu. M. Kazarinov, L. I. Lapidus and Yu. N. Simonov for discussing the results of this work. Orig. art. has: 8 figures, 4 tables, 14 formulas.

SUB CODE: 20/ SUBM DATE: 22Dec65/ ORIG REF: 011/ OTH REF: 006

Card 2/2

L 29607-66 EWT(m)/T

ACC NR: AT6013376 SOURCE CODE: UR/3202/65/000/511/0001/0024

AUTHOR: Dzhelepov, V. P.; Kiselev, V. S.; Oganesyan, K. O.; Flyagin, V. B.

38
B+1

ORG: none

19

TITLE: Production of charged pi-mesons in collisions of neutrons with protons at a neutron energy of very nearly 600 Mev

SOURCE: Dubna. Ob"yedinennyy institut yadernykh issledovaniy. Doklady, R-2511, 1965. Obrazovaniye zaryazhennykh Pi-mezonov v soudareniyakh neytronov s protonami pri energii neytronov approximately equal to 600 Mev, 1-24

TOPIC TAGS: particle production, pi meson, neutron reaction, proton reaction, collision cross section

ABSTRACT: The energy spectra of the charged pions produced in (n-p)-collisions are measured at angles of 0-150°. A characteristic feature of these spectra is the high concentration of low-energy mesons. The spectral maxima are located at an energy very nearly equal to 60% of the maximum possible energy. An analysis of the energy distributions shows that the partial cross section σ_{01} has a considerable effect on particle production. The total angular distribution of the mesons has a low coefficient of anisotropy and is described by the expression:

$$\left(\frac{d\sigma^{0}}{d\Omega^{0}}\right)^{\pi^{+}+\pi^{-}}=[(1,06\pm0,08)+(0,77\pm0,19)\cos^{2}\theta]\times(1\pm0,18)\cdot10^{-28}\ \mathrm{cm}^{2}/\mathrm{sterad}$$

Card 1/2

L 29617-66

ACC NR: AT6013375

differential cross section for total production of $\pi^{\pm}$-mesons at an angle of 90° in the laboratory system is $(1.34 \pm 0.16) \cdot 10^{-28}$ cm^2/sterad, and the corresponding full cross section is $(2.70 \pm 0.35) \cdot 10^{-27}$ cm^2/sterad after all necessary corrections to the measurements have been made. The indicated errors are due to absolute normalization of the cross section and uncertainity in the calculated corrections. The cross section as determined in this paper agrees with the data in the literature. The authors take this opportunity to thank V. P. Dzhelepov for cooperation, constant interest and discussions during completion of this work. The authors thank V. S. Kiselev, V. B. Flyagin, Yu. M. Kazarinov and Yu. N. Semonov for consultation. Orig. art. has: 2 figures, 3 formulas.

SUB CODE: 18/ SUBM DATE: 22Dec65/ ORIG REF: 002/ OTH REF: 001

Card 2/2

L 29617-66 EWT(m)/T

ACC NR: AT6013375 SOURCE CODE: UR/3202/65/000/508/0001/0007

AUTHOR: Basiladze, S. G.; Yermolov, P. F.; Oganesyan, K. O.

ORG: none

48
43
B+1
19

TITLE: Cross section for production of charged pi-mesons in (n-p)-collisions at an effective neutron energy of 585 Mev

SOURCE: Dubna. Ob"yedinennyy institut yadernykh issledovaniy. Doklady, R-2508, 1965. Secheniye obrazovaniya zaryazhennykh Pi-mezonov v (n-p)-soudareniyakh pri effektivnoy energii neytronov 585 Mev, 1-7

TOPIC TAGS: scintillation detector, pi meson, particle production, collision cross section

ABSTRACT: A scintillation telescope and a liquid hydrogen target in a specially designed Dewar flask were used in measuring the cross section for production of charged pions in the reactions:

$$n + p \rightarrow \pi^{+} + n + n \ , \quad n + p \rightarrow \pi^{-} + p + p$$

Diagrams are given showing the experimental setup and the liquid hydrogen target. The neutron energy was 585 Mev. The problem of background interference is discussed. The

Card 1/2

ACCESSION NR: AP4009103

charged meson at 90° (in the laboratory system), from the reaction $n + p \rightarrow \pi^{\pm} + \ldots$ with ~600 MeV neutrons were measured with the aid of an emulsion stack. The ratio of the positive to negative pion yields was found to be 0.94 ± 0.10. The results obtained, which agree with those yielded by the magnetic spectrometer, are compared with those of other researchers and are found to agree with the resonance model of meson production developed by Mandelstam (Proc. Roy. Soc. v. A244, 491, 1958). "The authors are grateful to Prof. V. P. Dzhelepov for a useful advice and remarks and to L. I. Lapidus and V. M. Sidorov for a discussion of the results." Orig. art. has: 2 figures and 2 formulas.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 18Jun63 DATE ACQ: 02Feb64 ENCL: 01

SUB CODE: PH NO REF SOV: 005 OTHER: 006

Card 2/3

ACCESSION NR: AP4009103 S/0056/63/045/006/1835/1838

AUTHORS: Oganesyan, K. O.; Yarba, V. A.

TITLE: Spectra of charged mesons from np collisions, emitted at 90°, at approximate neutron energy 600 MeV

SOURCE: Zhurnal eksper. i teoret. fiziki, v. 45, no. 6, 1963, 1835-1838

TOPIC TAGS: np collision, charged meson emission, charged pion emission, pion spectrum, charged pion spectrum, charged meson spectrum, magnetic spectrometer measurement, emulsion measurement, pion yield ratio

ABSTRACT: In order to provide an independent check on the results obtained with the aid of a magnetic spectrometer (V. Dzhelepov, V. Kiselev, K. Oganesyan, and V. Flyagin, Proc. Intern. Conf. on High-Energy Physics at Rochester, 1960), the energy spectra of

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AFANAS'YEV, V.P.; GOLOVINA, V.A.; KOMOCHKOV, M.M.; MEKHEDOV, V.N.; OGANESYAN, K.O.; ROZHKOV, V.Ye. [deceased]; ROZANOVA, A.M.

Dosimetric check. Med. rad. 5 no.1:6-12 Ja '60. (MIRA 15:3)
(RADIATION--DOSAGE)

OGANESYAN, K.O., FLYAGIN, V.B., DZHELEPOV, V.P., KISELEV, V.S.,

"Pion Production in Neutron-Pronton Collision at 590 Mev"

paper presented at the Intl Conference on High Energy Physics, Rochester, N.Y. and/or Berkly California, Aug - 16 Sep 1960.

Investigation of the Reaction $n+p \rightarrow \pi^{0}+d$ at Effective Neutron Energies of 600 MeV and the Hypothesis of Charge Independence SOV/56-35-4-4/52

They are compared in a table with those published by Cohn (Ref 2) and by Meshcheryakov and Neganov (Ref 5). In conclusion, the authors thank Yu. D. Bayukov, M. S. Kozodayev, A. A. Markov, A. N. Sinayev, A. A. Tyapkin, L. I. Lapidus, B. M. Pontecorvo and M. M. Kuznetsov for their advice and collaboration. There are 8 figures, 3 tables, and 14 references, 7 of which are Soviet.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (United Institute for Nuclear Research)

SUBMITTED: April 30, 1958

24(5)

AUTHORS: Flyagin, V. B., Dzhelepov, V. P., Kiselev, V. S., Oganesyan, K. O.

SOV/56-35-4-4/52

TITLE: Investigation of the Reaction $n+p \rightarrow \pi^0+d$ at Effective Neutron Energies of 600 MeV and the Hypothesis of Charge Independence (Izucheniye reaktsii $n+p \rightarrow \pi^0+d$ pri effektivnoy energii neytronov 600 MeV i gipoteza zaryadovoy nezavisimosti)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol 35, Nr 4, pp 854-867 (USSR)

ABSTRACT: The hypothesis of the charge independence of nuclear forces is the fundamental basis of the present phenomenological theory; therefore, experiments carried out for the purpose of checking the validity of this hypothesis are of great importance. The authors investigated the reactions $n+p \rightarrow \pi^0+d$ and $n+p \rightarrow \pi^0+n+p$ with an apparatus of complicated structure, which is described. The neutrons originated from a synchrocyclotron, the energy amounted to 600 MeV, and the intensity of the beam was $3.10^4 cm^{-2} sec^{-1}$. The experimental order is outlined by figure 1. The γ-quanta produced by the decay of π^0-mesons were recorded

Card 1/3

New Measurements of the Spectrum of Neutrons Which are Formed During the Bombardment of Be by 680 MeV Protons SOV/56-35-3-52/61

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (United Institute for Nuclear Research)

SUBMITTED: June 21, 1958

Card 3/3

a graphite target. The effect on hydrogen was determined as the difference of these effects on these targets. When calculating the spectrum the energy losses of the protons in the targets and in the air, as well as the astigmatism of the magnetic system were taken into account. The results obtained by measuring the neutron spectrum after taking all necessary corrections into account are shown in form of a diagram. The same diagram also shows previously obtained data. This energy spectrum has 2 maxima at about 275 and 620 MeV. The spectral range of from 100 to 500 MeV contains a small admixture of protons, which are emitted in the reaction $n + p \rightarrow \pi^0 + n + p$ as well as in the reaction $n + p \rightarrow \pi^- + p + p$. The reasons for the occurrence of 2 maxima in the neutron spectrum were discussed by V. S. Kiselev and V. B. Flyagin (Ref 1). The authors thank V. P. Zrelov for his valuable advice during the discussion of the results obtained. There are 2 figures and 9 references, 4 of which are Soviet.

21(7)

AUTHORS: Kiselev, V. S., Oganesyan, K. O., Poze, R. A., Flyagin, V. B.

SOV/56-35-3-52/61

TITLE: New Measurements of the Spectrum of Neutrons Which are Formed During the Bombardment of Be by 680 MeV Protons (Novyye izmereniya spektra neytronov, obrazuyushchikhsya pri bombardirovke Be protonami 680 MeV)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol 35, Nr 3, pp 812 - 814 (USSR)

ABSTRACT: In the course of the work forming the subject of this paper it was possible, because a magnetic field was used for the analysis of the recoil protons with respect to their momenta, to do without an admixture of positive or negative mesons within the entire energy range investigated. Measurements were carried out by means of this new method for the angle of emission of 0° of the neutrons. Main attention was directed to the high energy part of the spectrum, knowledge of which is necessary for the purpose of carrying out most of the work in connection with the bundles. The scheme of the experiment is illustrated by means of a schematical drawing. A neutron bunch impinged upon a polyethylene- and

Card 1/3

USSR/Nuclear Physics - Elementary Particles. C-3

Abs Jour : Ref Zhur - Fizika, No 1, 1958, 357

for the decay of π^0 mesons, formed by various elements. The dependence of the gamma-quantum yield is close to the function

$$A^{2/3}.$$

Card 2/2

OGANESYAN, K.O.

USSR/Nuclear Physics - Elementary Particles. C-3

Abs Jour : Referat Zhur - Fizika, No 1, 1958, 357

Author : Dzhelepov, V.P., Oganesyan, K.O., Flyagin, V.B.

Inst : Joint Institute for Nuclear Research.

Title : Fornation of Neutral Mesons by Neutrons on a Deuteron and on Complicated Nuclei.

Orig Pub : Zh. eksperim. i teor. fiziki, 1957, 32, No 4, 678-681

Abstract : The yield of gamma-quanta from the decay of π^0 mesons, formed by neutrons of $\sim$590 Mev on D, has been measured at an angle of 90° in the laboratory system. The total cross sections for the formation of π^0 mesons in nd and nn collisions, determined on the basis of these measurements, turned out to be $\sigma^{\pi^0}_{nd}$ (7.4 $\pm$2.0) milibarns, and $\sigma^{\pi^0}_{nn}$ (1.7 $\pm$ 0.5) milibarns. Measurements of the relative yield of gamma-quanta were made at the same angle

Card 1/2

OGANESYAN, K.O.

USSR/Nuclear Physics - Meson production

FD-3272

Card 1/1 Pub. 146 - 31/44

Author : Dzhelepov, V. P.; Oganesyan, K. O.; Flyagin, V. B.

Title : Formation of neutral pi-mesons in (n-p) collisions for effective energy of neutrons of 590 Mev

Periodical : Zhur. eksp. i teor. fiz., 29, No 6(12), Dec 1955, 886-889

Abstract : The authors discuss apparatus consisting of telescope detector of gamma quanta, convertor, target, scatterer, neutron source, telescope detector of protons, telescope monitor, and filter, which were used in the experiments under consideration. They present the graph describing the energy distribution of the neutrons, and give various expressions for the cross-sections of pimesons in the reaction (n,p) and of hydrogen for various angles (80°, 90°). Nine references: e.g. Yu. M. Kazarinov, B. D. Balashov, V. A. Zhukov, B. M. Pontecorvo, G. I. Selivanov, all in Otchet IYaP AN SSSR, 1954.

Institution: Institute of Nuclear Problems, Academy of Sciences of the USSR [IYaP AN SSSR]

Submitted : August 2, 1955

OGANESYAN, K. Kh.

Histological characteristics of the ureters of dogs in various age groups. Izv. AN Arm. SSR, Biol. nauki 15 no.4:81-90 Ap '62. (MIRA 15:7)

1. Kafedra gistologii i embriologii Yerevanskogo meditsinskogo instituta.

(URETERS)

OGANESYAN, K.Kh.

Histological structure of ureters in cattle. Izv. AN Arm. SSR. Biol. nauki 14 no. 4:39-46 Ap '61. (MIRA 14:4)

1. Kafedra gistologii i embriologii Yerevanskogo meditsinskogo instituta.

(CATTLE—ANATOMY) (URETERS)

OGANESYAN, K.Kh., assistent

Age-related histomorphology of the ureters of the cat. Trudy Erev. med.inst. no.11:97-100 '60. (MIRA 15:11)

1. Iz kafedry gistologii (zav. - dotsent G.A.Yepremyan) Yerevanskogo meditsinskogo instituta.

(URETERS)

OGANESYAN, K.Kh.

Age histomorphology of ureters in rabbits. Izv. An Arm. SSR. Biol. nauki 12 no.10:71-79 O '59. (MIRA 13:3)

1. Kafedra gistologii i embriologii Yerevanskogo meditsinskogo instituta.

(URETERS)

OGANESYAN, K.Kh.

Age histomorphology of ureters in the domestic hen. Izv. AN Arm. SSR. Biol. i selkhoz. nauki 11 no.9:73-82 S '58. (MIRA 11:12)

1.Kafedra gistologii i embriologii Yerevanskogo meditsinskogo instituta.

(URETERS) (POULTRY--ANATOMY)

OGANESYAN, K.Kh.

Microscopic structure of the equine ureter. Izv.AN Arm.SSR.Biol.i sel'khoz.nauki 9 no.5:61-66 My '56. (MLRA 9:8)

1. Kafedra gistologii Yerevanskogo meditsinskogo instituta.
(Ureters--Histology) (Horses--Anatomy)

OGANESYAN, K.A.

Postharvest acidification of the soils in the Arazdayan Steppe. Pochvovedenie no.2:56-64 F '64. (MIRA 17:3)

1. Nauchno-issledovatel'skiy institut pochvovedeniya i agrokhimii.

OGANESYAN, Khachik Aykovich

[Quarter of a century with my listeners] [Chetvert' veka so slushateliami. Erevan, Armianskoe gos.izd-vo] 1963. 45 p. [In Armenian]
(MIRA 17:4)

ARZUMANYAN, G.; KABALALIYEV, Yu.; OGANESYAN, K.

Calculation and experimental testing of the permissible load of electric wires. Prom.Arm. 5 no.11:58-60 N '62. (MIRA 15:12)

1. Armyanskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta elektromekhaniki.

(Electric wire)

OGANESYAN, I.B.

Industrial accidents in the copper-molybdenum mines of the Kadzharan field in Armenia. Ortop., travm. i protez. 21 no.8:58-60 Ag '60.

1. Iz khirurgicheskogo otdeleniya Kafanskoy rayonnoy bol'nitsy Armyanskoy SSR.
(ARMENIA--COPPER MINES AND MINING--ACCIDENTS)

OGANESYAN, I.A., inzh.

Conference on the calculation and study of spatial flow in hydraulic turbines. Energomashinostroenie 11 no.1:48 Ja '65. (MIRA 18:4)

OGANESYAN, G.Z., inzh.

Calculating the excitation system of compound synchronous motors. Vest.elektroprom. 31 no.2:64-67 F '60.
(MIRA 13:6)
(Electric motors, Synchronous)

OGANESYAN, G. G.

Tobacco

Increasing tobacco yield in 1952. Tabak 13, No. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1952, Uncl.

USSR/Fitting Out of Laboratories. Instruments, Their Theory, Construction and Use H.

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4964

the oscillograph depends on velocity of the sound in the gas that fills the chamber and can be utilized as an indicator of the composition of the gas. The acoustic chamber is 45 cm long; at its opposite ends are located an electrodynamic loudspeaker and a crystal microphone-receiver. The chamber is set up in the branching of the main gas flow, in such a manner that the gas mixture being analyzed flows continuously through it. Optimal operation of the gas analyzer is at a frequency of 5 kilohertz, which coincides with the natural frequency of the acoustic chamber.

Card 2/2

OGANESYAN, G.A.

USSR/Fitting Out of Laboratories. Instruments, Their Theory, Construction and Use. H.

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4964

Author : Oganesyan, G.A.
Inst : Moscow Oblast' Pedagogical Institute
Title : Concerning the Acoustic Method of Gas Analysis

Orig Pub : Sb. Primeneniye ul'traakustiki k issledovaniyu veshchestva. No 3, M., MOPI, 1956, 139-145

Abstract : A brief review of acoustic gas analyzers and a description, with diagram, of the acoustic gas analyzer that has been developed. Alternating voltage supplied by a sonic generator (ZG-10) is transmitted over two channels: 1) directly to the oscillograph; 2) through a telephone, gas chamber and microphone, to the oscillograph. Both signals are squared, differentiated and are transmitted, as sharp impulses, to the Y - Y plates of the oscillograph. The distance between signals on the screen of

Card 1/2

YESAYAN, G.T.; OGANESYAN, E.Ye.; ASOYAN, E.L.

Transformations of disulfuryl chlorides. Part 2: Synthesis of 4-methyl-7-coumaryl and 8-quinolyl esters of some disulfo acids. Izv. AN Arm. SSR. Khim. nauki 18 no.3:309-312 '65. (MIRA 18:11)

1. Institut organicheskoy khimii AN ArmSSR. Submitted May 15, 1964.

YESAYAN, G.T.; OGANESYAN, E.Ye.

Synthesis of butene-2-disulfochlorides-1,4 and their interaction with amino compounds. Dokl. AN Arm. SSR 33 no.3:111-117 '61. (MIRA 14:12)

1. Institut organicheskoy khimii AN Armyanskoy SSR. Predstavleno akademikom AN Armyanskoy SSR V.I. Isagulyantsem.
(Sulfonyl chlorides)

YESAYAN, G.T.; OGANESYAN, E.Ye.; KONDZHIKYAN, G.A.

Synthesis of carbamates and thiocarbamates based on 1,3-dichloro-2-butene. Izv. AN Arm.SSR. Khim.nauki 14 no.5: 505-509 '61. (MIRA 15:1)

1. Institut organicheskoy khimii AN Armyanskoy SSR.
(Carbamic acid)

YESAYAN, G.T.; OGANESYAN, E.Ye.

Reaction of methylene iodide and thiourea. Dokl.AN Arm.SSR 31 no. 2:87-90 '60. (MIRA 13:11)

1. Institut organicheskoy khimii Akademii nauk Armyanskoy SSR. Predstavleno akademikom AN Armyanskoy SSR V.Isagulyantsem.
(Methane) (Urea)

MARKARYAN, B. Ye.; OGANESYAN, E. Ya.; ARAKELYAN, S. N.

Detailed colorimetry of galaxies NGC 2976, 3031 (M 81), 3034 (M82), and 3077. Soob. Biur. obser. no.30:3-20 '62. (MIRA 15:10)

(Galaxies)

MARKARYAN, B.Ye.; OGANESYAN, E.Ya.

White dwarfs in Praesepe Cluster (NGC 2632). Soob.Biur.obser. no.29: 71-80 '61. (MIRA 15:1)

(Stars--Clusters)

YESAYAN, G.T.; OGANESYAN, E.Ye.; ASOYAN, E.L.

Transformations of disulfonyl chlorides. Part 1: Interaction of alkanedisulfonyl chlorides with phenols and aromatic amines containing a halogen and a nitro group. Izv.AN Arm.SSR. Khim. nauki 17 no. 3:339-344 '64. (MIRA 17:7)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

BABAYAN, G.G.; SAYAMYAN, E.A.; GYUNASHYAN, A.P.; OGANESYAN, E.B.; VOSKANYAN, S.S.

Solubility in the system K_2SiO_3 - K_2CO_3 - H_2O at and 20°C. Izv. AN Arm.SSR. Khim.nauki. 16 no.3:221-228 '63. (MIRA 17:2)

1. Institut khimii Soveta narodnogo khozyaystva Armyanskoy SSR.

BABAYAN, G.G.; MURADYAN, S.S.; OGANESYAN, E.B.

Physicochemical properties of sodium and potassoim silicate solutions. Part 2: Vapor density of sodium silicate solutions. Izv.AN Arm.SSR.Khim.nauki 17 no. 3:290-295 '64. (MIRA 17:7)

1. Institut khimii Gosudarstvennogo komiteta tsvetnykh i chernykh metallov SSSR.

BABAYAN, G.G.; OGANESYAN, E.B.; GYUNASHYAN, A.[illegible]; GAYAMYAN, N.A.

Solubility diagram of the system NaOH - KOH - H_2O at 0 and 20°C. Izv. AN Arm SSR. Khim. nauki 16 no.6:539-545 '63. (MIRA 17:8)

1. Institut khimii Gosudarstvennogo komiteta tsvetnykh i chernykh metallov CSSR.

MANVELYAN, M.G.; BABAYAN, G.G.; VOSKANYAN, S.S.; SAYAMYAN, E.A.; OGANESYAN, E.B.

System $Na^{\cdot}$, $K^{\cdot}$, SiO_3'', CO_3'' - H_2O at 0 and 25° C.

Zhur. prikl. khim. 36 no.11:2402-2408 N '63. (MIRA 17:1)

MANVELYAN, M.G.; MIKAYELYAN, G.I.; OGANESYAN, E.B.; OVSEPYAN, E.B.; MANUKYAN, N.A.

Recovery of mineral oils with calcium metasilicate. Khim. i tekh. topl. i masel 8 no.6:33-36 Je '63. (MIRA 16:6)

1. Nauchno-issledovatel'skiy institut khimii Soveta narodnogo khozyaystva Armyanskoy SSR.
(Oil reclamation)
(Calcium silicates)

MANVELYAN, M.G.; BABAYAN, G.G.; SAYAMYAN, E.A.; VOSKANYAN, S.S.; OGANESYAN, E.B.

Investigating the solubility in the system Na_2SiO_3 - Na_2CO_3 - H_2O at 25 C. Izv.AN Arm.SSR.Khim.nauki 14 no.4:303-308 '61. (MIRA 14:10)

1. Institut khimii Sovnarkhoza Armyanskoy SSR.
(Sodium silicate) (Sodium carbonate)
(Solubility)

OGANESYAN, D.O.

Development of measurement skills. Vop.psikhol. 7 no.3:27-38 My-Je '61. (MIRA 14:6)

1. Psikhologicheskaya laboratoriya pri pedagogicheskom institute imeni Kh. Abovyana, Yerevan.
(Measuring instruments)

OCANESYAN, D.N., aspirant

Studying the weft tension on looms with microshuttles. Tekst. prom. 25 no.8:27-31 Ag '65. (MIRA 18:9)

1. Moskovskiy tekstil'nyy institut.

OGANESYAN, D.N.

Kinematic and power calculations of the weft ga[illegible] mechanism for unicolor fabric looms with microc[illegible]. Izv.vys. uchebn.zav.; tekh.tekhnol.prom. no.3:143-149 '65.

(MIRA 18:8)

1. Moskovskiy tekstil'nyy institut.

OGANESIAN, D.N.

Instruments for the measurement, recording and regulation of moisture content. Biul.tekh.ekon.inform.Gos.nauch.-issl.inst. nauch.i tekh.inform. no.2:46-50 '63. (MIRA 16:2)
(Moisture—Measurement)

OGANESYAN, D.A.

Nature of some volcanogenic rocks in the Ayotsdzor Range region. Izv. AN Arm. SSR. Nauki o zem. 18 no.5:15-18 '65. (MIRA 18:9)

1. Gosudarstvennyy proizvodstvennyy geologicheskiy komitet Armyanskoy SSR.

DZHRBASHYAN, E.T.; OGANESYAN, D.M.

Curves of the distribution of longitudinal speeds of components of a sediment transporting flow. Izv.AN Arm.SSR.Ser.tekh.nauk 16 no.2/3:77-82 '63. (MIRA 16:9)

(Hydrodynamics)

AKOPYAN, G.M.; OGANESYAN, D.A.

New data on the age of volcanic sedimentary formations in the northern and northeastern parts of the Armenian S.S.R. Izv. AN Arm.SSR.Geol.i geog.nauki 14 no.6:33-40 '61. (MIRA 15:3)

1. Upravleniye geologii i okhrany nedr pri Sovete Ministrov Armyanskoy SSR.

(Armenia--Geological time)

OGANESYAN, Dzh.

New devices for moisture measurements. Prom.Arm. 6 no.2:55-59 F '63. (MIRA 16:5)

1. Spetsial'noye konstruktorskoye byuro "Prompribor".
(Moisture—Measurement)

OGANESYAN, D.

Devices for automatic measurement of moisture content. Prom. Arm. 4 no.3:24-28 Mr '61. (MIRA 14:6)

1. Glavnyy inzh. spetsial'nogo konstruktorsnogo byuro "Prompribor."

(Electronic instruments)
(Moisture--Measurement)

OGANESIAN, A.T.

Device for measuring the residual voltage in electric condensers. Izv. AN Arm. SSR. Ser. tekh. nauk 17 no. 83-86 '64. (MIRA 17:11)

MOROZOV, Yu. N.; KALAYDZHYAN, R.A.; OGANESYAN, A.T.; TRAVUSHKIN, G.M.; TYABLIKOV, Yu.Ye.; CHESTNIKOV, V.M.; FONGAUZ, V.N.

Instrumentation of hydropulsating racks manufactured in the Soviet Union. Zav.lab. 28 no.10:1270-1274 '62 (MIRA 15:10)

1. TSentral'nyy nauchno-issledovatel'skiy institut stroi'tel'nykh konstruktsiy, Spetsial'noye konstruktorskoye byuro ispytatel'nykh mashin i Armavirskiy zavod ispytatel'nykh mashin.
(Testing machines)

OGANESYAN, A.S.; DEMIRCHYAN, A.A.

Glucose transport regulation in a brain cell. Dokl. AN Arm. SSR 40 no.5.285-288 '65. (MIRA 18:7)

1. Institut Biokhimii AN ArmSSR. Submitted January 29, 1965.

OGANESYAN, A.S.; DEMIRCHYAN, A.A.; KAZAROVA, Ye.K.

Interrelationship between insulin and strophantin in the process of glucose transport. Izv. AN Arm. SSR. Biol. nauki 18 no.4:3-8 Ap '65. (MIRA 18:5)

1. Institut biokhimii AN Armyanskoy SSR.

OGANESYAN, A.S.

New data on carbohydrate metabolism in nephritis patients.
Izv. AN Arm. SSR. Biol. nauki 17 no.12:99-100 D '64.
(MIRA 18:3)

1. Institut biokhimii AN Armyanskoy SSR.

OGANESYAN, A.S.

Effect of insulin on the glucose absorption by a kidney tissue. Izv. AN Arm. SSR. Biol. nauki 17 no.8:85-86 Ag '64. (MIRA 17:10)

1. Institut biokhimii AN Armyanskoy SSR.

OGANESYAN, A.S.

Activity of adenosine triphosphate-phosphohydrolase in some tissues of rabbits with alloxan diabetes. Izv. AN Arm. SSR. Biol. nauki 17 no.2:33-38 F '64. (MIRA 17:8)

1. Institut biokhimii AN Armyanskoy SSR.

OGANESYAN, A.S.

Mechanism of the action of insulin. Izv. AN Arm. SSR. Biol. nauki 16 no.9:23-32 S'63 (MIRA 17:7)

1. Institut biokhimii AN Armyanskoy SSR.

OGANESYAN, A.S.

Effect of strophantin on some aspects of renal function. Vop. biokhim. 3:159-169 '63. (MIRA 17:12)

1. Institute of Biochemistry, Academy of Sciences of the Armenian S.S.R., Erevan.

OGANESYAN, A.S.; DEMIRCHYAN, A.A.

Effect of insulin on the reabsorption of glucose and sodium in the kidneys. Vop. biokhim. 3:147-158 '63. (MIRA 17:12)

1. Institute of Biochemistry, Academy of Sciences of the Armenian S.S.R., Erevan.

BUNYATYAN, G.Kh., akademik; OGANESYAN, A.S.

Role of the adenosine triphosphate-adenosinetriphosphatase system in the transport of glucose. Dokl. AN SSSR 149 no.2:442-445 Mr '63. (MIRA 16:3)

1. Institut biokhimii AN Armyanskoy SSR. 2. AN Armyanskoy SSR (for Bunyatyan).
(ADENOSINETRIPHOSPHATASE) (GLUCOSE)

OGANESYAN, A.S.

Effect of strophanthin on the adenosintriphosphatase activity of the kidneys. Dokl. AN Arm. SSR 35 no.4:177-180 '62. (MIRA 17:1)

1. Institut biokhimii AN Armyanskoy SSR. Predstavleno akademikom AN Armyanskoy SSR G.Kh.Bunyatyanom.

OGANESYAN, A.S.

Effect of phlorizon and strophanthin on the secretion of glucose and sodium with the urine of dogs. Izv. AN Arm.SSR. Biol.nauki 15 no.8:39-44 Ag '62. (MIRA 16:2)

1. Institut biokhimii AN Armyanskoy SSR.
(PHLORIZIN) (STROPHANTHIN)
(URINE—ANALYSIS AND PATHOLOGY)

OGANESYAN, A.S.; TURSHYAN, G.A.; GRIGORYAN, D.Z.

Urine formation during greatly decreased filtration in the kidneys. Izv. AN Arm. SSR. Biol. nauki 15 no.3:25-32 '62. (MIRA 15:4)
(KIDNEYS--DISEASES) (URINE)

OGANESYAN, A.S.

Mutual effect of glucose and sodium ions on their excretion with urine. Dokl. AN Arm. SSR 33 no.1:15-20 '61. (MIRA 14:9)

1. Sektor biokhimii AN Armyanskoy SSR. Predstavleno akademikom AN Armyanskoy SSR G.Kh. Bunyatyanom.
(Glucose) (Sodium in the body) (Excretion)

OGANESYAN, A.S.

Effect of glutamic acid on some aspects of renal activity. Izv. AN Arm. SSR. Biol. nauki 14 no.1:69-74 Ja '61. (MIRA 14:3)

1. Sektor biokhimii AN Armyanskoy SSR.
(GLUTAMIC ACID) (KIDNEYS)

OGANESYAN, A.S.

Problem of urine formation in kidneys. Vop.biokhim. 2:165-179 '61. (MIRA 15:12)

1. Institute of Biochemistry, Academy of Sciences of Armenian S.S.R., Erevan.

(Urine--Secretion)

OGANESYAN, A.S.; TURSHYAN, G.A.

Effect of insulin on the acitivity of alkaline and acid phosphatases in some organs of rats. Vop.biokhim. 2:159-164 '61. (MIRA 15:12)

1. Institute of Biochemistry, Academy of Sciences of Armenian S.S.R., Erevan.

(Phosphatase) (Insulin)

OGANESYAN, A.S.

Effect of adrenaline on renal activity. Izv. AN Arm. SSR. Biol. nauki 13 no. 4:75-79 Ap '60. (MIRA 13:7)

1. Sektor biokhimii Akademii nauk ArmSSR.
(ADRENALINE) (DIURETICS AND DIURESIS)

BUNYATYAN, G.Kh.; OGANESYAN, A.S.

Effect of phlorizin on certain aspects of renal activity. Vop. biokhim. 1:185-195 '60. (MIRA 14:12)

1. Department of Biochemistry, Academy of Sciences of Armenian S.S.R., Erevan.

(PHLORIZIN) (KIDNEYS)

OGANESYAN, A.S.

Role of the vagus nerve in the reabsorption of glucose in the kidneys. Vop. biokhim. 1:161-168 '60. (MIRA 14:12)

1. Department of Biochemistry, Academy of Sciences of Armenian S.S.R., Erevan.
(GLUCOSE) (VAGUS NERVE) (KIDNEYS)

BUNYATYAN, G.Kh.; OGANESYAN, A.S.

Effect of insulin and adrenalin on some phases of the activity of a denervated kidney. Izv.AN Arm.SSR.Biol. i sel'khoz.nauki 12 no.1:7-16 Ja '59. (MIRA 12:2)

1. Sektor biokhimii AN Arm.SSR.
(INSULIN) (ADRENALIN) (KIDNEYS--INNERVATION)

The Effect of Insulin Upon the Formation of Ammonia in the Kidneys and Its Elimination With Urine

SOV/20-122-5-30/56

ASSOCIATION: Sektor biokhimii Akademii nauk ArmSSR (Section of Biochemistry of the Academy of Sciences of the Armyanskaya SSR)

SUBMITTED: July 5, 1958

Card 4/4

externa. The experiments showed that the insulin added to the kidney homogenate did not have any special effect upon the activity of glutaminase. The effect of the injection in an healthy animal was quite different. The results obtained (Fig 2) indicate an indirect influence of insulin upon the activity of glutaminase. The fluctuations of the glucose level in blood affect this activity, but further investigations are still necessary. Preliminary research has shown that the glutamine content in blood rises under the influence of insulin. This also could be one of the causes of an increased ammonia secretion by the kidneys. The opinions expressed in the publications on the mechanism of ammonia transfer from the cells into the urine of the tubules are widely differing: a) either this process is said to be a passive one (diffusion, Refs 11 - 18), or b) it is an active secretion (Refs 9, 19). The authors are inclined to accept hypothesis b). There are 2 figures and 19 references, 2 of which are Soviet.

The Effect of Insulin Upon the Formation of Ammonia in the Kidneys and Its Elimination With Urine

SOV/20-122-5-30/56

activity of the carbon anhydrase. The latter accelerates the CO_2 synthesis and increases the titrable acidity of urine, which brings about an increased secretion of ammonia from the kidney tissue into urine. Certain regularities were established in numerous studies of the problem of ammonia secretion. Also differences of species were discovered with some animals (Refs 2, 3). Former studies of both authors (Refs 4, 5) proved a favorable effect of small doses of insulin upon the activity of healthy kidneys; they reinforced the process of filtration and secretion and increased diuresis. Also an inflammated kidney was favorably affected in dogs. In connection with this and with other data given in the publications (Refs 6 - 8), the authors have tried to study the problem mentioned in the title. For this purpose they performed experiments with dogs whose ureter was made to lead to the skin of the abdomen according to the method of Pavlov-Orbeli. For two hours urine was collected every 15 minutes, after insulin solved in a physiological solution of common salt had been injected into the vena jugularis

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17(3)

AUTHORS: Burgatyan, G. Kh., Member, AS ArmSSR, Oganesyan, A. S. SOV/20-122-5-30/56

TITLE: The Effect of Insulin Upon the Formation of Ammonia in the Kidneys and Its Elimination With Urine (Deystviye insulina na obrazovaniye ammiaka v pochkakh i vydeleniye yego s mochoy)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 5, pp 855 - 858 (USSR)

ABSTRACT: The secretion of ammonia represents one of the most important functions of the kidneys. Ammonia formed in the tissues is neutralized by corresponding processes (urea and glutamine synthesis, formation of amino acids from keto acids, etc.). A certain portion of the free ammonia is transported by blood into the kidneys and secreted with urine. However, the main part of ammonia (according to numerous data in the publications, Ref 1) is formed at the cost of the fermentative decomposition of glutamine. Glutamine decomposition occurs in the cells of the renal tubules with the cooperation of glutaminase, whose activity determines the intensity of secretion of ammonia. There is probably a relationship also between the secretion of ammonia by the kidneys and the

Card 1/4

OGANESYAN, A.S.

Effect of insulin on phosphate reabsorption in renal tubules.
Dokl. AN Arm. SSR 26 no.1:21-27 '58. (MIRA 11:5)

1.Institut fiziologii Akademii nauk Armyanskoy SSR. Predstavleno G.Kh. Bunyatyanom.
(INSULIN) (KIDNEYS) (PHOSPHORUS METABOLISM)

BUNYATYAN, G.Kh.; OGANESYAN, A.S.

Some aspects of the effect of adrenalin on the function of intact and denervated kidneys. Izv. AN Arm. SSR Biol. i sel'khoz. nauki 11 no.6:3-11 Je '58. (MIRA 11:7)

1.Institut fiziologii AN Arm-SSR.
(KIDNEYS--INNERVATION) (ADRENALIN)

OGANESYAN, A.S.

Role of insulin in the regulation of renal function. Izv.AN Arm. SSR,Biol.i sel'skoz.nauki 10 no.6:57-62 Je '57. (MLRA 10:8)

1.Institut Fiziologii Akademii nauk Armyanskoy SSR.
(INSULIN) (KIDNEYS)

USSR/Human and Animal Physiology. Nervous System. T
Higher Nervous System. Behavior.

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93656.

cortex was transmitted to the functioning organ through the nerve and humoral pathways, and II was principally along the nerve routes. -- K.S. Ratner.

Card : 3/3

USSR/Human and Animal Physiology. Nervous System. T
Higher Nervous System. Behavior.

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93656.

amount of chlorides and phosphates were increased. Transection of the vagus nerve inhibited the function and decreased the sensitivity of the operated kidney to the stimuli, and with II it led to a disparity in activity in comparison with the normal. After complete denervation of the kidneys the filtration rate and excretion of chlorides were equalized on both sides. With the action of the non-conditioned and conditioned stimuli the same changes were noted on the operative side that were also present in the normal, but they were more incomplete and less expressed. Under the influence of conditioned inhibition the activity of the operated kidney became chaotic. It is assumed that the effect of stimulation of the

Card : 2/3

USSR/Human and Animal Physiology. Nervous System. T
Higher Nervous System. Behavior.

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93656.

Author : Oganesyan, A.S.
Inst : AS Armenian SSR
Title : Influence of Internal Inhibition on the Activity of Denervated Kidney.

Orig Pub: V sb.: Vopr. vyssh. nervn. deyat-sti i kompensatorn. prispocobleniy. Vyp. 2. Yerevan, AN Armenian SSR, 1957, 33-52.

Abstract: In dogs (4) non-conditioned (electrocutaneous) and conditioned stimuli suppressed diuresis and filtration and decreased excretion of chlorides and phosphates. With internal inhibition (II) diuresis, filtration rate, and

Card : 1/3

[illegible] within 2 min. in the appearance of P^{32} in [illegible] circulation, reaching a max. in 0.5 hr. [illegible] a stable plateau. Hence, bladder mucosa is capable of absorbing phosphates with considerable intensity. Preliminary data also indicate a similar behavior of glucose.

G. M. Kosolapoff

and chlorides in the kidneys. Izv.AN Arm.SSR. Biol. i sel'khoz. nauki 9 no.9:33-38 S '56. (MIRA 9:11)

(COLD--PHYSIOLOGICAL EFFECT) (KIDNEYS)
(PHOSPHATES) (CHLORIDES)

OGANESYAN, A.S.

The process of absorption in the bladder. G. T. Adonts and A. S. Oganesyan. Izvestiya Akad. Nauk Armyan. SSR (Biol. Nauki) 9, 3-10, 1956.—Introduction of NaH_2PO_4 into the bladder had, within 2 min., in the appearance of PO_4 in the peripheral blood circulation, reaching a max. in 0.5 hr. followed by a rapid decrease. Hence, bladder mucosa is ca-

OGANESYAN, A.S.; ANTROPOV, L.I.

Kinetics of electroreduction of acetone on a mercury cathode. Dokl.AN Arm.SSR 21 no.2:81-85 '55. (MLRA 8:12)

1. Yerevanskiy politekhnicheskiy institut. Predstavleno A.A. Akopyanom.

(Reduction, Electrolytic) (Acetone)

OGANESYAN, A.S

ADUNTS, G.T.; OGANESYAN, A.S.

[redacted]

Effect of severing the vagus nerve on diuresis and renal filtration. Izv.AN Arm.SSR.Biol.i sel'khoz.nauki 7 no.10:65-71 O '54. (MLRA 9:8)

1. Institut fiziologii AN Armyanskoy SSR.
(VAGUS NERVE) (KIDNEYS) (DIURETICS AND DIURESIS)

BUNYATYAN, G.Kh.; OGANESYAN, A.S.

Coordination in the work of the cerebral hemispheres. Izv.AN Arm. SSR.Biol.i sel'khoz.nauki 6 no.6:73-79 '53. (MLRA 9:8)

1. Institut fiziologii AN Armyanskoy SSR.
(CEREBRAL CORTEX)

OSANESYAN, A.S.

USSR

The relationship between the phosphate and glucose excretions in urine. G. Kh. Bunyatyan and A. S. Osanesyan. *Izvest. Akad. Nauk Armyan. S.S.R., Biol. i Sel'skokh. Nauki* 6, No. 5, 41-50(1953)(in Russian); *Referat. Zhur., Khim.* 1954, No. 28539.—Dogs received intravenously 6 g. glucose (I) in 80 ml. water; the infusion being repeated after 20 and 40 min. The blood and urine were then analyzed for I and inorg. P (II). After the I injection the amt. of II in urine continuously decreases reaching the 0 conen. after 50–80 min. II appears again in urine after approx. 2 hrs., when the sugar conen. in blood returns to normal. Thus, between the I conen. in blood and the II conen. in urine there is a reverse relation. It is suggested that the decreasing of II in urine following the I injection is due to the participation of II in the phosphorylation reaction during the reabsorption of I in kidneys. H. Wiesbicki

OGANESYAN,A.S.

Large intestine of the guinea pig as a test object in research on histamine. Nauch.trudy Inst.fiziol.AN Arm.SSR. 3:175-176 '50.
(HISTAMINE) (INTESTINES)
(MLRA 9:8)

OGANESYAN, A.S.

New antihistamine preparations. Nauch.trudy Inst.fiziol. AN Arm. SSR. 3:155-173 '50.
(ANTIHISTAMINES) (MLRA 9:8)

PERLOV, Ye.I.; OGANESYAN, A.S.

Determining the production costs at the various levels of automation in the chemical industries. Khim. prom. no.2: 117-122 F '64. (MIRA 17:9)

OGANESYAN, A.S., kand.med.nauk; SHCHELKUNOV, I.P.

Polypo of the duodenum. Khirurgiia 37 no.2:65-68 F '61.
(MIRA 14:1)

1. Iz kafedry khirurgii (zav. - zasluzhennyy deyatel' nauki prof. G.M. Gurevich) Khar'kovskogo meditsinskogo stomatologicheskogo instituta i 17-y bol'nitsy.
(DUODENUM--TUMORS)

OGANESYAN, A.S., kand.med.nauk; ZHIDOVTSEVA, M.I., kand.med.nauk

Bilateral ligation of the internal arteries of the mammary glands in stenocardia. Vrach. delo no.4:37-41 Ap '61. (MIRA 14:6)

1. Kafedra khirurgicheskikh bolezney (zav. - zasluzhennyy deyatel' nauki, prof. G.M.Gurevich) i kafedra vnutrennikh bolezney (zav. - prof. P.F.Frolov) Khar'kovskogo meditsinskogo instituta.
(ANGINA PECTORIS) (ARTERIES--LIGATURE)
(MAMMARY GLANDS)

SOMYSEV, A. S.

Mbr., Chair Gen. Surgery, Khar'kov Med. Inst., -c1946-. "Cancer in the Descending Colon in Children," Pediatriya, No. 3, 1946; "Treating of Soft Tissue Wounds with Sulpha-Naphthalene Oils," Khirurgiya, No. 6, 1949.

OGANESYAN, A.P., kand.sel'skokhozyaystvennykh nauk

Methods for making cartograms representing the specific resistance of soils. Zemledelie 24 no.10:42-49 O '62. (MIRA 15:11)

1. Institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva Armyanskoy SSR.
(Ararat region--Soil physics)

COUNTRY : USSR
CATEGORY : Soil Science. Physical and Chemical Properties of Soil
ABS. JOUR.: Ref Zhur-Biologiya, No.5 , 1959, No. 20044

Author : Oganesyan, A.P.
INST. : -
TITLE : A Simplified Method of Determining Soil Moisture.

ORIG. PUB.: Pochvovedeniye, 1958, No.4, 109-113

ABSTRACT : In determining soil moisture by Buyukos's "hot alcohol" method it is recommended that one use an ordinary aluminum tumbler 39 mm in height and 50 mm in diameter into the top of which a tripod is placed, covered on top with a metal screen having 0.1 mm holes. Comparative moisture determinations by the dry case and hot alcohol method made on samples of Chernozem, brown forest and brown soils (with 1.36-6.37% organic matter

CARD : 1/2