

BEGIN

REEL # 37
BARMIN, S.F.
TO

BARMIN, S.F.; KONDRASHEV, V.A.; KHALATIN, V.I.

Cutting in on a gas line with the use of rubber balls. Gaz.
pron. 4 no.7:49-50 JI '59. (MIRA 12:10)
(Gas, Natural--Pipelines)

BARMIN, S.F.; KONDRASHEV, V.A.; KHALATIN, V.I.

Emergency repair service of gas pipelines. Gaz. prom. 4 no.12:41-42
D '59. (MIRA 13:3)
(Gas pipes--Maintenance and repair)

KHALATIN, V.I., KONDRASHEV, V.A., BARMIN, S.F., MAGAZANIK, Ya. M.

Interconnecting gas mains. Gaz.prom. 5 no.2:40-41 F '60.
(Gas, Natural--Pipelines)

BARNIN, S.F.; KONDRASHEV, V.A.; KHALATIN, V.I.

Bali cocks on main pipelines. Gaz.prom. 5 no.9:42-43 S '60.
(MIRA 13:9)

(Gas, Natuzsl--Pipelines)

ANDREYEV, German Sergeevich; KHOR'KOV, A.I., red.; BARMIN, S.F.,
nauchn. red.; LEBEDEV-TSVETKOV, Yu.Yu., red.; MITROFANOV,
I.A., red.; NECHAYEV, M.A., red.; RUSAKOVA, L.Ya., ved.
red.; YASHCHURZHINSKAYA, A.B., tekhn.red.

[Firing-line method on main gas pipes] Vedenie ognevykh ra-
bot na magistral'nom gazoprovode. Leningrad, Gostoptekhziz-
dat, 1963. 110 p. (MIRA 16:10)
(Gas, Natural--Pipelines)

BARMIN, S.F.

Operations of the Serpukhov-Leningrad gas pipeline. Gaz. delo
no.9:13-16 '64. (MIRA 17:11)

1. Leningradskoye upravleniye magistral'nykh gazoprovodov.

KUBITSEKII, Mikhail Ivanovich; KHR'KOV, A.I., red.; BASHIN,
S.F., red.; TIENOMIROV, Ye.N., red.; MITROPOL'OV, I.A.,
red.; KUCHENOV, M.A., red.; LEGAL', Z.G., ved. red.

[Safety technique on main gas pipelines] Tekhnika bez-
opasnosti na magistral'nom gazoprovode. Leningrad, Izd-
vo "Nedra," 1964. 106 p. (NIRA 17:8)

TIKHOMIROV, Yevgeniy Nikolayevich; KHOR'KOV, A.I., red.; BARMIN, S.F., red.; MIROFANOV, I.A., red.; NECHAYEV, M.A., red. OL'VOVSKIY, I.G., nauchn. red.; NEVEL'SHTEYN, V.I., ved. red.

[Assembly, adjustment, and operation of devices for the electrical protection of pipelines] Montazh, naladka i ekspluatatsiya ustroystv elektrozashchity magistral'nykh truboprovodov. Leningrad, Nedra, 1964. 126 p.
(MIRA 17:12)

BARMIN, Sargay Fedorovich; MAGAZANIK, Yan Markovich; VASIL'YEV,
P.D., nauchn. red.; GITSBURG, V.I., ved. red.

[Practices in operating the GT-700-4 gas turbines] Opyt
ekspluatatsii gazovykh turbin GT-700-4. Leningrad,
Nedra, 1964. 261 p. (MIRA 18:7)

MIT' Masov, Ivan Andreyevich, BARMIN, S.F., nauch. r. ; BEGAL',
Z.G., ved. red.

[Maintenance of the linear portion of a main gas pipeline]
Obsluzhivanie lineinoy chasti magistral'nogo gazoprovoda.
Leningrad, Nedra, 1965. 146 p. (MIRA 18:4)

ALEKSANDROV, A.V.; BARMIN, S.F.; MAKSIMOV, Yu.I.; SHAKHIDZHANOV, V.S.

Using electronic computers for the rapid calculation of non-stationary regimes in the operation of gas pipelines. Gaz. prom., 10 no.4:35-39 '65. (MIRA 18:5)

BELOKON', M.I.; BIKCHENTAY, R.N.; MATVEYEV, A.V.; FORSHAKOV, B.P.;
TOLYBEKOV, B.S.; BARMIN, S.F.; MOROZ, A.F.

Field testing the GT-700-5 gas turbine installation and its
recuperator. Gaz.prom. 10 no.11:16-24 '65.

(MIRA 19r1)

BARMIN, S. I.

RF-1264 / Oil Pumps MSh-8 and MSh-17
Neftianye Motory MSh-8 i MSh-1. Moscow, 1940.
(Translation does not include illustrations)

BARMIN, S.N., inzh. (Stryy)

Using credits for improving production. Zhel. dor. transp. 40
no.8:75 Ag '58. (MIRA 11:9)
(Railroads--Finance) (Railroads--Cars--Maintenance and repair)

BARMIN, V., inzh.

Making the main index of harbor operations agree with the
schedule of ship movements. Rech. transp. 21 no.9:10 S
'62. (MIRA 15:9)
(Inland water transportation) (Harbors)

BARMIN, V.

Analyzing the work of housing management organizations. Fin. SSSR
22 no.10:81-86 0 '61. (MIRA 14:9)
(Housing management)

BUCHIN, Ye. D., kand. tekhn. nauk; BAMMIN, V. D., inzh.

Reduce time consumption by the fleet in the initial and concluding periods of the navigation season. Rech. transp. 22
no.4:15-16 Ap '63. (MIRA 16:4)

(Inland water transportation)

BARMIN, V., inzh.

New regulations for the transportation of dangerous cargo.
Rech. transp. 22 no.10:14 0 '63. (MIRA 16:12)

BARMIN, V.V., mashinist-instruktor

Locomotives are being operated by crews in shifts. Elek. i tepl.
tiega 2 no.5:24-25 '58. (MIRA 12:4)

1. Depo Sverdlovsk-Sortirovochnyy.
(Electric locomotives)

AUTHORS: Barmin, V. V., Kanavets, V.P., Morozov, B. V., 56-34-4-7/6c
~~Pershin, I. I.~~

TITLE: The Angular Correlations of the $\pi^+ - \mu^+ - e^+$ - Decays in a Propane Bubble Chamber (Uglovyye korrelyatsii $\pi^+ - \mu^+ - e^+$ - raspadov v propanovoy puzyr'kovoy kamere)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol. 34, Nr 4, pp. 830-835 (USSR)

ABSTRACT: This work investigates the angular distribution of the positrons in the $\pi^+ - \mu^+ - e^+$ -decay and determines a certain quantity "a" for propane for the entire energy spectrum of the positrons. This quantity a is contained in the term for the angular distribution of the positrons $dN = (1 + a \cos \theta)/4\pi$, which is valid in the case of non-conservation of the parity in the subsequent terms of the decay of the positive pion and of the positive myon. θ denotes the angle between the primary directions of motion of the positive myon and of the positron. For this work a propane bubble chamber with a volume of 2 liters was inserted into a beam of positive pions of the synchrocyclotron of the United Institute for Nuclear Research. The positive pions were produced by a beam of positive 650-MeV-protons in a

Card 1/3

The Angular Correlations of the $\pi^+ - \mu^+ - e^+$ - Decays
in a Propane Bubble Chamber

56-34-4-7/60

polyethylene target. The traces of the particles in the chamber were taken by a stereoscopic camera. 2 possibilities for the determination of the angular distributions are shown. A diagram illustrates the angular distributions of the positrons for 2 series of takings with 4353 and 2408 cases. The asymmetry coefficient for the first series amounts to $-0,163 \pm 0,037$. The magnetic field of 1,8 gauss causes a low depolarisation of the positive myons. For the second series of takings $a = -0,214 \pm 0,05$. From this for both series the mean value $a = -0,19 \pm 0,03$ results. Both distributions agree well with the assumption of the positive myons in the $\pi^+ - \mu^+$ -decay. Remarkable distortions in the shape of the angular distribution of the positrons can occur only as a consequence of overlooking of $\pi^+ - \mu^+ - e^+$ decays in the scanning of the film. The ratio $a_{\text{propane}}/a_{\text{carbon}}$ determines the degree of the depolarisation of the positive myons in propane. The coefficient of asymmetry for the elementary process, computed from the found mean experimental value of a , has the value $-0,256 \pm 0,033$. At the end the author thanks the Member of the Academy A.I. Ali-

Card 2/3

The Angular Correlations of the $\pi^+ - \mu^+ - e^+$ - Decays
in a Propane Bubble Chamber

56-34-4-7/60

khanov for providing the theme and the discussion of the results, G.P. Yeliseyev and V.A. Lyubimov for valuable remarks, V.P. Dzhelepov for his collaboration at the accelerator, and V.G. Zaytseva, N.S. Konoplev, I.A. Sosunov, V.M. Golubchikov, V.N. Luzin for their participation in the evaluation of the experimental data. There are 4 figures and 9 references, 2 of which are Soviet.

SUBMITTED: November 15, 1957

1. Electrons---Scattering 2. Mesons---Decay 3. Electrons---Decay

Card 3/3

21(8)

SOV/56-35-2-50/60

AUTHORS:

Barmin, V. V., Kanavets, V. P., Morozov, B. V., Pershin, I. I.

TITLE:

The Energy Dependence of the Asymmetry Coefficient in the $\pi^+ \rightarrow \mu^+ \rightarrow e^+$ Decays for the Low-Energy Part of the Positron Spectrum (Energeticheskaya zavisimost' koeffitsiyenta asimmetrii v $\pi^+ \rightarrow \mu^+ \rightarrow e^+$ -raspadakh dlya nizkoenergeticheskoy chasti spektra pozitronov)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol 35, Nr 2(8), pp 542-544 (USSR)

ABSTRACT:

Recently, the authors investigated the asymmetry coefficient a' for various parts of the energy spectrum of the protons. The energy of the positrons was measured according to the method of multiple scattering. First a formula is given for the distribution of the decay positrons; it takes the non-conservation of parity into account. The available experimental data essentially concern a constant figuring in the above-mentioned equation. The difference between the asymmetry coefficients a'_{II} and a'_{IV} (which were calculated according

Card 1/3

SOV/56-35-2-50/60

The Energy Dependence of the Asymmetry Coefficient in the
 $\pi^+ \rightarrow \mu^+ \rightarrow e^+$ Decays for the Low-Energy Part of the Positron Spectrum

to the two-component and four-component theory, respectively) in the high-energy part of the spectrum is by far lower than in the low-energy part. The experiments of the investigation of the asymmetry coefficient for the low-energy part of the spectrum are especially advantageous for the verification of the variants of the theory of the $\mu \rightarrow e$ decay. The authors used the tracks of low-energy positrons of 10 000 $\pi^+ \rightarrow \mu^+ \rightarrow e^+$ decays (Ref 1). A table gives the values of a' (for the low-energy-part of the positron spectrum) for the energy intervals $0 - 0,2\varepsilon$; $0 - 0,3\varepsilon$; $0 - 0,4\varepsilon$, where $\varepsilon = E/E_{\max}$ denotes the energy of the positrons in units of the maximum energy of their spectrum. The angular distribution of the positrons taken into account in the above-mentioned table may be described adequately by the law $1 + a \cos \varphi$. The measured values of a' in the energy region < 20 MeV are an argument in favor of the positive sign of a' . The authors thank A. I. Alikhanov, Academician, who suggested this theme and discussed the results, and also A. O. Vaysenborg for discussing some of the problems.

Card 2/3

SOV/56-35-2-50/60

The Energy Dependence of the Asymmetry Coefficient in the
 $\pi^+ \rightarrow \mu^+ \rightarrow e^+$ Decays for the Low-Energy Part of the Positron Spectrum

The authors also thank V. P. Dzhelapov who arranged the use of the π^+ -beam of the synchrocyclotron of the Ob'yedinenny institute yadernykh issledovaniy (United Institute of Nuclear Research) and A. P. Birzgal for carrying out the calculations. There are 1 figure, 1 table, and 10 references, 4 of which are Soviet.

SUBMITTED: May 21, 1958

Card 3/3

SOV/12C. 59-4-7/50

AUTHORS: Pershin, I. I., Barmin, V. V., Kanavets, V. P., Morozov, B.V.

TITLE: Application of the Second Difference Method to the Measurement of Multiple Scattering in a Propane Bubble Chamber

PERIODICAL: Priboiy i tekhnika eksperimenta, 1959, Nr 4, pp 44-49 (USSR)

ABSTRACT: A detailed description is given of the application of the second difference method to the measurement of masses and energies of electrons from multiple scattering in the propane bubble chamber described in Ref 1 by the first of the present authors. The scattering constant for propane calculated from the Williams and Molier theories is compared with the experimental values obtained from measurements on μ -mesons and positrons. Assuming that the density of propane is 0.42 g/cm^3 , the calculated scattering constant for $\beta = 0.66$ was found to be $K_1 = 4.35 \text{ Mev.deg}/\sqrt{100 \mu}$ (Williams)
 $K_1 = 4.47 \text{ Mev.deg}/\sqrt{100 \mu}$ (Molier).
For $\beta = 1.00$ the values were found to be:

Card 1/3

SOV/120-59-4-7/50

Application of the Second Difference Method to the Measurement of Multiple Scattering in a Propane Bubble Chamber

$$K_1 = 4.19 \text{ Mev.deg}/\sqrt{100 \mu} \quad (\text{Williams})$$

$$\text{and } K_1 = 4.31 \text{ Mev.deg}/\sqrt{100 \mu} \quad (\text{Molier}).$$

The experimental value for μ -mesons was found to be

$$K_\mu = 4.3 \pm 0.5 \text{ Mev.deg}/\sqrt{100 \mu} \quad \text{and for positrons}$$

$$K_e = 3.7 \pm 0.1 \text{ Mev.deg}/\sqrt{100 \mu}.$$

The errors are standard statistical deviations. The optimum cell size is obtained in the usual way and the π^+ mass was found to be $290 \pm 24 m_e$, using the above value of K_μ .

The second difference method has been used for determining the positron energies in $(\pi \mu e)^+$ decays obtained with the propane chamber. Measurements carried out over a long period of time have shown that the method may be used to measure

Card 2/3

SOV/120-59-4-7/50

Application of the Second Difference Method to the Measurement of Multiple Scattering in a Propane Bubble Chamber

positron energies in the range 5-55 Mev. There are 4 figures and 17 references, of which 5 are Soviet (2 are translations from English), 1 is Swedish, 1 is German and the rest are English.

SUBMITTED: July 18, 1958.

Card 3/3

0435

S/056/60/079/004/014/048
B004/B070

24.6900
AUTHORS: Barmin, V. V., Kanavets, V. P., Morozov, B. V.
TITLE: Polarization of μ^+ -Mesons of Cosmic Radiation
PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 39, No. 4(10), pp. 986-990

TEXT: The authors determined the degree of polarization of μ^+ -mesons at sea level for three energy intervals. The apparatus used (copper target, copper-lead filter, scintillation counters, Geiger counters) is shown schematically in Fig. 1. The target was under a solenoid by means of which a horizontal magnetic field $H = 30$ gauss could be produced. Fig. 2 shows the block diagram of the electronics. In the first two series of experiments in which the average momenta of the muons were 0.45 and 0.9 Bev/c, the ratio R of the number of positron decays with and without magnetic field was measured. In a third series, the degrees of polarization of cosmic muons with momenta 0.45 and 1.7 Bev/c were inter-compared. The authors obtained the following results:

Card 1/2

84396

Polarization of μ^+ -Mesons of Cosmic Radiation

S/056/60/039/004/014/048
B004/B070

momentum [Bev/c]	0.45	0.9	1.7
number of recorded decays	4174	4022	5882
degree of polarization	0.23±0.10	0.37±0.11	0.31±0.10

The authors mention a paper by B. A. Dolgoshein, B. I. Luchkov, and V. I. Ushakov (Ref. 7). They thank Academician A. I. Alikhanov for his interest in the work, G. P. Yeliseyev for help and discussions, and B. V. G:shkenbeyn for discussions on problems concerning calculations. There are 2 figures and 11 references: 4 Soviet, 3 US, 1 British, 1 Dutch, and 2 Italian.

SUBMITTED: May 23, 1960

Card 2/2

86893

S/056/60/039/005/000/051
B029/B077

24.6900

AUTHORS:

Barmin, V. V., Krestnikov, Yu. S., Pershin, I. I.,
Rumyantseva, V. P., Shalamov, Ya. Ya., Shebanov, V. A

TITLE:

The Asymmetry in the Decay of Λ^0 Hyperons Produced by
Negative Pions With a Momentum of 2.8 Bev/c and Observed
in a Freon Bubble Chamber

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 39, No. 5(11), pp. 1229-1231

TEXT: The distribution of decay products of Λ^0 particles with respect to their production level is described by $W(\xi) d\xi \sim (1 + \alpha \bar{P} \xi) d\xi$; the asymmetry coefficient α denotes the degree of non-conservation of parity during the decay of Λ^0 particles; \bar{P} denotes the average polarization of the hyperon over all directions of Λ^0 , and the following relation is valid too: $\bar{P} = \left[\left[\vec{p}_{\pi \text{prim}} \quad \vec{p}_{\Lambda} \right] \vec{p}_{\pi \text{decay}} \right] \cdot \vec{p}_{\Lambda}, \vec{p}_{\pi \text{prim}}$, and $\vec{p}_{\pi \text{decay}}$ are the unit vectors of the momenta of the Λ^0 particle, the primary and the "decay pions". In general, $\alpha \bar{P}$ is calculated from the formula $\alpha \bar{P} = 2(N_{\uparrow} - N_{\downarrow}) / (N_{\uparrow} + N_{\downarrow})$

Card 1/4

86893

The Asymmetry in the Decay of Λ^0 Hyperons
Produced by Negative Pions With a Momentum of
2.8 Bev/c and Observed in a Freon Bubble Chamber

S/056/60/039/005/009/051
B029/B077

N_{\uparrow} and N_{\downarrow} denote the number of pions leaving the production level in an upward or downward direction. The values of $\alpha_{\bar{P}}$ at energies above 1 Bev permit conclusions about the polarization of Λ^0 hyperons produced at these energies. Therefore, the authors investigated the asymmetry in the decay of Λ^0 hyperons which were produced on light nuclei by negative pions with a momentum of (2.8 ± 0.3) Bev/c in a 17-liter Freon bubble chamber without a magnetic field. The measurements were made with a beam of negative mesons of the proton synchrotron of OIYaI (Joint Institute of Nuclear Research). For negative pions with a momentum of 2.8 Bev/c, Λ^0 particles were produced mainly according to the reaction $\pi^- + N \rightarrow \Lambda^0 + K + n\pi$, and a preliminary estimate yielded $\bar{n} \approx 1.5$. The first examination of about 60,000 stereophotos showed about 1200 "forks" at the end of pion tracks. 183 Λ^0 decays were selected, of which 165 refer to the production of Λ^0 particles by Freon (that is, by nuclei of C, F, Cl). 18 cases refer to production by a propane-xenon mixture, that is, by nuclei of H, C, Xe. The average momentum of the Λ^0 particles used for the measurement was 650 Mev/c in the laboratory system. Results of $\alpha_{\bar{P}}$ measurement:

Card 2/4

86893

The Asymmetry in the Decay of Λ^0 Hyperons
 Produced by Negative Pions With a Momentum of
 2.8 Bev/c and Observed in a Freon Bubble Chamber

S/056/60/039/005/009/051
 B029/B077

Filling material of the chamber	Total number of Λ^0 decays	Number of negative pions produced by the decay of a Λ^0 hyperon emitted			$\alpha\bar{P}$
		upward	downward	on the produ- cing level	
Freon	165	67	95	3	-0.34 ± 0.16
Xenon-propane	18	9	8	1	+0.12 ± 0.47
Total number of cases	183	76	103	4	-0.30 ± 0.15

The systematic errors are below 20%. The value of $\alpha\bar{P}$ is most likely negative during the decay of hyperons which gives rise to 3-Bev negative pions. This could be caused by the change of sign of the polarization during the transition from 1 Bev to higher energies of the negative pions produced. But the statistical accuracy of this investigation is not adequate for a definite statement. The authors thank A. I. Alikhanov, A. G. Meshkovskiy,

Card 3/4

86893

The Asymmetry in the Decay of Λ^0 Hyperons
Produced by Negative Pions With a Momentum of
2.8 Bev/c and Observed in a Freon Bubble Chamber

S/056/60/039/005/009/05
B029/B077

and I. Yu. Kobzarev for a discussion of the results obtained, V.I. Veksler for making possible the experiments with the proton synchrocyclotron in Dubna, the operators of the synchrocyclotron, and several laboratory assistants of OIYaI. There are 1 table and 8 references: 2 Soviet and 6 US.

SUBMITTED: July 2, 1960

Card 4/4

BARMIN, V.V., mashinist-instruktor; ABRAMOV, I.A., mashinist-
instruktor; IZYUMOV, I.I., mashinist-instruktor

Emergency brake accelerators on freight trains are not
necessary. Elek. i tepl. tiaga 5 no.5:45 My '61.
(MIRA 14:7)

(Railroads--locomotives)

~~BARMIN, V. V.; KRESTNIKOV, Yu. S.; KUZNETSOV, Ye. V.; MESHKOVSKY, A. G.;~~
NIKITIN, Yu. P.; SHEBANOV, V. A.

" π^+ -Production in the Coulomb Field of Nucleus"

report presented at the 11th Intl. Conference on High Energy Physics,
Geneva, 4-11 July 1962

Institute of Theoretical and Experimental Physics, Moscow, USSR

④
BARMIN, V.V., KRESTNIKOV, Yu. S., KUZNETSOV, Ye. V., MESHKOVSKIY, A. G., and SHEBANOV, V. A.

"Search for Resonances in the Reaction of $K\bar{K}$ Pair Production"

report presented at the Intl. Conference on High Energy Physics, Geneva,
4-11 July 1962

Inst. of Theoretical and Experimental Physics, Moscow, USSR

10761

S/120/62/000/004/042/047
E140/E420

AUTHORS: Barmin, V.V., Bysheva, G.K., Tumanov, G.K.,
Agapkin, I.I., Andreyev, V.N., Veselov, M.A.,
Gol'din, L.L., Luzin, V.N., Radkevich, I.A.,
Sokolovskiy, V.V., Stadnikov, A.G.

TITLE: Investigation and correction of the horizontal
component of the low-induction magnetic field of the
proton synchrotron

PERIODICAL: Pribory i tekhnika eksperimenta, no.4, 1962, 223-229

TEXT: Permalloy probes modulated at 10 kcs were used to measure
the position of the neutral plane of the magnetic field. It was
found that the distortion of the neutral plane in the residual
field was determined mainly by the neutral pole. This distortion
decreased as the excitation of the C-blocks was increased.
Due to hysteresis effects, the measurements had to be carried out
under operating conditions. A description of the probe and its
associated circuits is given. The measurements show that 67 of
the magnets have a deviation of the neutral plane in the range
 ± 0.5 mm, 16 magnets have 0.5 to 0.6 mm, 3 magnets 0.6 to 0.7 mm
Card 1/2

Investigation and correction ...

S/120/62/006/004/002/047
E14G/E420

and 12 magnets ≥ 0.7 mm. The average error of measurement is ± 0.17 mm. The method of correcting the neutral plane errors by means of windings on the neutral poles is described. There are 11 figures.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki
GKAE (Institute of Theoretical and Experimental
Physics GKAE)

SUBMITTED: April 11, 1962

Card 2/2

S/056/62/043/004/016/061
B102/B180AUTHORS: Barmin, V. V., Krestnikov, Yu. S., Kuznetsov, Ye. V., Meshkovskiy, A. G., Nikitin, Yu. P., Shebanov, V. A.TITLE: $\bar{\pi}^0$ meson production in the nuclear-Coulomb field

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 4(10), 1962, 1223 - 1230

TEXT: To study the mechanism of coherent interaction, in which momentum transfer is very low and nuclear excitation absent, $\bar{\pi}^- + N_Z^A \rightarrow \bar{\pi}^- + \pi^0 + N_Z^A$ reactions were examined. They can only occur via interaction with the nuclear Coulomb field, diffractive pion "dissociations" being strongly forbidden. Only one pion dissociation experiment is hitherto known (Bardassarre et al. Nuovo Cim. 21, 459, 1961). Using a 2-liter xenon bubble chamber and 2.8 BeV/c $\bar{\pi}^-$ mesons from the proton-synchrotron of the OIYaI about 10,000 stereophotographs were obtained, and a similar number with a freon chamber. 48 and 31 events of $\bar{\pi}^-$ scattering through $3-30^\circ$ accompanied by two electron-positron pairs were found respectively. After kinematic ana-

Card 1/2

π^0 meson production ...

3/056/62/043/004/016/061
B102/B180

lysis, there remained 25 and 13 events which could be attributed to the $\pi^- + Xe \rightarrow K^- + \pi^0 + Xe$ reaction. This is $(3.7 \pm 1.3) \cdot 10^{-5}$ of the total number of inelastic interactions, the cross section of which was 1200 mb, from which the pion dissociation cross section was found to be $\sigma_c = 4.4 \pm 1.6$ mb. Regarding efficiency was taken into account. There was a sharp peak at $\theta < 10^\circ$ in the angular distribution of this reaction. For σ_{ph} the mean cross section of the photoprocess $\gamma + \pi^- \rightarrow \pi^- + \pi^0$, 0.6 ± 0.2 mb was obtained using the relation $\sigma_c = 7.5 \sigma_{ph}$. It holds for the energy range $4m^2 \leq w^2 \leq 71m^2$, where m is the pion mass and w the center-of-mass total energy of the pions produced in the photoprocess. There are 3 figures and 1 table.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki Akademii nauk SSSR (Institute of Theoretical and Experimental Physics of the Academy of Sciences USSR)

SUBMITTED: May 17, 1962

Card 2/2

S/056/62/043/004/061/061
B104/B186

AUTHORS: Barmin, V. V., Krestnikov, Yu. S., Kuznetsov, Ye. V.,
Meshkovskiy, A. G., Shebanov, V. A.

TITLE: Search for resonances of $K^0\bar{K}^0$ pair production reactions

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43,
no. 4(10), 1962, 1564-1565

TEXT: $K^0\bar{K}^0$ pair production processes with 2.8 Bev/c π^- -mesons in Freon and xenon bubble chambers had been studied by Ye. V. Kuznetsov and I. Ye. Timoshin (PTE, 4, 40, 1959) and G. A. Blinov et al. (PTE, 1, 35, 1958). In these studies 36 and 13 events respectively of $K^0\bar{K}^0$ pair production were observed. To find possible resonances in the $K^0\bar{K}^0$ system the distribution of the pairs detected over their effective masses was now constructed (Fig. a). The error in the masses is approximately ± 25 Mev. The broken lines indicate the boundary values of the $m(K^0\bar{K}^0)$. The distribution has a peak at $m(K^0\bar{K}^0) = 1275$ Mev but the statistical reliability of this is very low. It was shown that the hypothesis of the decay of a σ_0 -meson according to the scheme $\sigma_0 \rightarrow K^0 + \bar{K}^0 + \pi^0$ could be completely

Card 1/12

Search for resonances of ...

S/056/62/045/004/061/061
B104/B186

refuted. A total of nine events was detected in which two K^0 -mesons departed without any charged particle or quantum. These events can be interpreted according to the reaction $\pi^- + p \rightarrow K^0 + \bar{K}^0 + n$. In this case the effective mass of $\bar{K}^0 + n$ can be determined from the momentum and angle of departure of the K^0 -meson (Fig. b). The peak at 1715 Mev has little statistical reliability so the resonances can only be supposed. There is 1 figure. ✓

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki
(Institute of Theoretical and Experimental Physics)

SUBMITTED: July 17, 1962

Card 2/2

S/056/63/044/002/052/065
3184/3102

AUTHORS: Barkin, V. V., Krestnikov, Yu. S., Kuznetsov, Ye. V.,
Meshkovskiy, A. G., Nikitin, Yu. P., Shebanov, V. A.

TITLE: New data on π^0 meson production in the nuclear Coulomb field

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,
no. 2, 1963, 748 - 749

TEXT: The present article is a continuation of experimental studies (ZhETF, 43, 1223, 1962) on the reaction $\pi^- + \text{Xe} \rightarrow \pi^- + \pi^0 + \text{Xe}$, observed in a xenon bubble chamber bombarded by pions of 2.3 Bev/c. 25 events had been found on scanning about 10,000 stereophotographs. Now another 15,000 stereophotographs were scanned four times and 53 π^0 production events were found. Since $d\sigma/d\Omega = f(\theta)$ tends to zero with $\theta \rightarrow 30^\circ$, the reaction cross-section was determined from the values obtained for $30^\circ \leq \theta \leq 30^\circ$, and $\sigma_c = 2.65 \pm 0.90$ mb was obtained; θ is the angle of π^- emission. The inelastic scattering cross-section was taken as 1200 mb. From this result also the cross-section $\bar{\sigma}_p$ of the reaction $\gamma + \pi^- \rightarrow \pi^- + \pi^0$ was estimated; assuming $\sigma_c/\bar{\sigma}_p = 7.5$, a value of 0.35 ± 0.12 mb was obtained for $\bar{\sigma}_p$. There are Card 1/2

New data on π^0 meson production...

3/056/63/044/002/052/065
3184/3102

1 figure and 1 table.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki Akademii
nauk SSSR (Institute of Theoretical and Experimental Physics
of the Academy of Sciences USSR)

SUBMITTED: November 2, 1962

Card 2/2

ACCESSION NR: AP4009109

S/0056/63/045/006/1879/1890

AUTHORS: Barmin, V. V.; Dolgolenko, A. G.; Krestnikov, Yu. S.;
Meshkovskiy, A. G.; Nikitin, Yu. P.; Shebanov, V. A.

TITLE: Observation of the decay

SOURCE: Zhurnal eksper. i teoret. fiziki, v. 45, no. 6, 1963,
1879-1890

TOPIC TAGS: Omega meson decay, Omega meson charge parity, radiative
decay, Omega meson width, Omega neutral particle decay, pion proton
interaction, negative pion proton interaction

ABSTRACT: The reaction $\pi^- + p \rightarrow n + \omega \rightarrow n + \pi^0 + \gamma$ was investigated
for negative-pion momenta of 1.25, 1.55, and 2.8 BeV/c in a 17-
liter propane-xenon bubble chamber. The purpose of the investiga-
tion was to detect the decay $\omega \rightarrow \pi^0 + \gamma \rightarrow 3\gamma$, the existence of
which was established on the basis of the excess of number of events

Card 1/3

ACCESSION NR: AP4009109

with three γ -rays as compared with the number of background events from the reactions $\pi^- + p \rightarrow n + m\pi^0$ ($m \geq 2$), and was further confirmed by a statistical method based on the kinematics of the $\omega \rightarrow \pi^0 + \gamma$ decay. The cross sections for the reaction under study were estimated in the indicated momentum interval. "In conclusion, we express our deep gratitude to A. I. Alikhanov for constant interest and valuable advice. We thank the ITEP (Institute of Theoretical and Experimental Physics) proton synchrotron crew who enabled us to obtain the large number of photographs in a short time. We thank I. Ya. Pomeranchuk, L. B. Okun', I. Yu. Kobzarev, B. L. Ioffe, Yu. A. Simonov, and A. S. Zhizhin for fruitful theoretical discussions. We are very indebted to A. S. Kronrod, R. S. Guter, and Ye. M. Landis for valuable advice and for organizing and carrying out the calculations on the ITEP electronic computer. We thank the scanning staff under the direction of V. P. Rummyantseva for scanning the pictures, Yu. I. Makarov, N. S. Khropov, and B. I. Chistyakov for operating the bubble chamber, Yu. V. Trebukhov-

Card 2/3

ACCESSION NR: AP4009109

skiy for aid in the work and V. V. Vladimirskiy for helpful discussion of the results. Orig. art. has: 8 figures, 27 formulas, and 2 tables.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki
(Institute of Theoretical and Experimental Physics)

SUBMITTED: 03Jul63

DATE ACQ: 02Feb64

ENCL: 00

SUB CODE: PH

NO REF SOV: 003

OTHER: 010

Card 3/3

BARMIN, V.V.; DOLGOLENKO, A.G.; KRESTNIKOV, Yu.S.; MESHKOVSKIY, A.G.;
SHEBAKOV, V.A.

Searching for $\omega \rightarrow e^+ e^-$ decay. Zhur. eksp. i teor. fiz.
45 no.6:2082-2084 D '63. (MIRA 17:2)

1. Institut teoreticheskoy i eksperimental'noy fiziki.

L 01319-67 EWT(1)

ACC NR: AT6031149

SOURCE CODE: UR/3138/65/000/401/0005/0016

AUTHOR: Barmin, V. V.; Dolgolenko, A. G.; Meshkovskiy, A. G.; Shebanov,
V. A. 28
27
BT

ORG: none

TITLE: Analysis of exchange scattering with momentum $\pi^- + p \rightarrow \pi^0 + n$ at 2.8
Bev/cSOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii.
Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 401, 1965.
Issledovaniye obmennogo reaseyaniya otritsatel'nogo piona s protonom v rezul'tate
kotorogo poluchayetsya neytral'niy pion i neytron pri impul'se 2,8 Gev/c, 5-16

TOPIC TAGS: exchange scattering, pi meson, proton, pion, pion proton interaction

ABSTRACT: An analysis is made of the $\pi^- + p \rightarrow \pi^0 + n$ reaction at $P_{\pi^-} = 2.8$
Bev/c. The total cross section for this reaction is $\sigma = 0.35 \pm 0.04$ mb. The
angular distribution $d\sigma/d\Omega$ has two maxima: one close to 0° and the other within
the interval $0.3 < \cos\theta < 0.45$. This corresponds to the square of the transmitted
momentum $t \approx -1.4$ (Bev/c)². The values of $d\sigma/d\Omega$ at 0° and 180° are

Card 1/2

L 01319-67

ACC NR: AT60³1149

$220 \pm 30 \mu\text{b}/\text{sr}$ and $5 \pm 5 \mu\text{b}/\text{sr}$, respectively. The authors thank K. A. Ter-Martirosyan for his discussion of this work. Orig. art. has: 2 tables and 2 figures.
[Authors' abstract] [SP]

SUB CODE: 20/ SUBM DATE: 01Dec65/ ORIG REF: 008/ OTH REF: 007/

nd
Card 2/2

BAZIN, V

V

Finansevoye planirovaniye i finansirovaniye avtomob il'nogo transporta (Financial planning and financing of automobile transportation) Moskva, Gosfinizdat, 1951. 135.p. tables. Cataloged from abstract. Explains method of setting up financial plans in automobile transportation enterprises, the utilization of basic and circulating capital, organization of work according to norms of fulfilling financial plans and examination of accounts, etc.

N/5

743.2

.B2

BARMIN, V.

Cities and Towns

Unsuccessful book on economics of municipal management. Zhil. -kom. khoz. 2
no. 4 (1952)

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

BARMIN, V. V.

Barmin, V.V.

"Financial Planning and financing of automotive transportation." Reviewed by P. Kaniovski, G. Safray. Sov. fin. 13 no. 6. '52.

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

BARMIN, V.

N/5
108.3
.74

Analiz khozyaystvennoy deyatel'nosti kommunal'nykh predpriyatiy (Analysis of Economic Activity of Municipal Enterprises, by) N. Filatov i V. Barmin. Moskva, Gosfinizdat, 1954.
99 p. tables.

BARMIN, V.

BORISOVSKIY, S.; REZNIK, A.

An unsuccessful manual ("Economic analysis of the activities of communal enterprises." N.Filatov, V.Barmin. Reviewed by S.Borisovskii, A. Reznik). Zhil. kos. ~~zhizn.~~ no.2:30-31 '55. (Municipal services) (Filatov, N.) (Barmin, V.)

BARMIN, V.

Analysis of the fulfillment of public utility production programs. Fin. SSSR 15 no. 6:76-82 Ja '55. (MIRA 8:6)
(Public utilities--Finance)

BARMIN, V.

Replies to readers' questions. Fin.SSSR 17 no.4:91-92 Ap '56.
(MIRA 9:8)

(Municipal services--Finance)

3687011 /

RAMIN, V.

Changes in the planning and calculation of the cost of
goods and services of community enterprises. Fin.SSSR 18
no.3:69-75 Apr 1972.

(MLRA 18:8)

(Service industries--Costs)

BARMIN, V., ekonomist

Be careful in the expenditure of funds for municipal improvement.
Fin. SSSR 20 no.1:55-58 Ja '59. (MIRA 12:2)

1. Ministerstvo finansov SSSR.
(Housing) (Municipal services)

MASLAKOV, Vasil'y Petrovich; FILATOV, Nikolay Leonidovich; BARMIN,
Viktor Vasil'yevich; PETROV, P., red.; FILIPPOVA, E., red.;
TRILEGINA, T., tekhn.red.

[Finances of communal housing and services] Finansy zhi-
lishchnogo i kommunal'nogo khoziaistva. Moskva, Gosfinizdat,
1960. 209 p. (MIRA 14:3)
(Housing--Finance) (Municipal services--Finance)

ACCESSION NR: AP4009142

S/0056/63/045/006/2082/2084

AUTHORS: Barmin, V. V.; Dolgolenko, A. G.; Krestnikov, Yu. S.; Meshkovskiy, A. G.; Shebanov, V. A.

TITLE: Search for the $\omega \rightarrow e^+ + e^-$ decay

SOURCE: Zhurnal eksper. i teoret. fiziki, v. 45, no. 6, 1963, 2082-2084

TOPIC TAGS: Omega meson, Omega meson decay, negative pion proton interaction, bubble chamber, proton synchrotron, three pion decay

ABSTRACT: An attempt is made to observe the decay $\omega \rightarrow e^+ + e^-$ experimentally by the authors earlier (ZhETF v. 45, 1878, 1963) in a 17-liter xenon-propane bubble chamber exposed to 1.55 and 2.8 BeV/c negative pion beams from the proton synchrotron at the Institut teoreticheskoy i eksperimental'noy fiziki (Institute of Theoretical and Experimental Physics). The chamber was operated without a mag-

Cord

1/3

ACCESSION NR: AP4009142

netic field, with 20,000 pictures at 1.55 BeV/c and 40,000 pictures at 2.8 BeV/c scanned independently. Four two-prong stars were found to satisfy completely all the selection criteria, along with three doubtful cases. Reasons are advanced for assuming that all seven two-prong stars are cases of the reaction $\pi^- + p \rightarrow n + \omega$ with the subsequent $\omega \rightarrow e^+ + e^-$ decay of the ω meson. The sources of background reactions are analyzed. The value obtained for the ratio of the probability of this decay to the three-pion decay is found to be $(0.40^{+0.15}_{-0.30}) \times 10^{-2}$, which agrees well with the theoretical predictions. "We are deeply grateful to A. I. Alikhanov for his constant interest in the work and for valuable advice, to the scanning department of the Institute of Theoretical and Experimental Physics for scanning the photographs, to Ya. S. Yelenskiy for an experimental determination of the scanning efficiency for electrons in a chamber, and to I. Yu. Kobzarev and Yu. P. Nikitin for discussions. Orig. art. has: 2 figures and 2 formulas.

Card 2/13

ACCESSION NR: AP4009142

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki
(Institute of Theoretical and Experimental Physics)

SUBMITTED: 09Oct63

DATE ACQ: 02Feb64

ENCL: 00

SUB CODE: PH

NO REF SOV: 002

OTHER: 004

Card 3/3

BARMIN, Viktor Vasil'yevich; MAZURKEVICH, M., red.; TELEGINA, T.,
ed.

[Analysis of managerial operations of municipal enterprises]
Analiz khoziaistvennoi deiatel'nosti kommunal'nykh pred-
priatii. Moskva, Gosfinizdat, 1963. 74 p. (MIRA 16:9)
(Municipal services--Accounting)

ACCESSION NR: AP4012534

S/0056/64/046/001/0142/0147

AUTHORS: Barmin, V. V.; Dolgolenko, A. G.; Krestnikov, Yu. S.; Meshkovskiy, A. G.; Shebanov, V. A.

TITLE: An investigation of the charge exchange $\pi^- + p \rightarrow n + \pi^0$ and $\pi^- + p \rightarrow n + \eta$ ($\eta \rightarrow 2\gamma$) reaction in the 1.55--4.5 BeV/c region

SOURCE: Zhurnal eksper. i teoret. fiz., v. 46, no. 1, 1964, 142-147

TOPIC TAGS: pion proton interaction, negative pion proton interaction, pion proton charge exchange, Eta meson production, neutral pion angular distribution, pion angular distribution, backward scattering, backward charge exchange, backward exchange scattering

ABSTRACT: The reactions were investigated with a 17-liter propane-xenon bubble chamber with an aim at checking on the theoretical prediction by L. B. Okun' and I. Ya. Pomeranchuk (ZhETF, v. 30, 424, 1956) that a considerable decrease takes place in the exchange scat-

Card 1/3

ACCESSION NR: AP4012534

tering with increasing π^- meson energy. The number of pictures scanned were 20,000, 60,000 and 20,000 at momenta 1.55, 2.8, and 4.5 BeV/c. The charge exchange reaction cross sections were found to be 3.0, 1.54 ± 0.37 , 0.36 ± 0.09 , and 0.19 ± 0.12 mb for 1.14, 1.55, 2.80, and 4.50 BeV/c. The η -meson production cross sections for the same momenta are 0.5, 0.32 ± 0.22 , 0.08 ± 0.07 , and 0.05 ± 0.07 , respectively. From these values, and from the angular distribution of the π^0 meson in the charge-exchange reaction, it was found that the differential cross section for backward exchange scattering is 0.04 ± 0.02 mb/sr for 1.5 BeV/c and 0.008 ± 0.005 mb/sr for 2.8 BeV/c.

"In conclusion we are deeply grateful to A. I. Alikhanov for continuous interest and for valuable advice, and to I. Ya. Pomeranchuk and V. V. Vladimirovskiy for a discussion of the results. We are grateful to the ITEP proton synchrotron crew for providing a large number of photographs within a short time. We are very indebted to L. M. Voronina, V. N. Dez, and N. A. Ivanova for carrying out the computations with the ITEP electronic computer. Orig. art. has: 3

Card 2/3

ACCESSION NR: AP4012534

figures, 4 formulas and 3 tables.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki
(Institute of Theoretical and Experimental Physics)

SUBMITTED: 30Jul63

DATE ACQ: 26Feb64

ENCL: 00

SUB CODE: PH

NO REF SOV: 006

OTHER: 004

Card 3/3

TILICHENKO, A.G., kand. tekhn. nauk, dots., otv. red.; BASHLEY,
I. V. - kand. tekhn. nauk, red.; BARMIN, Yu.I., red.

[Programming and electronics; a methodological manual]
Programirovanie i elektronika; metodicheskoe posobie.
Khabarovsk, 1963. 200 p. (MIRA 19:9)

1. Khabarovsk. Institut inzhenerov zheleznodorozhnogo
transporta. Vychislitel'nyy tsentr.

BARMIN, Yu.I., aspirant

Kinematic characteristics of three-dimensional mechanisms.
Trudy MIIT no.150:122-135 '62. (MIRA 16:2)
(Machinery, Kinematics of)

BARMIN, Yu.I., inzh.

Methodology for setting up an empirical formula for the friction coefficient of brake shoes and bandings. Trudy Khab. III no.16:105-108 '64 (MIRA 18:2)

1970, U.S. ...

Detrital ... and the petrography of granites in the
Yanisey Range. Geol. i gorn. no. 12-13, 140-146, 1964.

1. Krasnoyarskaya krasichnaya literaturnya Sibirskogo otdeleniya
AN SSSR.

BAIMINA, K.A., inzh.; PAVLOV, S.A., doktor tekhn.nauk

Increasing the resistance to abrasion of the bleached hair
covering of pelts. Kozh.-pshv.pron. 4 no.9:32-35 S '62.
(MIRA 15:9)

(Fur--Testing)

BARMINA K.A.

Dyeing white fox skins with vat dyes. Leg. prom. 18 no.9:36-38
S '58. (MIRA 11:10)

(Fur--Dressing and dyeing) (Arctic fox)

BARMINA, K.A.

Improved processing of muskrat pelts. Kozh.-obuv. prom. 7 no.12:
17-19 D '65. (MIRA 19:2)

MEN'SHIKOV, F.K.; VOLKOVA, A.I.; BARMINA, L.V.

Nutrition of patients with neoplasms. Trudy TSIU 62:268-277 '63.

(MIRA 18:3)

1. Kafedra gastro-enterologii i diyetoterapii (zav. prof. F.K. Men'shikov) Tsentral'nogo instituta usovershenstvovaniya vrachey.

BARMINA, N.; KOLPAKOV, M.

Overcoming obstacles. Fin.SSSR 20 no.9:74-77 8 '59.

(MIRA 12:12)
(Pavlovskiy Posad--Textile industry--Finance)

BARMINA, N.N. (Irkutsk)

Cornification of the lacunar epithelium of the tonsils. Arkh.
pat. 25 no.7:61-67 '63 (MIRA 16:12)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. R.A.
Khurgina) Irkutskogo meditsinskogo instituta.

BARMINA, O.N.

11 F

Effect of mechanical trauma of the head on the nitrogen composition of the brain. O. N. Barmina. *Biochem. J.* (Ukraine) 14, 69-82 (in Russian) (in English), 82, 3 (1950).

After mech. trauma of the head of rabbits by a freely falling weight, the total N content of the brain decreases. Various areas of the brain are affected to a greater or less extent. The rate of proteolysis is increased in the brain cortex, and decreased in the white matter and in the caudate nucleus. Normal chem. compn. is restored only after 20-38 days following the initial trauma. R. Levine

ASB 31A - METALLURGICAL LITERATURE CLASSIFICATION

BARKINA, O. N.

BARKINA, O. N.: "The enzymal decomposition of protein -- a link in the chain of regulation of the water content of the tissues of the nervous system." Gor'kiy State Medical Inst imeni S. M. Kirov. Gor'kiy, 1956. (Dissertation for the Degree of Doctor in Medical Sciences)

Source: Knizhnaya letopis'

No. 28

1956

Moscow

BARMIHA, O., and GORODICKAYA, G.

"Data on the action of an internal beta-radiation on the phosphorus and albuminous metabolism of the cerebrum," a paper submitted at the 2nd Conference on Biochemistry of the Nervous System, AS USSR, 12-16 Feb 1957, Kiev.

1322802

R 2
Human and Animal Physiology - Metabolism.

V-2

Abstr Jour : *Rev Khim - Biol*, No 4, 1956, 17833

Author : G.N. Barina

Inst : Gorki Medical Institute.

Title : The Enzymatic Break-down of Proteins --An Element in the Regulation of the Aqueous State of the Tissues by the Nervous System.

Orig Pub : *Uch. Zap. Gorkovsk. med. in-ta*, 1957, No 1, 19-38

Abstract : A study was made of the nitrogen composition and the content of free water and water in combination with colloids in the tissues of edematous dogs and frogs under various experimental conditions (keeping the surrounding air dry, removing the iodolysin, transecting the sciatic nerve, etc). A connection was detected between water and protein metabolism. The initial phase of enzymatic break-down of

Card 1/2

BARMINA, O.N.

Effect of total X irradiation on protein and water metabolism in the brain. Ukr. biokhim. zhur. 33 no.2:215-219 '61. (MIRA 14:4)

1. Kafedra biokhimii Gor'kovskogo meditsinskogo instituta im. S.M.Kirova.

(X RAYS--PHYSIOLOGICAL EFFECT) (PROTEIN METABOLISM)
(WATER METABOLISM) (BRAIN)

ACCESSION NR: AT3013145

S/3018/63/000/000/0573/0580

AUTHOR: Barmina, O. N.

TITLE: Effect of total X-irradiation on the amino acid composition of the brain in white rats

SOURCE: Tret'ya Vsesoyuznaya konferentsiya po biokhimi i nervnoy sistemy*. Sbornik dokladov. Yerevan, 1963, 573-580

TOPIC TAGS: X-irradiation, amino acid, free amino acid, protein amino acid composition, brain protein, brain transamination, glutamicoalanine transaminase, adult animal, glutamicoasparaginic transaminase, newborn animal, transaminase activity

ABSTRACT: Free amino acids, amino acid composition of protein, and transamination were investigated in brains of adult and newborn white rats after total X-irradiation with single 500 r doses (25 r/min, focal length 20 cm). Brain chemical analyses were made 3 and 8 days after irradiation in experimental and control animals. Amino acids were determined by chromatography, and a FEK-M colorimeter was used for quantitative analysis. Transamination was measured by glutamicoasparaginic and glutamicoalanine transaminase activity.

Card 1/2

ACCESSION NR: AT3013145

Results show that a 500 r radiation dose reduces the level of free amino acids in brains of newborn rats with no significant change in amino acid composition of brain protein. In adult irradiated animals the free amino acid level does not change, but activity of glutamicoasparaginic and glutamicoalanine transaminases is reduced 3 days after irradiation. Glutamicoasparaginic transamination remains depressed on the 8th and 15th days and is restored only between the 25th and 35th days. Glutamicoalanine aminopherase starts to increase by the 8th day and fluctuates little at later dates. In newborn rats transamination activity is also reduced. Reduced activity of both glutamicoasparaginic and glutamicoalanine transaminases in adult and newborn animals may be related to low protein synthesis functioning of brain cells in irradiated animals. Orig. art. has: 5 figures.

ASSOCIATION: Kafedra biologicheskoy khimii Gor'kovskogo gosudarstvennogo meditsinskogo instituta im. S. M. Kirova (Department of Biological Chemistry of the Gorki State Medical Institute)

SUBMITTED: 00

DATE ACQ: 28Oct63

ENCL: 00

SUB CODE: AM

NO REF SOV: 011

OTHER: 000

Card 2/2

BARMINA, R.G.; DAYKER, A.L.

Lithium chloride pickups. *Bul. tekhn.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekhn. inform. no. 1:44-46 '63.* (MIRA 1642)
(transducers)

ACCESSION NR: AR4015620

S/0272/64/000/001/0068/0068

SOURCE: RZh. Metrologiya i izmeritel'naya tekhnika, Abs. 1,32,591

AUTHOR: Barmina, R. G.; Dayker, A. L.

TITLE: Lithium-chlorite humidity monitor

CITED SOURCE: Sb. Teoriya i praktika metallurgii. Chelyabinsk, vy*p. 5, 1963, 160-165

TOPIC TAGS: lithium-chlorite humidity monitor, temperature dependence, maximum water-vapor elasticity, copper resistance thermometer, platinum electrode, parallel spiral coil, silver electrode

ABSTRACT: The operation of lithium-chlorite monitors exploits the dependence upon temperature of the maximum elasticity of water vapor over the surface of a saturated aqueous solution of hygroscopic salt (lithium chlorite). On this principle, the Institute of Metallurgy has worked out a lithium-chlorite monitor designed on the basis of a standard copper resistance thermometer of type ETM-Kh. A hygroscopic tissue impregnated with a saturated lithium-chlorite solution is fastened on the sensitive element of the resistance thermometer and silver or platinum electrodes connected with an alternating-current source are arranged on top of the tissue

Card 1/2

ACCESSION NR: AR4015620

in two parallel spiral coils. The monitors have been tested in blast furnaces.
Five illustrations. N. Rayskaya

DATE ACQ: 18Feb64

SUB CODE: ML

ENCL: 00

Card 2/2

L 39714-66 EWP(j)/ENT(m)/T IJP(c) RM/GD-2

ACC NR: AF6007962

(A)

SOURCE CODE: UR/0191/66/000/003/0005/0007

AUTHOR: Berlin, A. A.; Kaplunov, I. Ya.; Barainov, V. A.

ORG: none

18
B

TITLE: Compatibility of polyvinyl chloride with oligo-ester-acrylates and some properties of their products

SOURCE: Plasticheskiye massy, no. 3, 1966, 5-7

TOPIC TAGS: polyvinyl chloride, acrylic plastic, polymerization, oligomer, solid physical property, electric property

ABSTRACT: A study was made to obtain the optimal formulation of the polymer-oligomer systems (clathrate polymers) having the best physicochemical properties. Using different weight ratios of the reagents, polyvinyl chloride (PVC) and a polymerizable oligomer were polymerized at 125C for 2 hr. The compatibility of the reagents was determined by a nephelometric study of films of the polymers produced. Linear oligomers TGM-3, MGF-9, and MBF-1 and short-chain organosilicon DEMFS-2m were mixable with PVC at a wide range of concentrations. Branched oligomers 7-1 and 7-20 could be mixed at low concentration. Clear films were obtained with 30-40% 7-1 or 7-20. The polymers obtained hardened at 140-145C and had a higher liquidus temperature than PVC (due to the cross-linked bonds formed). Their thermal stability was 40-45C higher and their electrical properties were better than those of PVC. When extracted with

Card 1/2

UDC: 678.743.22+678.674

L 39714-66

ACC NR: AP6007962

dichloroethane, 80% of the polymer was insoluble and contained 30% bonded PVC. It proved that only a part of PVC became chemically bonded and that the rest of it remained as a matrix structure. Orig. art. has: 5 fig.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 006

Card 2/2 *gd*

ACC NR: AT6034515

(H)

SOURCE CODE: UR/3152/66/000/011/0103/0114

AUTHOR: Barminskiy, A. G.

ORG: none

TITLE: TEG-2 electronic well thermometer

SOURCE: Razvedochnaya geofizika, no. 11, 1966, 103-114

TOPIC TAGS: thermometer, resistance thermometer, well logging

ABSTRACT: The article describes the TEG-2 electronic well thermometer, in use since 1963 for measuring temperatures from 0 to 200C in pressures to 1000 kg/cm². Circuit diagrams of the thermometer and its control console are given. The thermometer is 73 mm in diameter and 1960 mm long and utilizes a frequency-type telemetering system with an absolute measurement accuracy of 2C. The procedures followed in operating and calibrating the thermometer are outlined in detail. It is mentioned that the Groznyy Laboratory of VNIIGeofizika has developed the TEG-3 thermometer suitable for measuring temperatures to 250C at pressures to 1200 kg/cm². The TEG-3 thermometer uses platinum resistances instead of the copper used in the TEG-2. Orig. art. has: 6 figures and 2 tables.

SUB CODE: 1409/ SUBM DATE: none

Card 1/1

BARMENTOV, YU. N.

06779. Voprosy razvedeniya loshadov v tabunnykh usloviyakh Kazakhskoy SSR.
Zoovodstva, 1949, No. 6, s. 6 - 12.

SO: Letopis Zurnal'nykh Sluzy, Vol. 50, Moskva, 1949

KERIMBAYEV, D.; BARMINTSEV, Yu.N., redaktor

[Horse breeding in Kazakhstan] Kcnevodstvo k Kazakhatane. Alma-Ata,
Kazakhakoe gos. izd-vo, 1951. 273 p. (MLRA 10:2)
(Kazakhstan--Horses)

BARMINTSEV, Yu. N.; KLEYNBOK, Ya.I.; SADYKOV, B., redaktor

[Horse breeding] Konevodstvo. Alma-Ata, Kazakhskoe gos. izd-vo,
1952. 262 p. (MIRA 9:11)
(Horses)

BARMINTSEV, Yu.N.; GUSEVA, L.V., red.; ZLOBIN, M.V., tekhn. red.

[Evolution of horse breeds in Kazakhstan; results of a zoo-technical study of breed formation]Evoliutsiia konskikh porod v Kazakhstane; opyt zotekhnicheskogo issledovaniia problemy porodoobrazovaniia. Kozgosizdat, 1958. 281 p. (MIRA 16:2)
(Kazakhstan—Horse breeds)

BARMINTSEV, Yu.N., doktor sel'skokhozyaystvennykh nauk

Raising horses for meat. Zhivotnovodstvo 23 no.8:18-24 Ag '61.
(MIRA 16:2)

1. Kazakhskiy nauchno-issledovatel'skiy institut zhivotnovodstva.
(Kazakhstan--Horses)

BARMINTSEV, Yu.; BERESHCHUK, N., red.; NAGIBIN, P., tekhn. red.

[Horse raising as a large scale resource of inexpensive
meat] Konevodstvo - krupnyi rezerv deshevogo miasa. Alma-
Ata, Kazsel'khozgiz, 1962. 26 nos. in 1 v. 14 p.
(MIRA 17:1)

SALYUKOV, P.A., kand. biol. nauk; VERNIGOR, V.A., kand. sel'khoz. nauk; KOP'ANOVSKAYA, M.A., kand. sel'khoz. nauk; GOLODNOV, A.V.; SKOROBOGATOV, Yu.A., mladshiy nauchnyy sotr.; MALLITSKIY, V.A., kand. sel'khoz. nauk; CHASHCHIN, B.V., kand. sel'khoz. nauk; PONOMAREV, P.P., kand. tekhn. nauk; BARMINTSEY, Yu.N., doktor sel'khoz. nauk; NECHAYEV, I.N., mlad. nauchnyy sotr.; POZDNYAKOV, P.M., kand. biol. nauk; KOVIN'KO, D.A., kand. biol. nauk; BALANINA, O.V., kand. sel'khoz. nauk; MOISEYEV, K.V., kand. sel'khoz. nauk; ROMANOV, P.F., kand. veter. nauk; PAL'GOV, A.A., kand. veter. nauk; ANAN'YEV, P.K., kand. veter. nauk; VASIL'YEV, B.M., kand. sel'khoz. nauk; ABDULLIN, V.A., kand. ekon. nauk; CALIAKBEROV, N., laureat Gos.premii, kand. sel'khoz. nauk, red.; GUSEVA, M.G., med.; NAGIRIN, P., tekhn. red.

[Reference book for zootechnicians] Spravochnik zootekhnika. Pod red. N.Caliakberova. Alma-Ata, Kazsel'khozgiz, 1963. 492 p. (MIRA 16:5)

(Kazakhstan--Stock and stockbreeding)