	[Flyin Gospol	ng among stars] Letisshchie sredi Litizdat, 1963. 47 p.	27820		ra, IRA 16:6)	
•		(Bykovskii, Valerii Fedorovich) (Tereshkova, Valentina Vladimirov	ma)	();-		
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BELYAKOV, V. A.

27968. EELYAKOV, V. A. --Itogi lecheniya invalidov otechestvennoy voyny po materialam instituta ortopedii, travmatologii i protezirovaniya, gospitaley i lechebnykh uchrezhdeniy uzbekskoy SSR. Trudy pervoy Nauch. Mezhresp. Knof-tsii po lecheniyu invalidov otechestv. voyny v sred. Azii. tashkent, 1949, S. 85-91.

SO: Letopis' Zhurnal'nykh Statey. Vol. 37, 1949.

APPROVED FOR RELEASE: 06/06/2000

VOLKOVA, M.A.; BELYAKOV, V.A.; MEDVEDEV, Yu.A.

Distribution of depth doses from the telegarma apparatus with C_8^{137} . Med.rad. no.5:82-86 '61. (MIRA 14:11)

1. Is Gosudarstvennogo nauchno-issledovatel'skogo onkologicheskogo instituta imeni P.A. Gertsena. (CESIUM--ISOTOPES) (GAMMA RAYS--THERAPEUTIC USE)

APPROVED FOR RELEASE: 06/06/2000

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ACC NRI AP6002/10	SOURCE CODE: UR/0105/64/000/010/0087/0087
UTHOR: Basharin, A. V.; Belyakov, V V. S.; Renne, V. T.; Rusin, Ya. L.; S	
RG: none	
ITLE: Professor V. G. Drannikov (60) and pedagogical activity)	th birthday and 35th anniversary of his scientific
SOURCE: Elektrichestvo, no. 10, 1964	, 87
OPIC TAGS: electric engineering per	sonnel, electric engineering
1904 to a worker's family. He began fuctory in 1920, transferring to the In 1924 he was enrolled in the colleg	kov was bom in Serpukhov on 30 June as a textile worker at the "Proletariy" <u>Textile Institute</u> in the same year. ge of Electromechanics at the Leningrad same a candidate for an advanced degree
and began his teaching career at the troprivod" (Electric power drives). laboratory textbook "Opredeleniye pot transmission losses) in 1932. In 193 a reader (docent) for the chair of "P	then newly organized Chair of "Elek- One of his first publications was the Ger'v transmissii" (Determination of 1 he became an assistant and in 1934 Tomy'shlennove ispol'sovanive elek-
tricheskoy energii" (Industrial uses	of electric power). At that time he

L 10229-66 ACC NR: AP6002410

became the first in the USSR to lecture on the "use of ionic-electronic devices in electric power drives." In 1939 Drannikov defended his dissertation "Teoreticheskoye i exsperimental'noye issledovaniye nekotory" kh skhem by* strogo vosbuzhdeniya generatora Leonarda" (Theoretical and experimental investigation of certain high-speed excitation circuits for a Leonard generator). During the war Drannikov was Chief Engineer at the Vologodskaya Oblast' Communal Economy Directorate in charge of electric power. Returning to Leningrad in 1944, he took an active part in reopening the <u>Folytechnical Institute</u>. From 1952 to 1955 he was abroad on teaching assignments. Bince 1958 he has been dean of the Chair of "Elektroprived i avtematizatelya promyshlenny*kh ustanovek" (Electric power drives and automation of industrial equipment). He has written 10 books, 12 texts, and many scientific papers on automation and electric drives. For his scientific and pedagogical activities he holds among other awards the "Znak poohete" (Badge of Honor). Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none /

APPROVED FOR RELEASE: 06/06/2000

BELYAKON, V.A. BELYAKOV, V.A.; IVANOVA, L.N.; KOZLOVA, L.G.; TOLSTOV, K.D. Experiments with 600 micron layers from the "R" Remlsion of the Motion Picture and Photography Scientific Research Institute. Motion Picture and Photography Science 5:325-329 S-0 '57. Zhur, nauch, i prikl, fot, i kin. 2 no.5:325-329 S-0 '57. (NIRA 10:11) 1. Ob"yedinennyy institut yadernykh issledovaniy. (Photographic smulsions)

BARASHENKOV, V. S., HELYAKOV, V. A., BUBELEV, E. G., MALISEV, V. M., TOLSTOV, K. D. TEN GYN, and WANG SHOU FENG,

"Multiple Production of Particles in Collisions between 9 GeV Protons and Nucleons." Nuclear Physics, vol. 9, No. 1, Nov. 1958.

Joint Inst. Nuclear Research, Lab Theoretical Physics and High Energy Lab., Dubna.

Abstract: Some theoretical calculations pertaining to multiple production of particles in nucleon-nucleon collisions at 7-10 GeV were presented in ref. 1. Some preliminary experimental results obtained by irridiating photographic emulsions with proton beam from the synchrocyclotron of the Joint Inst Nuclear Research were given in ref. 2. In the present paper we compare the theoretical results of ref. 1 with the results of some new experiments. 372 stars, of which 50 were classified as proton-nucleon collisions, were recorded in NIKBI-R photographic emulsions along the tracks of 9 GeV protons accelerated in the JINR proton synchrocyclotron. The mean number of charged particles created in these collisions was 3.6 0.5. The angular distribution of fast charged particles is obtained. As a whole the emperimental mesults agree with the statistical theory of multiple particle production within the limits of the experimental errors. Some discrepancy is evident in the small angle range and may be due to the contributio on non-central impacts and to asymmetry of the angular distribution in the c.m.s.

APPROVED FOR RELEASE: 06/06/2000

66838 SOV/77-4-6-5/16 AUTHOR: Belyakov, V.A., Kozlova, L.G., Sviridov, V.A. Tolstov, K.D. TITLE: Dependence of the Sensitivity of Nuclear Emulsions on Temperature Within the Range of 2-300° K PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii 1959, Vol 4, Nr 6, pp 427-429 (USSR) ABSTRACT: The author reports on recent Soviet study of the depen- dence of the recording properties of various nuclear emulsions on temperature within the range of 2-300° K. The results of the first experiments were published in the paper of N.A. Dolina, V.A. Sviridov, K.D. Tolstov and E.N. Tsyganov / Ref 1_7. Subsequently, an attempt was made to improve the recording properties of the emulsion NIKFI R 400µ by a change in the processing con- ditons. Curve 1 of the graph (taken from the paper of V.A. Belyakov, L.G. Kozlova, V.A. Sviridov, K.D. Tol- stov and E.N. Tsyganov / Ref 2_7) corresponds to the normal processing conditions of emulsions, which with	and the second sec		,
 TITLE: Dependence of the Sensitivity of Nuclear Emulsions on Temperature Within the Range of 2-300° K PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii 1959, Vol 4, Nr 6, pp 427-429 (USSR) ABSTRACT: The author reports on recent Soviet study of the dependence of the recording properties of various nuclear emulsions on temperature within the range of 2-300° K. The results of the first experiments were published in the paper of N.A. Dolina, V.A. Sviridov, K.D. Tolstov and E.N. Tsyganov / Ref 1_7. Subsequently, an attempt was made to improve the recording properties of the emulsion NIKFI R 400µ by a change in the paper of V.A. Belyakov, L.G. Kozlova, V.A. Sviridov, K.D. Tolstov, Stov and E.N. Tsyganov / Ref 2 7) corresponds to the 	(23.3000)	66838 SOV/77-4-6-5/16	
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Dependence of the Sensitivity of Nuclear Emulsions on Temperature Within the Range of 2-300 $\,\rm K$

regard to the correlation trace density of fog are most suitable for exposure at room temperature. Curve 2 corresponds to intensified development conditions, the fog increasing in this case by 50%. NIKFI low-temperature emulsions without silver iodide gave better results. Under normal processing conditions, the relative sensitivity at 20° K for the best series of emulsions was equal to 45±3%, and the absolute density of the tracks of the relativistic particles amounted to 17 grains for 100 μ . The microphotograph shows the tracks of η -mesons with an energy of 340 Mev and nuclear fission at an exposure of the emulsion at 20° K. Fine-grained emulsions developed by N.A. Perfilov, N.R. Novikova and Ye.T. Prokof'yeva / Ref 3 / showed at 75° K a relative sensitivity of 75%. The density of the grains on the tracks of the relativistic particles at 300° K amounted to 46 grains per 100 μ . Experiments with Ilford ("Il'ford") G-5 600 μ layers / Ref 4 / were also carried out (see

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Dependence of Within the Ra	the Sensitivity of Nuclear Emulsions on Temperature nge of $2-300^{\circ}$ K	
	Table). The grain density at exposure within the ra of 2-215° K averages 15-17 grains per 100µ of parti track. The fog is approximately constant. The layer were processed under conditions recommended by the firm of Ilford. Comparative data on NIKFI and Ilfor emulsions are given in the graph. There are 1 graph 1 microphotograph, 1 table and 4 references, 3 of w are Soviet and 1 English.	rd land
ASSOCIATION:	Ob"yedinennyy institut yadernykh issledovaniy (Join Institute of Nuclear Research)	t
SUBMITTED:	September 23, 1957	
Card 3/3		

21 (8) Authors:	Barashenkov, V. S., <u>Belyakov</u> , V. A., SOV/59-7-4-12/28 Van Shu-fen', Glagolev, V. V., DolKhazhav, N., Kirillova, L. F.,	
n de la constante de la consta La constante de la constante de La constante de la constante de	Lebedev, R. M., Mal'tsev, V. M., Markov, P. K., Tolstov, K. D., Tsyganov, E. N., Shafranova, M. G., Yao Ch'ing-hsieh	
	The Interaction of Fast Nucleons With Nuclei of the Photo- emulsion NIKFI-R	
PERIODICAL:	Atomnaya energiya, 1959, Vol 7, Nr 4, pp 376-377 (USSR)	ан. А
ABSTRACT :	The present paper deals with the interaction between 9 Bev- protons, which were accelerated in the beam of the synchro- phasotron of the Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research), and the nuclei of a photoemulsion of the NIKFI-R type. The results of these measurements are shown by a table. On the basis of the data thus found it is possible to draw several conclusions as to the mechanism of the interaction between a fast proton and a nucleus. If the primary nucleon-nucleus collision is an interaction between nucleon and channel, the velocity of the	
Card 1/3	center of mass in an interaction of silver and bromine with the channel will be considerably less than in an interaction with light nuclei. Therefore, also the number of s-particles	
		2

The Interaction of Fast Nucleons With Nuclei of the SOV/89-7-4-12/28 Photoemulsion NIKFI-R

must be considerably greater. In the experiment, the numbers of s-particles for light and heavy nuclei are, however, nearly the same. This is explainable on the basis of the cascade mechanism of interaction, in which the energy of the s-particles decreases rapidly in cascade collisions. The multiplicity of the particles produced decreases simultaneously. In the case of the greater number of g-particles, nucleons are concerned, which may be explained by the cascade mechanism of nucleon nucleus interaction. Also the agreement between the transversal momentum p_{gip} for g-protons originating from interactions with light and heavy nuclei points in the direction of the inter-

action cascade mechanism. Besides, a search was made for strange particles by employing the method of investigating according to areas. The cross section of the production of k^+ -particles with an energy of $E \leqslant 140$ Mev in a medium-weight nucleus of the photoemulsion amounts to

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 $(5 \pm 2)10^{-27}$ cm². Besides, the amount of the production cross section, the wide angular distribution of the k-mesons, as well as other facts indicate that a noticeable fraction of

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The Interaction of Fast Nucleons With Nuclei of the Photoemulsion NIKFI-R

507/89-7-4-12/28

slow strange particles is produced in an intranuclear cascade process. Furthermore, the medium-weight energy losses of a fast nucleon are evaluated in the case of a single nucleonnucleon collision. A 9Bev-proton gives up an average of (5.1 ± 0.8) Bev to a medium-weight nucleus of the photoemulsion, which amounts to (60 ± 10) % of its initial energy. 4.05 Bev are used for the production of pions, and 1.05 Bev are transferred to the nucleons of the nucleus. As a proton in an mediumweight nucleus undergoes approximately 2 collisions, the proton, in one single nucleon-nucleon collision, loses $\Delta E = 35 \pm 10 \%$ of its initial energy. By means of other measurements of the pion energy spectrum carried out independently of the present paper in a nucleon-nucleus collision $\Delta E = 40 \pm 10 \%$ is obtained. The statistical theory of multiple production furnishes $\Delta E = (40 - 50)$ %. The authors thank G. Beznogikh, V. Vaksima, Z. Kuznetsova, and N. Metkina for their help in the measurements, and L. Popova for his assistance in analyzing measuring results. There are 1 table and 1 reference.

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AUTHORS:	Belyakov, V. A., Van Shu-fen', G. N., Lebedev, R. M., Mel'nikova, I	N. N., Nikitin, V. A.,	
	Petrzhilka, V., Sviridov, V. A.,	Suk, M., Tolstov, K. D.	
TITLE:	Inelastic Interactions of 7 Bev 19		
PERIODICAL:	Zhurnal eksperimental'noy i teor Vol. 39, No. 4(10), pp. 937-947	eticheskoy fiziki, 1960, 🔨	
	nelastic interaction of 7-Bev π^m		
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HИКФИ-Р (N)	of <u>High Energies</u>). The emulsion ch <u>IKFI-R) l</u> ayers with a thickness of	400µ. 5300 interactions	
	lei of photoemulsion were observed were analyzed (Table 1). The theo:		
	icles was calculated by <u>V. S. Bara</u> ed by special measurements (Table		-
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Inelastic Interactions of 7 Bev π^- -Mesons and Nucleons

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were identified. The angular distribution of pions and the total distribution of all stars (in c.m.s.) are shown in Fig. 1. For smaller number of charged particles, the asymmetry increases strongly. This is principally due to pions with large momenta (Fig. 2). Therefore, th. angular distributions are very different for fast and slow pions (Fig. 3): Pions with momenta < 0.5 Bev show an almost isotropic distribution. From the angular and total distributions of protons (Fig. 4) it is seen that the protons conserve their initial direction. From the momentum distributions of pions and nucleons, the authors conclude that the average momentum of the nucleons and of the charged pions does not depend on the increase of the number of charged particles. The same result follows from the data for the average transverse momenta \overline{p}_1 of protons and pions given in Table 3. Fig. 7 shows the number of neutral mesons as a function of the number of charged particles. The results can be interpreted only partly by the statistical theory. The asymmetry of the angular distribution of the secondary pions can only be explained by a peripheric collision of the pion with a pion of the nucleon shell (Figs. 8 and 9). An estimate of the radius of the nucleon core gave the

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verage momer omentum = ((ions = 1.56 irection, th herefore, wi	tum of proto .37±0.04)Bev 0.10; pions leir average	cm. The authors sum ons = (0.89 ± 0.04) Bev /c; asymmetry of a with p > 0.5 Bev/c a momentum equaling	/c, average trans ngular distributi are emitted in th (0.87±0.06)Bev/c	verse ons of all e forward and agrees,	· · ·	
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"Study of A K and M⁰ K, Pair Production if 77-p and 775 Interactions at the 7-8 Gev/C Momentum of 47 Mesons"
report presented at the Intl. Conference on High Energy Physics, Geneva, 4-11 July 1962
Joint Institute for Nuclear Research Laboratory of High Energy Physics

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BELYAKOV, V.A.; VAN YUN-CHAN [Wang Yung-chang]; VIRYASOV, N.M.; DU YUAN'-TSAY [Du Yuan-cai]; KIM KHI IN; KLADNITSKAYA, Ye.N.; KUZNETSOV, A.A.; NGUYEN, DIN TY [Nguyen Dinh Tu]; PENEV, V.N.; SOKOLOVA, Ye.S.; SOLOV'YEV, M.I.

[Properties of \mathcal{T}° -mesons produced together with strange particles in \mathcal{T} -p and \mathcal{T} -c-interactions] Izuchenie svoistv \mathcal{T}° -mezonov, rozhdaiushchikhsia so strannymi chastitsani v \mathcal{T} -p i \mathcal{T} -c vzaimodeistviiakh. Dubna, Ob"edenennyi in-t iadernykh issledovanii, 1962. 10 p. (MIRA 16:10)

(Mesons)

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BELYAKOV, V.A.; BOYADZHIYEV, A.V.; VAN YUN-CHAN[Wang Yung-ch'ang]; VEKSLER, V.I.; VIRYASOV, N.M.; KIM KHI IN; KLADNITSKAYA, Ye.N.; KUZNETSOV, A.A.; MAL'TSEV, V.M.; NGUYEN, DIN TY; PENEV, V.N.; SOLOV'YEV, M.I.; ZRELOVA, N.N., tekhn. red.

[Production of $\Lambda(\Sigma^{\circ})$ -hyperons and K^o-mesons in the interaction of 7 Gev. \mathcal{J} -mesons with carbon] Rozhdenie $\Lambda(\Sigma^{\circ})$ giperonov i K^o-mezonov pri vzaimodeistvii \mathcal{J} -mezonov s energiei 7 Gev s uglerodom. Dubna, Ob"edinennyi in-t iadernykh issledovanii, 1963. 18 p. (MIRA 17:2)

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BELYAKOV, V.A.; VAN YUN-CHAN [Wang Yung ch'ang]; VEKSLER, V.I.; VINYASOV, N.M.; VKANA, I.; DU YUAN'-TSAY [Tu Yuan ts'ai]; KIM KHI IN; KLADNITSKAYA, Yo.N.; KUZNETSOV, A.A.; MIKHUL, F.; NGUYEN, DIN TY; PATERA, I.; PENEV, V.N.; SOKOLOVA, Ye.S.; SOLOV'YEV, M.I.; KHOFMOKL', T.; MIKHUL, A.
[Production of /\-hyperons and K^O-mesons in *JT* -pinteractions at an energy of 7-8 Bev] Issledovanie protsessov rozhdenita /-giperonov i K^O-mezonov v *JT* -p vzaimodeistviiakh pri energii 7-8 Bev. [n.p. n.d.] 26 p. (MIRA 16:10)
(Mesons) (Hyperons)

APPROVED FOR RELEASE: 06/06/2000

5/056/63/044/002/007/065 B102/B186

 AUTHORS: Belyakov, V. Λ., Wang Yung Ch'ang, Veksler, V. I., Viryasov, N. M., Vrana, I., Tu Yūan-ts'ai, Kim Khi Ying, Kladnitskaya, Ye. N., Kuznetsov, A. Λ., Mikhul, E. Nguyen Din Ty, Patera, I., Penev, V. N., Sokolova, Ye. S., Solov'yev, M. I., Khofmokl', T., Cheng Ling-yen, Mikhul, A.
 TITLE: Investigation of Λ-hyperon and K⁰-meson production processes in π p interactions at 7-8 Bev
 PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44, no. 2, 1963, 431-443

TEXT: The c.m.s. momentum and angular distributions determined for the Λ and K^O particles produced in πp interactions are given and discussed. The measurements were made using a 24-liter propane bubble chamber in a field of 13,700 oc. The total momentum spectrum of the Λ -hyperons produced in the reactions

	$\pi^{-} + p \to \Lambda(\Sigma^{0}) + K^{0} + n\pi,$	-	(1) a set e d'anne
	$\pi^- + p \to \Lambda(\Sigma^0) + K^+ + n\pi$		(2)
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		$\pi^{-} + p \to \Lambda (\Sigma^{0}) + K^{0} + n\pi,$ $\pi^{-} + p \to \Lambda (\Sigma^{0}) + K^{+} + n\pi$	$\pi^{-} + p \rightarrow \Lambda (\Sigma^{0}) + K^{0} + n\pi,$ $\pi^{-} + p \rightarrow \Lambda (\Sigma^{0}) + K^{+} + n\pi$

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11 s/056/63/044/002/007/065 B102/B186 Investigation of Λ -hyperon ... ure shown in Fig. 1, compared with theoretical results. As it may be seen the statistical theory describes the experimental curve very well if the isobars and, the cases with $p_p - p = \Delta < 700$ Mev are neglected. Δ < 700 Mev corresponds to ~30% of all Λ , these being produced in peripheral interactions. The Λ angular distribution has a distinct backward peak $(\vec{n}_{\Lambda}/\vec{n}_{\Lambda} = 0.18 \pm 0.02)$. With increasing multiplicity n the The agreement between experiment and statistical theory improves. Λ angular distribution and the distribution with respect to p₁ is virtually independent of n . The overall mean of the transverse momentum is 383 ± 12 Mev/c; for $\Delta < 700$ Mev, $\overline{p}_{\Lambda_1} = 295 \pm 14$ Mev/o and for = 432 ± 18 Mev/c. For the $K^{\circ}(\vec{k}^{\circ})$ mesons produced in the $\Delta \ge 700 \text{ Mev}$, reactions Carci 2/7

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Investigation of A-hyperon	8/056/63/ B102/B186	044/002/007/065	
$\pi^- + p \rightarrow$	$\begin{cases} K^{0} + \Lambda (\Sigma^{0}) + n\pi, \\ K^{0} + \overline{K}^{0} + N + n\pi, \\ K^{0} + K^{-} + N + n\pi, \\ \overline{K}^{0} + K^{+} + N + n\pi, \\ K^{0} + \Sigma^{\pm} + n\pi. \end{cases}$	(1) (3) (4) (5) (6)	
the total momentum spectrum measured according to the statistical theory bipides the isotropic part, a forwar forward-backward ratio decreases wi arising in Λ -production events the $p_{\pi}^* \ge 400$ Mev/c, well described by the the isobars into account; for $p_{\pi}^* <$	rd peak $(\vec{n} / \vec{n} = 1)$ K K K th increasing n_g . For the momentum distribution the statistical theory 400 Mev/c it is high	61 ± 0.15). The or the charged pions tons are, for y without taking or than that	
obtained from theory. The angular characterized by	distributions for n _g	-2,4,6 are	
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	production are :	collisions one can say t rather of the head-on ty ere are 15 figures and 2	pe than those w				
-		Ob"yedinennyy institut y tute of Nuclear Research		dovaniy (J	oint Inst	i-	
	SUBMITTED:	July 31, 1962	•				
• •	correction for curves obtained	momentum spectrum of hyprecording probability; s from statistical theory events with $\Delta < 700$ Me	haded area: ev with (I) and w	vents with	∆<700 M		
	Fig. 4. K ⁰ tota	al momentum spectrum.				· · · · · · · · ·	
	Fig. 5. K ⁰ tota	al angular distribution.		Э.,	т.		
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L 10238-63 PCS(f)/ENT(m)/HDS_AFTTO/ASD ACCESSION NR: AP3000037 \$/0056/63/044/005/1474/1480 19 AUTHOR: Belyakov, V. A.; Wang Yung-ch'ang; Viryasov, N. M.; Tu Yuan-ts'ai; 60 Kim Khi In; Kladnitskaya, Ye. N.; Kuznetsov, A. A.; Nguyen Din Ty; Penev, V. N.; Sokolova, Ye. S.; Solov'yev, M. I. TITLE: A study of the properties of neutral pions produced with strange particles in negative pion proton and negative pion cerbon interactions. SCIRCE: Zhurnal eksper. i teoret. fiziki, v. 44, no. 5, 1963, 1474-1480 TOPIC TAGS: Neutral pions, strange particle interactions ABSTRACT: An earlier investigation on the production of strange particles by 7-8 Bev negative pions on hydrogen and carbon was continued with a 24 - liter propane bubble chamber. The properties of the neutral pions inferred from the photons accompanying the LAMEDA hyperon and neutral kaon production are given and are compared with the properties of the pions (positive and negative) emitted in LAMEDA and neutral-kaon production processes. In calculating the total number of photons, corrections were introduced for the loss of photons Card 1/2

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emitted at large azimuthal angles and for the asymmetry of the incident beam relative to the longitudinal axis of the chamber. The possibility of a resonance with radiative decay is noted. "In conclusion, the authors wish to thank Academician <u>V. I. Veksler</u>, Professor <u>Chang Weng-yu</u>, <u>M. I. Podgoretskiy</u>, <u>A. M. Baldin</u>, A. <u>V. Nikitin</u>, <u>V. B. Lyubimov</u> and <u>Yen Wu-kuang</u> for useful discussions and many valuable remarks, the staff of the computation center for the calculations, and the laboratory assistants for the measurements. Orig. art. has: 4 figures, 9 formulas, and 4 tables.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Muclear Research)

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	AUTHORS: Belyakov, V. A.; Veksler, V. I.; Viryasov, N. M.; Vrana, Y.; Kim Khi In; Kladnitskaya, Ye. N.; Kuznetsov, A. A.; Mikhul, A.; Nguyen Din Ty*; Solov'yev,	
	M. I.; Hofmokl, T.; Chieng Ling-yen	
	TITLE: Antilambda hyperon production by 7-8 GeV negative pions on hydrogen	
	SOURCE: Zhur. eksper. i teoret. fiz., v. 45, no. 2, 1963, 88-89	
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	TOPIC TAGS: hyperon production, antilambda, negative pion decay, cross section	
	ABSTRACT: The production and decay of A hyperons by 78 BeV negative pions are	
	reported, on the basis of 42 V ⁰ events in which the momentum of the negative particle from the decay was greater than the momentum of the positive particle	
	and the transverse momentum of the decay products was less than or equal to 100	
	MeV. Selection of the $\bar{\Lambda}$ hyperons was by kenemativ criteria, measurement of	
	ionization, and determination of the S-electron energy. The cross section for the production of A hyperons is found not to differ much from the cross section	
	of MN production, or about 3 µb. Orig. art. has 1 figure and 1 table.	
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				Sine (1997) 1997 - 1997 1997 - 1997		
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ACCESSION NR: AP3005249 AUTHORS: Belyakov, V. A.; Mang Yung-ch'ang; Veksler, M Tu Yuan-ta'ai; Kim Khi Ini Kladnitakaya, Ye. N.; Kuznet Penev, V. N.; Solov'yev, M. I.	5/63/045/002/0090/0092					
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Tu Yuan-ta'ali Kim Kni Ini Kladnitskava, Ye. N.; Kuznet	V. I.; Viryasov, N. M.; tsov, A. A.; Nguyen Din Ty*;					
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TITLE: Polarization of <u>lambda hyperons</u> produced in neg interactions at 7 GeV energy	sative pion carbon					
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SOURCE: Zhur. eksper. 1 teoret. fiz., v. 45, no. 2, 19	763, 90-92					
TOPIC TAGS: lambda hyperon , pion , carbon, longitudin	al polarization, complex					
nucleus						
ABSTRACT: A search was made for A hyperons produced 1	In collisions between 7 BeV					
negative pions and carbon nuclei in order to ascertain	whether A hyperons pro-					
duced in complex nuclei have longitudinal polarization						
asymmetry in the angular distributions observed by Sala cimento v. 11, 461, 1959) depended on the energy of the						
whether the interaction involved complex nuclei. The p	polarization values obtained					
for 260 A hyperons were found to be -0.01 + 0.11, -0.0						
the front-back, right-left, and up-down distributions,	respectively, from which					
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colleagues, the laborat	here is no longitudinal polarization. The cory staff, and the staff of the computer	center are
credited with assostance	e. Orig. art. has 5 formulas.	
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AUTHOR: Starodubtsev, S.V.; Khrushchev	v. B.I.; Belyakov, V.A.; Komarov, V.E.
TITLE: Measurement of neutron spectra b thermal column	y a monocrystalline spectrometer in the
SOURCE: AN UZSSR. Izvestiya. Seriya fiz	iko-matematicheskikh nauk, no. 5, 1964, 37-40
TOPIC TAGS: neutron diffraction, crystal neutron	spectrometry, monocrystalline lead, thermal
of monocrystalline lead is utilized to analyticrystal is shown schematically in Fig. 1 of (1:1) plane is denoted by Q; y is the width of beam. The experimental device is shown so graphite plugs are each 50 cm in length. A	. In this method, reflection from the (111) plane ze the neutron beam. The scattering by the f the Enclosure. The angle of cut relative to the of the impingent beam, x that of the reflected chematically in Fig. 2 of the Enclosure. The fraction of the order of 1% of the basic beam is

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BELYAKOV, V.A.: EOYA'DZHIYEV, A.V.; VIRYASOV, N.N.; MAL'TSEV, V.M.
Formation and interaction mechanism of particles in a carbon nucleus. Acta physics Fol 25 no.6:781-796 Je '64.
1. Joint Institute of Nuclear Research, Laboratory of High-Energy Computer Center, Laboratory of Theoretical Physics, Dubna, U.S.S.R.

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ACCESSION NR: AP4037568 AUTHORS: Belyakov, V. A.; Boyadzhiyev, A. V.; Wang, Yung-ch'ang; Veksler, V. T.; Viryasov, N. M.; Kim Khi In; Kladnitskaya, Ye. N.; Kuznetsov, A. A.; Mal'tsev, V. M.; Nguyen Din Ty*; Penev, V. N.; Solov'yev, M. I. TITLE: Production of $\Lambda(\Sigma^0)$ hyperons and K ⁰ mesons in interaction between 7 GeV negative pions and carbon SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1586-1597 TOPIC TAGS: Λ hyperon, Σ^0 hyperon, neutral kaon, negative pion carbon interaction, hyperon production, kaon production, pion proton interaction, bubble chamber, secondary interaction fraction, angular distribution, momentum distribution, cascade model ABSTRACT: The production of $\Lambda(\Sigma^0)$ hyperons and K ⁰ mesons by negative pions on carbon was investigated and compared with earlier results Card 1/6					-
Veksler, V. T.; Viryasov, N. M.; Kim Khi In; Kladnitskaya, Ye. N.; Kuznetsov, A. A.; Mal'tsev, V. M.; Nguyen Din Ty*; Penev, V. N.; Solov'yev, M. I. TITLE: Production of $\Lambda(\Sigma^0)$ hyperons and K ⁰ mesons in interaction between 7 GeV negative pions and carbon SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1586-1597 TOPIC TAGS: Λ hyperon, Σ^0 hyperon, neutral kaon, negative pion carbon interaction, hyperon production, kaon production, pion proton interaction, bubble chamber, secondary interaction fraction, angular distribution, momentum distribution, cascade model ABSTRACT: The production of $\Lambda(\Sigma^0)$ hyperons and K ⁰ mesons by negative pions on carbon was investigated and compared with earlier results	ACCESSION NR: AP4037	568 s/ 00	56/64/046/005/1586/1597		
between 7 GeV negative pions and carbon SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1586-1597 TOPIC TAGS: Λ hyperon, Σ^0 hyperon, neutral kaon, negative pion carbon interaction, hyperon production, kaon production, pion proton interaction, bubble chamber, secondary interaction fraction, angular distribution, momentum distribution, cascade model ABSTRACT: The production of $\Lambda(\Sigma^0)$ hyperons and K ⁰ mesons by negative pions on carbon was investigated and compared with earlier results	Veksler, V. I.; Viryas Kuznetsov, A. A.; Mal	sov, N. M.; Kim Khi In;	Kladnitskaya, Ye. N.;		
TOPIC TAGS: Λ hyperon, Σ^0 hyperon, neutral kaon, negative pion carbon interaction, hyperon production, kaon production, pion proton interaction, bubble chamber, secondary interaction fraction, angular distribution, momentum distribution, cascade model ABSTRACT: The production of $\Lambda(\Sigma^0)$ hyperons and K ⁰ mesons by negative pions on carbon was investigated and compared with earlier results			mesons in interaction		
carbon interaction, hyperon production, kaon production, pion proton interaction, bubble chamber, secondary interaction fraction, angular distribution, momentum distribution, cascade model ABSTRACT: The production of $\Lambda(\Sigma^0)$ hyperons and K ⁰ mesons by negative pions on carbon was investigated and compared with earlier results	SOURCE: Zh. eksper.	i teor. fiz., v. 46, no	. 5, 1964, 1586-1597	•	
pions on carbon was investigated and compared with earlier results	carbon interaction, hy interaction, bubble c	yperon production, kaon hamber, secondary inter	production, pion proton action fraction, angular	n r	- Angle Anna Angle - Angle
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ACCESSION NR: AP4037568 (ZhETF v. 40, 464, 1961) from π p interactions at the same pion momentum. A 24-liter propane bubble chamber in a constant field of 13,700 Oe was used in accordance with a procedure described before (ZhETF, v. 38, 426, 1960). The purpose of the experiment was to estimate the fraction of the secondary interactions. An estimate was made for the first time of the fraction of strange particles produced in the secondary processes. The momentum spectrum of the A hyperons (in the pion-nucleon center of mass system) was compared with the spectrum for the $\pi^{-}p$ interactions. The following distribution of events over the reaction channels was obtained Yoko Yok+ Koko Kok-+K+Ko SIKo Yoyokk Number of events $427\pm$ Cross section, mb $4,8\pm$ and the cross section for each interaction event with the carbon was calculated to be 0.0113 mb. This yielded the following cross 2/6 Card¹·····

a contraction and the contraction of the second ACCESSION NR: AP4037568 sections $\sigma(Y^{\circ}K^{\circ,*}) = 7,3 \pm 1,2$ and $\sigma(K^{\circ}K) = 5,3 \pm 1,5$ The good agreement between the calculated and experimental values of the spectra of the Λ hyperons and K^0 mesons gives grounds for assuming that the cascade model holds true for these phenomena. It also is concluded that the previously observed hard part of the momentum spectrum of the Λ hyperons in the pion-nucleon center of mass system in π p interactions is due to an admixture of carbon events, and that the role of the secondary processes which lead to the production of strange particles is quite appreciable even on the carbon nucleus. "The authors are grateful to I. Klugov and M. Shneyeberger for help at the beginning of the work, to V. S. Barashenkov, I. V. Chuvilo, and M. I. Podgoretskiy for discussion and valuable remarks, to Ye. P. Zhidkov, G. A. Ososkov, and K. N. Danilova for help with the calculations, and to the laboratory group for the measurements." Orig. Card 3/6



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	ACCESSI	ON NR:	AP4037575		5	6/0056/64	4/046/005	/1632/16	36	
	AUTHOR:	Belya	kov, V. A.	3	•	•				
	TITLE: model	Large	nuclear def	formations	in the	anisot:	ropic-osc	illator		
	SOURCE:	Zh. e	ksper. i te	or. fiz.,	.v. 46	no. 5,	1964, 16	32-1636		
			leformed nuc 1 potential		n even	nucleus	, energy	gap, ene	, rgy	
	fined t ibrium used to tential even-ev tions.	o deforma deforma calcul , and t ven nucl The ca	view of the mations not ations of nu- ate the end the magnitud .ei Kr ⁸⁶ , Sp alculation p	c exceedin aclei, the argy of th le of the 88, 90, c ⁸ , Sr ⁹ , program co	g 0.3 aniso e groun gap in Ba ¹³⁶ nsiste	and perta tropic of nd state the energy , and Ce	aining or scillato; , the che rgy spect 140 at la	ly to eq model i mical po rum of t ruge defo	nil- s he orma	
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ACCESSION NR: AP4037575 particle Hamiltonian, obtaining the self-consistent formulation, and take into account the pairing effects. The system of equations for determining the ground state energy, chemical potential, and gap is obtained by a procedure described by Belyayev (Mat. Fys. Medd. Dan. Vid. Selsk. 31, No. 11, 1959), and the resultant system of equations was solved separately for neutrons and protons. The variation of the effective energy levels with the deformation is found to agree well with the behavior of the Nilsson system of singleparticle levels (S. Nilsson, Kgl. Danske Videsnk. Selsk. Mat.-Fys. Medd. v. 29, no. 16, 1-68, 1955), At deformations corresponding to the fission barrier, however, the Nilsson model cannot be employed. Furthermore, the anisotropic oscillator model cannot give in principle a fission barrier. The use of the calculation results for the determination of the deformation of fragments immediately after fission yields for the square of the eccentricity a value $\varepsilon \sim 0.25$. whereas calculations on the liquid-drop model yield $\varepsilon = 0.37$. "The author is grateful to B. T. Geylikman for suggesting the topic and Card 👘



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BELYAKOV, V.A.; VEKSLER, V.I.; VIRYASOV, N.M.; KLADNITSKAYA, Ye.N.; KOPYLOV, G.I.; MIKHUL, A. [Michul, A.]; PENEV, V.N.; SOKOLOVA, Ye.S.; SOLOV'YEV, M.I.
-Meson resonances generated simultaneously with strange particles in µ-p-interactions at 7.5 Gev./c. Zhur.eksp.i teor. fiz. 46 no.6:1967-1978 Je '64.
1. Ob"yedinennyy institut yadernykh issledovaniy. 2. Sotrudnik Instituta atonnoy fiziki Rumynskoy Akademii nauk, Bukharest (for Mikhul). (MIRA 17:10)

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DEVENDENCE

<u>L 23730-66</u> EMT(m)/T	
ACC NR: AP6014814 SOURCE CODE: UF	R/0367/65/001/002/0338/0350
AUTHOR: Belyakov, V. A.; Veksler, V. I.; Viryasov, N. M.; Kladnitskaya, B. N.; Kopylov, G. I.; Penev, V. N.; Solov'ye	Kladnitskaya, Ye. N
ORG: Joint Institute of, Nuclear Research (Ob"yedinennyy ins	stitut yadernykh issledovaniy)
TITLE: <u>Baryon</u> resonances in pi- p-interactions at 7.5 GEV particles	with formation of strange
SOURCE: Yadernaya fizika, v. 1, no. 2, 1965, 338-350	B
TOPIC TAGS: baryon, meson, particle interaction, strange p cross section	
ABSTRACT: The formation and properties of resonances decay $\pi \pm -$ mesons were studied. Data are given on the formation of	pross sections for I+ (1385)
and I+ (1660)-hypersons in 7- p-interactions at 7.5 GEV/c. tion characteristics of X1 (1385)-hyperons and their decay	The properties and forma- products were investigated
The maximum in the mass spectrum $M_{AR}+r$ at the value 1770 authors thank Professor <u>M. I. Podgoretskiy</u> and Professor I.	V. Chuvilo for their
interest in the work and their discussions; A. Mikhul, Nuge Ye. S. Sokolova, Du Yuan'-tsay, Van Yun-chan and Kim Khi In	1 for taking part in the
first stage of the work. Further thanks is rendered N. F. co-workers at the Computer Center, for carrying out the calc	rulations and the group
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ACC NR: AP6014814 of laboratory workers for the measurements. The authors also thank V. G. Grishin, <u>A. V. Nikitin, E. G. Bubeley</u> , and <u>I. Kurelar</u> for discussing the various problems of this work. Orig. art. has: 9 figures, 2 formulas, and 4 tables. [Based on authors]. Eng. abst. [JPRS]		
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AUTHOR: Belyakov, V. A.; Veksler, V. I.; Viryasov, N. M.; Kladnitskava, Ie. N Kladnitskava, E. N.; Kopylov, G. I.; Penev, V. N.; Solov'yev, M. ISolovyev, H. I. ORG: Joint Institute of Nuclear Research (Ob"yedinennyy institut yadernykh issledovaniy) TITLE: Meson resonances in pi-p-interactions at 7.5 GEV with formation of strange particles \mathcal{A} SOURCE: Yadernaya fizika, v. 1, no. 2, 1965, 351-365 TOPIC TAGS: pi meson, strange particle, particle interaction, K meson, mass spectrum ABSTRACT: Resonances decaying into K° (K°, K+) and σ -mesons are investi- gated. Cross sections are given for the formation of K* (888) and k (730) -mesons in π -p-interactions at 7.5 GEV/c in events with KK pairs, and the contribution (in \mathfrak{I}) of k°, K*-mesons in events with \wedge K+ pairs is evaluat- ed. Properties and formation characteristics of K*-mesons are described. Mass-spectra of the K2 π and K3 π systems are investigated. The possibility of the formation of a new resonance U - K° + $\pi^{\pm} + \pi^{\pm} + \pi^{\pm}$ with mass 1660 MEV is indicated. An attempt is made to determine its quantum numbers. Proofs are given for the production of a resonance with mass 1050 MEV, decaying into three σ -mesons ($\sigma^+ \sigma^+ \sigma^2$), which can be identified as the Al-mesons.	23731-66 EWT(m)/T ACC NR: AP6014815	SOURCE CODE: UR/0367/65/001/002/0351/0365	
ORG: Joint Institute of Nuclear Research (Ob"yedinennyy institut yadernykh issledovaniy) TITLE: Meson resonances in pi-p-interactions at 7.5 GEV with formation of strange particles $\frac{1}{9}$ $\frac{1}{9}$ $\frac{1}{9}$ SOURCE: Yadernaya fizika, v. 1, no. 2, 1965, 351-365 TOPIC TAGS: pi meson, strange particle, particle interaction, K meson, mass spectrum AESTRACT: Resonances decaying into K° (K°, K+) and σ -mesons are investi- gated. Cross sections are given for the formation of K* (888) and k (730) -mesons in π - p-interactions at 7.5 GEV/c in events with KK pairs, and the contribution (in $\frac{1}{2}$) of k°, K*-mesons in events with Λ K+ pairs is evaluat- ed. Properties and formation characteristics of K*+-mesons are described. Mass-spectra of the K2 π and K3 π systems are investigated. The possibility of the formation of a new resonance U - K° + ** + π * with mass 1660 MEV is indicated. An attempt is made to determine its quantum numbers. Proofs are given for the production of a resonance with mass 1050 MEV, decaying $\frac{1}{2}$			
TITLE: Meson resonances in pi-p-interactions at 7.5 GEV with formation of strange particles $\frac{1}{9}$ SOURCE: Yadernaya fizika, v. 1, no. 2, 1965, 351-365 TOPIC TAGS: pi meson, strange particle, particle interaction, K meson, mass spectrum AESTRACT: Resonances decaying into K° (K°, K+) and σ -mesons are investi- gated. Cross sections are given for the formation of K* (888) and k (730) -mesons in σ -p-interactions at 7.5 GEV/c in events with AK pairs, and the contribution (in $\%$) of k°, K*°-mesons in events with AK pairs is evaluat- ed. Properties and formation characteristics of K*+-mesons are described. Mass-spectra of the K2 π and K3 π systems are investigated. The possibility of the formation of a new resonance U - K° + π [±] + π [±] with mass 1660 MEV is indicated. An attempt is made to determine its quantum numbers. Proofs are given for the production of a resonance with mass 1050 MEV, decaying			
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AUTHOR: Belvakov, V. A.	32 28 3	
DRG: none		
FITLE: The isomer shift and the structur	e of metestable states of molet	
OURCE: Zhurnal eksperimental'noy i teor 32-840	eticheskoy fiziki, v. 49, no. 3, 1965,	
COPIC TAGS: nuclear isomer, isotope, nuc metastable state	lear structure, ground state, excited state,	
heory of finite Fermi systems. The difference ose of detecting subtle effects in the st idered for which the transition to the gr o that the calculation of the difference uting the difference in the changes in th ion resulting from adding the nucleon in tant for the volume isotopic shift is cal eights. The nature of the excited nucles he calculations with single-particle esti-	arence in the mean-square radii of the elec- d excited states is calculated for the pur- tructure of the nucleus. Isomers are con- round state is a single-particle transition, in the mean-square radii reduces to com- te mean-square radii of the charge distribu- different single-particle states. The con-	

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AUTHOR: Belyakov, V. A.; Vasil'yev	$\mathbf{r}_{\mathbf{r}} = \mathbf{R}_{\mathbf{r}} \mathbf{r}_{\mathbf{r}}$	36
ORG: none 2/ TITLE: Chemiluminescence in soluti	ons. III. The attent of additions at	8
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	inescence quenching, electron energy 1	evel, optic
ABSTRACT: This is a continuation of AN SSSR v. 156, 1402, 1964) dealing themiluminescence. The authors repar- an be activators or quenching agent and acceptor energy level. It is re- themiluminescence of cyclohexanone exanone and acetophenone, but does additive molecules are excited only hich is excited in the reaction. In the the second of the study of	f earlier studies (Opt. i spektr. v. 1 g with luminescent substances capable ort that acceptors introduced into the ts, depending on the relative position eported that anthracene derivatives in and acetophenone. Naphthalene also qu not affect chemiluminescence of diace at the expense of energy transfer fro These facts agree well with the photol ions, thus substantiating the feasibil energy transfer. With a chemical meth olution components does not play any r	of enhancing reaction of the donor tensify the enches cyclo- tyl. The m the donor uminescence ity of using

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CHEBOTAREV, Yevgeniy Viktorovich; <u>BELYAKOV, V.A.</u>, kand. tekhn. nauk, retsenzent; VORONIN, A.V., Kand. tekhn. nauk, retsenzent; RYVKIN, Yu.Ye., kand. tekhn. nauk, dots., red.; FRIDKIN, L.M., tekhn. red.

> [Principles of electric traction] Osnovy elektricheskoi tiagi. Moskva, Gosenergoizdat. Pt.2. [Theory of operation, methods for design, and choice of the parameters of the principal elements of electric-power supply systems of electric railroads] Teoriia raboty, metody rascheta i vybor parametrov osnovnykh elementov sistemy elektrosnabzheniia elektricheskikh dorog. 1963. 183 p. (MIRA 16:9)

(Electric railroads)

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USSR/Medicine	ic O U U.D. - Epidemiology FD-1646	
Card 1/1	: Pub. 148-26/28	
Author	: Znamenskiy, G. A. and Belyakov, V. D.	
Title	: Certain theoretical problems of epidemiology	
Periodical	; Zhur. mikro, epid. i immun. 7, 103-108, Jul 1954	
Abstract	: A discussion of epidemiology as a "social-medical" science from the dialectical viewpoint is given. Epidemiology is defined from the point of view of communist ideology. No references are cited. A quotation from Engel's is used to illustrate the author's contentions.	
Institution		
Submitted '	: August 15, 1953	
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BELYAKOV, V. D.

"A Comparative Evaluation of the Quality of Antidysentery Vaccines," by V. D. Belyakov, Zhurnal Mikrobiologii, Epidemiologii <u>1 Immunobiologii</u>, No 10, Oct 56, pp 48-52

This work discusser experiments conducted on mice, rabbits, and humans to determine the relative effectiveness of the NIISI polyvaccine, tetravaccine, and the oral vaccine. A single inoculation with the polyvaccine produced the same results in experiments on 300 mice as triple inoculation with the tetravaccine. A second inoculation with the polyvaccine increased the resistance of mice to infection with cultures of Flexner and Sonne dysentery bacteria only slightly. The intensity of immunity as measured by the survival rate of the animals was higher in regard to the Sonne cultures.

These experiments were repeated with the same vaccines on rabbits. The Sonne component of both the polyvaccine and the tetravaccine was found to be ineffective. The results of these experiments on mice and rabbits are presented in tabular form.

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"The immunological changes which occur in naturally susceptible animals are not identical with the changes which occur in the human organism. Therefore, we carried out observations of the immunological effectiveness of vaccination on humans. In addition to the effectiveness of the polyand tetravaccines, the effectiveness of combined subcutaneous vaccination with polyvaccine and oral administration of antidysentery tablets was also studied."

"The antigenic properties of the dysentery components of the vaccines proved to be very low. Moreover, no essential difference in their effectiveness could be discerned."

The results obtained are presented in a table showing the immunological changes registered by the persons vaccinated. "Attempts to increase the effect of immunization by supplementary administration of the tablets were not successful. Regardless of the number of tablets taken or the schedule of their administration, enteral vaccination did not retard the reduction in agglutinins or protective antibodies during the second and third months after inoculation with the polyvaccine."

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Since the limited number of persons involved in these experiments was considered too low to produce valid results, mass epidemiological trials were conducted, i.e., 6,873 persons were inoculated with tetravaccine, 4,763 with polyvaccine, and 7,545 with a combination of polyvaccine and tablets. Subsequent analysis of data on cases of dysentery appearing among persons inoculated by the three methods showed no substantial differences in their effectiveness in regard either to incidence rates, or to clinical manifestations, i. e., 96.6% had Flexnertype dysentery, 1.5% the Sonne type, and 1.5% the Newcastle type.

Vaccination by any of the methods had no effect on the seasonal dynamics of the incidence rate. A graph illustrating this point is given. "Consequently, if a specific degree of resistance of the organism to infection is imparted by vaccination, the intensity of immunity is, evidently, so low that it is incapable of allaying the usual seasonal rise in incidence."

On the basis of the results obtained the following conclusions are reached:

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"The Epidemiological and Immunological Effectiveness of Vaccines Against Intestinal Infections in Dysentery," by V. D. Belyakov, V. Ye. Korostelev, I. <u>I. Rogozin</u>, and A. <u>L. Siriko</u>, Voyenno-Meditsinskiy Zhurnal, No 11, Nov 56, pp 37-44

The article presents results of large-scale inoculations to determine the epidemiological effectiveness of the dysentery components in vaccines against intestinal infections. In April 1955, 21,175 persons were inoculated with NIISI (Scientific Research Testing Institute of Sanitation) polyvaccine, 18,409 persons with tetravaccine, and 20,820 persons with antidysentery vaccine in tablet form. Of all persons under observation, 95.9% were revaccinated, and the remaining 4.1% received only the primary vaccination. Groups in several populated areas were inoculated according to the same schedule.

All infections which occurred during the month after inoculations -- acute dysentery influmnation of intestines, and chronic dysentery -- were registered separately. A graph shows incidence curves of three groups, i.e., persons inoculated with NIISI polyvaccine, tetravaccine, and antidysentery tablets, respectively, for a period of 6 months (May-September). The article considers minor differences in the curves to be the result of chance fluctuation in epidemiological conditions, not dependent on the nature of the inoculation. It states that none of the vaccines conferred immunity sufficient to combat the seasonal rise in incidence.

SUM.1345

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Analysis of data obtained during one year of observations (presented in Table 1) [tables not reproduced] substantiated the similarity in effectiveness of the vaccines tested. Insignificant differences in incidence were consistently evidenced. It was found, however, that indexes of incidence according to group were dissimilar in several of nine observation points. Table 2 shows appreciable differences in incidence rates of acute dysentery and inflammatory intestinal infections in four observation points. The authors doubt that these fluctuations can be ascribed to the quality of the vaccines employed. They propose that they are due rather to peculiarities in edidemiological conditions, and offer data to substantiate this statement.

Epidemiological data are confirmed by the results of laboratory investigations. Various clinical indexes according to method of incculation of persons with acute dysentery are given in Table 3. Clinical manifestations and the severity of the course of the disease were similar in all cases. Characteristics of dysentery pathogens isolated from patients are shown in Table 4. Pathogens against which antigens were contained in the vaccines were isolated most frequently.

SUM, 1345

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The article discusses the agglutination reaction in sera of persons immunized with the aforementioned preparations.

Three groups of persons previously immunized parenterally against intestinal infections were inoculated with the preparations being investigated and placed under observation. After revaccination, sera were taken from the patients and kept in a refrigerator for 1-3 months, at which time second and third portions of serum were collected from the same patients and stored. To eliminate the possibility of chance results in determining the quality of the vaccines, 12 series of each preparation were used for immunization. All three sera from the same person were investigated by the agglutination reactions with typhoidparatyphoid and dysentery diagnosticums simultaneously. The article describes method used and discusses results obtained. "ON" diagnosticum, especially prepared for use in these tests was used. The reaction was set up in serum dilutions beginning with 1:50 for typhoid-paratyphoid and Flexner's dysentery antigens, and 1:10 for Sonne's dysentery antigens. Indexes in all cases were rather close. Table 5 shows the number of sera reacting positively with each diagnosticum and in relation to the time the serum was obtained. Percentages of persons in whom an increase in agglutination titer as a result of inoculation was observed are listed in Table 6. The data show that none of the vaccines brought about an increase in the titer of agglutinins to any antigen in more than 50% of immunized persons. The best indexes were obtained with the typhoid component; relative evaluations are given of other components of the tetravaccine and NIISI vaccines.

SUM. 1345

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Average agglutination titers of the sera investigated with antigen are shown in Table 7. Table 8 gives indexes of increases in antibody titers; these results indicated that the NHSI polyvaccine was slightly superior to the tetravaccine. In Table 9, indexes of increase in the average titer of antibodies to the diagnosticum are presented; results shown in this table substantiate the superiority of all components of the NHSI polyvaccine as compared with the tetravaccine. The article concludes that the best indexes were obtained from the typhoid-paratyphoid components; the dysentery components were not markedly effective. Antidysentery vaccine in tablet form did not produce any increase in the titer of antibodies to either typhoid-paratyphoid or to dysentery antigens. (J)

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The report covers studies made in "three different locations" in Central Asia on the causes and transmission of Q fever. The role played by ticks and domestic animals in the transmission was investigated. It was determined that the pathogen was transmitted in the dust stirred up by sheep and goats and inhaled by the people who were in close contact with them or who used the same dusty roads over which the herds were driven to pasture, and that the resulting infections often reached epidemic proportions. Only isolated cases of Q fever could be traced to tick bites. Where people are exposed to close contact with domestic animals, especially sheep and goats, inoculation is necessary. (U) Sum 1439

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BELYAROU, V.L. SIROKO, A.L., DELYAKOV, V.D. On 1.7. Davydovskii's book "Theories of infection." Reviews, criticiam, and bibliography. Zhur.mikrobiol.epid. i immun. 29 no.6:118-122 Je '58 (INFECTION) (MIRA 11:7)

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BELYAKOV. V.D.; IL'CHENKO, A.A.

Effectiveness of combined immunization against enteric infections and Q fever. Zhur. mikrobiol, epid. i immun. 29 no.11:29-34 N '58. (MIRA 12:1) 1. Iz Voyenno-meditsinskoy akademii imeni S.M. Kirova. (VACCINES AND VACCINATION, polyvaccines against intestinal infect. & Q fever (Rns)) (Q FRVMR, prev. & control, immunol. same)

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BELVAKUY, V.D., kand.neuk, polkovnik meditsinskoy sluzhby; IVAHOV, K.G., Kuul.med.neuk, mayor meditsinskoy sluzhby; IL'CHENKO, A.A., mayor meditsinskoy sluzhby
Affectiveness of hygienic washing as a method for skin disinfection. Vosn.med.zhur. no.5:73-75 My'59. (MIRA 12:8) (HTOINER, washing as effective disinfection method (Rus))

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• •		"Communicable diseases of man," Y.M. Zhdanov. V.D. Beliakov. Zhur, mikrobiol., epid.i immun.					Reviewed by I.I. Rogozin, 30 no.11:134-136 N '59. (MIRA 13:3)				
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ROGOZIN, I.I.; BELYAKOV, V.D.

The significance of variability of microorganisms in the epidemic process. J. hyg. epidem., Praha 4 no. 3: 309-313 '60.

1. Department of Epidemiology, Kirov Military Medical Academy, Leningrad. (EPIDEMIOLOGY)

(EPIDEMIOLOGY) (MICROBIOLOGY)

APPROVED FOR RELEASE: 06/06/2000

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S/016/60/000/06/01/051 AUTHORS : Rogozin, I.I., and Belyakov, TITLE: Method of Epidemiological Research PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1960, No. 6, pp. 3 - 6 TEXT: The authors illustrate the claim of epidemiology to be regarded as a separate science with its own distinct method of research. This constitutes a ccmplex of studies involving macroscopy and microscopy, comparative analysis, the case-history approach, statistics and experimental work, Apart from microbiological factors, social and economic aspects must also be taken into consideration. Epidemiology is a specific science in its own right and necessitates the formation of departments of epidemiology at medical institutes throughout the Soviet Union. There are 5 Soviet references. ASSOCIATION: Voyenno-meditsinskaya ordena Lenina akademiya imeni Kirova (Order of Lenin Military Medical Academy imeni Kirova) SUBMITTED: October 8, 1959 Card 1/1

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BELYAKOV, Vitaliy Dmitriyevich; SOKOLOV, M.I., red.; SENCHILO, K.I., Tekhn. red.

 [Immunogemic prophylaxis in epidemiology] Immunoprofilaktika v epidemiologii. Moskva, Nedgiz, 1961. 337 p. (MIRA 15:1) (IMMUNITY)

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BELYAKOV, V.D.

Further study of the immunological effectiveness of combined vaccination. Voen.-med. zhur. no.ll:34-38 N '61. (MIRA 15:6) (VACCINATION)

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CIA-RDP86-00513R000204530001-6

ROGOZIN, Isaak Iosifovich, red.; <u>BELYAKOV, V.D., red.</u>; KOROSTELEV, V.Ye., red.; MIKHAYLOVSKIY, V.T., red.; SOLODILOV, Ye.V., red.; LABEZOV, G.I., red.; SHURA-BURA, B.L., red.; DAAL'-BERG, I.I., red.; LEBEDEVA, Z.V., tekhn. red. [Military epidemiology]Voennaia epidemiologiia. Leningrad, Medgiz, 1962. 135 p. (NIRA 15:11) (EPIDEMIOLOGY) (MEDICINE, MILITARY)

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Evaluation of the methods of determining the immunological effectiveness of intestinal vaccines; comparison of some humoral reactions in biological experiments. Zhur. mikrobiol., epid. i immun. 40 no.3:118-119 Mr '63.

(MIRA 17:2) 1. Iz Voyenno-meditsinskoy akademii ordena Lenina imeni Kirova.

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