COLOMSHTOK, I.S.; GELLER, Z.I.; KIDZNESCOW, A.A., MINASYAN, T.S.

Effectiveness of using the "Bakinskii operation" heat exchanger in petroleum refineries. Aserb.neft.khos. 35 no.5:27-28 My '56.

(NLRA 9:10)

(Heat exchangers) (Petroleum--Refining)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928110011-8"

KUZNETSOV, Andrey Alekseyevich; CHERVOVA, M.S., red.; SHERMUSHENKO, T.A., tekhn.red.

[New machinery and instruments] Novye mashiny i pribory. Leningrad, Lenizdat, 1960. 58 p. (MIRA 13:11)

1. Zamestitel' predsedatelys Leningradskogo sovnarkhoza (for Kusnetsov).

(Machinery) (Instruments)

3.位364、1808年的高级(1804年的美国)。

STEPANENKO, B.N., otv. red.; KOCHETKOV, N.K., red.; KUDRYASHOV, L.I., red.; KUZNETSOV, A.A., red.; ROZENFEL'D, Ye.L., red.; VASIL'YEVA, L.N., red.

[Chemistry and metabolism of carbohydrates; materials] Khimiia i obmen uglevodov; materialy. Moskva, Nauka, 1965. 351 p. (MIRA 19:1)

1. Vsesoyuznaya konferentsiya po probleme "Khimiya i obmen uglevodov." 3d, 1963. 2. Institut khimii prirodnykh soyedineniy AN SSSR (for Kochetkov). 3. Institut biokhimii im. A.N.Bakha AN SSSR (for Stepanenko). 4. Institut biologicheskoy i meditsinskoy khimii AMN SSSR (for Rozenfel'd).

KUZNETSOV, A.A.; SUDAKOV, Ye.N.

Horizontal alkylation reactor design. Khim.i tekh.topl. i masel 10 no.1:40-45 Ja *65. (MIRA 18:4)

1. Groznenskiy ordena Trudovogo Krasnogo Znameni neftyanoy institut.

GENADINNIK, I.S., kand.med.nauk; TANANYKIN, N.I.; KUZNETSOV, A.A.

Significance of one-stage multilayer tomosplenoportography in the diagnosis of tumors of the organs of the epigastric region. -Vest.rent.i rad. 40 no.5:30-34 S-0 165.

(MIRA 18:12)

1. Kafedra obshchey khirurgii (zav. - dotsent P.M.Tarasov) i

kafedra rentgeno-radiologii (zav. - dotsent A.G.Suntsov)

Chelyabinskogo meditsinskogo instituta.

KOROTKOV, A.G., insh.; KUZNETSOV, A.A., insh.

Using castings from light nonferrous alloys. Trakt. 1 sel'khozmash. 33 no.10:41-43 0.163. (MIRA 17:1)

l. Nauchno-issledovatel'skiy institut tekhnologii traktornogo i sel'skokhozyaystvennogo mashinostroyeniya.

S/874/62/000/002/019/019 D218/0308

AUTHORS:

Aleynikov, A.L. and Kuznetsov, A.A.

TITLE:

Solution of the converse problem in the case of a

gravitational step

SOURCE:

Akademiya nauk SSSR. Ural'skiy filial. Institut geofiziki. Trudy. no. 2, 1962. Geofizicheskiy sbornik,

no. 3, 333-339

TEXT: This paper is concerned with the analysis of anomalies in the gravitational acceleration with the view to obtaining information about the presence and nature of semi-infinite prisms below the surface. It is suggested that the position of the upper and lower faces of the prism (h₁ and h₂) may be determined from the ratio of the maximum values of the horizontal gradient, Value, and the extremal value of the anomaly, which is given by (in units of H)

max (5)

Card 1/3

S/874/62/000/002/019/019 D218/D308

Solution of the converse ...

where Δg_0 is the value of the anomaly at the point taken as the origin at which $V_{XZ} = V_{XZ}^{max}$. Fig. 1 shows a nomogram which may be used to determine h_1 and h_2 in units of H (the mean depth of the prism below the surface). The excess density can be determined from the formulas

 $\sigma = \frac{|\Delta g^{\max}| + |\Delta g^{\min}|}{2\pi k (h_2 - h_1)}$ (6)

 $\sigma = \frac{v_{xz}^{\text{max}}}{2k \ln \frac{h_2}{h_1}}$ (6')

where k is the gravitational constant. Examples of the applications of this method to field observations are given. There are 5 figures and 1 table.

Card 2/3.

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928110011-8

KUZNETSOV, A.A.

Role of partial hydrogen pressure in the genesis of traps.

Dokl. AN SSSR 158 no.1:123-125 S-0 *64 (MIRA 17:8)

1. Nauchno-issledovatel skiy institut geologii Arktiki. Predstavleno akademikom V.S. Sobolevym.

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928110011-8

VODOP'YANOV, V.L., GABDRAKHIMOV, I.Kh., KUZNETSOV, A.A.

Readers! r mponse to the article by S.G.Borisenko, V.M.Tubol!tsev, and P.IA.(alushko "Comparison of results of studying stresses surrounding workings by means of photoelasticity and in nature"; "Ugol!", 1964, No.2. Ugol! 39 no.11:65 N *64.

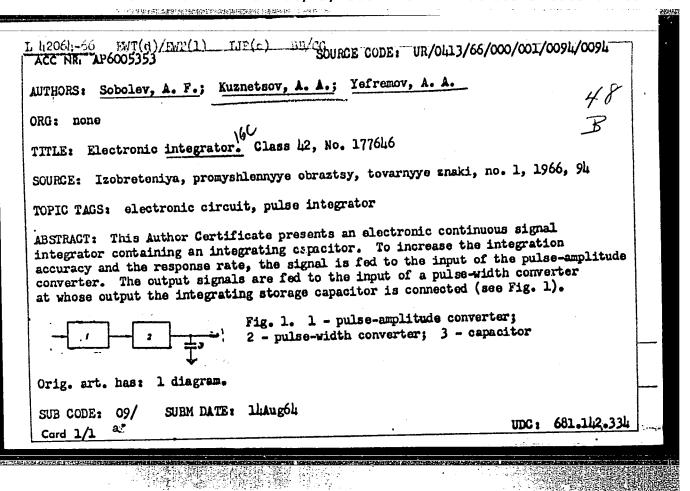
(MIRA 18:2)

1. Permskiy nauchno-issledovatel'skiy ugol'nyy institut (for Vodop'yanov, Gabdrakhimov). 2. Fermskiy politakhnicheskiy institut (for Kuznetsov).

KUZNETSOV, A.A.

Comparison of factors affecting the cristallization of effusive and intrusive traps. Dokl. AN SSSR 165 no.3: 666-669 N 165. (MIRA 18:11)

1. Nauchno-issledovatel'skiy institut geologii Arktiki. Submitted June 18, 1965.



KUZNETSOV, A.A., inzh.

Use of firmness values in the determination of the unit resistance of soil. Trakt. i sel'khozmash. 32 no.2:27-29 F '62. (MIRA 15:2)

1. Kuybyshevskiy sel'skokhozyaystvennyy institut. (Soil physics)

KUZNETSOV, A. A.

"Zootechnical Bases for Covering Mursing Sows." Cand Agr Sci, Khar'kov Zootechnical Inst, Min Agriculture USSR, Khar'kov, 1954. (KL, No 9, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

KUZNETSOV, A. A.

"Preventative Infection of Idving Ampule-Packaged Cultures of Leishmania tropica for the Purpose of Prophylaxis Against Spontaneous Infection With Borovskiy Disease (Dermal Leishmaniasis). "Cand Biol Sci, Turkmen Inst of Epidemiology, Microbiology, and Hygiene, Ashkhabad, 10 Dec. 54. (TI, 30 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

ROZENFEL'D, Ye.L.; SHUBINA, A.I.; KUZERTSOV, A.A.

Splitting of dextran by spleen extract. Dekl.AN SSSR 104 ne.1: 113-117 S '55. (MLRA 9:2)

1.Laboratoriya fizielegicheskey khimii Akademii nauk SSSR. Predstavlene akademikem V.A.Engel'gardtom. (DERTRAM)

5/139/60/000/006/010/032

9.2000 (1001, 1155, 1024) E201/E491

AUTHOR: Kuznetsov, A.A.

Dielectric Properties and Structure of Polycrystalline TITLE:

Samples of the ZnO-TiO2 System

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika,

1960, No.6, pp.71-7

On Professor G.I.Skanavi's recommendation, the author TEXT: investigated the permittivity and the loss-angle tangent of the ZnO-TiO2 system as a function of its composition and crystal Samples with the following molar compositions were used:

1Zn0 - 9TiO2; $12n0 - 4Ti0_2;$ 3Zn0 - 7TiO2;

2Zn0 - 3Ti02; 1Zn0 - 1Ti02; 5.3Zn0 - 4.7TiO2;

3Zn0 - 2T102; 2Zn0 - 1Ti02; 7Zn0 - 3Ti02.

The samples were in the form of disks and plates. They were prepared by pressing and subsequent firing in a Silit 'rnace at 1250 to 1350°C using standard ceramic techniques. Measurements were carried out at frequencies of 400 to 108 c/s Card 1/4

S/139/60/000/006/010/032 E201/E491

Dielectric Properties and Structure of Polycrystalline Samples of the ZnO-TiO2 System

and at 10¹⁰ c/s, at temperatures of 200 to 300°C.

At 3 x 10⁷ to 10⁸ c/s and at 10¹⁰ c/s, measurements were carried only at 20°C. The following apparatus was used: an MLE-1 bridge at audio frequencies, Q-meters KB-1 (KV-1) and JK-1 (UK-1) at radio frequencies, a waveguide line 33-1/(33-1) and an instrument 36-1/(36-1) at the highest frequencies. The temperature coefficient of permittivity was measured with apparatus TKE-11/(TKYe-11/). The values of the permittivity (s), the loss-angle tangent (tan 6) and the temperature coefficient of permittivity (TKs) of the nine samples are listed in Table 1 on p.72; all these quantities were obtained at 5 Mc/s and 20°C.

Fig.1 gives the concentration dependences of the permittivity and tan 6 of the ZnO-TiO2 system. The permittivity fell linearly with increase of the ZnO content between 10 and 66.7 mol.% ZnO; beginning from 66.7 mol.% ZnO, the permittivity rose sharply.

This rise was due to elastic electronic and ionic polarizations as well as due to superimposed relaxation polarization. The loss-Card 2/4

S/139/60/000/006/010/032 E201/E491

Dielectric Properties and Structure of Polycrystalline Samples of the ${\rm Zn0-Ti0}_2$ System

angle tangent rose linearly with increase of the ZnO content and the rise became much more rapid at ZnO Concentrations greater Analysis of the Debye X-ray diffraction than 66.7 mol.%. patterns showed that in the ZnO-TiO2 system only one compound (zinc orthotitanate, 2ZnO·TiO2) was formed; this compound had spinel structure. Measurements of the frequency dependence of ϵ and tan δ (Fig.2 to 4) showed that ϵ was practically constant within a wide range of frequencies (a small reduction of s at low frequencies may have been due to relaxation The loss-angle tangent processes with long relaxation times). fell with increase of frequency and was low and frequency-independent at 10^5 to 10^7 c/s. The value of tan δ did not rise The temperature dependence of ϵ and in the centimetre region. tan & (Fig.5 to 7) indicated that the temperature coefficient of the permittivity of ZnO-TiO2 samples can be controlled by a suitable selection of composition. It was concluded that some of the ZnO-TiO2 materials may be used in temperature-compensating Card 3/4

S/139/60/000/006/010/032 E201/E491

Dielectric Properties and Structure of Polycrystalline Samples of the ZnO-TiO2 System

and stabilizing capacitors. There are 7 figures, 1 table and 18 references: 16 Soviet and 2 non-Soviet.

ASSOCIATION: Saratovskiy pedinstitut

(Saratov Pedagogical Institute)

SUBMITTED: December 31, 1959

X

Card 4/4

S/057/60/030/009/015/021 B019/B054

9,2110 (1145, 1153, 1331)

AUTHOR:

Kuznetsov, A. A.

TITLE:

The Character of the Frequency and Temperature Dependence V of & and tan & of Polycrystalline Samples in the System

r Zno-Tio2 A

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 9,

pp. 1087-1094

TEXT: The author studied the dependence of & and tan & on samples of the system ZnO-TiO₂ (Ref. 12), and in the present paper describes the temperature dependence of these two parameters. The samples were composed as follows: 1ZnO-1TiO₂, 5.3ZnO-4.7TiO₂, 3ZnO-2TiO₂, 2ZnO-1TiO₂, and 7ZnO-3TiO₂. The mixtures of the two oxides were pressed into disks, and then annealed at 1250 - 1350°C. Table 1 indicates &, tan &, and the temperature coefficient of the dielectric constants of the five compositions investigated, at a frequency of 5.10° cycles and a

Card 1/3

The Character of the Frequency and Temperature Dependence of £ and tand of Polycrystalline Samples in the System ZnO-TiO₂ 8山山9 S/057/60/030/009/015/021 B019/B054

temperature of 20°C. The diagrams of Figs. 1-4 show the dielectric constants and the tangents of the loss angles as functions of the frequencies. In this connection, it is particularly pointed out that 3ZnO-2TiO2 and 2ZnO-TiO2 show the same dependence. In the diagrams of Figs. 5-8, these parameters are represented as temperature functions. Table 2 indicates the volume resistivity of the samples. As can be seen, the composition 3ZnO-2TiO2 has the highest value, its structure belonging to the spinel type. The author concludes from these results that the augmented dielectric constant is not only conditioned by elastic electronand ion polarizations but also by superposed relaxation polarizations. The spinel structure makes an increase in the dielectric constant possible. It appeared to be possible to regulate the temperature coefficient of the dielectric constant by varying the concentration. The author supposes that the dielectric losses are caused by the motion of weakly bound ions. An estimation of the activation energy of the ions which participate in the conductance and in the relaxation processes

Card 2/3

وبلبلبا8

The Character of the Frequency and Temperature Dependence of ε and tan δ of Polycrystalline Samples in the System ZnO-TiO₂

S/057/60/030/009/015/021 B019/B054

yielded a value of about 0.1 ev. An electrochemical aging was not found in investigations in the range between 150 and 200°C, which fact convinced the author that the n-type conductivity was small in the camples investigated. N. A. Bogoroditskiy and I. D. Fridberg (Ref. 1), G. I. Skanavi and G. A. Lipayeva (Ref. 2), Professor N. P. Bogoroditskiy, Yu. M. Volokobinskiy et al. (Ref. 15), I. Ye. Balygin and K. S. Porovskiy (Ref. 16) are mentioned. There are 8 figures, 2 tables, and 18 references: 16 Soviet, 1 Japanese, and 1 US.

ASSOCIATION: Saratovskiy pedagogicheskiy institut (Saratov Pedagogical Institute)

SUBMITTED: March 28, 1960

Card 3/3

5/196/62/000/018/009/017 E194/E155

AUTHOR:

Kuznetsov, A.A.

TITLE:

Calculation of the permittivity of ceramic radio

dielectrics of the system ZnO-TiO2

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.18, 1962, 9, abstract 18 B 45. (In the collection: "Materialy XXII Nauchn. konferentsii. Saratovsk. gos. ped. in-t. Fak. yestestvozn., fiz., matem., 1961" ('Materials of the 22nd Scientific Conference, Saratov State Pedagogical Institute. Division of Natural Sciences, Physics, Mathematics, 1961';

Saratov, 1961, 125-131).

Ceramic specimens prepared by sintering mixtures of TEXT: oxides are a two-phase system consisting partly of zinc orthotitanate 2ZnO. TiO2, which has a structure of the type of spinel, and partly of rutile or zincite depending upon which of the oxides was present in excess. If the mixture composition corresponds to the simple formula 2ZnO. TiO2 then a single-phase system is formed consisting of Zn2 . TiO4. A series of specimens was prepared in Card 1/2

Calculation of the permittivity ... 5/196/62/000/018/009/017 E194/E155

the system ZnO-TiO2 (the ZnO content ranged from 10 to 70% mole) and & of the specimen was calculated by the formula of Likhtenekker and V.I. Odelevskiy on the basis of & components, which were taken as follows: for ZnO 12, for TiO2 112, and for Zn2TiO4 19. The measured and experimental values of & were compared at a frequency of 5 Mc/s and a temperature of 20 °C; for specimens containing up to 50% mole ZnO agreement is good. In the range of 50 - 70% mole ZnO the graph relating the measured ε to the composition displays a clearly expressed minimum. For a specimen of 70% mole ZnO the calculated value of ϵ is low by a factor of 1.5. 7 references.

Abstractor's note: Complete translation.

Card 2/2

USSR/Radio - Education
Visual Aids

"An Educational Film 'The Diode,'" A. A.
Kusnetsov, Engr

"Radio" No 7, p 64

Recombands use of a silent film on the diode, intended for intermediate schools, in radio smateur clubs. technical schools, etc. Main defect of the film is that different types of diodes produced by Soviet industry were not shown. Similar films are needed for other radio equipment.

195764

KUZNETSOV, A.

USER/Radio - Television Receivers

Oct 51

"Replacement of the Decoupling Bars in the KVN-49 Television Receiver," A. Kuznetsov

"Radio" No 10, pp 44, 45

Suggests improved design of decoupling device for KVN-49 television receiver, which simplifies replacement of burned-out capacitors used for decoupling. In this method, the chassis does not have to be removed from the cabinet.

208157

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928110011-8

MEYEROVICH, E. A.; KUZNETSCV, A. A.

Dynamos

Electrostatic generator with belt conveyer. Elektrichestvo no. 1, 1952. Doktor Tekhn. Nauk, Frof. Energeticheskiy Institut im. Krzhizhanovskogo AN SSSR.

SO: Monthly List of Russian Accessions, Library of Congress, Arril

195**3, U**ncl.

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928110011-8"

235T59

KUZNETSOV, A.

USSR/Electronics - Radar Educational Films

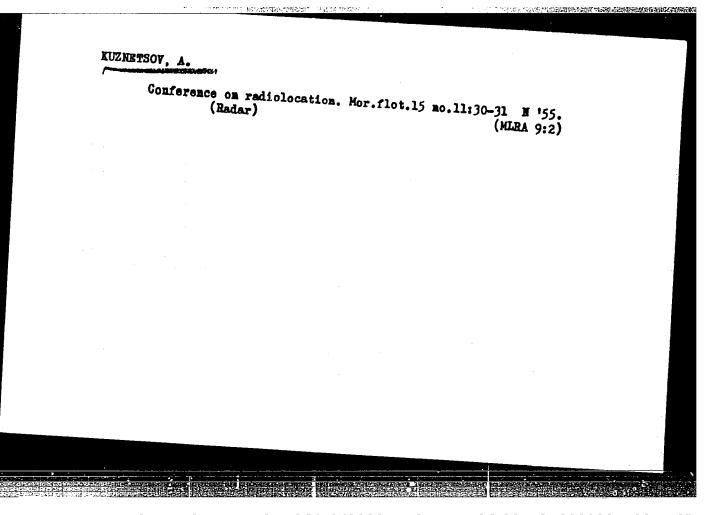
Oct 52

"A Film on Radar," A. Kuznetsov

"Radio" No 10, p 59

The motion-picture industry has put out a number of short educational films on elec and radio engineering subjects. This film on radar, produced by the Sverdlovsk Studio of Popular Sci Films, demonstrates the operating principles of radar. Film illustrates the role played by radar in World War II and its role today in sea and air navigation.

235759



KUZNETSOV, A.A.; KAZANTSEV, V.A.

Work on the optional subject "Directing a radio club in a school." Politekh.obuch. no.2:55-59 F 59. (MIRA 12:3)

1. Pedagogicheskiy institut, g. Saratov. (Radio clubs)

APRAKSIN, L.; KUZNETSOV, A.; YUDOVICH, Yu., prepodavatel' fiziki (Moskva)

A radio engineering institute helps the school. Radio no.12:10 D
(60. (MIRA 14:1)

1. Institut radiotekhniki i elektroniki AN SSSR.
(Radio—Education and training)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928110011-8"

KUZNETSOV, A., starshina 1 stat'i

Struggle in silence. Starsh.-serezh. no.12:13 D '61.

(MTRA 15:3)

1. Komandir otdeleniya gidroakustikov, Tikhookeanskiy flot.
(Sonar)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928110011-8

TOIVLIN, 11/ya Fetrovich. Prinimal uchastiye Khalarsay, A.A.;
VOLKOVA, J.M., red.

[Electronic distance measuring system with two integrators]
Slektromyi dal'incmer s dvumis integratorani. Mockva, 1 mivo "Sovetskoe radio," 1964. 183 p. (MHA 18;1)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928110011-8

ACC NRI ARGO15870	SOURCE COD	E: UR/0275/65/000/012/B001/	B008
AUTHOR: Kamilov, I.	K.; Kuznetsov, A. A.; Vallyer	7, A. A.	
TITLE: On the investig	ation of thermoelectric properti	es of ferromagnetic semiconduc	tors
SOURCE: Ref. zh. Elel	ktronika i yeye primeneniye, Ab	s. 12B59	
REF SOURCE: Sb. aspi Makhachkala, 1964, 135	rantsk. rabot. Dagestansk. un- -146	t. Yestestv. i fizmatem. n.	
TOPIC TAGS: ferromage material, thermal EMF	metic material, nickel base allo , resistivity, + hermoelectr	oy, zinc base alloy, semiconductic property	ting
ferromagnetic semicond	measurements of thermal emf uctors of the Ni _(x) ZnO _(y) Fe ₂ O ₃ is made of specimens the comp	(50) type of various composition	, are
following values of x and ferrite to a nickel ferrit	i y' (in mole %): $x = 0-60$, $y = 6$ c, the values of α increase lines	50 -7.5 . In the transition from a rly by a factor of ~ 2 (the meas	zinc urement —
temperature is 300K). except pure nickel ferri	In the region of 300—600 K, the tes, is negative. The dependen ase when individual ferrites rea	Kelvin temperature α for all fe α (T) for the majority of the	rrites, speci-
Card 1/2	បា	OC: 539,293:537,32	
A STATE OF THE STA			

ACC NR: AR6015870

tion a sharp change in the fluctuation of (T) is observed, which is related to the increasing participation of conductivity electrons in the transitory processes, and also in the change in distances between atoms. The activation energy determined according to ρ (T) increases as ρ increases and is equal to 0.21—0.3 ev for different ferrites. The mobility of the electrons $u = 1/ne \rho$, where the electron concentration n is estimated from α , is equal to $10^{-4}-10^{-3}$ cm²/v·sec. The effective mass of carriers is estimated to be equal to 2—7. The methodology of the measurements is described. [Translation of abstract] V. K.

SUB CODE: 09,20

Card 2/2

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928110011-8

L 44784-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/T-2/EWP(k) LJP(c) EM SOURCE CODE: UR/0147/66/000/003/0076/0084

AUTHOR: Kuznetsov, A. A.

ORG: none

TITLE: Dependence between weight, drag and cost of a one-time aircraft

SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 3, 1966, 76-84

TOPIC TAGS: aerodynamics, aerodynamic drag, cost estimate, aircraft performance

ABSTRACT: An economic criterion for evaluating the optimum construction design of an aircraft is considered according to which the cost and performance of the aircraft are compared. Two problems concerned with the relationship between weight, drag, and cost of a one-time, single-stage aircraft with a given tactical load (useful + equipment weights) and an invariable predetermined flight program are solved. The first consists in determining the variation of the weight and cost of every separate system of the glider, engine, fuel, and the whole aircraft with changes in the tactical weight, without taking into account the cost of tactical load. The second consists in determining the variation of weight and cost with changes in the aerodynamic drag. Formulas are derived for two coefficients C and CA called "the equivalent cost of weight" and "the equivalent cost of drag," respectively, which may be used for optimization of flight parameters in the process of designing an aircraft. has: 58 formulas. Orig. art. SUB CODE: 01/ SUBM DATE: 27Nov65/ ORIG REF: 004/ OTH REF: 001/ ATD PRESS: [AB] Card 1/1 UDC: 533.6.013.12

L 16901-66 ARC/EWT(d)/FBD/EWT(1)/FBO/EWP(m)/EWP(c)/EWA(d)/EPP(h)/FBA/ETC(m)-6/

ACC NR: AT6003576 EWA(1)

SOURCE CODE: UR/0000/65/000/000/0257/0282

AUTHOR: Kuznetsov, A. A.

ORG: None

TITLE: Determination of initial conditions in the launching of a flying craft from a moving platform

SOURCE: Issledovaniya po dinamike poleta (Research on flight dynamics), no. 1. Moscow, Izd-vo Mashinostroyeniye, 1965, 257-282

TOPIC TAGS: missile launching, mobile missile site, missile trajectory, trajectory determination

ABSTRACT: The author notes that the flight of a craft (for example, a rocket or missile) begins at the moment its final support section leaves the guide rails of the launching ramp. Normally, it is from this instant on that there is a solution of the differential equations for the motion of the center of gravity and of the differential equations for the motion about the center of gravity in the determination of the trajectory parameters of the apparatus. The solution of the equations requires a knowledge of the initial conditions; that is, the conditions under which the apparatus leaves the guide rails of the ramp. The complexity of the

Card 1/2

UDC 629.198.24.005

L 16901-66

ACC NR: AT6003576

determination of these initial conditions when the launch takes place from a moving platform (as in the case of a launch from a vessel at sea) derives from the fact that the vessel is subject to roll and has its own speed of movement, so that the guide rails will be arbitrarily oriented with respect to the basic planes of the vessel. In addition, the apparatus may be affected by wind of arbitrary direction. The present author makes use of a wide range of constant and variable values to determine the initial conditions of interest in such cases. It is assumed that the speed of the vessel as well as wind direction and velocity remain constant while the craft travels along the launch ramp guide rails. The relative speed of emergence (the speed of the center of gravity of the craft with respect to the rails at the moment the craft leaves the rails), the absolute (course) speed of the craft at the same instant, the air speed, the angular velocities of the craft when leaving the guide rails due to the roll of the platform-bearing vessel, and several critical angular values which have a decisive influence on initial trajectory conditions are determined. Orig. art. has: 8 tables, 9 figures, and 109 formulas.

SUB CODE: 16/SUBM DATE: 02Aug65 / ORIG REF: 003 / OTH REF: 001

Card

2/25M

TO EPOPULATION PROTECTION OF THE STATE OF TH

ACC NR. AP7002677

SOURCE CODE: UR/0109/67/012/001/0150/0153

AUTHOR:

Kuznetsov, A.A.; Mash, D.I.; Skuratova, N.V.

ORG: none

TITLE: Effect of an axial magnetic field on the output power of a neon-helium laser simultaneously generating the 3.39 and 0.6328 µ lines

SOURCE: Radiotekhnika i elektronika, v. 12, no. 1, 1967, 150-153

TOPIC TAGS: Ras laser, laser energy, neon, helium, lose pumping, axial magnitic full
ABSTRACT:

The effects of an axial d-c magnetic field on the power output of helium-neon lasers operating at $\lambda = 5328$ and 33,900 Å were examined. The laser used a 160-cm-long quartz tube (inside diameter, 8 mm) filled with a helium-neon mixture and terminating in quartz windows placed at the Brewster angle with respect to the tube axis. Excitation was established with a high-frequency generator. The longitudinal d-c magnetic field was generated by four 23-cm-long coils (18,900 turns in each coil) spaced regularly along the laser tube. Output power of the $\lambda = 6328$ Å radiation was determined by measuring the current generated in an FSK-l photocell, and the power of the $\lambda = 33,900$ Å

Card 1/2

UDC: 621.373.029.67.001.5

ACC NR: AP7002677

radiation was established with a PbS detector. The dependence of the output power on the pressure of the λ = 6328 Å radiation was found, and for each value of pressure the optimal pumping power was determined. The above procedure was repeated in the presence of a magnetic field; the pumping power and the coil current, for all pressures, were chosen to give maximum radiated power for λ = 6328 Å. The maximum radiated power for λ = 6328 Å increased by a factor of 1.5 after the magnetic field was applied. The optimal pressure (for peak output power) in the presence of the magnetic field was somewhat greater than the pressure with no magnetic field, and the working pressure range is somewhat greater in the presence of the magnetic field. Changes in output power caused by variations in the magnetic field were studied for both wavelengths, and at optimal pressures for the λ = 6328 Å radiation. The output power for λ = 6328 Å increases and then decreases, whereas that for λ = 33,900 Å decreases as the magnetic field increases until oscillation [IV]

SUB CODE: 20/ SUBM DATE: 06May66/ OTH REF: 003/ ATD PRESS: 5114

Card 2/2

S/057/60/030/05/14/014 B012/B056

AUTHOR:

Kuznetsov, A. A.

TITLE:

Mechanical Stresses in an Immobile and in a Rotating Cylinder Loaded With a Homogeneous Electric Current

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 5,

pp. 589 - 591

TEXT: For the purpose of determining mechanical stresses in electric lines, differential equations of the elasticity theory may be used. These equations contain the electromagnetic force of volume. The electromagnetic force in the line may easily be represented by such a form of equation. It is pointed out that this advantage has hitherto not been utilized by anybody (Refs. 1 - 3), and that therefore also the elasticity theory could not be applied. Here, the mechanical stresses in an immobile and in a rotating cylinder loaded with a homogeneous current are investigated by means of the equations of the elasticity theory in consideration of the electromagnetic force of volume. The solution of the problem is given. There are 4 references: 2 Soviet and 2 English.

Card 1/2

Mechanical Stresses in an Immobile and in a Rotating Cylinder Loaded With a Homogeneous Electric Current

S/057/60/030/05/14/014 B012/B056

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR Moskva (Physics Institute imeni P. N. Lebedev of the AS USSR,

MOBGOW)

SUBMITTED: August 29, 1959

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928110011-8"

KUZNETSOV, A.A.

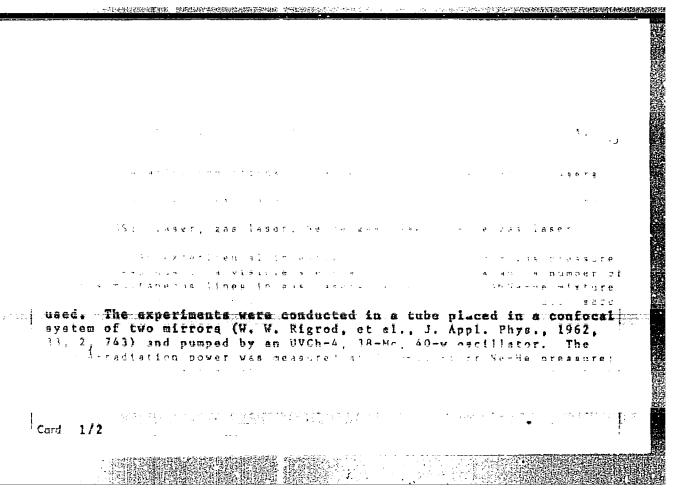
Mechanical stresses caused by a radial electromagnetic force in a multilayer coil with a homogeneous current load and rectangular winding. Zhur. tekh. fiz. 30 no.5:592-597 My 160. (MIRA 13:8)

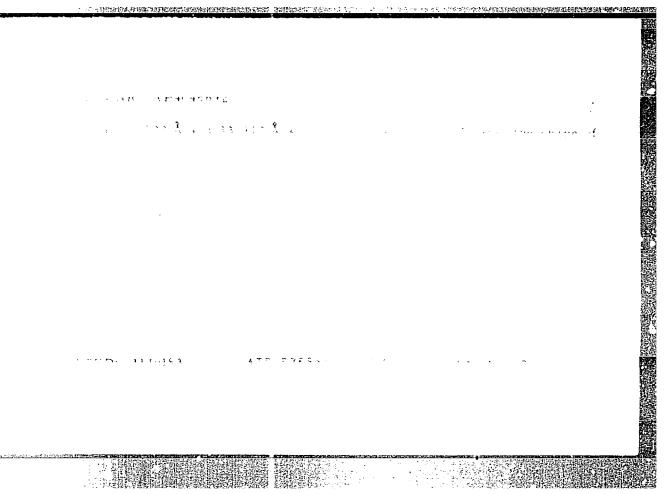
1. Fizicheskiy institut im. P.N. Lebedeva AN SSSR, Moskva. (Strain and stresses)

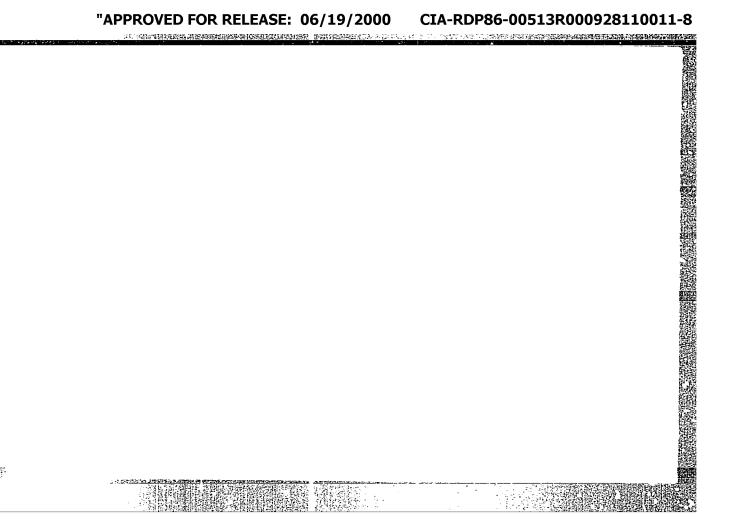
KUZNETSOV, A.A.

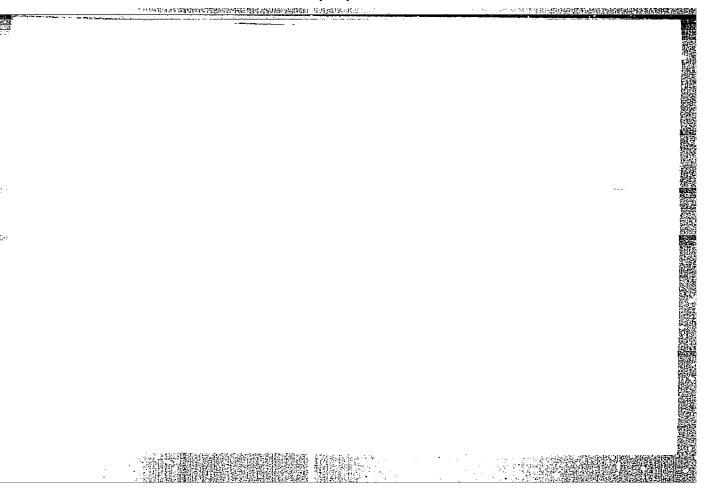
Mechanical stresses in the loops of the central protion of a single-layer plane-spiral coil caused by radial electromagnetic force. Zhur.tekh.fiz. 31 no.8:944-947 Ag '61. (MIRA 14:8)

1. Fizicheskiy institut imeni P.N.Lebedeva AN SSSR, Moskva. (Strains and stresses) (Electric coil.









VAN GAN-CHAN [Wang Kang-ch'ang]; VAN TSU-TSZEN [Wang TS'u-TSeng];
DIN DA-TSAO [Ting Ta-ts'ao]; IVANOV, V.G.; KLADNITSKAYA, Ye.N.;
KUZNETSOV, A.A.; NGUYEN DIN-TY; NIKITIN, A.V.; OTVINOVSKIY, S.Z.;
SOLOV'YEV, M.I.

Creation of antiprotons in the interaction of π^- -mesons with nucleons. Zhur.eksp.i teor.fiz 38 no.3:1010-1011 (MIRA 13:7)

1. O'byedinennyy institut yadernykh issledovaniy.
(Protons) (Mesons) (Nucleons)

83755

\$/056/60/038/004/048/048 B006/B056

24.6900 AUTHORS:

Van Gan-chan, Van Tsu-tszen, Veksler, V. I., Viryasov, N.M., Vrana, I., Din Da-tsao, Kim Khi In, Kladnitskava, Ye. N., Kuznetsov, A. A., Mikhui, A., Nguyen Din Ty, Nikitin, A. V., Solov'yev, M. I.

TITLE:

Production of a $\frac{\overline{\Sigma}^--Hyperon}{Bev/c}$ by Negative $\pi^--Mescns$ With a Momentum of 8.3 $\frac{\overline{E}^--Hyperon}{Bev/c}$

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,

Vol. 38, No. 4, pp. 1356 - 1359

TEXT: In the present "Letter to the Editor", the authors give a detailed report on the case of a $\overline{\Sigma}^-$ -production and decay discovered by them for the first time among 40,000 bubble-chamber photographs. The chamber happened to be in a 13,700-oe magnetic field. The photograph concerned is represented as well as the track scheme. The tracks are numbered, and the individual stars are denoted as "point A, B, O, .. ". The exact data of the tracks and stars, respectively, are given in tables (Table 1: "Kinematics at point A"; Table 2: "Kinematics at point B"; Table 3:

Card 1/2

Production of a Σ -Hyperon by Negative π -Mesons With a Momentum of 8.3 Bev/c

83755 \$/056/60/038/004/048/048 B006/B056

"Kinematics at point 0"; and Table 4: "Kinematics at points 0' and 0""). The individual tracks are identified, and the charges and momenta (measured and calculated) of the particles, the kinetic and mass energies, and the total energy are given. For the stars B and O also the energy balance is given. For B, the following is considered to be the most probable reaction: $\bar{n} + C \rightarrow He^{4} + 4p + 3n + \pi^{+} + \pi^{-} + n\pi^{0}$. For the primary star (Tables 3 and 4) the following reaction is assumed: $\bar{n} + C \rightarrow \bar{\Sigma}^{-} + \bar{K}^{0} + \bar{K}^{0} + \bar{K}^{-} + p + \pi^{+} + \pi^{-} + recoil nucleus. The lifetime$

of the $\overline{\Sigma}$ -hyperon was calculated to be $(1.18\pm0.07).10^{-10}$ sec. <u>G.A. Blinov</u> and <u>S. Z. Otvinovskiy</u> are mentioned. There are 2 figures, 4 tables, and 4 references: 3 Soviet and 1 US.

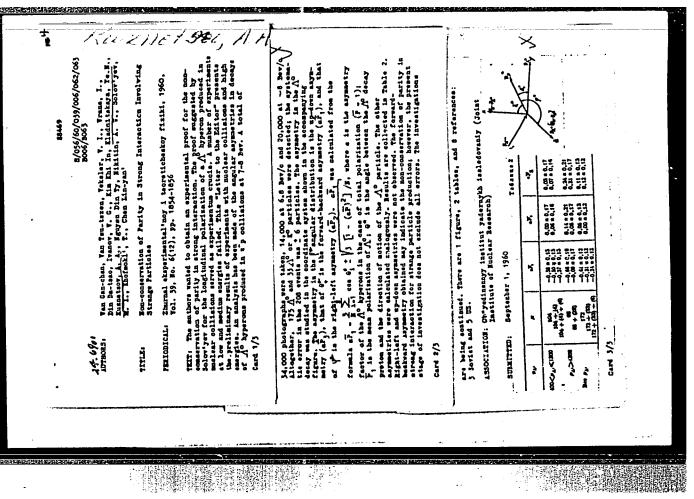
ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: March 24, 1960

Card 2/2

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928110011-8



TO THE OWNERS OF THE PROPERTY OF THE PROPERTY

VEKSLER, V.I.; VRANA, I.; KLADNITSKAYA, Ye.N.; KUZNETSOV, A.A.; MIHUL, A.K.; MIHUL, Ye.K.; NGUYEN DINH TU; PENEV, V.N.; SOLOV YEV, M.I.; HOP MOKI, T.; CHEN-LING-YEN.

On strange particle production in 7 / interaction. Dubna, Izdatel'skii otdel Ob*edinennogo in-ta iadernykh issledovanii, 1961. 9 p.

(No subject heading)

C/026/61/017/005/001/006 F050/F004

AUTHOR:

Wang, Kang-ch'ang (3769/3227/2490); Wang, Chu-hsiang (3769/4376/5046); Viryasov, N. M.; Ting, Ta-chao (0002/1129/6856); Kim, Hi-in (6855/5593/0088); Kladnitskaya, Ye. N., Kuznetsov, A. A.; Mikhul, A.; Nguyen, Din-ti (7086/0002/6337); Nikitin, A. V.; and Solov'yev, M. I.

TITLE:

Production of E hyperons by the use of T mesons with a momentum of 7000 Mev/c and 8000 Mev/c

PERIODICAL:

Wu Li Hstieh Pao, v. 17, no. 5, 1961, 205-213

TEXT: The productive cross section $\delta(\delta = 3.6 + \frac{2.5}{2.1}\mu\delta/N$ at 6800 MeV/c, $\delta = 10.6 + \frac{4.4}{3.2}\mu\delta/N$ at 8000 MeV/c), mass $M_{\Xi^-}(M_{\Xi^-} = 1317.0 + 2.2$ MeV), and lifetime $\tau_0(\tau_0 = 3.5 + \frac{3.4}{1.2} \times 10^{-10} \text{sec})$ of Ξ hyperson were determined by the use of π mesons having momentums of 6800 MeV/c and 8000 MeV/c. In early investigations Ξ hyperons

Card 1/4

C/026/61/017/005/001/006 F050/F004

Production of E hyperons by ...

were found by experiments with cosmic rays. A butane bubble chamber 24 liters in volume in a permanent magnetic field of 13700 gauss was used. The chamber was irradiated by a bundle of mesons with momentums of 7.00 Mev/c and 8000 Mev/c. The result was 27,000 and 75,000 negatives obtained recording momentums of 6800 $^+$ 600 Mev/c and 8000 Mev/c of π mesons. A three-dimensions amplifier and projector were used to trace the negatives twice and some negatives were traced three times. In the tracing process those events which could be classified with Ξ hyperon decay scheme $A \rightarrow V^0 + B$, $V^0 \rightarrow C + D$, by appearance were selected. The following standards were applied in the determination of Ξ hyperons: (1) V^0 must coincide with kinematics of the decay scheme $\Lambda^0 \rightarrow p + \pi^-$, (2) The refraction point must be within the Λ^0 decay plane. The vertical momentum of π meson and proton p, which came from Λ^0 decay particles to the projecting direction of Λ^0 , must be in equilibrium. (3) The Λ^0 decay particles should lie on the plane formed by particles A and B. (4) At the refraction point, the vertical momentum of particles Λ^0 and B particle must be in equilibrium. (5) The events must satisfy kinematics of Ξ hyperon decay scheme

Ξ → Λ° + π + 65 bev

Card 2/4

Production of Z hyperons by ...

C/026/61/017/005/001/006 F050/F004

Among all the events there were II events which satisfied all 5 standards. Three events coincided well with the kinematics of Ξ decay and have been classified with Ξ hyperon. Of all Ξ hyperons, one was obtained by the bundle of π mesons with 6800 Mev/c and then were obtained by the bundle of π mesons with 8000 Mev/c. The results of this experiment are listed in four tables: (1) Table 1 lists data of defined Ξ . All these data were average values which were obtained by using a microscope to measure two — four times independently. It also lists the decay energy Ω and lifetime of all Ξ hyperons found in their own coordinate system. (2) Table 2 lists all data concerning the primary stars. These stars have been analyzed as the source of Ξ hyperons. (3) Table 3 lists the momentum p^{\pm} in a π N mass center system, vertical momentum p^{\pm} , and projecting angle θ^* of Ξ hyperons (suppose Ξ hyperons were produced by the impact of π mesons to free nuclei). The average vertical momentum (p^{\pm}_{Ξ}) of Ξ hyperon is equal to 318 \pm 35 Bev. This value is approximate to the vertical momentum of proton and π hyperon. This table also lists the characteristics of the following angles: (a) θ_{π} is the projecting angle of π which is projected out from Ξ hyperon decay process under its equilibrium

Card 3/4

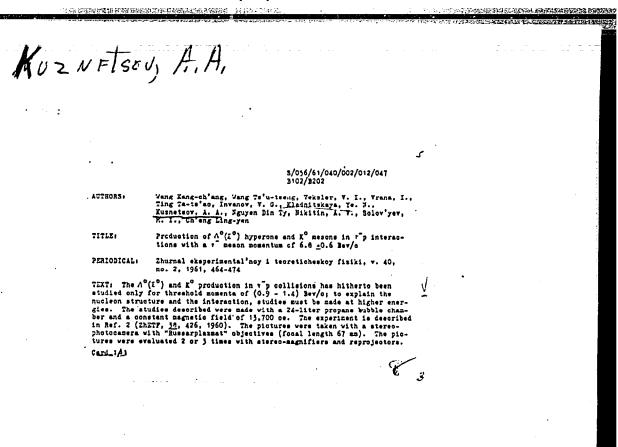
Production of E hyperons by ...

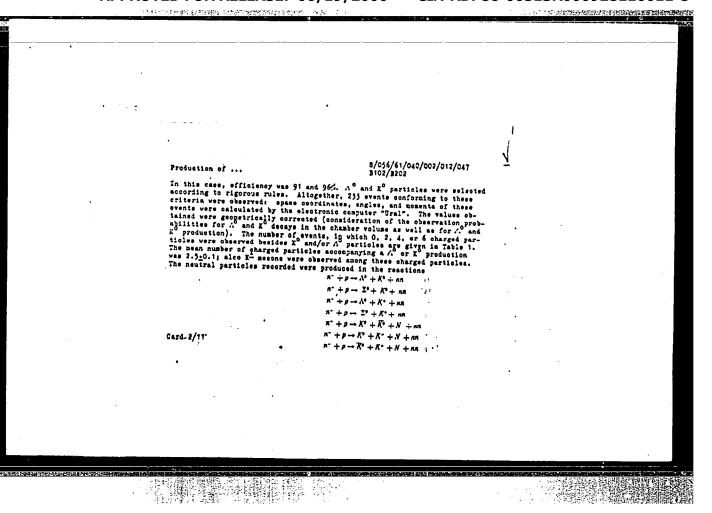
C/026/61/017/005/001/006 F050/F004

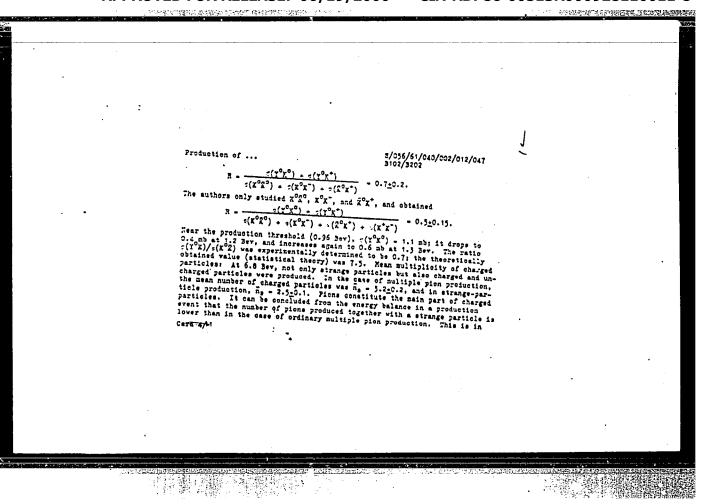
system. (b) $\phi_{\mathbf{p}}^{*}$ is the projecting angle of p which was projected out from the decay process in its equilibrium system. (c) $\omega_{\Xi} \wedge^{\circ}$ is the intersection angle between Ξ and \wedge^0 decay planes. In the distribution of \mathcal{C}_{Λ}^* and $\omega_{\Xi^- \Lambda^0}$, no asymmetry was observed. (4) Table 4 lists the events which seems to be Ξ^- . Among these events, four were in the same plane and fourteen were in different planes. Most of these events in the same plane were induced by $\pi^{+\pi}$ mesons; the others in different plane events may have been! induced by Tt, Tor Ki mesons. Thanks are extended to V. I. (Wei Ke Shih (Chi Lo Wei Yeh Fu), N. I. Lai Erh), I. V. (Chi Wei Lo), L. P. (Pa Pu La Fe), K. V. (Chi Ho Lo Fu), and L. N. (Chil Lao Yeh Fu). There are 3 figures and 4 tables. The English-language references read as follows: C. Franzinetti and G. Morpurgo. Suppl. Nuovo Cim. 6 (1957), 565; W. B. Fowler et al. Nuovo Cim. 11 (1959), 428.

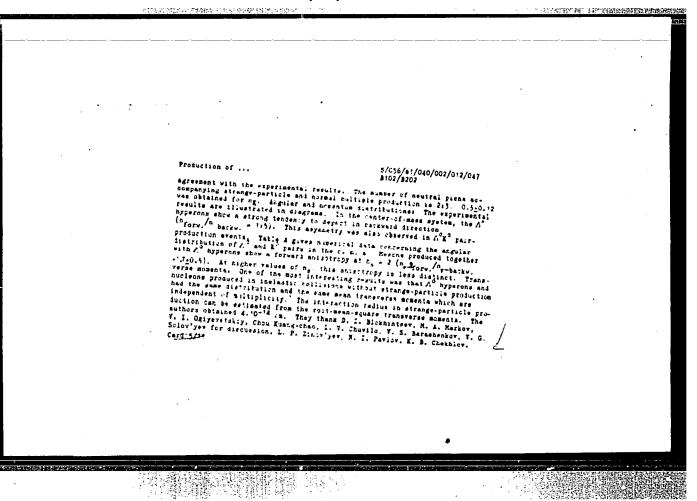
SUBMITTED: March 20, 1961

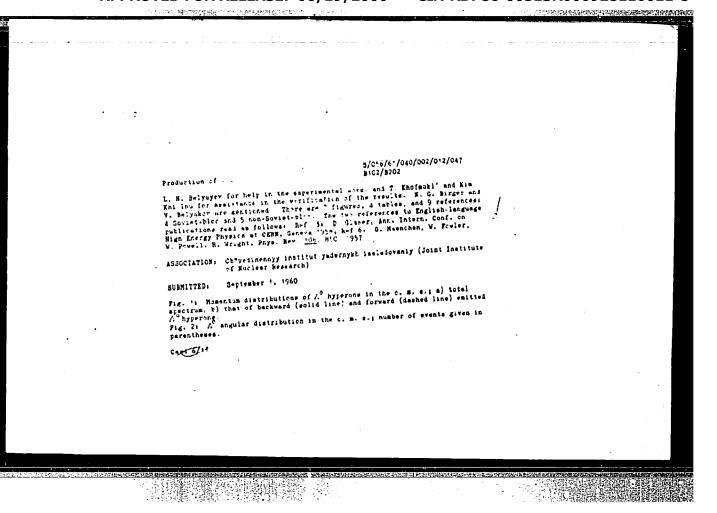
Card 4/4











23719

AUTHOR: Kuznetsov, A. S/057/61/031/006/003/019 B109/B207

TITLE:

Force-free magnetic field coils of infinite length

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 6, 1961, 650-656

TEXT: The author presents a method of computing the mechanical stresses in coils of infinite length, possessing axial and circular magnetic fields. 1) Mechanical stresses in a coil: If a and b denote the outer and the inner radius of the coil, j_{1r} and j_{2r} the (variable) circular and

(constant) axial current density, μ the transverse Poisson ratio, the following relations are obtained for radial mechanical stress:

$$\sigma_r = \frac{\pi}{1-\mu} \left\{ j_{1a}^2 a^2 \left(\frac{1}{a^2 - b^2} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{b^2}{r^2} \right) - (1 - 2\mu) b^2 \ln \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}{r^2} \right) \right] - \frac{a^2}{1-\mu} \left[a^2 \ln^2 \frac{a}{b} \left(1 - \frac{a^2}$$

$$-2 \ln \frac{a}{\sqrt{br}} \ln \frac{r}{b} - (1-2\mu) \ln \frac{a}{r} - \frac{3-2\mu}{4} j_{10}^2 \times$$

$$\times \left(a^{2} - r^{2} - \frac{1}{5} \right)$$

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928110011-8"

(8)

S/057/61/031/006/003/019 Force-free magnetic field coils of infinite... B109/B207

for the peripheral stress:

$$\sigma_{t} = \frac{\pi}{1-\mu} \left\{ j_{1a}^{2} a^{2} \left(\frac{1}{a^{2}-b^{2}} \left[a^{2} \ln^{3} \frac{a}{b} \left(1 + \frac{b^{2}}{r^{2}} \right) - (1-2\mu) \times \right. \right. \\ \left. \times b^{2} \ln \frac{a}{b} \left(1 + \frac{a^{2}}{r^{2}} \right) \right] - 2 \ln \frac{a}{\sqrt{br}} \ln \frac{r}{b} + (1-2\mu) \left(\ln \frac{a}{r} + 1 \right) \right) - \\ \left. - \frac{3-2\mu}{4} j_{2a}^{2} \left(\left[a^{2} + r^{2} - \frac{4a^{2}b^{2} \ln \frac{a}{b}}{(3-2\mu)(a^{2}-b^{2})} \right] \left(1 + \frac{b^{2}}{r^{2}} \right) + \\ \left. + \frac{4}{3-2\mu} \left[b^{2} \left(\ln \frac{r}{b} - 1 + 2\mu \right) - r^{2} \right] \right) \right\},$$

$$(9)$$

and for $(\sigma_t)_b = \sigma_t$ at r = b

$$(\sigma_i)_b = \frac{\pi}{1-\mu} \left\{ j_{1a}^2 a^2 \left(1 - 2\mu + 2 \frac{\left[a^2 \ln \frac{a}{b} - (1 + 2\mu) b^3 \right] \ln \frac{a}{b}}{a^2 - b^2} \right) - \frac{3-2\mu}{2} j_{2a}^2 \left(a^2 - \frac{b^3}{3-2\mu} \left[1 - 2\mu + \frac{4a^2 \ln \frac{a}{b}}{a^2 - b^2} \right] \right) \right\}.$$
 (10)

Card 2/5

Force-free magnetic field coils of infinite... $\frac{23719}{5/057/61/031/006/003/019}$ From (10) it may be seen that $(\sigma_t)_b = 0$ when $\alpha_a = \arctan \frac{j_{1a}}{j_{2c}}$, where α_a

denotes the angle between the current-density vector for $r \rightarrow a$ and the coil axis (Table 1). 2) Force-free magnetic coil: If R_1 is the expanding force, and R_2 the compressing radial volume force, the conditions for the vanishing of all mechanical stresses read R_2 . = R_1 + R_2 = 0 and R_1 =- R_2 = R_3 .

vanishing of all mechanical stresses read R_p . = R_1 + R_2 = 0 and R_1 = $-R_2$ = R_1 .

Since R_1 = $4\pi j_1$ $\int_{r}^{r} j_1$ dr and R_2 = $-4\pi \frac{j_2}{r}$ $\int_{b}^{f} j_2$ rdr this condition is fulfilled if

$$j_{1r} = \frac{R}{2\sqrt{2\pi \int_{r}^{2} Rdr}}, \quad (17)$$

$$j_{2r} = \begin{cases} \frac{rR}{2\sqrt{2\pi \int_{1}^{r} r^{2}Rdr}}, & (A8) \\ \frac{R}{2\sqrt{2\pi \int_{1}^{r} Rdr}}, & (a-b) \ll a, \end{cases}$$

Card 3/5

23719

S/057/61/031/006/003/019 B109/B207

Force-free magnetic field coils of infinite...

 $\alpha_r = \arctan \frac{j_{1r}}{j_{2r}}$ (19)

 $(\alpha_r$ - angle between the resulting current-density vector and the coil

axis).

 $\lim_{\substack{r \to a \\ r \to b}} \frac{R}{a-r} = C_1,$ $\lim_{\substack{r \to b \\ r \to b}} \frac{R}{r-b} = C_2,$ (20)

 $(c_1, c_2$ - arbitrary constants). With a finite expansion of the coil, the forces R_1 and R_2 are not only functions of r but also of z, so that the above conditions are only approximately valid. There are 1 table and 3 references: 1 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR Moskva)

(Institute of Physics imeni P. N. Lebedev, AS USSR, Moscow)

SUBMITTED:

June 27, 1960

Card 4/5

KUZNETSOV, A.A. 22124 s/056/61/040/003/004/031 B102/B202 Wang Kang-chiang, Wang Taiu-taeng, Viryasov, N.M., Ting
Ta-taiao, Kim Khi In, Kladnitakaya, A.V., Golovivav, M.I. Mikhul, A., Nguyen Din Ty, Nikitin, A.V., Soloviyev, M.I. 24.6900 (1134,1191,1559) Production of = hyperons by N mesons with the AUTHORS: Zhurnal eksperimentalinoy i teoreticheskoy fiziki, momenta 7 and 8 Bev/o TEXT: The authors present comprehensive material concerning the produc-TITLE: TEXT: The authors present comprehensive material concerning the production of 2 -hyperons by negative high-energy pions in a 24-1 propane bubble chamber which was in a constant field of 13,700 de. These experiments chamber which was in a constant field of 13,700 ce.

These experiments there already hear described in an applier paper (There is a solution paper). PERIODICAL: chamber which was in a constant field of 13,700 oe. These experiments have slready been described in an earlier paper (ZhETF, 38, 426, 1960). nave already been described in an earlier paper (ZnETF, 58, 426, 1960).

27,000 photographs were evaluated 2 3 times for pions with 6.8+0.6 Bev/c

The authors chose those events which and 75,000 for pions with \$\infty\$ 8Bev/c.

The authors chose to the mode corresponded to a decay of cascade particles according to the mode. and 10,000 for plons with somewice according to the mode corresponded to a decay of cascade particles according to the mode Card 1/11-3

7

22124

S/056/61/040/003/004/031 B102/B202

Production of E hyperons by ...

 $A \rightarrow V^{\circ} + B$, $V^{\circ} \rightarrow C + D$ as well as all singly-pronged stars from the vertex of which a V° particle departed. Altogether, 90 events were chosen; they were measured by means of NMM-21 (UIM-21) microscopes, and the results were evaluated by means of an electronic computer of the type "Ural"; 11 events of a Ξ^{-} -decay ($\Xi^{-} \rightarrow 1^{\circ} + 1^{\circ} + 65$ MeV) were identified according to rigorous criteria. The angular and momentum characteristics of the identified Ξ^{-} hyperons are given in Table 1. The events nos. 171-218 and nos. 19-179 are schematically shown in Figs. 1 and 2, respectively. The Table gives the data concerning the decay energy Q and the lifetime (until the decay) of the Ξ^{-} hyperons. The mean value of Q from the 11 Ξ^{-} decay events was Q = 61.9 + 2.2MeV from which the hyperon mass $M_{\Xi^{-}}$ =1317.0+2.2 MeV was calculated. The mean lifetime was $V_{0} = (3.5^{+3.4}_{-1.2}) \cdot 10^{-10}$ sec. The mean free path of the N^{-} mesons in Ξ^{-} hyperon formation in propane was $N_{0} = (3.68^{+0.29}_{-0.20})$ cm for $N_{0} = (3.84)$ cm for a momentum of 6.8 BeV/c and 1 = $N_{0} = (3.84)$ cm for a momentum of 6.8 BeV/c and 1 = $N_{0} = (3.84)$ cm for $N_{0} = (3.84)$ cm for a momentum of 6.8 BeV/c and 1 = $N_{0} = (3.84)$ cm for $N_{0} = (3.84)$ cm for a momentum of 6.8 BeV/c and 1 = $N_{0} = (3.84)$ cm for $N_{0} = (3.84)$ cm for a momentum of 6.8 BeV/c and 1 = $N_{0} = (3.84)$ cm for $N_{0} = (3.84)$ cm for a momentum of 6.8 BeV/c and 1 = $N_{0} = (3.84)$ cm for $N_{0} = (3.84)$ cm for a momentum of 6.8 BeV/c and 1 = $N_{0} = (3.84)$ cm for $N_{0} = (3.84)$ cm for a momentum of 6.8 BeV/c and 1 = $N_{0} = (3.84)$ cm for $N_{0} = (3.84)$ cm for a momentum of 6.8 BeV/c and 1 = $N_{0} = (3.84)$ cm for $N_{0} = (3.84)$ cm for a momentum of 6.8 BeV/c and 1 = $N_{0} = (3.84)$ cm for $N_{0} = (3$

22124 S/056/61/040/003/004/031 B102/B202

Production of E hyperons by ...

clei is $\sim A^{2/3}$, $\sigma = 3.6 ^{+2.5}_{-2.1} \mu$ b is obtained with 6.8 Bev/c and $\delta = 10.6^{+4.4}_{-3.2} \mu$ b with ~ 8 Bev/c. Table 2 gives data on the primary stars with Ξ hyperon production. Table 3 shows the momentum (p*), transverse momentum (p*), angle of departure (0*) of the various particles as well as the angle between the decay planes (ω). Table 4 presents data on the "background" events (4 complanar and 4 noncomplanar ones) where V particles were identified as Λ particles. Finally, the authors thank V.I. Veksler and I.V. Chuvilo for discussion, L.P. Zinov'yev, N.I. Pavlov, K.V. Chekhlov, L.N. Belyayev and various teams of technicians for their assistance. There are 3 figures, 4 tables, and 7 references: 5 Sovietbloc and 2 non-Soviet-bloc.

ASSOCIATION:

Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED:

September 30, 1960

Card 3/11_3

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{F}° -mesons produced together with strange particles in \mathcal{F}° -p and \mathcal{F}° -c-interactions] Izuchenie svoistv \mathcal{F}° -mezonov, rozhdaiushchikhsia so strannymi chastitsami v \mathcal{F}° -p i \mathcal{F}° -c vzaimodeistviiakh. Dubna, Ob"-edenennyi in-t iadernykh issledovanii, 1962. 10 p.

(MIRA 16:10)

CONTRACTOR OF THE PARTY OF

WAN YUNG-CHANG; VEKSLER, V.I.; DU YUAN-CAI; KLADNITSKAYA, Ye.N.;

KUZNETSOV, A.A.; NGUYEN DINH-TU; SOKOLOVA, Ye.S.; SOLOV YEV,

M.I.; PENEV, V.N.; MIHUL, A.; SMIRNOVA, L.A.[translator]; SARANTSEVA,

V.R., tekhn. red.

A study of Λ K and K K pair production in π P interactions

at the π^- -meson momentum of 7-8 BeV/c. Dubna, Obnedinenre i in-t iadernykh issledovanii, 1962. 15 p.

1. On leave from the Institute of Atomic Physics, Bucharest (for Mihul).
(No subject heading)

制作的公司的数据数据的对话就把到他的联系国际程序的工艺。

VAN YU-CHAN [Wang Yung-ch'ang]; VEKSLER, V.I.; DU YUAN'-TSAY

[Tu Yuan-ts'ai]; KLADNITSKAYA, Ye.N.; KUZNETSOV, A.A.;

MIKHUL, A.; NGUYEN DIN TY; PENEV, V.N.; SOKOLOVA, Ye.S.;

SOLOV'YEV, M.I.; SARANTSEVA, V.R., tekhn. red.

[Generation of \(\int \) K^O and K^O pairs in \(\mathcal{T} \) T P interactions at \(\mathcal{T} \) -meson energies of 7-8 Bev/c.] Izuchenie rozhdeniia \(\int \) K O i K K O -par v \(\mathcal{T} \) T P - vzaimodeistviiakh pri impul'se \(\mathcal{T} \) -mezona 7-8 Bev/s.

Dubna, Obmedinennyi in-t iadernykh issledovanii, 1962. 15 p.
(MIRA 15:6)

1. Institut Atomnoy fiziki, Bukharest (for Mikhul).
(Mesons) (Nuclear reactions)

VEKSLER, V.I.; VIRYASOV, N.M.; VRANA, I.; KIM KH IN; KLADNITSKAYA, Ye.N.; KUZNETSOV, A.A.; NGUYEN DIN TY; SOLOV'YEV, M.I.; KHOFMOKL', T.; CHEN LIN-YAN'; SARANTSEVA, V.R., tekhn. red.

[Polarization of Λ -hyperons produced in \mathcal{I} -p-interactions at an energy of 7-8 Bev]Izuchenie poliarizatsii Λ -giperonov pri rozhdenii v \mathcal{I} -p-vzaimodeistviiakh s energiei 7-8 Bev. Dubna, Obredinennyi in-t iadernykh issl., 1962. 23 p. (MIRA 15:10) (Hyperons-Decay) (Masons-Decay) (Protons)

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°-mesons in the interaction of 7 Gev. \mathcal{J} -mesons with carbon] Rozhdenie $\Lambda(\Sigma^{\circ})$ -giperonov i K°-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)

BEIYAKOV, V.A.; VAN YUN-CHAN [Wang Yung ch'ang]; VEKSLER, V.1.:
VIRYASOV, N.M.; VRANA, I.; DU YUAN'-TSAY [Tu Yuan ts'ai];
KIM KHI IN; KLADRITSKAYA, Ye.N.; KUZNETSOV, A.A.;
MIKHUL, E.; NGUYEN, DIN TY; FATERA, I.; FEREV, V.N.;
SOKOLOVA, Ye.S.; SOLOV'YEV, M.I.; KHOFMOKL', T.;
MIKHUL, A.

[Production of A-hyperons and Ko-mesons in \mathcal{F} p-interactions at an energy of 7-8 Bev] Issledovanie protsessov rozhdeniia A-giperonov i Ko-mezonov v \mathcal{F} p-vzaimodeistviiakh pri energii 7-8 Bev. [n.p. n.d.] 26 p.

(MIRA 16:10)

(Mesons) (Hyperons)

HELIMEN, V.A., WANG YURG-CHAIR, V.I., VIRTAGOV, N.M., VERMA, I.,
DU IRMA-TSAI, KUN HI IN, KUAL-TUSKAYA, Ye. N., MUTHERSOY, A.A., MIREL, A.
NOUTHE BIRD II, I. PRIETA, V. FERV, SOKOLOVA, Ye. S., DOLOVIEV, M.I.,
HOMDAL, T., and TESH LIN-LAN

"The Investigation of A-Hyperon and Ko-Meson Production in \(\alpha \) Cand
Interactions at T-8 Cev"

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

Joint Institute for Nuclear Research
Laboratory of High Energies

•	EXEVAIDA, V.A., MAIG YUNG-CHANG, VEICHER, V.I., VINVASOV, N.H., DU TUAN-TOAT, KIM HI IN, KLADNITSKAYA, Ye. N., KULHETSOV, A.A., MIHUL, A., NOUCH, DIN TI, TENEV, V.N., SOKOLOVA, Ye. S., SOLOVYEV, M. I.	
	"Study of AK and K, K, Pair Production 1177-p and TE Interactions at the 7-8 Guy/C Momentum of 17 Neurons"	
1 m	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	
		•
	· · · · · · · · · · · · · · · · · · ·	1
•		
		·

s/056/62/043/003/013/063

AUTHORS:

Wang Yung-chang, Veksler, V. I., Tu Yüan-is'ai,
Kladnitskaya, Ye. N., Kuznetsov, A. A., Nikhul, A.,
Nguyen Din Ty, Penev, V. N., Sokolova, Ye. S. Solov'yev, M. I.

TITLE:

Investigation of ΛK^O and $K^O \bar K^O$ pair production in $\pi^- p$ interactions with $\pi^- meson$ momentum of 7-8 Bev/c

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 43,

no. 3(9), 1962, 815-82?

TEXT: Pair production events, including 52 $(\Lambda + K^0)$, 37 $(K^0 + \overline{K^0})$, 16 either $(\Lambda + K^{\circ})$ or $(\overline{K^{\circ}} + K^{\circ})$ and two $(\Lambda + K^{\circ} + K^{\circ})$ were observed among 60,000 photographs made with a 24-liter propane bubble chamber. The momentum and angular distributions of the π^+ , Λ and K^0 particles were determined. Also the distribution of

> $Q = 12 (E_{\Lambda(K)}E_K - P_{\Lambda(K)}P_K \cos \vartheta_{\Lambda(K), K}) + m_{\Lambda(K)}^2 + m_K^2 l^{1/2} - m_{\Lambda(K)} - m_K (1)$ (P - momenta)

Card 1/3

CIA-RDP86-00513R000928110011-8" APPROVED FOR RELEASE: 06/19/2000

(T)

Investigation of AKO and...

S/056/62/043/003/013/063 B102/B104

was studied and the results obtained were confronted with the theoretical curves (Monte Carlo method). Results: The mean K° momentum from ΛK° pairs ΛK° pairs flew ΛK° pairs from ΛK° pairs flew backward and those from the ΛK° forward. In (33 ± 7)% they both flew backward. In (12 ± 4)% they both flew forward or the ΛK° forward and the interaction). The ΛK° have a maximum in indicates a contribution of peripheral interaction). The ΛK° pairs a maximum in the ΛK° distribution was observed at ΛK° pairs a maximum in the ΛK° distribution was observed at ΛK° pairs a maximum in the ΛK° distribution was observed at ΛK° pairs a maximum in the ΛK° distribution was observed at ΛK° pairs a maximum in the ΛK° distribution for the angular distribution it can be concluded that in ΛK° pair production besides the S-wave states with higher 1 will exist. The There are 14 figures.

Card 2/3

"APPROVED FOR RELEASE: 06/19/2000

Card 3/3

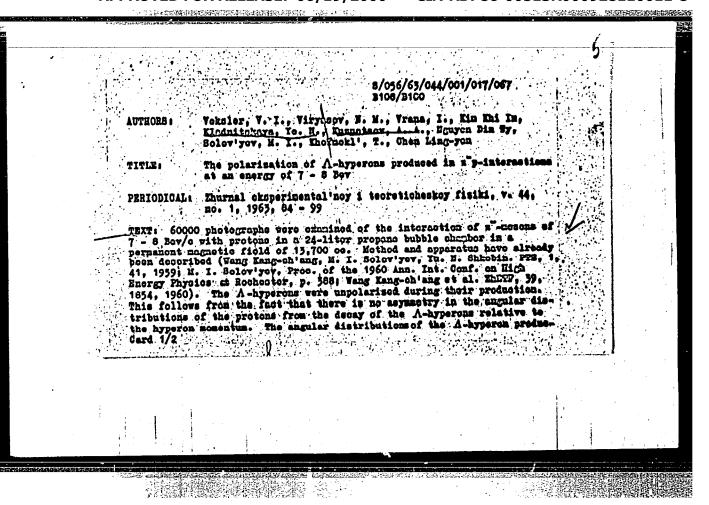
CIA-RDP86-00513R000928110011-8

Investigation of AKO and...

S/056/62/043/003/013/063
B102/B104

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research). Institute of Atomic Physics, Bucharest (A. Mikhul)

SUBMITTED: April 11, 1962



tio	polarisation on planes relation nearly isotron	ve to the production	8/056/65/044/001 B108/B1CO i planes of the K-copo ice with the law of co	RS and bloom	
ASS	figures and 4 to OCIATION: Obey Inst	blos, odinemny institut y itute of Eucleur Res		TOOTS STO	
		51, 1962			
Card	2/2				
: :		i i	in der Anders er av Sterffik Sage		

BELYKOV, V.A.; VAN YUN-CHAN [Wang Yung-ch'ang]; VEKSLER, V.I.; VIRYASOV, N.H.;
DU YUAN'-TSAY [Tu Yuan-ts'ai]; KIM KHI IN; KLADNITSKAYA, Ye.N.;
KUZNETSOV, A.A.; NGUYEN DIN TY; PENEV, V.N.; SOLOV'YEV, M.I.

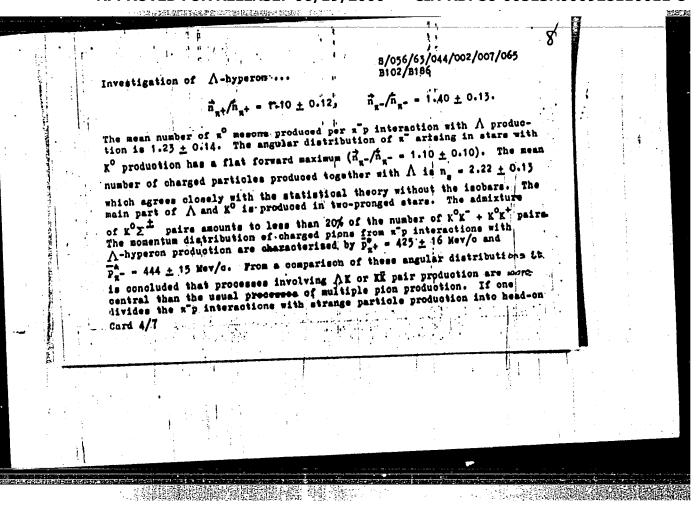
Polarization of \mathcal{T} -hperons produced in \mathcal{T} -c-interactions at 7 Bev. Zhur. eksp. i teor. fiz. 45 no.2:90-92 Ag '63. (MIRA 16:9)

1. Ob#yedinennyy institut yadernykh issledovaniy.
(Nuclear reactions) (Hyperons)

KUZNE	Belyakov, V. A., Wang Yung Ch'ang, Vekeler, V. I., Viryasov, M. M., Vrana, I., Tu Yūan-ts'ai, Kim Khi Ying, Kladnitskaya, Ye. N., Kusnetsov, A. A., Mikhul, E. Nguyen Solov'yev, M. I., Khofmokl', T., Cheng Ling-ven, Wibbar.	33.44 33.44
TITLE	processes in a p interactions at 7.0 per production	1
PEHIODICAL: TEXT: The c.m. A and K ⁰ parti The measurement field of 13,700 produced in the	no. 2, 1963, 451-443 m.s. momentum and angular distributions determined for the ticles produced in mp interactions are given and discussed. The total momentum spectrum of the Albertons are reactions.	
Card 1/7	$\pi^{-} + \rho \rightarrow \Lambda(\Sigma^{0}) + K^{0} + n\pi,$ $\pi^{-} + \rho \rightarrow \Lambda(\Sigma^{0}) + K^{0} + n\pi$ (1)	

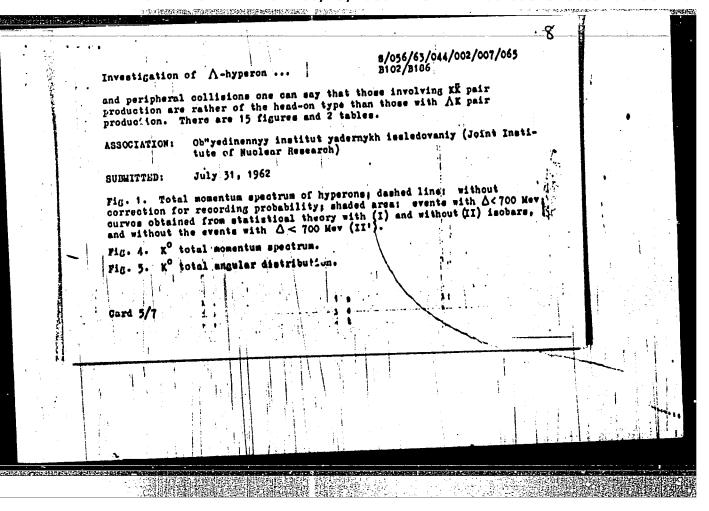
	: •	8/056/63/044/002/007/065	8		•
a de la companya de l		Invostigation of Λ -hyperon B102/B106 are shown in Fig. 1, compared with theoretical results. As it may be seen the statistical theory describes the experimental curve very well if the isobars and, the cases with p_p -p = Δ <700 MeV are neglected. Δ <700 MeV corresponds to \sim 30% of all Λ , these being produced in			
		peripheral interactions. The Λ angular distribution has a distinct backward peak $(\stackrel{\frown}{n} \stackrel{\frown}{n} \stackrel{\frown}{n} = 0.18 \pm 0.02)$. With increasing multiplicity n_g the agreement between experiment and statistical theory improves. The Λ angular distribution and the distribution with respect to p_{\perp} is virtually independent of p_{\parallel} . The overall mean of the transverse momentum			,1
		is 385 \pm 12 MeV/c; for \triangle <700 MeV, \overline{p}_{Λ_1} = 295 \pm 14 MeV/o and for \triangle >700 MeV, \overline{p}_{Λ_1} = 432 \pm 18 MeV/o. For the K ^O (\overline{k}^O) mesons produced in the reactions			•
		Card 2/7	•	Too be a second	
;					

Inve	stigation of A-hyperon	8/056/63/044/002/007/069 8102/8186 $(K^{\circ} + \Lambda (\Sigma^{\circ}) + n\pi, \qquad \{1\} \\ K^{\circ} + K^{\circ} + N + n\pi, \qquad \{3\}$	5 8	IN CASE
ill ado	total momentum spectrum measur	$\begin{array}{c} K^{0} + K^{-} + N + nn, \\ K^{0} + K^{+} + N + nn, \\ K^{0} + \Sigma^{\pm} + nn. \end{array}$ $\begin{array}{c} \{5\} \\ \{6\} \\ \{6\} \\ \{7\} \\ \{7\} \\ \{7\} \\ \{7\} \\ \{8\} \\ \{7\} \\ \{8\} \\ \{7\} \\ \{9\} \\ \{7\} \\ \{9$	rhe	
for	ward-backward ratio decreases sing in A-production events > 400 Mev/c, well described by	with increasing ng. For the charged the momentum distributions are, for the statistical theory without taking the statistical transfer than that are distributions for ng = 2, 4, 6 are distributions for ng = 2, 4, 6 are distributions.	pione .ng	
obi ohi	tained from theory.			
			1 - 1.151	S. Carlotte and Ca



"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928110011-8



L 10238-63

PGS(f)/EFF(m)/EDS_AFFTC/ASD

ACCESSION NR: AP3000037

s/0056/63/044/005/1474/1480

69

AUTHOR: Belyakov, V. A.; Wang Yung-ch'ang; Viryasov, N. M.; Tu Yuan-ts'ai; 6/ 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 carbon interactions.

SOURCE: 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

L 10238-63

ACCESSION NR: AP3000037

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 V. I. Veksler, Professor Chang Weng-yu, M. I. Podgoretskiy, A. M. Baldin, A. V. Nikitin, V. B. Lyubimov and Yen Wu-kuang 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 Nuclear Research)

SUBMITTED: 07Dec62

DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: PH

NR REF SOV: 008

OTHER: 004

Card 2/2

"APPROVED FOR RELEASE: 06/19/2000

LANDARD SANTANDERS SERVICE STREET, STR

CIA-RDP86-00513R000928110011-8

L 15462-63 PCS(f)/EVT(m)/BDS APPTC/ASD

ACCESSION NR: AP3005248

s/0056/63/045/002/0083/0089 6 4

AUTHORS: Belyakov, V. A.; Veksler, V. I.; Viryasov, N. M.; Vrana, I.; Kim Khi In: Kladnitskaya, Ye. H.; Kuznetsov, A. A.; Mikhul, A.; Nguyen Din Ty*; Solov'yev, M. I.; Hofmokl, T.; Ch'eng 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

TOPIC TAGS: hyperon production, antilambda, negative pion decay, cross section

ABSTRACT: The production and decay of Λ hyperons by 7-8 BeV negative pions are reported, on the basis of 42 V° 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 Λ hyperons was by kenemativ criteria, measurement of ionization, and determination of the δ -electron energy. The cross section for the production of Λ hyperons is found not to differ much from the cross section of NN production, or about 3 μ b. Orig. art. has 1 figure and 1 table.

Card 1/2

L 15462-63	• •		
ACCESSION NR: AP3005248			/
ASSOCIATION: Ob "yedinenny" Nuclear Research)	'y institut yaderny*ki	reaktsiy (Joint	Institute of
SUBMITTED: 13Mar63	DATE ACQ: 068	Sep63	encl: 00
SUB CODE: PH	NO REF SOV: C	юз Не	OTHER: 002
Cord 2/2			and a second of the

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928110011-8"

VAN YU-CHAN [Wang Yung-ch'ang]; KIM KHI IN; KLAUNITSKAYA, Ye.N.; KOPYLOV, G.I.; KUZNETSOV, A.A.; MEL'NIKOVA, N.N.; NGUYEN DIN TY; SOKOLOVA, Ye.S.

BELYAKOV, V.A.; BOYADZHIYEV, A.V.; VAN YUN-CHAN; VEKSLER, V.I.; VIRYASOV, N.M.; KHIM KHI IN; KLADNITSKAYA, Ye.N.; KUZNETSOV, A.A.; MAL'TSEV, V.M.; NGUYEN DIN TY; PENEV, V.N.; SOLOV'YEV, M.I.

Production of () hyperons and between 7 Gev. 7 -mesons and carbon. Zhur. eksp. i teor. fiz. 46 no.5:1586-1597 My 164. (MIRA 17:6)

1. Ob"yedinennyy institut yadernykh issledovaniy.

HUZHETSOV, A. A.

"Computation of Displacement and Deformation of Stratum in the Mining of Slanting Seams in the Donbass." Cand Tech Sci, Chair of Surveying, Leningrad Order of Lenin and Order of Labor Red Banner Mining Inst, Min Higher Education USSR, Leningrad, 1954. (KL, No 13, Mar 55)

SO: Sum. No. 670, 29 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928110011-8"

BOBROV, Vasilly "ikolayevich; DANCHICH, Valeriy Valeryanovich; KUZHERSOV, Aleksandr Aleksandrovich; LOKHANIH, Konstantin Anatol'yevich; Edvin, N.H., Tellktor; SABITOV, A., tekhnicheskiy redaktor

[Work practice with the mining grab-loader] Opyt primeneniia prokhodcheskogo greifernogo agregata. [Moskva] Ugletekhizdat, 1955.

36 p. (Mining machinery)

(Mining machinery)

KUZNETSOV, Aleksandr Aleksandrovich; LOKHANIN, K.A., otvetstvennyy redaktor; SHIHNOV, L.V., redaktor izdatel stva; PROZOROVSKAYA, V.L., tekhnicheskiy redaktor; NADEINSKAYA, A.A., tekhnicheskiy redaktor

[POA-3 grab bin unit] Prokhodcheskii greifernyi agregat POA-3.

Moskva, Ugletekhizdat, 1956. 37 p.

(Coal mining machinery) (MIRA 9:12)