SMIRNOV, S.3.; RUDNICHENKO, V.I.; RADCHENKO, I.P.; EYSMONT, I.I.

Mechanization of oil change in reductors. Koks i khim.
no.16:35 '61. (MIRA 15:2)

1. Bagleyskiy koksokhimicheskiy zavod.
(Coke industry-Equipment and supplies)

EYSMONT, K.I., inzhener-ozelenitel'.

Roadside plantings along the highways of Poltava Province. Avt.dor.
19 no.12:16-17 D '56. (MIRA 10:10)

(Poltava Province--Roadside improvement)

Eleven years 20 no.3:16-17	experience of a collective farm ro Mr '57. (RoadsMaintenance and repair) (Collective farms)	ad brigade. Avt.dor. (MLRA 10:5)

Using roadside orchards as a reliable protection against snow. Avt. dor. 23 no.5:17 W'60. (MIRA 13:10) (Ukraine--Roads--Snow protection and removal) (Roadside improvement)

Pruning shears for outting shrubs. Avt.dor. 26 no.4:25 Ap '63.

(Pruning shears)

(Pruning shears)

- 1. EYSMONT, L. A.
- 2. USSR (600)
- 4. Afforestation Zhitomir Province
- 7. We are fighting for full conservation of plantings, Les i step!, 14, No. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

KIRSENKO, O.V.; PALLADIN, A.V.; ROZHMANOVA, O.M.; EYSMONT, S.S.

Adenosinetriphosphatase activity in the nervous tique. Ukr.
biokhim. zhur. 35 no.6:807-815 *63. (MIRA 18:7)

1. Institut biokhimii AN UkrSSR, Kiyev.

The Angular Distributions of Light and Heavy Fragments From the like Neutron Fission of Uasi (Ob uglovom raspredelenii legkikh i like Neutron Fission of Uasi (Ob uglovom raspredelenii legkikh i like Neutron Fission of Uasi (Ob uglovom raspredelenii legkikh i like Neutron Fission of Uasi (Ob uglovom raspredelenii legkikh i like Neutron Fission of Ilegkikh i like Neutron Fission of Neutronami s energiyey like v. 2, pp. 194-195 (USSK). Atomnaya Energiya, 1958, Pr. 2, pp. 194-195 (USSK). With none of the hitherto known nuclear models the following question can be answered; Do light and heavy fission fragments amendated and shows the measurements to add to the experimental data hitherto known. The distribution of light and heavy fission fragments in the direction parallel to the direction of entering neuments in the direction parallel to the direction of entering neuments in the direction parallel to the direction of entering neuments in the direction parallel to the direction of entering neuments in the direction parallel fragments ejected fragments ejected at an angle of 180°. Serie. Number of registered Number of light fragments ejected at an angle of 180°.	•	Eyrmont, V.P	/. P.	89-10-20/35						
PERIODICAL: Atomnaya Energiya, 1958, r 2, pp. 194-195 (USSR). Atomnaya Energiya, 1958, r 2, pp. 194-195 (USSR). With none of the hitherto known nuclear models the following question can be answered; bo light and heavy fission fragments have stion can be answered; bo light and heavy fission fragmental daments and the same angular distribution or is there a certain anisotropy? the same angular distribution of light and heavy fission fragments to add to the experimental daments in the direction parallel to the direction of entering neuments in the direction parallel to the direction of entering neuments in the direction parallel to the direction of light fragments ejected fragments ejected fragments ejected at an angle of 180°. 1 303 1ho 163 284 269	uthors:	Protopopov, A. H., Lysmont, V. P.								
Mith none of the hitherto known nuclear models the following question can be answered: Do light and heavy fission fragments have the same angular distribution or is there a certain anisotropy? the same angular distribution of it the experimental daments and the hitherto known. The distribution of light and heavy fission fragments in the direction parallel to the direction of entering neuments in the direction parallel to the direction of entering neuments is measured and shows the following results: Serie. Number of registered fragments ejected fragments ejected at an angle of 180°. 163 180°. 163 163 163 163 163 164 163 163 163 163 164 163 163 165	TILE:	The Angular Distributions of the Neutron Fission of U ² tyazhelykh oskolkov pri dele	nii U ²³ neytronamı s e	Her Erjoj						
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Scrie. Number of registered fragments ejected fragments ejected at an angle of 180°. 1 303 140 163 284 269										
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1 303 284 269	abstract*	the same angular distribution the authors try with new ments in the direction paratrons is measured and shows	asurements to add to the ribution of light and hallel to the direction of the following results: ad Number of light fragments ejected	e experimental dame eavy fission fragments ejected at an angle of						
('C')	absthact*	the same angular distribution. The authors try with new ments in the direction paratrons is measured and shows. Serie. Number of registers fission pairs.	asurements to add to the ribution of light and hallel to the direction of the following results: ad Number of light fragments ejected at an angle of 0°.	Number of light fragments ejected at an angle of 180°.						
	absthact*	the same angular distribution. The authors try with new ments in the direction paratrons is measured and shows. Serie. Number of registers fission pairs.	asurements to add to the ribution of light and hallel to the direction of the following results: and Number of light fragments ejected at an angle of 0°.	Number of light fragments ejected at an angle of 180°.						

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041232

The results show that the angular anisotropy increases with the increasing ratio between fission fragments and mass. The same effect was also observed with the fission of Uass, Uass, Uass, Thas and With 22 MeV protons. There are 1 table, and 4 references.

SUBMITTED. . March 28, 1957.

AVAILABLE. Library of Congress.

card 2/2 1. Fission fragments-Diffusion

EYSMONT, U.P.

56-1-48/56

AUTHORS:

Protopopov, A. N., Eysmont, V. P.

TITLE:

On the Angular Anisotropy of the Flying off of Fragments in the Fission of Pu239 by Neutrons With the Energy 14 MeV (Ob uglovoy anizotropii vyleta oskolkov pri delenii Pu239 neytronami s ener-

giyey 14 MeV)

PERIODICAL:

Zhurnal Eksperimental noy i Teoreticheskoy Fiziki, 1958, Vol. 34, Nr. 1, pp. 250 - 251 (USSR)

ABSTRACT:

The degree of anisotropy of the fission of Pu239 was determined with an ionization chamber. The target of Pu239 (with a density of ~300 microgram/cm2) was fastened to a collimator. The fission was excited by neutrons with the energy 14,8 MeV. By a simple rotation excited by neutrons with the energy 14,0 mev. by a simple rotation of the chamber around its axis one goes over from the counting of the fragments the fragments under the angle 0 to the counting of the fragments under the angle 90 (with reference to the neutron beam). The manual the angle 90 (with reference to the neutron beam). The manual manual between the direction of flying off of the fragments and the fixed direction (0 and 90) amounted to 25. For Pu the degree of anisotropy 1,14 was found here. For the degree of anisotropy for U235 the value 1,25 was found. Corrections for the motion of the center of gravity, the inaccuracy of the angle determination and for the background of the scattered neutrons were made in the

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56-1-48/56

On the Angular Anisotropy of the Flying off of Fragments in the Fission of Pu by Neutrons With the Energy 14 MeV

quantities measured here. In this manner the values 1,15 \pm 0,05 for Pu²³⁹ and 1,28 \pm 0,07 for U²³⁵ are found for the final values of the degree of anisotropy. The results found here show that the anisotropy of the nuclei with the same parity is not only determined by the amount of the spin of the target-nucleus. The anisotropy decreases with increasing value of the parameter Z2/A. Unfortunately the small number and the low accuracy of the experimental data do not permit any exacter determination of the dependence of the degree of anisotropy on the parameters of the nucleus. The quantum effects may manifest themselves as certain deviations from the fundamental tendency for the reduction of the anisotropy on transition to heavier nuclei. There are 1 figure, and 10 references, 4 of which are Slavic.

ASSOCIATION: Radium Institute AN USSR (Radiyeviy institut Akademii nauk SSSR)

October 22, 1957 SUBMITTED:

Library of Congress AVAILABLE

Card 2/2

PARENT TOO ENGLOSTED S017503	noscop, indicate in the control of t	PUMPCE: The volume is intended for physiciais.	COURLICE: The book represents value 9 of the Tensettions of the Radius Institute C. and contains the results of studies conducted a the Institute chiefly from 1950 1965. There are amber of articles dealing with the study of modern to accounting with the study of modern to accounting with particles of different energies register from several contenting with particles of different energies registering.	by the bandreds of Psi. Other treat different protest energy disciplinations. Results of states of various neutrons. Results the theory of various neutrons. Results and other printing in some contest of the thory of bation to a moderator (with matter are presented. The adjoint of the satisfies of the states.)	mention intersects and management matters provide a complete de- management and problems of method. The subters provide a feat performed scription of the construction of memory vites are perticond. Beforence	unes accompany individual erticies. Spanny, V.P. Orankus (laston the to High Ercitation Energy	Manur, V.P. Fission of Beavy Stolet (EC 73) due to Sign Excitation Energy 52	Protocopout A.M., Tu.A. Solitakiy, and S.M. Solow'yer, . Gress Section for 55 President of President Presi	. Semilor, To.A., and A.F. Plearweakly. Study of Casse Pay Spectrum of Po-3s 72 Eduton Source	Arter per July, J.R. Protopopy and B.M. Salryson. Study of Camer Bays Term Jeen meaning the Final on of U.S by Mercal believes	Remarks Tille, E.A. Petrabat, and M.A. Dais. Counting Sation for Agill and E.	/ Fak, W.A., M.L. Princhal, and In.P. Princhy. Arabysis of a Meutron Field of St. Inform Penalty	Thereal Designs is wither the following the contraction and following English that the contraction of the co	House w, luck. Personning ten bunker of Courses Entred by a Madium-Heryllitical August August 113	Baky M.A., G.N. Stenhow, W.L. Matelyana, K.A. Sermatak, and S.J.S. Silmaniasa, Leternishing Solder-Taulieta for as 4 (se, Eq. Pair et let 252 No. 18 and No. 19 and Material Physics.)	incharacter Tide. Determining the Communities for Colorinoster Tearmal Insert- ments in Calorinances Mentalments of Antiastics Frequentiars. To	or order a full the buse of topical and fraction fractions fractions for Malaterities and Constitution of the constitution of	Consideration of the second production of the second consideration of the second secon	A will be be about the transmission of the control of the facility of the control	The second of Administration of the second o	The second of th	Territor Medical Control Contr	AND THE PROPERTY OF THE PROPER
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EYSMONT, V. P. Cand Phys-Math Sci -- (diss) "Angle anisotropy of the process 13...
of fission of heavy nuclei by neutrons with an energy of 14 Mev." Len, 1959.
13 pp (Acad Sci USSR. Radium Inst im V. G. Khlopin, Acad Sci USSR), 175 copies
Bibliography at end of text (14 titles) (KL, 41-59, 103)

-7-

21(7) AUTHORS:

Protopopov, A. N., Eysmont, V. P.

507/89-6-6-5/27

TITLE:

Anisotropy of the Process of the U238 Fission by Neutrons of Energies of 14 Mev (Anizotropiya protsessa deleniya U²³⁸ nev-

tronami s energiyey 14 Mev)

PERIODICAL: Atomnaya energiya, 1959, Vol 6, Nr 6, pp 644 - 647 (USSR)

ABSTRACT:

In continuation of a previous paper (Ref 1) the authors of the present article give further results of investigations of the anisotropy, carried out by means of a double ionization chamber. By way of introduction the experimental order is described (see figure 1). The 14.4 MeV neutrons were formed in the reaction $T(d,n)He^4$ - a tritium-zirconium target was irradiated with 180 kev deuterons. The energy distribution was determined with respect to two directions "00" and "900" to the neutron beam. The neutron source was always at a distance of 15 cm from the center of the fissioning layer the diameter of which was 2.5 cm. The maximum angle between the direction of the departure of the fragments and the axis of the collimator channel was 9°; in position "0°" the maximum angle was between

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Anisotropy of the Process of the U²³⁰ Fission by Neutrons of Energies of 14 Mev

sov/89-6-6-5/27

the directions of the neutrons causing a fission and of the recording fragments $\leq 15^{\circ}$, in position "90°" the minimum angle was between these two directions $\geq 75^{\circ}$. The energy of the fission fragments was determined by a comparison of the fragment momenta with the momenta of the α -particles of U^{238} . In each of the two reference directions about 2000 fissions were recorded. The fragments may be divided into 3 groups according to their proportion by weight; the results of the measurements of angular distribution are listed in a table:

mass ratio of the	"0 ⁰ "	"90 ⁰ "	The numbers indicate the
fragments		•	ratio between the number of
1.0 - 1.3	45 <u>+</u> 3	46+3	the cases of one flying away
1.3 - 1.5	50 <u>+</u> 3	53 <u>+</u> 3	of light fragments and the
1.5 and more	54 <u>+</u> 3	49 <u>+</u> 3	total number of fissions in
1.0 and more	50 <u>+</u> 2	49 <u>+</u> 2	% with the statistical error
(total spectrum)			i.e.the part of the light
			fragments did not deviate

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from 50% within the experimental accuracy and the angular distribution of the light fragments was symmetrical with an

Anisotropy of the Process of the U^{238} Fission by Neutrons of Energies of 14 MeV

507/89-6-6-5/27

error of ±3% with respect to the vertical direction to the neutron beam. Figure 2 shows the mass distribution of the fragments (0°, 90°) in a diagram. It was found that in the case of a mass ratio of the fragments smaller than 1.7 - 1.8 the angular anisotropy increases with increasing mass asymmetry. The results were compared with those of other authors and discussed with respect to the statistical theory of angular distribution of fission fragments by V. M. Strutinskiy (Ref 8). In conclusion, the authors thank M. I. Kuznetsov for assistance. There are 2 figures, 1 table, and 8 references, 2 of which are Soviet.

SUBMITTED: December 12, 1958

Card 3/3

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73 7616 13 1	~			
	21(7)	***		
.	AUTHORS:	Frotopopov, A. H., Baranov, I. A., Eyssont, V. P.	į	
	TITLE:	On the Angular Anisotropy of the Plying Apart of Fragments in the Fission of Am ^{24t} by 14-7 May Heutrons (Ab Marianna)		
		anisotropii rasleta oskolkov pri delenii Am ²⁴¹ neytronami s energiyey 14.7 MeV)		
ا ا ا	PERIODICAL:	Ihurnal eksperimental'noy i teoreticheskoy firiki, 1959, Vol 36, Nr 3, pp 920-921 (USSN)		
	ABSTRACT:	In order to determine the influence exercised by nuclear structure on the angular aniestropy in a fission process it is necessary to investigate the angular distribution of the fission fragments of the greatest possible number of nuclei. In an earlier paper (Ref 2) the method was already described by scame of which the authors determined the relative number of fragments parallel and external processing the second process.		
		incident neutron as 241		
	Card 1/2	effect of center of mass motion, the finite angular resolution, and the bankground of scattered neutrons, the degree of angular anisotropy was determined as amounting to 1.06 ± 0.06, which is not in contradiction to Bohr's re-		
	on the Angul of Am ²⁴¹ by	ar Anisotropy of the Flying Spart of Pragments in the Fission 14.7 New Feutrons	•	
		presentation (Rgf 4). Anisotropy has a certain tendency to diminish with Z ² /A of the fissioning aucleus, but, 4s a comparison of 217		
Ĭ		Fp ²³⁷ 1 1.16 ± 0.02 (Ref 1) Pu ²³⁹ 1 1.15 ± 0.05 (Ref 2)		
ì		ru 1 1.13 ± 0.05 (Ref 2)		'
		the 1 1.1) ± 0.00 (Ref 2) La ²⁴ : 1.08 ± 0.06 shows, asymmetry in the case of transurantum changes only very clowly. The general effect can be explained within the framework of the restriction.		
		framework of the statistical theory by Y. H. Strutinsky. The authors finally thank G. I. Khlebankov for the deposition of inertains on the platinus foils. There are 5 references, 4 of which are Soviet.		
	SUBSECTION.	Personaler 6, 1936		

21(7)
AUTHORS:

Protopopov, A. N., Eysmont, V. P.

SOV/56-36-5-47/76

TITLE:

On the Dependence of the Degree of Angular Anisotropy in the Fission Process on Nuclear Structure (O zavisimosti stepeni uglovoy anizotropii protsessa deleniya ot struktury yadra)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 5, pp 1573-1574 (USSR)

ABSTRACT:

From the recently obtained experimental data on the angular distribution of the fission fragments of various heavy nuclei it may be concluded that a certain connection exists between the degree of anisotropy of the angular distribution 6(0°)/c(90°) and the parameter 2²/A of the fissioned nucleus, for the degree

of anisotropy decreases with increasing \mathbb{Z}^2/A . The authors of the present "Letter to the Editor" endeavor to explain this connection thermodynamically. They base on the assumption that in the case of a sufficiently high excitation energy of the compound nucleus the ratio of the fission cross sections at 0

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and 90° to the direction of the flight of particles differs considerably from one nucleus to another in accordance with

On the Dependence of the Degree of Angular Anisotropy in SOV/56-36-5-47/76 the Fission Process on Nuclear Structure

 $6(0^{\circ})/6(90^{\circ}) \sim \exp(\Delta E/T)$, where ΔE denotes the difference of the fission activation energies parallel and perpendicular to the beam, and T is the temperature of the nucleus in the critical state of deformation. For the heavy nuclei investigated ΔE does not depend on the structure of the target nucleus and also not on the properties and the energy of the inciding particle. Nuclear temperature before fission depends in a high degree on the properties of the nucleus (i.e. on Z^2/A) and also on the excitation energy E of the nucleus: $T = 2(E/a)^{1/2}$, $a=3.4.(A-40)^{1/2}$ Mev⁻¹. The excitation energy consists of the kinetic energy E_{kin} of the particles and their binding Energy E_{b} , the energy of neutron evaporation E_{cvap} and the energy of the critical deformation E_{def} : $E = E_{kin} + E_{b} + E_{cvap} + E_{def}$. By evaluation of the individual values the authors determined nuclear temperature in the state of critical deformation for the following nuclei: Th²³², U²³⁸, U²³⁵,

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On the Dependence of the Degree of Angular Anisotropy in the SOV/56-36-5-47/76 Fission Process on Nuclear Structure

 U^{233} , Np^{237} , Pu^{239} and Am^{241} for the case of fission by 14.3 - 14.8 Mev neutrons. By using the data obtained by a number of other authors they obtained for the dependence of the $ln[\sigma(0^\circ)/\sigma(90^\circ)]$ of 1/T a straight line (see figure), round which the experimental values vary within the limits of error. The ratio $G^{(0^\circ)}/G^{(90^\circ)}$ is actually found to differ considerably from one nucleus to another, viz. like $exp(\Lambda E/T)$ at $\Delta E = const$ and $T = f(Z^2/A)$. There are 1 figure and 6 references, 3 of which are Soviet.

SUBMITTED:

December 29, 1958

Card 3/3

21(7) AUTHORS:

Protopopov, A. N., Baranov, I. A.,

sov/56-36-5-71/76

Eysmont, V. P.

TITLE:

The Angular Anisotropy and the Energy Characteristics of the Fission Process (Uglovaya anizotropiya i energeticheskiye kharakteristiki protsessa deleniya)

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 5, pp 1608-1609 (USSR)

ABSTRACT:

The fact that in the case of experimental and theoretical investigations of angular anisotropy the problems of energy distribution over the fragments have hitherto not been directly touched, gave rise to experimental investigations carried out by the authors in this direction which are briefly described by the present "Letter to the Editor". In the introduction the problem is discussed and several known dependences are given, as, e. g., that anisotropy is all the greater, the greater neutron evaporation before a critical deformation occurs. The authors investigated the

fission of \mathbf{U}^{238} by 14.9 Mev neutrons. By means of a double ionization chamber the energy of the fragments in the

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The Angular Anisotropy and the Energy Characteristics SOV/56-36-5-71/76 of the Fission Process

direction of the neutron beam (0°) and perpendicular hereto (90°) was measured. Angular distribution was the same whenever the direction of the departure of the fragments deviated by not more than 26° from the directions 0 and 90° respectively. The basic conditions and methods of the investigation were the same as described in reference 3; a total of 5000 fissions was investigated at 0° , and 4000 at 90° . It was found that in the case of a mass ratio of fragments of 1.40 - 1.44, the average kinetic energy of the fragments amounts to 170.7 ± 0.6 MeV (0°) and 169.4 ± 0.8 MeV (90°) respectively. If, therefore, a difference in fragment energy exists, it cannot amount to more than 1.5 %. There are 3 Soviet references.

SUBMITTED:

February 27, 1959

Card 2/2

24(5) AUTHORS:

Protopopov, A. N., Baranov, I. A., Selitskiy, Yu. A., Eysmont, V. P.

SOV/56-36-6-47/66

TITLE:

The Influence of Nuclear Shells on the Distribution of the Kinetic Energy of Fragments in Fission by Fast Neutrons (Vliyaniye yadernykh obolochek na raspredeleniye kineticheskoy energii oskolkov pri delenii na bystrykh neytronakh)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 6, pp 1932-1933 (USSR)

ABSTRACT:

The authors of the present "Letter to the Editor" report on experimental investigations of the distribution of the entire kinetic energy of the fragments in a fission of

U²³⁸ by 14.9 Mev neutrons. The results obtained are compared with those obtained for a y²³⁵-fission by 14.1 Mev neutrons

and those obtained from the spontaneous disintegration of Cf252, Measurements were carried out by means of a double ionization chamber. From the experimental half width of kinetic energy the charge distribution, the neutron recoil effect, the

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fluctuations of the number of evaporated neutrons, the instrumental resolving power, and the wass ratio were determined.

The Influence of Nuclear Shells on the Distribution of SOV/56-36-6-47/66 the Kinetic Energy of Fragments in Fission by Fast Neutrons

The thus found dependence of the average kinetic energy E and the half width of its distribution Δ E on the mass ratio A_1/A_2 of the fragments are shown by figure 1 (compared with the curves obtained for U^{255} -fission). The curves take an analogous course, and in all cases the curve $E(A_1/A_2)$ and the curve $\Delta E(A_1/A_2)$ have a maximum at a mass ratio of 1.25 + 1.3. Figure 2 shows the distribution of the kinetic energy of the fragments in U^{255} -fission by thermal neutrons and of the spontaneous disintegration of Cf^{252} obtained by measuring the time of flight. It was found that the kinetic energy attains its highest value when the heavy fragment has a mass number near 132. This nucleus probably consists of closed shells of 50 protons and 82 neutrons. It may thus be assumed that the degree of closure of the nuclear shells influences the size of the fragments. There are 2 figures and 6 references.

SUBMITTED: Card 2/2

February 21, 1959

S/030/61/000/008/005/005 B105/B206

AUTHOR:

Eysmont, V. P., Candidate of Physical and Mathematical

Sciences

TITLE:

The physics of nuclear fission

PERIODICAL:

Akademiya nauk SSSR. Vestnik, no. 8, 1961, 118-120

TEXT: A Conference on the physics of nuclear fission was held in Leningrad from April 18 to 24, 1961. It was convened at the suggestion of the Radiyevyy institut im. V. G. Khlopina Akademiya nauk SSSR (Radium Institute imeni V. G. Khlopin, AS USSR) and the Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'zovaniyu atomnoy energii (State Committee of the Council of Ministers USSR on Utilization of Atomic Energy). More than 300 physicists and chemists from many cities of the Soviet Union attended the conference, and about 50 reports on various theoretical and experimental problems were discussed. Attention was chiefly paid to the mass, angular, and energy distributions of fission fragments, to the spontaneous-fission probability, as well as to fission at low and high excitation energies. B. T. Geylikman reported on the causes of the

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The physics of nuclear fission

S/030/61/000/008/005/005 B105/B206

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asymmetric mass distribution of fragments, V. M. Strutinskiy and S. Yukhanson being mentioned in this connection. The following reports are also mentioned: G. A. Pik-Pichak and V. M. Strutinskiy on the mass, charge, and energy distributions of fragments; V. V. Vladimirskiy and V. N. Andreyev on theoretical possibilities in this field; A. N. Protopopov gave a survey of experimental data on the mass distribution of fragments, and demonstrated the applicability of A. Bohr's ideas; B. V. Kurchatov and collaborators reported on the fission of Am241 by neutrons of various energies; A. P. Komar and collaborators reported on the photofission of Th²³²; V. P. Eysmont on angular fragment distribution; V. G. Nesterov, G. N. Smirenkin, and I. I. Bondarenko observed discrete fission channel spectra in nuclei with odd mass numbers; B. D. Kuz'minov and I. A. Baranov reported on the correlation of angular and mass asymmetry; Yu.S. Zamyatnin ca the emission of prompt neutrons and y-rays; M. V. Blinov and Ye. I. Sirotinin on the measurement and calculation of the spectra of neutrons which are emitted at given angles to the direction of departure of the fragments; G. N. Smirenkin and M. V. Blinov on the effect of the shell structure of fragments upon their shape at the moment of breaking of the constriction; B. A. Bochagov, A. P. Komar, and K. A. Petrzhak on

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S/030/61/000/008/005/005
The physics of nuclear fission B105/B206

the kinatic energy of fragments; N. A. Perfilev analyzed data on nuclear fission by high-energy particles; A. N. Murin and A. K. Lavrukhina presented new data on nuclear fission by high-energy particles; M. I. Permer spoke about problems connected with fission probability at low excitation energies; and V. A. Druin and G. N. Flerov about the investigation of spontaneous-fission probability; N. A. Perfilov, Z. I. Solov'yeva, R. A. Filov, and G. I. Khlebnikov observed spontaneous fission accompanied by a-emission (for Cm²⁴², Pu²³⁸, and Pu²⁴⁰); S. M. Solov'yev reported on the investigation of the properties of semiconductor detectors. Such conferences are intended to be held biannually. Measures for improving the organization of activities in the field of the physics of nuclear fission were discussed.

Card 3/3

EARANOV, I.A.; PROTOPOPOV, A.N.; EYSMONT, V.P.

Anisotropy of U²³⁸ fission by 3 Mev. neutrons. Zhur.eksp.i teor.
fiz. 41 no.4:1003-1006 0 '61. (MIRA 14:10)

1. Radiyevyy institut AN SSSR.
(Uranium—Isotopes) (Nuclear fission) (Neutrons)

PERFILOV, N.A., doktor fiz.-mat. nauk, red.; EYSMONT, V.P., kand. fiz.mat. nauk, red.; VORONOVA, A.I., red.; MAZEL', Ye.M., tekhn.
red.

[Physics of nuclear fission] Fizika deleniia atomnykh iader;
sbornik statei. Moskva, Gosatomizdat, 1962. 241 p.

(MIRA 15:7)

(Nuclear fission)

CIA-RDP86-00513R00041232

S/089/62/012/001/017/019 B102/B138

AUTHOR:

Eysmont, V. P.

TITLE:

Conference on fission physics

PERIODICAL: Atomnaya energiya, v. 12, no. 1, 1962, 78 - 80

TEXT: The Soveshchaniye po fizike deleniya atomnykh yader (Conference on the physics of nuclear fission) was held in Leningrad from April 18 - 24. More than 300 scientists took part and about 50 lectures were held. The sessions started with a report by B. T. Geylikman on nuclear models in the problem of fragment mass distribution. G. A. Pik-Pichak and V. M. Strutinskiy spoke on the statistical theory of fission, V. V. Vladimirskiy and V. N. Andreyeva on possibilities of detecting parity nonconservation in strong interactions. The idea is based on the assumption that the threshold for nuclear fission must be lower with nonconservation than with conservation of parity. A. N. Protopopov reviewed experimental data on fragment mass distribution in a lecture. V. P. Eysmont spoke on the symmetry of nuclear fission, A. P. Komar on Th photofission, V. G. Nesterov, G. N. Smirenkin and I. I. Bondarenko Card 1/3

Conference on fission physics

S/089/62/012/001/017/019 B102/B138

on the angular distributions of U^{233} , U^{235} , Pu^{239} and Pu^{240} fission fragments and V. A. Shigin on that of U^{233} . V. M. Strutinskiy read a paper on the angular anisotropy in fission and B. D. Kuz'minov and I. I. Bondarenko on experiments made to find the relation between the anisotropy, and the mass, energy and spin of fragments (neutron-induced Th^{2,2} fission). I. A. Baranov et al. have made measurements of this kind for U238 bombarded by 3-Mev neutrons. Yu. S. Zamyatin reviewed fragment excitation and emission of prompt neutrons. G. N. Smirenkina and M. V. Blinov spoke on the influence of the shell structure on the shape of fragments, B. T. Geylikman on the relation between fragment mass and the number of emitted neutrons, B. A. Bochagov, A. P. Komar, K. A. Petrzhak et al. on problems of kinetic energy distribution of fragments. N. A. Perfilov gave an analysis of nuclear fission caused by high-energy particles. G. A. Pik-Pichak discussed the relation between fission probability and energy, A. N. Murin, A. I. Obukhov, A. K. Lavrukhina, V. F. Darovskikh et al. presented new data on fissions induced by high-energy particles. M. I. Pevzner gave a review on problems of fission probability when excitation is weak. Results of measurements of heavy-nucleus fission by 10-37 Mev neutrons were dealt with by V. M. Pankratov. V. A. Druin and G. H. Florov Card 2/3

Conference on fission physics

S/089/62/012/001/017/019 B102/B138

reviewed problems of spontaneous fission. N. A. Perfilov, Z. I. Solov'yeva, R. A. Filov and G. I. Khlebnikov have observed spontaneous fission of $\rm Cm^{242}$, $\rm Pu^{238}$ and $\rm Pu^{240}$ with emission of long-range α -particles. S. M. Solov'yev spoke on new semiconductor detectors of fission fragments. A resolution was passed that similar conferences should be held every other year.

Card 3/3

33**236** \$/089/62/012/002/008/013 B102/B138

24.6600

AUTHORS:

Baranov, I. A., Protopopov, A. N., Eysmont, V. P.

TITLE:

Comparison of the kinetic energies of the fragments from 3- and 15 Mev neutron-induced \mathtt{U}^{238} fission

PERIODICAL: Atomnaya energiya, v. 12, no. 2, 1962, 150 - 151

TEXT: The total kinetic energies and their dispersion were determined in dependence on fragment mass ratios between 1 and 2 for 3-Mev and 15 Mev neutron-induced U²³⁸ fission, the neutrons coming from D(d, n)He³ and T(d, n)He⁴ reactions, respectively. A 450 mg/cm² thick U²³⁸ target was used, the fragment energies were measured with a double ionization chamber via pulse height coincidences. For 3-Mev neutron induced fissions 8000 events were observed, for 15 Mev, 20,000. Total kinetic energy of a fragment pair was plotted against the energy ratio for both 3 and 15-Mev neutron-induced fissions. Two almost parallel curves were obtained, the former being about 2 Mev higher than the latter. They had a maximum at about 1.25 mass ratio, at higher ratios total kinetic energy fell almost Card 1/2

33236 \$/089/62/012/002/008/013 B102/B138

Comparison of the kinetic ...

linearly. This result does not agree with calorimetric measurements which indicate an increase in kinetic energy with increasing nuclear excitation. For dispersion a similar curve was obtained with a maximum at a ratio of 1.1. Nuclear excitation was thus found to have no effect on the shape of the fragment energy distribution. Yu. I. Belyanin is thanked for seeing to the accelerator. There are 2 figures and 9 references: 3 Soviet and 6 non-Soviet. The four most recent references to English-language publications read as follows: S. Friedland. Phys. Rev. 84, 75, 1951; J. Wahl. Phys. Rev., 95, 126, 1954; S. Gunn, H. Hichs. Phys. Rev., 107, 1642, 1957; P. Stevenson et al. Phys. Rev. 117, 186, 1960.

SUBMITTED: July 28, 1961

Card 2/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041232

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34010 \$/056/62/042/001/028/048 B113/B112

24.6600

AUTHOR: Eysmont, V. P.

TITLE: Nuclear fission symmetry

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 42,

no. 1, 1962, 178-179

TEXT: Various experimental data on elements lighter than thorium show that nuclear fission is not only asymmetrical. It can further be seen that the reason of the symmetry lies in the structure of the fissioned nucleus. In the papers by A. W. Fairhall (Ref. 1) and A. W. Fairhall, R. C. Jensen and E. F. Neuzil (Ref. 2) lead and bismuth were irradiated with 22-Mev deuterons and with alpha particles of up to 43 Mev. Their mass distributions of the fragments were narrow and symmetrical. In the fission of radium with 11-Mev protons and 22-Mev deuterons the mass distribution of the fragments has an asymmetrical and a symmetrical part.

The 82 Pb 207, 206, 204 and 83 Bi nuclei that are close to the doubly magic 82 Pb nucleus have a slight nucleon excess or deficiency with Card 1/3

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Nuclear fission symmetry

respect to the closed shell and show only a slight deviation from the spherical symmetry. The nuclei of the heavy elements contain a larger amount of nucleons outside the closed shell. These nucleons cause a dynamic deviation from the spherical symmetry. In still heavier elements, the number of outer nucleons, which cause a statistical deformation of the nucleus, increases. As soon as saturation with respect to shape is reached a further increase in the number of nucleons does not cause a further increase in deformation. These nuclei comprise thorium and the heavy nuclei with asymmetrical fission. Symmetrical fission takes place in lead and bismuth. The fact that the outer nucleons change the state of the nuclei between lead and thorium explains the change in the fission symmetry in this region. A rapid increase of the fragment of the symmetrical fissions with increasing excitation of the fissioning nucleus can be explained by distortions in the shell structure and by the approach of the nucleus to the state of a liquid drop. R. A. Nobles, R. B. Leachman (Ref. 6) observed experimentally that symmetrical fission in nuclei with a small number of nucleons increases more rapidly outside the closed shell. There are 6 non-Soviet references. The four most recent references to English-language publications read as follows: Ref. 1. A. W. Fairhall Phys. Rev. 102, 1335, 1956. Ref. 2. A. W. Fairhall et al. Card 2/3

34,010

Nuclear fission symmetry

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Second Un. Nat. Intern. Conf. on the Peaceful Uses of Atomics Energy, Geneva, 1958, P/677. Ref. 5. R. C. Jensen, A. W. Fairhall. Phys. Rev., 118, 771, 1960. Ref. 6. R. A. Nobles, R. B. Leachman. Nucl. Phys. 211, 1958.

SUBMITTED: June 21, 1961

X

Card 3/3

34011 \$/056/62/042/001/029/048 B113/B112

24,6500

AUTHORS:

Blinov, M. V., Eysmont, V. P.

TITLE:

Nuclear shells and prompt neutrons

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,

no. 1, 1962, 180-182

TEXT: The authors studied the dependence of the number of prompt neutrons on the mass A of the fission fragment. They arrived at the conclusion that according to the model by V. V. Vladimirskiy (ZhETF, 32, 822, 1957) a great difference has to be expected in the number of the emitted prompt neutrons with strictly symmetrical fission if the light fragment contains a maximum portion of deformation energy and in the strongly asymmetrical fission if the heavy fragment contains almost the entire deformation energy. The experimental data of V. F. Apalin, Yu. P. Dobrynin, V. P. Zakharova, I. Ye. Kutikov, and L. A. Mikaelyan (Ref. 4: Atomn. energ., 8, 15, 1959) and S. L. Whetstone (Ref. 2: Phys. Rev. 114, 581, 1959) that were obtained in a study of the dependence v(A) in thermal \mathtt{U}^{235} fission and in spontaneous \mathtt{Cf}^{252} fission did not confirm these Card 1/2

34011 5/056/62/042/001/029/048 B113/B112

Nuclear shells and prompt ...

fragments emit an almost equal number of prompt neutrons. These results can be explained by assuming that the effect of the closed shells influences the shape of the fragments prior to their definite separation. This effect may be related to the emission of prompt neutrons. For Cf²⁵² the numerical difference of the neutrons emitted by the "magic" heavy and the complementary light fragments is much smaller than for U²³³ and U²³⁵ since for Cf²⁵². The authors thank B. M. Shiryayev and I. T. Krisyuk for discussions. There are 1 figure and 5 references; 3 Soviet and 2 non-Soviet. The two references to English-language publications read as follows: J. S. Fraser, J. C. D. Milten. Phys. Rev., 23, 818, 1954. S. L. Whetstone. Phys. Rev., 114, 581, 1959.

SUBMITTED: June 21, 1961

Card 2/2

40423 s/056/62/043/003/040/063 B108/B102 AUTHORS: Selitskiy, Yu. A. Eysmont, V. P. TITLE: Two types of nuclear fission . PLRIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 3(9), 1962, 1005 - 1008 TEXT: Various experimental data on the kinetic energy of fragments resulting from fission of U, Th, Pu etc. by gammas, alphas and thermal neutrons suggest that two types of fission exist: symmetric fission with lower energy and asymmetric fission with higher (cf. A. Turkevich, J. B. Niday. Phys. Rev., 84, 52, 1951). Such a hypothesis would also explain the large fluctuations in the kinetic energies of the fragments. Asymmetric fission is a slow process in which the excitation energy is uniformly distributed to all degrees of freedom of the nucleus. Symmetric fission is a fast process; the additional excitation energy is imparted to the translatory degrees of freedom of the fragments. The energy of symmetric fission increases with increasing excitation energy of the The kinetic energy of the fragments increases with increasing Card 1/2

Two types of nuclear fission

S/056/62/043/003/040/063

B108/B102

energy of the incident particles. This may explain the fact that the fragments of, Bi fission by thermal (asymmetric fission) and by 90-Mev neutrons (symmetric fission) have approximately the same energies. There are 2 figures and 1 table.

SUBMITTED: April 2, 1962

S/056/63/044/002/051/065 B184/B102

AUTHOR:

Eysmont, V. P.

TITLE:

Two types of fission and the nuclear charge distribution

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,

no. 2, 1963, 744 - 747

TEXT: The experimental data on fission fragment yields and charge distribution is analyzed, and the latest data on prompt neutron emission (ZhETF, 43, 329, 1962) is taken into account. The charge distribution among the fragments, characterized by $y = (c\pi)^{-1/2} \exp[-(z-z_p)^2/c]$, is determined for a series of nuclei, and the results are discussed together with those of Wahl et al. (Phys. Rev. 126, 1112, 1962) and Apalin et al. (ZhETF, 43, 329, 1962). $Z_p = Z_p(A)$ is the most probable charge of a fragment of mass A, and C is the half-width of the charge distribution, assumed as Gaussian. The results are shown in the figure; $Z_{ph}^{-A_h Z_c/A_c} = A_1^{+}Z_c/A_c^{-Z}pl$ is taken as ordinate and A_h^{+} -50A_c/ $Z_c^{-A_c}(1-50/Z_c)$ - A_1^{+} as abscissa; the subscripts h and 1

Card 1/3

Two types of fission and ...

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refer to heavy and light (fragments), Z_c and A_c are charge and mass of the fissioning nucleus; the solid line gives the empirical Z_p -values obtained by Wahl, the circles denote the Z_p values measured for V^{235} fission induced by 14.5-Mev neutrons. The results indicate that at $A \sim 132$ one may assume the transition from asymmetric to symmetric fission; also the sudden drop in fragment yield and the data on the kinetic energies of the fragments (ZhETF, 43, 1005, 1962) speak in favor of this assumption. The Z_p -curves for symmetric fission should fit the dashed line Z_p/A = const. With C=1.3 and the Z_p values taken from the diagram, the experimental yields of $I^{152,134}$, Cs^{136} and Nb^{97} are well described. For Ag^{112} a value of C = 0.9 would be necessary; 1.3 yields a 100% incorrect value. This can be explained by the two modes of decay: the first-mentioned isotopes are obtained in asymmetric fission, Ag^{112} in symmetric. The deviation from $Z_p/A = const$ is assumed to be governed by the relation $\Delta A_z = (A/Z)\Delta Z_A$, where ΔZ_A is the charge dispersion at A = const, and ΔA_z the mass dispersion at Z = const. This Card 2/3

Two types of fission and...

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B184/B102

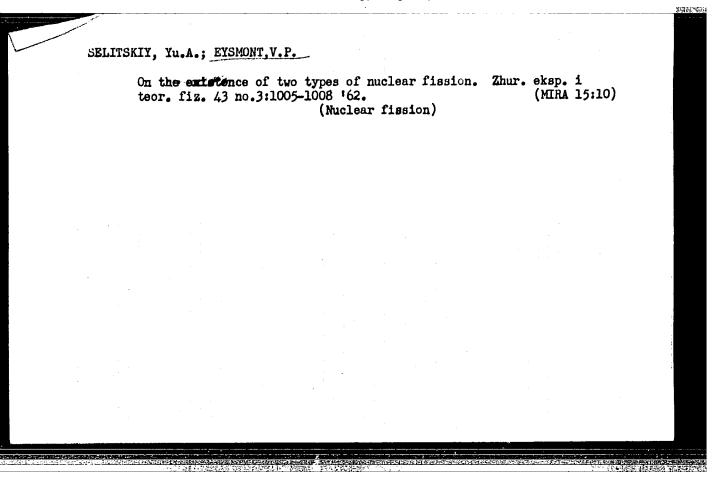
relation was experimentally verified by Blann (Phys. Rev. 123, 1356, 1961)
All results indicate the existence of the two modes of fission, characterized by independent Z_p, C_s mass and charge distributions. There is

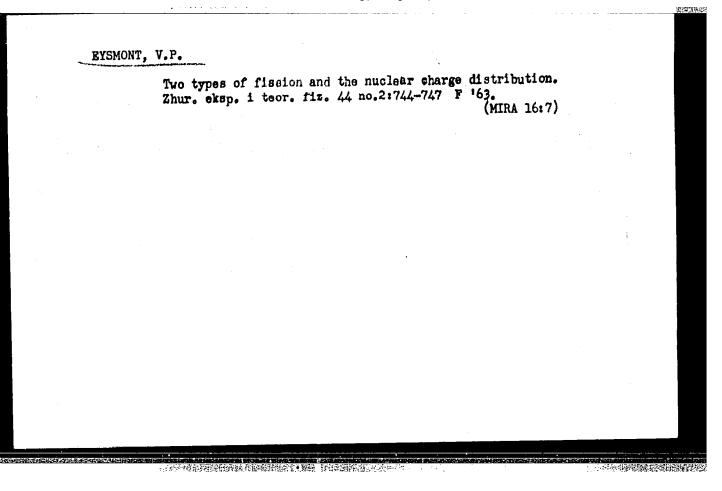
1 figure.

SUBMITTED: September 24, 1962

Fig.

Card 3/3





ETR/EFF(c)/EFF(n)-2/EFT(m)/DDS--AFFTC/ASD/AFWL/ /Pu-li--AR/NW/JD/JG AP3000032 S/0056/63/044/005/1445/1449 AUTHOR: Marov, G. I.; Nemilov, Yu. A.; Selitskiy, Yu. A.; Eysmont, Fission of uranium and thorium induced by sub-barrier deuterons Zhurnal eksper. 1 teoret. fiziki, v. 44, no. 5, 1963, 1445-1449 SCURCE: TOPIC TAGS: Uranium and thorium fission, sub-barrier neutrons, stripping, fragment distribution ABSTRACT: The absolute fission cross sections of U-233, U-235, U-238, and Th-232 induced by 5.8 -- 6.6 MeV deuterons were measured with a semiconductor detector, and the mechanism of the sub-barrier interaction resulting in the fission of the given nuclei was ascertained. n-type silicon having a resistivity on the order of 150 ohm-cm was used as the detector material. Angular anisotropy of the fragment distribution was disregarded. Simulatenously with registration of the fission events, pulses were fed to a 120-channel, pulse-height analyzer for the determination of the fragment energy spectra. The fissions induced by the background neutrons did not exceed 20%. For 6.6 Mey deuterons, the cross

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ACCESSION NR: AP3000032

sections were found to be 0.15, 0.16, 0.75, and 1.2 millibarns for Th-232, U-238, U-235, and U-233, respectively, with 10% accuracy. The investigation of the fragment kinetic-energy distributions and the analysis of the fission cross sections indicate that Th-232 and U-238 undergo fission mainly following deuteron capture, but that at least 70% of the U-235 and U-233 fission events are preceded by stripping. The authors are indebted to S. A. Karamyan for assistance. Original article has: 2 figures, 4 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 12Nov63

DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: PH

NR REF SOV: 001

OTHER: 007

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L 45188-65 EVIT (m)/EVIA(h) Peb

ACCESSION NR: AP5009822

UR/0367/65/001/002/0185/0188

AUTHORS: Eysmont, V. P.; Yurgenson, V. A.

THIME: Search for positron emitters among the products of U-235

thermal neutron fission 19

SOURCE: Yadernaya fizika, v. 1, no. 2, 1965, 185-188

TOPIC TAGS: uranium, fission, thermal neutron fission, fission fragment charge distribution, positron emission

ABSTRACT: The purpose of the investigation was to check on the hypothesis fragments of equal mass but of unequal charge can be produced in 0^{235} thermal-neutron fission which is symmetrical in the mass distribution. A 0^{235} target of thickness $120~\mu g/cm^2$ deposited on a polished aluminum substrate was irradiated in a reactor and the positron emission from the collected fission products was observed by simultaneously counting the annihilation gamma quanta.

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By observing the γγ coincidences corresponding to the annihilation radiation, it was established that the upper limit of the number of positron emitters is substantially less (not more than 1% of the total counts) than the number expected on the basis of the above hypothesis. A similar conclusion was reached recently by A. C. Wahl and D. R. Nethaway by using a different technique. "The authors thank M. V. Blinov for useful advice and V. P. Zykov for major assistance." Orig. art. has: 2 figures.

ASSOCIATION: None

SUBMITTED: 26Aug64

ENCL: 00

SUB CODE: NP

NR REF SOV: 063

OTHER: 004

Card 2/2

NEMILOV, Yu.A.; PAVLOV, V.V.; SELITSKIY, Yu.A.; SOLOV'YEV, S.M.

EYSMONT, V.P.

Distribution of the masses and kinetic energies of fragments in the fission of Th²³² by 12 Mev. deuterons. IAd. fiz. 1 no.4:633-638 Ap '65.

(MIRA 18:5)

JD/WW/JG/DM ENT(m)/EFF(n)-2/EMP(t)/EMP(b)/EMA(h) 64368-65 UR/0089/65/018/005/0456/04 AP5014534 ACCESSION NR: 539.172.13 + 539.17.015 AUTHOR: Nemilov, Yu. A.; Pavlov, V. V.; Selitskiy, Yu. A.; Solov'yev, TITLE: Total and differential cross sections for the fission of uranium and thorium by low-energy deuterons SOURCE: Atomnaya energiya, v. 18, no. 5, 1965, 456-459 TOPIC TAGS: uranium, thorium, fission cross section, subbarrier deuteron, total cross section, differential cross section, fiusion fragment detection ABSTRACT: By registering the fission fragments with glass plates, the authors were able to determine the total and differential cross sections for the fission of Th²³², U²³³, U²³⁵, and U²³⁸ by deuterons of energy much lower than the Coulomb barrier (6.6 MeV and below). Ordinary photographic plates were used, the emulsion serving as a protection for the surface. The targets were made by evaporating fluorides of uranium and thorium on thin silver substrates. The deuterons were accelerated in a cyclotron and their energy was determined accurate to 0.1 MeV. The experimental set-up is illustrated in Fig. 1 of the Enclosure. The results are compared with published data in which the cross sections have been obtained with Card 1/3

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ACCESSION NR: AP5014534

semiconductor detectors at larger deuteron energies. The differential cross sections of all nuclei varied smoothly within a narrow range at the investigated deuteron energies. The anisotropy of the angular distribution was quite smooth in all cases, except that for U²³⁵ the angle distribution of the fragments had a maximum not at 0° but at 90° to the beam. Although the results did not differ greatly from those ob ained by others, it is indicated that the reactions preceding fission of nuclei having different neutron fission thresholds and bombarded by subbarrier deuterons may differ noticeably from those at higher energies. Orig. art. has:

ASSOCIATION: none

SUBMITTED: 23Jun64

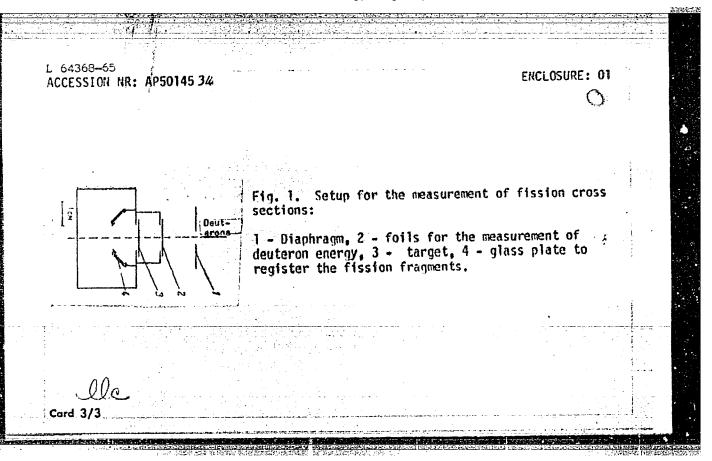
ENCL: 01

SUB CODE: NP

NR REF SOV: 005

OTHER: 006

Card 2/3



5077-66 EWT(m)/EPF(n)-2/EWA(h) DM ACC NRI AP5022626

UR/0089/65/019/002/0113/0116 539.125.5:539.173.7

AUTHOR: Eysmont, V. P.

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TITLE: Fission neutrons of exc

Fission neutrons of excited nuclei

SOURCE: Atomnaya energiya, v. 19, no. 2, 1965, 113-116

TOFIC TAGS: neutron, neutron energy distribution

ABSTRACT: In the calculations, it is usually assumed that the emission of neutrons is originated by fully accelerated fission fragments. The author attempts to evaluate the correctness of such an assumption, especially when applied to high-excitation energies. For this purpose, the time needed for fission fragments to attain the full velocity is calculated by the author, and then compared with the nucleus half-life from the standpoint of neutron emission. The author assumes that in case of nucleus excitations of 20 MeV and over, a certain number of neutrons can be emitted before the full acceleration is reached. Such a possibility of partial neutron emission becomes greater with the increase of the excitation energy. Such an approach permits him to explain and eliminate certain contradictions existing in the interpretation of experimental data. It is stressed that the new

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L 5077-66 ACC NRI AP5022626 mothods used for determination of neutron dependence upon the mess of fragments cannot be regarded as a reliable technique for investigating high-energy fission processes. They are usually based on the comparison of energies and volocities of fission fragments and no allowance is made for the number of neutrons emitted from the non-fully accelerated fragments. The author's discussions, calculations, and conclusions were made on the basis of numerous publications, mostly of foreign origin. Orig. art. has: 7 formulae and 1 graph. ASSOCIATION: None SUBMITTED: 28Ju164 ENCL: 00 SUB CODE: NO REF SOV: 005 OTHER: 014

L 13172-66 EWT(m)/EWA(h)

ACC NR: AP6001152

SOURCE CODE: UR/0367/65/002/003/0460/0465

AUTHOR: Nemilov, Yu. A.; Selitskiy, Yu. A.; Solov'yev, S. M.; Eysmont, V. P.

ORG: None

and of

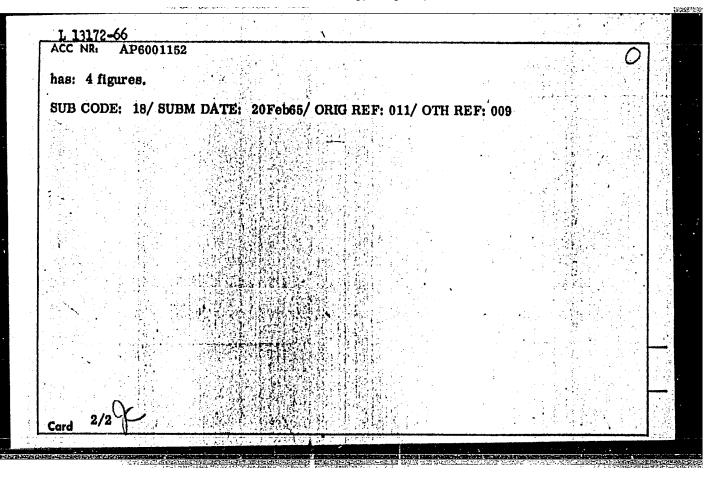
TITLE: The angular anisotropy of fission by sub-barrier deutrons

SOURCE: Yadernaya fizika, v. 2, no. 3, 1965, 460-465

TOPIC TAGS: nuclear fission, fission product, deutron bombardment, uranium, plutonium, angular distribution

ABSTRACT: This article presents the results of new measurements of the angular distribution of fission products for the fission of heavy nuclei by deutrons of various energies (below the Coulomb barrier). Specific details are given for U and Pu, and deutron energies between 5.7 and 12.1 Mev. It is found that the angular distributions are appreciably anisotropic and that the energy dependence of the anisotropy of the odd-even nuclear targets has certain significant features. For example, for Pu^{238} the anisotropy increases with a decrease in deutron energy, whereas for U^{236} it decreases and passes into the region of "negative" values of $(0^{\circ}) / (0^{\circ}) / ($ are interpreted as the result of the specific feature of the interaction of low-energy deutrons with heavy nuclei. In conclusion, the authors note that, given data more precise than that available at present, the results of the present work may be employed for the calculation of the moments of inertia at the saddle point for nuclei which differ from those studied earlier according to the nucleon composition and excitation energy. Orig. art. Card 1/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041232



37087-66 EWI(m) ACC NR: AP6016809	(N)	SOURCE CODE:	UR/0367/66/∞3/0	001/0065/0072
AUTHOR: Selitskiy, Yo	ı. A.; Solov'yev,	S. M.; Eysmont, V.	P•	36
ORG: none		19	-	\mathcal{B}
TITLE: Characteristic the kinetic energy of	es of the fission the fragments on	of Th ²³² by deuter the excitation ene	ons and the depe ergy of the fiss	endence of loning nuclei
SOURCE: Yadernaya fi:	zika, v. 3, no. 1,	1966, 65-72		
TOPIC TAGS: thorium, energy, excitation en		nuclear fission, d	leuteron reaction	n, kinetic
ABSTRACT: To obtain tribution of fission: a comparison of the professioned by 9 and 12 measured with previous 1965). Approximately deuteron energy. The fragment energies, and tributions for the kills obtained by others, as shells in fragments" (symmetrical and asymmetrical and	fragments on the eroperties of mass .1 Mev deuterons. sly described semi 10,000 fragment pressurements yield the dispersion of the dispersion of the analyzed from the measurement that the postulated	excitation energy, and kinetic-energy. The energies of pleonductor-detector pairs were register ded the fragment mof the determined mixed masses. The point of view of existence of two	the authors have distributions of apparatus (Yaffed for each values distributions dist	e undertaken of Th ²³² ragments were v. 1, 677, ue of the n, the average as the distribute with data "nuclear es of fission
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KUDRYASHOV, Nikolay Nikolayevich; EYSYMONT, L.O., red.; TUMANOVSKIY, R.F., tekhn. red.; GORINA, V.A., tekhn. red.

[How to shoot and project motion pictures; practical manual for amateur motion-picture photographers] Kak sammu sniat¹ i pokazat kinofil¹m; prakticheskoe rukovodstvo dlia kinoliubitelia.

[Izd.3., perer. i dop. Moskva, Gos. izd-vo "Iskusstvo," 1961.

319 p.

(Amateur motion pictures)

GOLDOVSKIY, Yevsey Mikhaylowich, prof.; ETSYMONT, L.O., red.; MALEK, Z.A., tekhn. red. [Principles of the wide-film cinematography]Printsipy shi-rokoformatnogo kinematografa. Moskva, Iskusstvo, 1962. 210 p. (MIRA 15:11) 210 p. (Motion pictures)

BURGOV, Vyacheslav Alekseyevich, prof., doktor tekhn. nauk;
EYSYMONT, L.O., red.

[Principles of television broadcasting of films] Osnovy
kinotelevizionnoi tekhniki. Moskva, Iskusstvo, 1964. 612 p.

(MIRA 18:10)

1. Zaveduyushchiy kafedro: zapisi i vosproizvedeniya signalov
Leningradskogo instituta kinolnzhenerov(for hurgov).

EYSMONT, V. V.

"Morphological composition of blood in epizootic lymphangitis of horses." Feport,
Veterinarlya, No. 11, 1949, pp 30-31
(1949 Letopis' Zhurnal'nykh Statey, No. 45, item 33394) Uncl

KONDYURIN, N.G.; EYSMUNT, V.V.

Mycotic infections of horses in Siberia. Voterinariia 35 no.5:121-122)

My '58.

1. Onskiy veterinarnyy institut.

(Onsk Province--Veterinary mycology)

(Horses--Diseases and peste)

BEL'KOV, N.F., dots.; MYSMORT, V.V., dots.; SHPRINBAKH, O.G., vetvrach. Animals with prolonged postvaccinal reaction as hosts for brucellosis. Veterinariia 36 no.12:26-29 D '59. 1. Omskiy veterinarnyy institut (for Bel'kov, Eysmont). 2. Omskaya oblastnaya vetbaklaboratoriya (for Shprinbakh). (Brucellosis in cattle)

EYSNER, Aleksey Vladimirovich; VINNIKOVA, G.E., red.; KRYUCHKINA,
L.P., teams, red.

[My sister Bulgaria; sketches] Sestra moia Bolgariia; ocherki.

Moskva, Sovetskii pisatel', 1963. 213 p. (MIRA 16:9)

(Bulgaria--Description and travel)

- F. F. EYSNER
- 2. USSR (600)
- 4. Cattle Breeding
- 7. Using bull sires of collective farm sections that produce for the market. Sots. zhiv. 15 no. 2. 1953.

9. Monthly List of Russian Accessions, Library of Congress, ___ April

COUNTRY CATEGORY , USSR

Farm Animals.

Q

Cattle.

ABS. JOUR.

RZhBiol., No. 6, 1959, No. 26823

AUTHOR

: Eysner, F. F.

INST. TITLE

: Increasing the Wilk's Fat Content in Cows.

ORIG. PUB.

: Sots. tvarinnitstvo, 1958, No 1, 26-31

ABSTRACT

: The most important measures for raising the milk's fat content in cows are the level of protein nutrition when raising heifers and feeding lactating and pregnant cows, crossing animals which descended from ancestors with a high fat content of milk, and evaluating the milk's fat content of sires according to their progeny. -- B. I. Kazachek

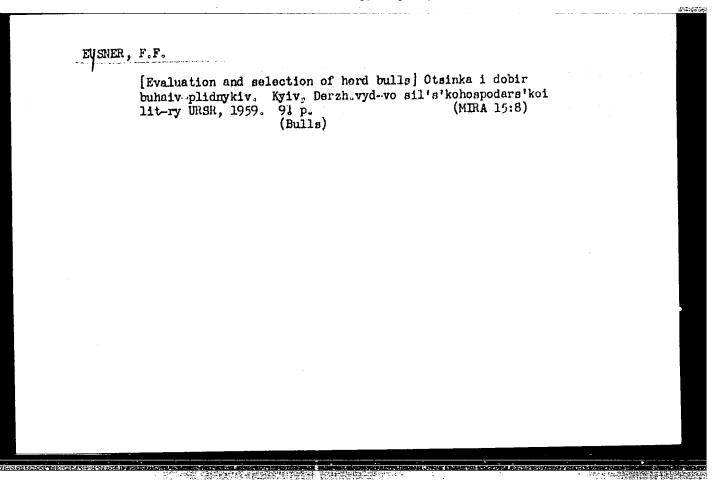
Card:

1/1

EYDRIGEVICH, Yevgeniy Vladislavovich [Bidryhevych, IE.V.], prof., doktor sel'skokhoz.nauk; EYSNER, F.F., kand.sel'skokhoz.nauk, glavnyy red.

[How breeds of farm animals are produced and improved] IAk stvoriuiut'sia ta udoskonaliuiut'sia prody sil's'kohospodars'kykh tvaryn. Kyiv, 1959. 39 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh snan' Ukrains'koi RSR. Ser.4, no.14) (MIRA 12:12)

(Stock and stockbreeding)



EYSNICK, F.F. SIDERESHEVSKAYA, TS.M.

Relation between the activity of the thyroid gland and milk productivity in cattle. Zhur.ob.biol. 20 no.3:194-201 My-Je '59. (MIRA 12:8)

1. Research Institute of Animal Breeding of the Forest Steppe and the Wooded Districts of the Ukrainian S.S.R., Kharkov.

(THYROID GLAND) (LACTATION) (COWS)

EYSHER, F.F., kand.sel'skokhozyaystvennykh nauk

Some problems in utilizing hoterosis in stockbreeding. Zhivotnovodstwo 21 no.6:32-36 Je '59. (MIRA 12:8)

1. Nauchno-issledovatel'skaya institut zhivotnovodstva lesostepi
i Poles'ya USSR.
(Heterosis) (Stock and stockbreeding)

Judging herd sires by their ancestry. Zhivotnovodstvo 21 no.8:45-51 Ag '59. (MIRA 12:11)

1. Nauchno-issledovatel'skiy institut shivotnovodstva lesostepi i Poles'ya Ukrainy. (Bulls) (Stockjudging)

ZORIN, Ivan Gerasimovich [Zorin, I.H.]; SMIRNOV, Igor' Vasil'yevich [Smyrnov, I.V.]; EYSNER, Fedor Fedorovich [Eisner, F.F.]; MAZUR, V.M., red.; MANOYLO, Z.T. [Manoilo, Z.T.], tekhn. red.

[Artificial insemination of livestock together with breeding principles] Shtuchne osimeninnia sil'skohospodars'kykh tvaryn z osnovamy pleminnoi spravy. Kyiv, Vyd-vo Ukrains'koi akademii sil'skohospodars'kykh nauk, 1960. 253 p. (MIRA 14:12)

1. Chlen-korrespondent Ukrainskoy akademii sel'skokhozyaystvennykh nauk (for Zorin). (Artificial insemination) (Stock and stock breeding)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000412320

工作的编辑的编辑等

EYSNER, F.F., kand.sel'skokhozyaystvennykh nauk

Methods for evaluating bull sires. Agrobiologiia no. 3:426-431 My-Je 161. (MIRA 14:5)

DANILENKO, I.A.; EYSNER, F.F., kand. sel'skokhozyaystvennykh nauk

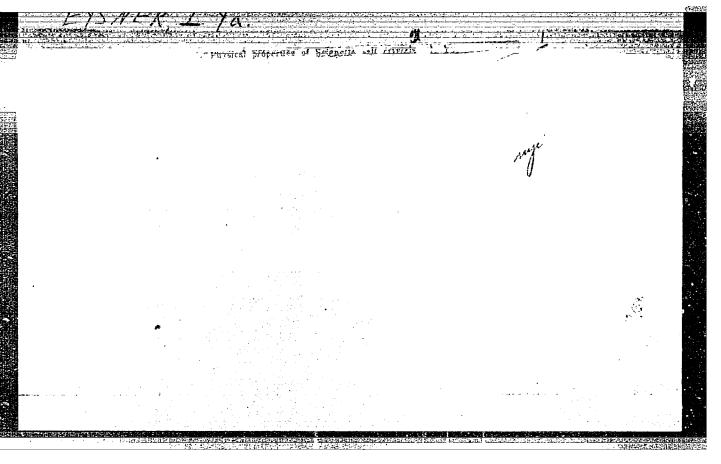
Experimental farm helps to solve the current problems of the development of animal husbandry. Zhivotnovodstvo 23 no.3:80-82 Mr '61. (MIRA 17:1)

1. Nauchno-issledovatel'skiy institut zhivotnovodstva lesostepi i Poles'ya UkrSSR. 2. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk i Ukrainskoy akademii sel'skokhozyaystvennykh nauk (for Danilenko).

Experiments with light. Fig.v shkole no.6:39-41 '53. (MIRA 6:10)

1. Gorod L'vov, Pedagogioheskiy institut. (Diffraction)

Experiments on electric discharges with 13 no.5:43-44 S-0 '53.	ncandescent lamps. Fiz.v shkole (MERA 6:8)	
1. Pedinstitut, L'vov.	(Electric discharges)	



EYS VEK, Z.YA

Category : USSR/Electricity - Dielectrics

G-2

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 1533

Author : Eysner, I.Ya.

Title : On Certain Physical Properties of Rochelle-Salt Crystals

Orig Pub : Izv. AN SSSR, ser. fiz., 1956, 20, No 2, 215-218

Abstract: The effect of impurities on the dielectric constant Z and on the dielectric

losses in Rochelle salt crystals is invertigated. The presence of B, Cu, Mo ions in Rochelle salt changes its habit and its electric properties. The temperature dependence of $\mathcal E$ is not changed by the impurities, but the Curie points T_C are shifted and decrease the region of spontaneous polarization. In the spontaneous-polarization region the maximum of t is reduced considerably compared with the maximum t of pure Rochelle salt. In the spontaneous-polarization region, the values of $\mathcal E$ and t and t vary more smoothly with increas-

ing electric field intensity compared with pure Rochelle salt.

Card : 1/1

70-2-19/24 AUTHOR: Eysner, I.Ya.

On certain changes in the dielectric properties of TTTLE: Rochelle salt on irradiation with X-rays. (O nekotorykh izmeneniyakh dielektricheskikh svoystv kristallov segnet-ovoy soli, obluchennykh rentgenovskimi luchami)

"Kristallografiya" (Crystallography), 1957, Vol.2, No.2, pp. 296-299 (U.S.S.R.) PERIODICAL:

X-cut plates of Rochelle salt were irradiated for ABSTRACT: 10-50 hours 5 cm from the window of a tube operating with an Fe target at 30 kV and 10 mA. The curves of dielectric constant against temperature over the range -20 to +30 C were normal in shape but the d.c. was reduced uniformly to 40% for the specimen irradiated for 40 hours and pro rata for the others. Tests were made at 50 c/s at 20 V/cm field. At 1 000 V/cm some field dependence was found. Tests at 1/2-5 Mc/s showed little difference between irradiated and unirradiated specimens indicating that radiation affects only the slow-acting mechanism of polarisation. Estimates of coercivity of specimens irradiated for 15 hours made from hysteresis loops were about 60 V/cm and the residual polarisation was 54 CGS units at the maximum reached at 8 C in the range -16 to 26 C.

Card 1/2

On certain changes in the dielectric properties of Rochelle salt on irradiation with X-rays. (Cont.)

There are 2 figures and 4 references, 3 of which are Slavic.

ASSOCIATION: Lvov Pedagogical Institute (L'vovskiy Pedagogicheskiy

Card 2/2

Institut)

SUBMITTED:

February 1, 1957.

AVAILABLE:

Library of Congress

Eysman, I Ym

SUBJECT:

USSR/Luminescence

48-3-6/26

AUTHOR:

Eyener I.Ya.

TITLE:

On Some Peculiarities in Dielectric Hysteresis of the Seignette's Salt (O nekotorykh osobennostyakh dielektricheskogo gisterezisa

segnetovoy soli)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya fizicheskaya, 1957, Vol 21, #3, pp 334-339 (USSR)

ABSTRACTS:

The phenomenon of dielectric hysteresis of the Seignette's salt with admixtures has been investigated by means of a cathode oscillograph according to a method developed by Sawyer and Tower (1).

Conclusions to be drawn from these investigations are as follows:

1. Crystals of Seignette's salt containing admixtures of Mo, B or Cu, which were investigated in alternate current at a frequency of 50 c/s and intensities of the order of 700 v/cm, show dielectric hysteresis but their loops differ from those of pure Seignette's salt crystalls.

Card 1/3

TITLE:

48-3-6/26
On Some Peculiarities in Dielectric Hysteresis of the Seignette's Salt (O nekotorykh osobennostyakh dielektricheskogo gisterezisa segnetovoy soli)

- 2. Crystals of Seignette's salt grown out of its solution in the presence of ammonium molybdate show only slight dielectric losses in strong electric fields. A non-linear dependence of polarization on electric field intensity is observed between the Curie points.
- 3. Crystals of Seignette's salt with a B-admixture grown out of a saturated solution show anomalous hysteresis loops, narrowed down in the region of low intensities of the electric field. This loop deformation can be interpreted as a result of inhibiting the process of domain re-orientation by the admixtures.
- 4. Crystals of Seignette's salt with a Cu admixture show a strong anomaly of dielectric hysteresis loop, where polarization at first is a linear function of intensity, and only beyond a certain value of field intensity does the hysteresis loop arise.
- 5. The dependence of dielectric permittivity of Seignette's salt crystals with admixtures of Mo, B and Cu on temperature in strong electric fields was determined by hysteresis loops.

Card 2/3

Characteristics of the growth of Seignette salt monocrystals from admixed solutions. Min.shor. no.11:329-334 *57. (NIRA 13:2)	
1. Pedagogicheskiy institut, Livov. (Postassium sodium tartrate crystals)	

EYSNER, I.Ya., Cand Phys-Math Sci -- (diss) "On certain for the dielectric properties of monocrystals of Seignette's salt." L'vov, 1958. 11 pp with graphs. (Min of Higher Education UkSSR. L'vov State U im lvan Franko.) 150 copies. (KL, 12-58, 96)

-17-

EY	SNER, I. Ya.	
	Luminescence analysis of Transcarpathian carpathite and	
	curtisite. Min.sbor. no.14:369-371 160. (MIRA 15:2)	
	 Pedagogicheskiy institut, L'vov. (Transcarpathia—Carpathite) (Transcarpathia—Curtisite) 	

85870

24,7700 (1043,1143) 9,2180 (3203,1162)

S/048/60/024/011/006/036 B006/B056

AUTHOR:

Eysner, I. Ya.

TITLE:

Some Electrical Characteristics of Ammonium Dihydro-

phosphate Monocrystals

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 11, pp. 1326 - 1328

TEXT: The present paper is a reproduction of a lecture delivered on the 3rd Conference on Ferroelectricity, which took place in Moscow from January 25 to 30, 1960. Investigations of the £(t)-curves of ammonium dihydrophosphate (ADP) have a limit at -125°C because of the destruction of the ADP crystal. Some data concerning the changes occurring in ADP at critical temperature may be obtained by investigating the transparency of the crystals. The author arranged an ADP monocrystal between a photoelement and a source of white light in a cryogenic device and measured the photocurrent while the crystal was cooled from 0 to -180°C. At -125°C the transparency (measured by I/I', the ratio of the photocurrent without and with ADP) changed very abruptly from 0.85 to 0.05

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Card 1/2

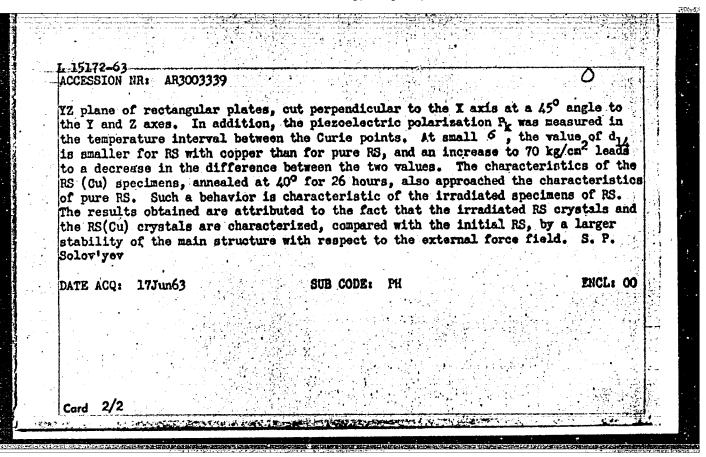
85870

Some Electrical Characteristics of Ammonium S/048/60/024/011/006/036 Dihydrophosphate Monocrystals B006/B056

(Fig.1). This is explained by a phase transition from the tetragonal to the orthorhombic modification. The author measured ε and tan δ at 50 cps in fields of 3000-10,000 v/cm in the axes X, Y, and Z in pure ADP monocrystals. The measured results are discussed and partly illustrated; Fig.2 shows $\mathcal{E}_{\mathbf{X}}(t)$, Fig.3 shows $\mathcal{E}_{\mathbf{Z}}(t)$. $\mathcal{E}_{\mathbf{X}}$ and $\mathcal{E}_{\mathbf{Z}}$ at first grow monotonically when cooled and attain 97 and 35, respectively. At -125°C they drop to 15 and 12, respectively, and continue to fall with further cooling (to 9-10). The crystals showed a temperature hysteresis, i.e. when heated, the abrupt rise of & began later, without, however, attaining the original value during this rise. Further heating was followed by a monotonic decrease of £. tan & decreased quickly from 0.2 at room temperature to 0.001-0.0001 at temperatures below zero, which is explained by a rapid decrease of the impurity conductivity. An investigation of artificially impurified ADP crystals shows that the latter, while influencing the ε and tan δ values, do not influence the position of the phase transformation temperature. The X-ray examinations for this paper were made by I. V. Kavich of the kafedra kristallografii L'vovskogo universiteta (Chair of Crystallography of L'vov University). There are 3 figures and 6 references: 1 Soviet, 3 US, and 2 Swiss.

Card 2/2

MT(1)/EMP(q)/EMT(m)/BDS/ES(s)-2 Pt-1 JD/IJP(C) AFFTC/ASD/ESD-3/SSD ACCESSION NR: AR3003339 S/0058/63/000/005/E066/E066 SOURCE: RZh. Fizika, Abs. 5E415 AUTHOR: Eysner, Y. Ya. TITLE: Plezoelectric effect in single crystal of Rochelle salt with anomalous:dielectric hysteresis loop CITED SOURCE: Nauk. zap. Drohobyts'k. derzh. ped. in-t, vy*p. 8, 1962, 24-30 TOPIC TAGS: piezoelectric effect, Rochelle salt, single crystal, anomalous dielectric hysteresis, copper additive, x-irradiation TRANSLATION: The direct piezo-effect in single crystals of Rochelle salt (RS) to which copper ions were added was investigated, and also the effect after irradiation for 30 hours by Fe-radiation from a BSV X-ray tube. The RS crystals were grown from an aqueous solution to which 2 per cent of copper acetate was added. The objects of the investigation were X-cut samples, cut from a growth pyramid of the (21) (210) face, characterized by the largest amount of intruded copper. The piezoelectric modulus d1/ was measured by a static method in the temperature interval from -20 to 30°C at compression stresses of 3-8 and 50-80 kg/cm2, applied to the Card



EYSNER, I.Ya.

Further on the domain structure of Rochelle salt single crystals.

Kristallografiia 9 no.1:111-113 Ja-F '64. (MIRA 17:3)

1. Drogobychskiy pedagogicheskiy institut im. Iv. Franko.

EWT(1)/EWT(n)/EPA(s)-2/EPF(c)/EPF(n)-2 IJP(c) <u>L 7822-66</u> GG: ACC NR: AP5028109 SOURCE CODE: UR/0048/65/029/011/2014/2016 AUTHOR: Eysner, I.Ya. F 48 15 ORG: Drogobych Pedagogical Institute im. Ivan Franko (Drogobychskiy pedagogicheskiy TITLE: Some electronic effects in Rochelle salt crystals Report, Fourth All-Union Conference on Ferro-electricity held at Rostov-on-the Don 12-16 September 19647 44 35 SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29,no. 11, 1965, 2014-2016 21 44,55 TOPIC TAGS: ferroelectric crystal, single crystal, gamma irradiation, IR absorption, electric conductivity, electron emission ABSTRACT: The author has measured the infrared absorption, the electric conductivity, and the excelectron emission of 22 x 25 x 0.13 mm3 y-irradiated X-cut Rochelle salt crystal plates. The crystals were dosed with 2 to 4 Mr of - radiation at the rate of 0.45 Mr/hour. The irradiation increased the general infrared absorption of the crystal and produced a very prominent absorption peak at 2.4µ. The increased absorption is ascribed to radiation defects and an impurity activation energy of 0.5 eV was calculated from the 2.4 m peak. The irradiation increased the electric conductivity with time, observed in unirradiated crystals by the technique described by V.M.Gurevich, I.S.Rez, and I.S. Zheludev (Fiz. tverdogo tela, 2, No. 4, 673, 691 (1960)), was not found in the **Card** 1/2

ACC NR: AP5028109 irradiated materials. The conductivity of an irradiated crystal increased with increasing temperature from 4.7 x 10-12 mho/cm at 23°C to 5.5 x 10-12 mho/cm at 45°C. Excoloctron emission from irradiated crystals was observed with a Goiger-Muller counter and an extinction curve is presented. The large scattering of the experimental points, however, indicates that the extinction rate of excelectron emission is not a characteristic parameter of the investigated specimens. No change of emission intensity under mechanical stress could be found. Orig. art. has: 4 figures. SUB CODE: SS,EM,OP SUEM DATE: DO/ ORIG. REF: 007 OTH REF: 002

EYSSELT, M.

Normal growth of Walker's tumor; a statistical and graphic demonstration of the normal growth of tumors. p. 57

CESKOSLOVENSKA BIOLOGIE, Vol. 4, No. 1, Jan. 1955

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

EYSSELT, Milos

Changes in the electrophoretic data after iodation of the serum proteins. Scr. med. fac. med. Brumen. 35 no.1/2:11-18 162.

1. Katedra patologicke fysiologie -- oddel. nuklearni mediciny lekarske fakulty university J.E. Purkyne v Brne.

(ELECTROPHORESIS) (BLOOD PROTEINS chem)

(IODINE radioactive)

学的主义的 医皮肤 经收益

EYSSELT, M.; DOHNALEK, J.

Economic method of decontamination of clothes after contamination with Ra²²⁶ and its disintegration products. Cesk. hyg. 8 no.5: 273-277 Je ¹63.

1. Katedra radiologie a nuklearni nediciny lekarske fakulty
UJEVP, Brno.

(CLOTHING) (TEXTILES) (RADIUM)

(RADIATION PROTECTION) (DECONTAMINATION)

(CITRATES) (EDATHAMIL)

EYSSELT, Milos

Our experiences with preparation of labelled o-iodohippuric acid. Scr. med. fac. med. Brunensis 36 no.7:313-322 *63.

1. Katedra radiologie a nuklearni mediciny lekarske fakulty University J.E.Purkyne v Brne. Prednosta Prof. MUDr. Jiri Holy, DrSc.

EYESELT, Milon Lateling of o-iodobenzcic acid with radioiodine. Ser. med. fac. med. Brunensis 38 no.4:173-179 '65. 1. Katedra radiologie a muklearni mediciny lekarske fakulty University J.E. Purkyne v Brne (produosta prof. MiDr. Jiri Holy, DrSc.).

CZECHOSLOVAKIA

DOHNALEK, J.; EYSSELT, M.; MARTINEK, K.; POLASKOVA, A.

1. Dept. of Radiology and Nuclear Medicine, Paculty of Medicine, Purkyne Univ. (Katedra radiologie a nuklearniho lekarstvi lekarske fakulty UJEP), Brno (for ?); 2. Third Internal Clinic, Faculty Hospital (III vnitrni klinika Pakultni nemocnice), Purkyne Univ., Brno (for ?)

Brno, Vnitrni lekarstvi, No 11, November 1966, pp 1056-1060

"Detoxication of o-iodbensoic acid-131 in some hepatic and renal diseases."