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CIA-RDP86-00513R001857810014-6"

Uchevakin, I.F.

48-7-14/21

AUTHORS: Uchevakin, I.F., Shestopalova, S.A.
TITLE: New Lines in the Spectrum of RaC (O novykh liniyakh v spektre RaC)
PERIODICAL: Izvestiya Akad. Nauk SSSR, Ser. Fiz., 1957, Vol. 21, Nr 7,
pp. 1002 - 1003 (USSR)
ABSTRACT: In the article by Dzhelepov and Shestopalova it was pointed out
that behind the RaC γ -line of 2450 keV approximately to the
energy of 2700 keV a coincidence was observed which surpasses
the background and which could not be explained by the influence
of a neighbor line. The authors decided to investigate this
section of the spectrum on the "electron" under the conditions
of increased light intensity. The cellophane target was replaced
by one of beryllium of 330μ thickness and the slots in front
of the counters were enlarged to double of their former height
and width (as compared to the standard dimensions). This increas-
ed the luminosity 30-fold and decreased the dissolving power
2,2-fold. For the purpose of studying the form of the spectral
line of the device under this conditions the γ -lines 2614 keV
of ThC" and 2758 keV of Na²⁴ were carefully investigated. In the
investigation of the RaC spectrum behind the line 2450 keV a

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New Lines in the Spectrum of RaC

systematic considerable surpassing of the effect over the background up to the energy of 3200 keV was discovered; in this range of the spectrum the background amounted to $\sim 10\%$ of the effect. A decrease in the background was obtained by replacing the lead collimator by one of tungsten filled in with lead, where an amplifier with $T \sim 10^{-6}$ sec. was used. The measurement results of the RaC spectrum are given on the figure and explained in detail. There are 1 figure and 4 references.

ASSOCIATION: All-Union Scientific Research Institute for Metrology imeni D.I. Mendeleyev
(Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii imeni D.I. Mendeleyeva)

AVAILABLE: Library of Congress

Card 2/2

Uchevakin, I.
DZHELEPOV, B., SHESTOPALOVA, S. and UCHEVATKIN, I.

"On the 2450-3400 keV Region of the RaC Gamma Spectrum," Nuclear Physics,
Vol. 5, No. 3, Feb 1958. North Holland Publ. Co., Amsterdam.

D.I. Mendeleyev Research Inst. of Metrology, Leningrad.

Abst: Five new RaC γ -lines are reported of higher energy than those known
heretofore.

UCHEVATKIN, I. F.
DZHELEPOV, B. S. and ZHUKOVSKIY, N. N. (V. G. Khlopin Radium Institute, USSR Acad.
Sci. Leningrad) SHESTOPALOVA, S. A. and UCHEVATKIN, I. F. (D. I. Mendeleyev
Research Institute of Metrology, Leningrad.)

"Gamma-Ray Spectrum of Radium in Equilibrium with its Decay Products," Nuclear Physics, v. 83 (1958) (North-Holland Publishing Co., Amsterdam) pp. 250-264.

Abstract: Results are described of an investigation of the radium gamma-spectrum in equilibrium with its decay products, based on recoil electron measurements in the energy range 150-2530 keV. Forty-four gamma-lines have been observed, and ~~XXX~~ their relative intensities and the number of quanta per disintegration determined.

SOV/48-22-7-17/26

AUTHORS: Dzhelepov, B. S., Zhukovskiy, N. N., Uchevatin, I. F.
Shestopalova, S. A.

TITLE: New Data on the Relative Intensities of the γ -Lines of Ra
in Equilibrium With Its Decay Products (Novyye dannyye ob
otnositel'nykh intensivnostyakh γ -liniy Ra, nakhodyashchegosya
v ravnoesii s produktami raspada)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya fizicheskaya, 1958,
Vol. 22, Nr 7, pp. 841-847 (USSR)

ABSTRACT: In order to examine and precise the data from reference 1
on the relative intensities in the spectrum of the γ -radiation of radium C this spectrum was again investigated in the
"elotron" of the Radium Institute (Ref 2). 2 grams of radium
in the compound RaBr_2 served as a source of γ -radiation. The shape of the source was identical with that one used
in reference 1. The results are as follows: 1) Range from
 ~ 150 to 630 keV; This section of the spectrum up to the line
at 609 keV was investigated for the first time by means of
the recoil electrons. Apart from the well known lines of
radium B at 241,9, 295,2 and 352,0 keV a pronounced excess

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SOV/48-22-7-17/26

New Data on the Relative Intensities of the γ -Lines of Ra in Equilibrium
With Its Decay Products

of recoil electrons was observed near the line at 295,5 keV. The decomposition showed that the excess maximum is located at 285 keV. Between the intensive lines at 352 and 609 keV a number of less intensive γ -lines is found. It seems as if some of them correspond with not identified lines from reference 3, that is to say with Nr 68, 70, 77, 78 and 79. If these lines are considered to be K-conversion electrons of radium C, energy values of 386,8, 388,9, 466,7, 471,2 and 484,6 keV are obtained.

2) Range from 630 to 1810 keV: The line at 666 ± 7 keV is clearly visible, the lines at 703,2 and 721 ± 7 keV appear. The line at 652,4 keV was not found. Apart from the line at 768,7 keV three lines exist in the high energy range: 787,1, 806,3 and 837 ± 8 keV. The following new γ -lines were found: 885 ± 10 , 960 ± 5 and 1050 ± 10 keV. The line at 1541 ± 5 keV was clearly marked. A noticeable broadening of the line at 1764,4 keV and the existence of the lines at 1783,8 and 1790,7 keV (Ref 1) was not ascertained.

3) Range from 1780 to 2530 keV: Apart from the known

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New Data on the Relative Intensities of the γ -Lines of Ra in Equilibrium
With Its Decay Products

1848,5 keV-line an electron excess with a maximum near 1860 keV was discovered. This excess can be explained by the presence of the 1862,3 keV line (Ref 1). The existence of the 1900 keV line (Ref 1) was proved. An excess of recoil electrons exists in the range of 2016,7 and 2090 keV. Their intensity is smaller by about a factor of 3 than that given in reference 1.

For the purpose of determining the relative intensities the area of each component, reduced to equal H_Q intervals, was measured. Then corrections were added. The corrections took into account the efficiency of the counters for electrons of different energies, the self-absorption in the source, the wall absorption, and the spectral sensitivity of the apparatus. It was assumed that the intensity of the lines is proportional to these areas. The results show a good agreement. The intensity of the individual strong lines agree within limits of 7 - 10 %. The Graduate students F. A. Predovskiy (LPI) and N . A. Voinova (LGU) assisted in the measurements. There are 4 figures, 1 table, and 6 ref-

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New Data on the Relative Intensities of the γ -Lines of Ra in Equilibrium
With Its Decay Products

SOV/48-22-7-17/26

erences, 2 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii
im. D. I. Mendeleyeva
(All Union Scientific Research Institute of Metrology imeni
D. I. Mendeleyev)
Radiyevyy institut im. V. G. Khlopina Akademii nauk SSSR
(Radium Institute imeni V. G. Khlopin, AS USSR)

Card 4/4

UCHENIYA [KIN, I. F.]

24(5)-24(7)
REFERENCES:

Dubolegov, I. S., Yerof'yev, N. A.,
Pechovskiy, Yu. I., Polyakova, V. N., Gerasimov, I. P.,
Shestopalov, G. I.

On the Hard Part of the γ -Spectrum of Radium Found in the Radiation Products of the Decay (by 5100-5000 kev)
(Osnovnye chasty γ -spektra radiya, nabitoyashchegaya v
ravnenii proizvodstva rasploda (by 5100-5000 kev))

Izdatel'stvo Akademii Nauk SSSR. Seriya fizicheskaya, 1959,
vol. 23, no. 7, pp. 83-84 (TZhF).

ABSTRACT:

At the beginning, the transitions $^{24}C \rightarrow ^{24}Ca'$, and further the transition $^{24}Ca' \rightarrow ^{24}Ca$, are indicated as the fundamental cause of the hard radiation, and figure 1 shows a branching of the radioactive series of the radium family. The energy levels of these transitions are indicated, and a number of previous papers are indicated. In the present paper, a spectrometer of the MIFI type was used for investigating the hard γ -ray. Two series of measurements were carried out. In the first series, the range of from 3,070 kev to 5,000 kev was investigated. The results of these measurements are shown in diagram (Fig. 2). In the second series, the range of from

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3,000 kev to 5,000 kev was investigated. The results were compiled in a diagram (Fig. 3). The line with $E = 5,070$ kev was specifically not measured in the first series, and was definitely not measured in the second series. The diagrams show the existence of γ -lines with the energy of about 3,000-3,200 kev. The second diagram also shows an increase in the intensity of the transition $^{24}Ca' \rightarrow ^{24}Ca$ as the energy of the electron source increases. The transitions $^{24}Ca \rightarrow ^{24}Ca'$ and $^{24}Ca' \rightarrow ^{24}Ca$ are indicated for both values with the energy of about 3,000 kev, and finally it is ascertained that lines with an energy of more than 3,000 kev could not be detected. The authors thank O. V. Chubarova for the supply of experimental data. There are 3 figures and 9 references, 5 of which are serial.

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Temporary Research-Institute Institute of Applied Physics
D. K. Mandelyeva (All-Union Scientific Research Institute
of Metallurgy) and D. K. Mandelyeva, Leninskaya 46, Uni-
versity is. A. A. Shilov (Leningrad State University isenit
A. A. Shilov)

Card 3/3

21 (8)

AUTHORS: Dzhelepov, B. S., Yahayatkin, I. E., SOV/56-37-3-44/62
Shestopalova, S. A.

TITLE: $0^+ - 0^+$ -Transition in the Decay $\text{Pr}^{140} \rightarrow \text{Ce}^{140}$

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,
Vol 37, Nr 3(9), pp 857 - 859 (USSR)

ABSTRACT: In an earlier paper it has already been stated that the Ce^{140} -nucleus has an excited state of the type 0^+ with an excitation energy of 1902 kev. This state occurs in La^{140} -decay. The ground state and the excited states of Ce^{140} may occur also in electron capture and in the β^+ -decay of Pr^{140} . Figure 1 shows the scheme of the possible transitions to the lower excited states of Ce^{140} . In the present "Letter to the Editor" the authors endeavor to show that the 1902 kev level of Ce^{140} is not excited by the decay of Pr^{140} ; as the ground state of Pr^{140} is of the type 1^+ , it may be expected that this state occurs in the case of permitted β -decays and in electron cap-

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$0^+ - 0^+$ -Transition in the Decay $\text{Pr}^{140} \rightarrow \text{Ce}^{140}$

SOV/56-37-3-44/62

ture. For this purpose, an $\text{Nd}^{140} + \text{Pr}^{140}$ preparation in equilibrium was investigated in a β -spectrometer with triple focusing. The counters were filled with argon + 15% alcohol (pressure 100 torr). Figure 2a shows the K conversion line (1902 kev) and figure 2b - the Curie diagram for the end of the β -spectrum of Pr^{140} . The results obtained are supplemented by those obtained by other authors (Refs 4-7). The ratio e^-/β^+ was determined as being 0.2%. The number of e^- (1902) is determined in consideration of the fact that K- and L-captures in the case of the permitted decay to the ground state amount to about 47%. Herefrom the number of conversion electrons is determined as amounting to 0.1% per decay. Thus, the $\text{Ce}^{140}(0^+)$ 1902 kev level is far more frequently excited in the decay of Pr^{140} than in the decay of La^{140} (according to references 1,7: 0.013%). Actually, the Ce^{140} 1902 kev level occurs both in e^- -capture and in the β^+ -decay of Pr^{140} . $ft = 2:10^6$ is found

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$0^+ - 0^+$ -Transition in the Decay $\text{Pr}^{140} \rightarrow \text{Ce}^{140}$

SOV/56-37-3-44/62

for permitted transitions. There are 2 figures and 7 references,
6 of which are Soviet.

ASSOCIATION: Vsesoyuznyy institut metrologii (All-Union Metrology Institute)

SUBMITTED: May 16, 1959

Card 3/3

DZHELEPOV, B.S.; UCHEVATKIN, I.F.; SHESTOPALOVA, S.A.

Spectrum of conversion electrons of neutron deficient isotopes of
lutetium in the energy region of 1000-3500 kev. Izv. AN SSSR Ser.
fiz. 24 no.7:802-806 Jl '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii imeni
D.I. Mendeleyeva.
(Lutecium--Isotopes)

DZHELEPOV, B.S.; VOYKHANSKIY, M.Ye.; MEDVEDEV, A.I.; UCHEVATKIN, I.F.

On the nature of the 531.8 Kev. level of Er¹⁶⁷.
Dokl. AN SSSR 146 no.4:789-792 0 '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut
metrologii im. D.I. Mendeleyeva. 2. Chlen-korrespondent
AN SSSR (for Dzheleпов).
(Erbium)
(Quantum theory)

34167

S/048/62/026/002/001/032
B104/B102

24.6.200

AUTHORS: Izhelepo^v, B. S., Medvedev, A. I., Ucheyatkin, I. F., and Shestopalova, S. A.

TITLE: Spectrum of conversion electrons of the lutecium fraction with energies exceeding 1000 kev

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 2, 1962, 162-181

TEXT: The lutecium fraction was separated from a Ta target irradiated with 660-Mev protons for 2-4 hr. A new β -spectrometer with double focusing was used to study the spectrum in the 1020-3200 kev interval. Owing to the finite source thickness, the line half-widths were found to range between 0.22 and 0.29%. Lines of Lu¹⁶⁹ (34 hr), Lu¹⁷⁰ (2 days), Lu¹⁷² (6.7 days), and Lu¹⁷⁴ were detected. The decay energies of the isotopes Yb¹⁶⁹, Lu¹⁷¹, and Lu¹⁷⁴, contained in the preparation, were smaller than 1 Mev. The energies of lines were determined with the aid of

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31167

S/048/62/026/002/001/032

B104/B102

Spectrum of conversion ...

the known lines of Lu¹⁷² (K909.9, K and L 1095) and Lu¹⁷⁰ (K1453.3, K1483.0, and K2039.0). The error of energy determinations lies between 0.3 and 0.2%. The Lu¹⁷² spectrum (Table 1) was studied in the 1020-1970 kev interval, 22-25 days after separation. After this period, the activity of Lu¹⁷⁰ had practically vanished. Two days after separation, the spectrum of Lu¹⁶⁹ + Lu¹⁷⁰ was measured in the 1040-3200 kev interval through a period of six or seven days. The broad maximum between the known lines K1452 and K1481 is ascribed to transitions possessing energies of 1465 and 1469 kev. The very broad maximum between the two known L lines of the 1452 and 1481 kev transitions is ascribed to K lines of weak transitions with 1515.0 and 1517.4 kev. A new conversion line with an electron energy of 1550 kev is considered to be a K conversion line of 1611 kev transition. Other newly detected lines are: K1636, K1660, K1680, K1692, and K1709. The K1860 line is attributed to Lu¹⁶⁹. Nine very intense lines of Lu¹⁷⁰ have been detected which belong to transitions

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Spectrum of conversion ...

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of 2655, 2684, 2700, 2740, 2775, 2836, 2872, 2930, and 2955 kev. Z. Playner et al. (Materialy III Soveshchaniya po neytronodefitsitnym izotopam, 1, 23, 32, Dubna, 1960) is mentioned. The authors thank the Board of Directors of the OIYaI and K. Ya. Gromov for supplying the sources, I. A. Pavlova, K. M. Shperling, V. D. Vitman, and A. A. Karan for assistance with measurements. There are 17 figures, 3 tables, and 11 references: Soviet and 5 non-Soviet. The four most recent references to English-language publications read as follows: Harmatz B., Handley T. H., Mihelich J. W., Phys. Rev., 119, 1345 (1960); Mihelich J. W., Harmatz B., Handley T. H., Phys. Rev., 123, 1758 (1961); Wilson R., Pool M., Phys. Rev., 119, 1067 (1960); Harmatz B., Handley T., Mihelich J., Phys. Rev., 114, 1082 (1959). X

Table 1. Conversion electrons of Lu¹⁷². Legend: (1) Consecutive number; (2) present paper; (3) conversion electron energy, kev; (4) relative intensity; (5) identification; (6) energy in kev.

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S/C56/62/043/006/008/067
B184/B102

AUTHORS: Balalayev, V. A., Dzhelepov, B. S., Medvedev, A. I.,
Meshter, A., Uchevatkin, I. F.

TITLE: Refinement of the information on the $0^+ \rightarrow 0^+$ transition
in Ce^{140}

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43,
no. 6(12), 1962, 2019-2020

TEXT: The Pr^{140} conversion electron spectrum was measured with a high-resolution β -spectrometer. As a result, more accurate data on the $0^+ \rightarrow 0^+$ transition in Ce^{140} were obtained: energy: 1902 ± 3 kev, $(K/L)_{1902} = 7.40 \pm 0.34$. These values are well consistent with those obtained in earlier measurements and with the theoretical results. $MIL = 0.27 \pm 0.03$; $(K+L+M)_{1597/\beta^+} \sim 1\%$; $(K+L+M)_{1902/\beta^+} \sim 0.1\%$. There are 1 figure and 1 table.

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Refinement of the information...

S/056/62/043/006/008/C67
B184/B102

ASSOCIATION: Vsesoyuznyy institut metrologii (All-Union Institute of Metrology)

SUBMITTED: June 30, 1961

Card 2/2

ACCESSION NR: AR4032163

S/0058/64/000/002/A029/A029

SOURCE: Ref. zh. Fiz., Abs. 2A268

AUTHOR: Uchevatkin, I. F.

TITLE: Magnetic Beta spectrometer with double focusing at 180 degrees

CITED SOURCE: Tr. in-tov Kom-ta standartov, mer i izmerit. priborov pri Sov. Min. SSSR, vy*p. 69 (129), 1962, 95-107

TOPIC TAGS: Beta spectrometer, magnetic Beta spectrometer, double focusing Beta spectrometer, 180 degree spectrometer, low background spectrometer

TRANSLATION: A magnetic β spectrometer with double focusing of the electron beam at 180° has been constructed. The magnetic field has been produced by an electromagnet with pole-piece area 320×320 mm

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ACCESSION NR: AR4032163

and a gap of 143 mm between the poles. The electron beam from the source is focused, after being turned through 180°, onto the first slot, behind which a thin-wall gas-discharge counter is located, and then makes another 180° turn and is focused again on a slot, behind which two other counters are located. All the counters are connected for coincidence. The radius of curvature of the trajectory between the first and second foci is approximately half the radius between the source and the first slot, this being accomplished by locally decreasing the gap between the magnet poles with the aid of iron shims. The transmission of the instrument is determined experimentally. It is established that approximately 0.2% of the total electrons of given energy pass through the first slot, and upon registration of the triple coincidences the transmission amounts to 0.1%; the corresponding resolution is 0.75%. With the transmission reduced to 0.05%, a resolution of 0.5% was obtained on the conversion line of ThB with $E_{\gamma} = 2614.4$ kV for a 0.5 x 14 mm source. The

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ACCESSION NR: AR4032163

main advantages of the new instrument is the low background. Approximately one coincidence was obtained in five hours from a Cs¹³⁷ source of activity 60 μCi at zero magnetic field. This property of the spectrometer makes it possible to use it to investigate low-intensity hard conversion electrons, spectra accompanying the intense positron radiation, etc.

DATE ACQ: 31Mar64

SUB CODE: PH, SD

ENCL: 00

Card 3/3

BALALAYEV, V.A.; DZHELEPOV, B.S.; MEDVEDEV, A.I.; UCHEVATKIN, I.F.

Conversion electrons emitted by Lu¹⁷³,¹⁷⁴ in the energy range
540-1450 Kev. Izv.AN SSSR.Ser.fiz. 27 no.2:200-203 F '63.
(MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im.
D.I.Mendeleyeva.

(Internal conversion (Nuclear physics))
(Lutetium isotopes)

S/046/63/027/002/007/023
B104/B180

AUTHORS: Dzhelepov, B. S., Medvedev, A. I., Uchevatkin, I. F.,
and Shestopalova, S. A.

TITLE: The conversion electron spectrum of the cerium fraction

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,
v. 27, no. 2, 1963, 204-210

TEXT: The conversion electron spectrum of 12 quite thin samples of the first cerium fraction was investigated in the energy range 210-1000 kev by means of a double focusing magnetic β -spectrometer (180°). Most of the 42-lines of the complicated spectrum (Table 1) could be identified by measuring their intensity decay period. The half-life of Ce^{135} is 17.0 ± 0.2 hours. There are 6 figures and 2 tables.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut
metrologii im. D. I. Mendeleyeva (All-Union
Scientific Research Institute of Metrology imeni
D. I. Mendeleyev)

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S/048/63/027/002/007/023

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The conversion electron ...

Table 1. Energies and relative intensities of the conversion electrons.
 Legend: (2) E_e , kev; (3) Relative intensities; (4) $T_{1/2}$, hours;

(5) Identification; (6) Isotope.

1	2	3	4	5	6
1	199	6±1	—	L205	Ce ¹²⁶
2	212,8*	100	35±2	K252	Ce ¹²⁷
3	226,1*	400	17±1	K265	Ce ¹²³
4	247	36,7 ±1,5	—	L252	Ce ¹²⁷
5	252	12,1 ±0,7	—	M252	Ce ¹²⁷
6	259	11,9 ±1,5	—	L265	Ce ¹²⁵
7	260	39 ±2	—	K299	Ce ¹²³
8	264	3,4 ±0,4	—	M265	Ce ¹²⁶
9	293	7,6 ±0,5	16,5±1,0	L290	Ce ¹²⁵
10	298	2,2 ±0,2	—	M299	Ce ¹²⁶
11	340	2,00±0,15	16±2	K379	Ce ¹²⁵
12	347	—	20±1	K386	?
13	358	0,90±0,08	16,5±1,5	K397	Ce ¹²⁶
14	(364)	—	—	?	?
15	373	0,6 ±0,2	—	L370	Ce ¹²⁵
16	380	—	—	L386	?
17	391	0,4 ±0,2	—	I397	Ce ¹²⁵
18	(400)	—	—	???	?
19	407	0,6 ±0,2	Сложный 8-30	K446	Ce ¹²⁷

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The conversion electron ...

1	2	3	4	5	6
20	(414)	—	—	?	?
21	(420)	—	—	?	?
22	(427)	—	—	?	?
23	(435)	—	24±1	K481	?
24	443	—	18±1	K517	Ce ¹³⁴
25	478	7,2 ±0,4	—	L517	Ce ¹³⁴
26	511	1,2 ±0,2	—	K571	Ce ¹³⁵
27	532	4,8 ±0,5	17,0±0,8	K576	Ce ¹³⁵
28	537	2,4 ±0,3	—	K604,65	La ¹³⁴
29	567,24*	100	Сложный	K606	Ce ¹³⁵
30	567	8,6 ±1,0		L604,65	La ¹³⁴
31	598	16,0 ±1,5	Сложный	—	—
32	599	1,1 ±0,3	(17→74)	L606	Ce ¹³⁴
33	625	—	20±1	K664	?
34	658	—	—	L664	?
35	677	—	—	K718	?
36	743	2,48±0,15	17,0±0,4	K782	Ce ¹³⁵
37	776	0,28±0,04	17,5±1,5	L782	Ce ¹³⁵
38	788	1,1 ±0,3	17,1±1,5	K827	Ce ¹³⁵
39	821	0,24±0,04	~17	L827	Ce ¹³⁵
40	830	0,65±0,07	17,3±1,0	K869	Ce ¹³⁵
41	863	0,47±0,10	17,7±0,8	K902	Ce ¹³⁵
42	896	0,08±0,03	—	(L+M)902	Ce ¹³⁵

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AP4010293

S/0048/64/028/001/0064/0071

AUTHOR: Dzhelepov,B.S.; Medvedev,A.I.; Uchevatskin,I.F.; Shestopalova, S.A.

TITLE: Measurement of the conversion coefficient of the 1095.0 keV transition in the decay of Lu¹⁷². Calculation on the constants that determine the probabilities for transitions between K = 3⁺ and K = 0⁺ bands [Report, Thirteenth Annual Conference on Nuclear Spectroscopy held in Kiev, 25 Jan to 2 Feb 1963]

SOURCE: AN SSSR, Izvestiya. Seriya fizicheskaya, v.28, no.1, 1964, 64-71

TOPIC TAGS: conversion coefficient, multipole order, rotational band, lutetium 172, quadrupole moment, interband transition, spin factor, state mixing

ABSTRACT: Transition between the levels of different rotational bands form a distinctive class and hence are of interest in investigating nuclear structure. The 1095.0 and 913.8 keV transitions accompanying the decay of Lu¹⁷² are among the most intense transitions evinced in the decay of this nucleus and they take place between the I^K = 3⁺ level of the K = 3⁺ band and the 2⁺ and 4⁺ levels of the K = 0 rotational band. ΔI = 1 (no) allows of M1 and E2 transitions; on the other hand, change of K by 3 units forbids both types of transitions, although not to the same

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degree. Hence it is of interest to know the multipole order of these transitions. Accordingly, the first part of this work was devoted to determining the multipole order of the 1095.0 keV transition. To this end the K shell conversion coefficient was measured by comparison with the γ -ray intensities and internal conversion electron abundances for the available Lu¹⁷² source with the corresponding values for Co⁶⁰ and Sc⁴⁶, in which there are known to occur pure E2 transitions with close energies (1332 keV and 1118 keV, respectively). The γ -rays were measured by means of the two-fold focusing VNIIM β -spectrometer described by S.Shestopalova (Izv.AN SSSR,Ser.fiz.25,1302,1961; Nucl.Instr.and Meth.17,94,1962). The values obtained for α_K for the 1095.0 keV transition were $(2.8 \pm 0.4) \times 10^{-3}$ from the comparative experiments with Co⁶⁰ and $(2.67 \pm 0.15) \times 10^{-3}$ from the experiments with Sc⁴⁶. Comparison of the weighted mean of these values with the theoretical α_K coefficients indicates that the transition may be pure E2, although the possibility of a mixture of E2 + M1 with up to 12% M1 is not precluded. This new information on the 1095.0 keV transition provides the basis for returning to the question of calculating the constant that determines the transition probabilities between the $K = 3^+$ and $K = 0^+$ rotational bands in Yb¹⁷². This question was considered earlier by two of the authors (B.Dzhelepov and V.Mikhaylov, Izv.AN SSSR,Ser.fiz.27,267,1963), but at that time the necessary experimental data were not available. In the present paper the

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calculations are carried out in more detail and the constants entering into the expressions for the transition probability are re-evaluated. On the basis of these, certain inferences are drawn regarding the probabilities and multipole orders of analogous transitions. In the concluding section the concept of "admixture quadrupole moments" is introduced and the values of these parameters for Yb¹⁷² are evaluated. "We take this opportunity to express our gratitude to A.Meshter, V.A.Balalyev, L.I.Shalayeva for assistance in the measurements, graduate student of Leningrad University A.S.Lenin for help in the measurements and processing the results, and N.M. Anton'yeva and V.B.Smirnov for making available the scintillation spectrometer for the measurements." Orig.art.has: 14 formulas, 4 tables and 1 figure.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D.I. Mendeleyeva (All-Union Scientific Research Institute of Metrology)

SUBMITTED: 00

DATE ACQ: 10Feb64

ENCL: 00

SUB CODE: NS

NR REF Sov: 005

OTHER: 006

Card 3/3

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810014-6

BALALAYEV, V. A.; DZHELEPOV, B. S.; MEDVEDEV, A. I.; MESHTEV, A.; PRKHODTSEVA, V. P.;
USHEVATKIN, I. F.

"Concerning the Decay of La¹⁴⁰."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22
Feb 64.

VNIIM, Radiyevyy Inst (All-Union Sci Res Inst of Metrology; Radium Inst)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810014-6"

BALALAYEV, V. A.; VOINOVA, N. A.; DZHELEPOV, B. S.; MESHTER, A.; UCHEVATKIN, I. F.;
SHESTOPALOVA, S. A.

"New Data on Conversion and the End-point Energies of Beta Spectra in the
Decay of Ta^{182".}

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22
Feb 64.

VNIIM, FTI (All-Union Sci Res Inst Metrology, Physico Technical Inst)

DZHELEPOV, B. S.; MEDVEDEV, A. I.; UCHEVATKIN, I. F.; SHESTOPALOVA, T. A.

"New Data on the Spectrum of Conversion Electrons of Lu^{169,170} in the Energy Interval 1040-3250 keV."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.

VNIIM (All Union Sci Res Inst Metrology)

ACCESSION NR: AP4031176

S/0056/64/046/004/1478/1478

AUTHOR: Balalayev, V. A.; Dzhelepov, B. S.; Medvedev, A. I.; Meshter, A.;
Uchevatkin, I. F.

TITLE: Half-lives of ground and isomeric states of Lu-174

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1478

TOPIC TAGS: lutecium, half life, isomeric transition, conversion electron spectrum

ABSTRACT: Following an earlier measurement of the conversion electron spectrum of Lu^{173,174} (Izv. AN SSSR ser. fiz. v. 27, 200, 1963), the measurements were repeated of the 994 and 1243 keV transitions in Lu¹⁷⁴ with the same source. In the 340 days elapsed between the two series of measurements, the 1243-keV K-line intensity had hardly changed (half-life greater than 800 days), but the 994 keV K-line intensity had decreased with a half-life of 150 ± 40 days. To determine which of the half-lives corresponds to the ground state and which to the isomeric state, the half-life of the L-line intensity of the 59.1 and 67.1 keV transitions was estimated and found to be less than 200 days, which disagrees with the data of O. D. Kovrigin and G. D. Latyshev (Spektrometer s dvoynoy fokusirovkoj, Izd. AN Kaz. SSR, Alma-Ata,

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ACCESSION NR: AP4031176

1962, pp 35-41) who estimated it to be 1300 days. The results of the investigations lead to the following conclusions: (1) the ground state of Lu¹⁷⁴ decays with a half-life of 1300 days; (2) the isomeric state of Lu¹⁷⁴ decays with a half-life of 140 days; (3) the 1243-keV transition is excited from the ground state; (4) the 994-keV transition is excited from the isomeric state. "The authors are grateful to S. A. Shestopalova for a discussion of the measurement results."

ASSOCIATION: Vsesoyuznyy institut metrologii im. D. I. Mendeleyeva (All-Union Institute of Metrology)

SUBMITTED: 26Jul63 DATE ACQ: 07May64 ENCL: 00

SUB CODE: MP NR REF SOV: 003 OTHER: 002

Card 2/2

BALAIAYEV, V.A.; DZHULEPOV, B.S.; MEDVDEV, A.I.; UGACHEVATKIN, I.P.;
SHESTOPALOVA, S.A.

Recent data on Ce^{135} decay. Izv. AM SSSR. Ser. fiz. 29 no.12:
(MIRA 19:1)
2204-2224 p 165.

1. Vsesoyuznyy nauchno-issledovatel'sklyy institut metrologii im.
D.I. Mendeleyeva.

BALALAYEV, V.A.; DZHELEPOV, B.S.; MEDVEDEV, A.I.; MESHTER, A.;
PRIKHODTSEVA, V.P.; UCHEVATKIN, I.F.

Recent data on the spectrum of conversion electrons from La^{140} .
Izv. AN SSSR. Ser. fiz. 29 no.12:2250-2254 D '65;

(MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im.
D.I. Mendeleyeva i Radiyevyy institut im. V.G. Khlopina AN SSSR.

DZHELEPOV, B.S.; MOSKVIN, L.N.; TISHKIN, P.A.; UCHEVATKIN, I.F.; SHISHKOV,
I.A.

Coincidences of conversion electrons in Ce^{135} decay. Izv. AN SSSR.
(MIRA 19:1)
Ser. fiz. 29 no.12:2264-2270 D '65.

1. Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo
gosudarstvennogo universiteta im. A.A. Zhdanova i Vsesoyuznyy
nauchno-issledovatel'skiy institut metrologii im. D.I. Mendeleyeva.

L 26656-66 EWT(m) DIAAP

ACC NR. MP6017117

SOURCE CODE: UR/0048/65/029/012/2205/2224

AUTHOR: Balalayev, V. A.; Dzhalepov, B. S.; Medvedev, A. I.; Uchevatkin, I. F.; Shestopalova, S. A.

50

ORG: All Union Scientific Research Institute of Metrology, im. D. I. Mendeleyev
(Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii)

TITLE: New data on Ce sup 135 decay [This paper was presented at the 15th Annual Conference on Nuclear Spectroscopy and the Structure of the Atomic Nucleus, held in Minsk from 25 January to 2 February 1965]

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 12, 1965, 2205-2224

TOPIC TAGS: radioactive decay, cerium, electron spectrum, electron energy, radioisotope, gamma spectrum, electron transition

ABSTRACT: To verify the electron transitions of Ce-135 having energies of 87 ± 1 and 120 ± 1 kev, a new study was made of the conversion electron spectra of the isotope in the electron energy range from 42 to 85. Earlier studies had included energies up to 2660 kev, but since the energy of Ce-135 decay can reach 28000 kev, this study was extended from 2660 to 3090 kev. The results obtained are compared with those of K. Takahashi, et al., J. Phys. Soc. Japan, Vol. 19, No. 11, p 2014 (1964) in a table, and a systematic discrepancy is noted: the Japanese energy measurements are consistently lower (ranging from 0.3 to 2.7%) than those obtained in this paper.

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L 26656-66

ACC NR: AP6017117

In the remainder of the paper the authors treat the relative intensities in the gamma-ray spectrum of Ce135, determine the multipolarity of the transitions in La135, plot curves for the photoelectron spectrum of Ce135, tabulate transition intensities for the decay of Ce135, tabulate transition intensities for the decay of Ce135 \rightarrow La135, calculate 35 energy coincidences among the transitions between the excited states of La135, discuss the decay scheme of Ce135, and analyze the balance of intensities over the levels of La135. The authors thank Ye. Ye. Bondar', A. Meshter, and L. I. Shalayev for assistance in making the measurements; K. Ya. Gromov and Zh. T. Zhelev for supplying the sources; N. A. Lebedev for the chromatographic separations of fractions; L. K. Pekar for useful discussions, and N. N. Kolesnikov for calculating the mass difference of the nuclei Ce135 \rightarrow La135. Orig. art. has: 4 figures and 6 tables. [JPRS]

SUB CODE: 20 / SUEM DATE: none / ORIG REF: 014 / OTH REF: 002

Card 2/2 FV

L 26652-66 EWT(1)/EWT(m) DIAAP/IJP(c) JD/JG/AT

ACC NR:	AP6017121	SOURCE CODE:	UR/0048/65/029/012/2264/2270
AUTHOR:	<u>Dzhalepov, B. S.; Moskyin, L. N.; Tishkin, P. A.; Uchavatkin, I. F.</u> 60 <u>Shishelov, I. A.</u> B		
ORG:	<u>Scientific Research Physics Institute, Leningrad State University im. A. A. Zhdanov (Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gosudarstvennogo universiteta); All-Union Scientific Research Institute of Metrology im. D. I. Mendeleyev (Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii)</u>		
TITLE:	<u>Coincidence of conversion electrons in Ce¹³⁵ decay. This paper was presented at the 15th Annual Conference on Nuclear Spectroscopy and the Structure of the Atomic Nucleus, held in Minsk from 25 January to 2 February 1965.</u>		
SOURCE:	AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 12, 1965, 2264-2270		
TOPIC TAGS:	cerium, lanthanum, spectrometer, tantalum, proton, conversion electron spectrum		
ABSTRACT:	The reported work was carried out to verify the scheme of excited levels of La ¹³⁵ . The spectrum of the conversion electrons was obtained with the duplexed toroidal beta spectrometer of the Leningrad State University. The Ce ¹³⁵ sample was obtained from a tantalum target irradiated by 660 Mev protons for 5 to 10 hours. Results appear to be definitive for the locations of transitions with energies of 88.4 and 118.0 kev in the upper part of the decay scheme. The authors thank K. Ya. Gromov and Zh. T. Zhelev for supplying the preparations and N. A. Lebedev for the chromatographic separation of the fractions. Orig. art. has: 4 figures. JRPB Card 1/1 SUB CODE: 20 / SUBM DATE: none / ORIG REF: 010 / OTH REF: 011		

L 31407-66 EWT(m)
ACC NR: AP6022573

SOURCE CODE: UR/0048/66/030/003/0413/0415

36

AUTHOR: Balalayev, V. A.; Dzheleпов, B. S.; Medvedev, A. I.; Uchevatkin, I. F.
Shestopalova, S. A.

B

ORG: All-Union Scientific Research Institute of Metrology im. D. I. Mendeleyev
(Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii)

TITLE: New data on the spectrum of conversion electrons for the strongest transitions
in Yb^{sup} 170

SOURCE: AN SSSR. Izvestiya fizicheskaya, v. 30, no. 3, 1966, 413-415

TOPIC TAGS: ytterbium, transition radiation, conversion electron spectrum, spectral
line, electron energy level

ABSTRACT: The availability of a new higher-energy source made it
possible to study conversion electrons having energies above 3150
kev. The reference used was the K-conversion line of the transition
2955.2 kev. The spectrum from 2880 to 3150 kev was remeasured to
confirm those made above 3150, inasmuch as the spectrum is complex
and the K, L, and M lines of the various transitions overlap. Re-
sults of measurements above 3150 kev, given in a table, are essen-
tially new. Six new transitions were found: 3224, 3245, 3263, 3287,
3302 and 3325. The latter is suggested as possibly the strongest
transition in the spectrum. The authors thank K. Ya. Gromov and Zh. T. Zheleva
for providing the sources. Orig. art. has: 1 figure and 1 table. [JPRS]

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 003

Card 1/1 CC

0015

0015

L00233-67 EXP(m)/EXP(t)/SFI IJP(c) JD/JG
ACC NR: AF7002796 SOURCE CODE: UR/0048/66/030/003/1314/1321

AUTHOR: Balalayev, V. A.; Dzhelepov, B. S.; Medvedev, A. I.; Uchevatskin, I. F.;
Shestopalova, S. A.

ORG: All-Union Scientific Research Institute of Metrology im. D. I. Mendeleev
(Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii)

TITLE: Multipole order of the transition with 1095-kev energy in Yb^{172}

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 8, 1966, 1314-1321.

TOPIC TAGS: radioactive decay, lutetium

ABSTRACT: In recent years this matter has been the subject of sharp discussion. Stautberg et al. (Phys. Rev., 130, 1901 (1963)) claim that the multipole order of the transition with 1095-kev energy in Yb^{172} is M1 + 5% E2, whereas Guenther et al. (Nucl. Phys., 61, 65 (1965)) conclude that it is M1 + 5% M3 + 0.2% E2; both these findings diametrically contradict the authors' earlier findings (Dzhelepov et al. Izv. AN SSSR, Ser. Fiz., 28, 64 (1964)) that the multipole order of this transition is either E + 2 (5-5%)% M1 or E1 + (15+1)% M2. To clarify this matter a new method of investigation was adopted: a $\text{Lu}^{171}\text{T}^{172}$ preparation was employed, since one of the transitions occurring in Yb^{171} during the decay of Lu^{171} has a known multipole order (with reference to the 740-kev transition). The results obtained were found to be in virtual agreement with the earlier findings of the authors:

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L 09233-67

ACC NR: AP7002796

K1095 = $(2.5 \pm 0.4) \cdot 10^{-3}$. It is not yet clear why Stautberg et al. and Guenther et al. drew other conclusions from their measurements of angular correlation, but there cannot be any doubt as to the quantity K1095. Orig. art. has: 2 figures 1 formula and 3 tables. [JPRS: 39,049]

SUB CODE: 18,20 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 006

Class: 3/2

UCHEVATKIN, P. I.

UCHEVATKIN, P. I. "The principal problems of science in the further improvement of cotton growing," (Report at the session of the Academy of Sciences, Uzbek. SSR, 26 January 1949), UzSSR, 1949, No. 1, p. 21-32

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

v

Uchevarkina, I.S.

PHASE I BOOK EXPLOITATION

SOV/4643

D

Leningrad. Glavnaya geofizicheskaya observatoriya

Voprosy fiziki oblakov i aktivnykh vozdeystviy (Problems in the Physics of Clouds and Active Modification) Leningrad, Gidrometeoizdat, 1960. 93 p. (Series: Its: Trudy, vyp. 104) 1,000 copies printed.

Sponsoring Agencies: Glavnaya geofizicheskaya observatoriya imeni A.I. Veyeykova; Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR.

Ed. (Title page): N.S. Shishkin, Doctor of Physics and Mathematics; Ed. (Inside book): L.P. Zhdanova; Tech. Ed.: A.N. Sergeyev.

PURPOSE: This collection of articles is intended for scientific workers in meteorology and for graduate students in hydrometeorological institutes.

COVERAGE: This issue of the Transactions of the Main Geophysical Observatory contains articles dealing with problems of cloud formation and microstructure, and with methods of active modification of clouds and fog. Instruments used in cloud investigation are described, and the use of electronic computers for the

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Problems in the Physics of Clouds (Cont.)

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solution of problems in the physics of precipitation formation is discussed.
No personalities are mentioned. References follow each article.

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"APPROVED FOR RELEASE: 04/03/2001

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APPROVED FOR RELEASE: 04/03/2001

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ENCLOSURE: 61

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APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810014-6"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810014-6

UCHIK, G. V.

"On the Theory of Fatigue of Metals ", by G. V. Uchik

Further information is contained in A-40877, IUTAM Colloquium on Fatigue, 1955, Stockholm
25-27 May 1955.

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810014-6"

UCHITEL', B.I.

Periparietal strangulation of the stomach in a parietal peritoneal pocket. Zdrav. Kazakh. 22 no.2:71-72 '62. (MIRA 15:4)

1. Iz khirurgicheskogo otdeleniya gorodskoy bol'nitsy No.5
g.Karagandy (glavnyy vrach - N.D.Lapshin).
(HERNIA) (STOMACH---DISEASES)

UCHITEL', D.A.; KHAMIDULIN, N.M. (Moskva)

Dynamic tests for a building. Stroi. mekh. i rasch. soor. 3
no. 5:41-45 '61. (MIRA 14:10)
(Structural frames--Testing) (Textile factories)

UCHITEL', I.Ya.; KHAZMAN, E.I.; KARNOZ, G.V.

Role of endogenic pyrogen in immunogenesis. Report No.1:
Effect of endogenic pyrogen on the formation of antibodies
and the intensity of protein synthesis in the body. Zhur.
mikrobiol., epid. i immun. 42 no.10:3-7 0 '65. (MIRA 18:11)

1. Institut epidemiologii i mikrobiologii imeni Gamalei
AMN SSSR, Moskva. Submitted September 3, 1964.

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810014-6

UCHITEL', I. Ya. and KLIMENTOVA, A. A.

"Problemy Reaktivnosti Uchenii Infektsii i Immyunitete
(Problems of Reactivity in the Theory of Infection and
Immunity), Medgiz, 1950, pp 197-198.

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810014-6"

UCHITEL', I.Ya.

Effect of protective inhibition (therapeutic sleep) on the development
of certain infections. Vest. khir. 71 no.2:71 1951. (CIML 20:8)

UCHITEL', I.Ya.

Effect of sleep produced by medication upon the production of
specific antibodies. Zhur.mikrobiol.epid.i immun. no.4:80 Ap '54.
(MLRA 7:5)

1. Iz Instituta khirurgii im. Vishnevskogo Akademii meditsinskikh
nauk SSSR. (Sleep) (Antigens and antibodies)

UCHITEL', I.Ya.; KONIKOVA, A.S.

Some data on antibody formation. Biul. eksp. biol. i med. 40 no.12:
35-39 D '55. (MLRA 9:3)

1. Iz Instituta khirurgii imeni A.V. Vishnevskogo (dir.-chlen-korrespondent AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR, Moskva.
(ANTIGENS AND ANTIBODIES,
antibody form)

UCHITEL', I.Ya., KRYMSKIY, L.D.

Effect of hypothermia on allergic processes [with summary in English]
Exper.khir. 1 no.3:19-24 My-Je '56 (MIRA 11:10)

1. Iz instituta khirurgii imeni A.V. Vishnevskogo (dir. - chlen-korespondent AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR.
(HYPOTHERMIA, eff.
inhib. of Arthus & Schwarzman phenomena in rabbits (Rus))
(ALLERGY,
Arthus & Schawrzman phenomena in rabbits, inhib. with
hypothermia (Rus))

S

Country : USSR
Category: Human and Animal Morphology (Normal and Pathological)
Pathological Anatomy.

Abs Jour: RZhBiol., No 2, 1959, No 7655

Author : Krymskiy, L.D.; Uchitel', I. Ya.

Inst : -
Title : Morphologic Changes of Internal Organs in Hypothermia.

Orig Pub: Eksperim. Khirurgiya, 1956, No 6, 31-40

Abstract: It was shown on 58 rabbits (the duration of hypothermia 4 and 24 hours) that prolonged hypothermia induces the development of fatty degeneration of the liver, kidneys and myocardium. These changes are more sharply expressed in cases of combination of hypothermia with ganglio-blocking and somnifacient means.

Card : 1/2

S-47

Country : USSR

Category: Human and Animal Morphology (Normal and Pathological).
Pathological Anatomy.

S

Abs Jour: RZhBiol., No 2, 1959, No 7655

The appearance of the changes is connected with
hypoxia of the tissues. -- A.M. Vikhert

Card : 2/2

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810014-6

UCHITEL', I.Ya. (Moskva).

Use of radioactive tracers in immunology. Usp. sovr. biol. 43 no.2:
180-198 Mr-Apr '57.
(MIRA 10:6)
(RADIOACTIVE TRACERS) (ANTIGENS AND ANTIBODIES)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810014-6"

UCHITEL', I.Ya.

UCHITEL', I.Ya.; KONIKOVA, A.S.

Comparing the formation of antigens and nonspecific proteins in
the body [with summary in English]. Biul.eksp.biol. i med. 44 no.7:
85-89 Jl '57. (MIRA 10:12)

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo (dir. - deystvitel'-
nyy chlen AMN SSSR prof. A.A.Vishnevskiy) AMN SSSR, Moskva. Prestavle-
na deystvitel'nym chlenom AMN SSSR prof. P.F.Zdrodovskim.

(ANTIGEN ANTIBODY REACTION,

antigen form., comparison with form of non-specific
proteins (Rus))

(PROTEINS, metabolism,
non-specific protein form., comparison with antigen form.
(Rus))

KRYMSKIY, L.D., PERCHIKOVA, G.Ye., UCHITEL', I.Ya.

Result of reproduction of experimental rheumocarditis [with summary
in English]. Eksper.khir. 3 no.4:44-49 Jl-Ag '58 (MIRA 11:9)

1. Iz Instituta kinirurgii imeni A.V. Vishenevskogo (dir. - deyствител'nyy chlen AMN SSSR prof. A.A. Vishenevskiy) i Instituta terapii (dir. - deyствител'nyy chlen AMN SSSR prof. A.L. Myasnikov) AMN SSSR.
(RHEUMATIC HEART DISEASE, exper
significance of autoantibodies in pathogen. in rabbits
(Rus))

UCHITEL', I.Ya.; KONIKOVA, A.S.

Antibody formation in hypothermia. Zhur. mikrobiol. epid. i immn. 29
no.10:77-82. O '58. (MIRA 11:12)

1. Iz Instituta khirurgii imeni Vishnevskogo AMN SSSR.
(ANTIBODIES,
form., eff. of hypothermia (Rus))
(HYPOTHERMIA, eff.
on antibody form. (Rus))

UCHITEL', I.Ya.

Experimental therapy of rabies and vaccinia encephalitis in rabbits.
Vop.virus 3 no.3:172-173 My-Je '58 (MIRA 11:7)

1. Institut khirurgii imeni A.V. Vishnevskogo AMN SSSR, Moskva.

(RABIES, therapy

exper. trial on rabbits (Rus))

(ENCEPHALITIS, etiology & pathogenesis

vaccinia encephalitis, exper. ther. in rabbits (Rus))

KRYMSKIY, L.D.; UCHITEL', I.Ya, (Moskva)

Mode of action of a lumbar novocaine block. *Eksp.khir.* 4
no.3:39-40 My-Je '59. (MIRA 12:8)
(ANESTHESIA, REGIONAL

procaine lumbar block, mechanism of action
(Rus))

UCHITEL', I.Ya.; KHASMAN, E.L.; KONIKOVA, A.S.

Intensity of synthesis of proteins of the body during the induction phase of the formation of typhoid agglutinins. Zhur.mikrobiol.epid. i immun. 32 no.1:17-22 Ja '61. (MIRA 14:6)

1. Iz Instituta khirurgii imeni Vishnevskogo AMN SSSR.
(TYPHOID FEVER) (PROTEIN METABOLISM) (AGGLUTININS)

UCHITEL', I. Ya.

Doc Med Sci - (diss) "Effect of medicinally-induced sleep and hypothermy on inflammatory processes and immunogenesis." Moscow, 1961. 31 pp; (Academy of Medical Sciences USSR); number of copies not given; price not given; list of author's works on pp 30-31 (19 entries); (KL, 7-61 sup, 255)

UCHITEL', I.Ya.; KHASMAN, E.L.

Mechanism of the adjuvant activity of nonspecific stimulants
of antibody formation. Vest. AMN SSSR 19 no.3;23-37 '64.

1. Institut epidemiologii i mikrobiologii AMN SSSR imeni Gamalei,
Moskva. (MIRA 17:10)

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UCHITEL', I.Ya.; KOLKER, I.I. (Moskva)

Mechanisms of autoimmunization in pathology. Usp. sovr.
biol. 58 no. 1:86-99 Jl-Ag '64. (MIRA 17:12)

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CIA-RDP86-00513R001857810014-6"

UCHITEL', I.Ya.; KOLKER, I.I. (Moskva)

Possible mechanisms of autoimmunization in pathology and its
role in the pathogenesis of burns. Arkh. pat. 27 no.2:52-60
'65. (MIRA 18:5)

1. Otdel sypnogo tifa (zav. - deystvitel'nyy chlen AMN SSSR P.F.
Zdrodovskiy) Instituta epidemiologii i mikrobiologii imeni N.F.
Gamalei AMN SSSR izzhogovyy tsentr pri Institute khirurgii imeni
Vishnevskogo (dir. - deystvitel'nyy chlen AMN SSSR A.A.Vishnev-
skiy).

UCHITEL' I.
ANUFRIYEV, V.Ye., dotsent, kand.tekhn.nauk; KURDYUMOV, M.D., inzh.,
retsenzent; SMYSLOV, V.V., kand.tekhn.nauk, retsenzent; KOSYURA,
G.G., kand.tekhn.nauk, retsenzent; BULAVA, M.M., dots., retsenzent;
DRANNIKOV, A.M., doktor geol.-mineralog.nauk, retsenzent; KIRICHKO,
I.M., dotsent, retsenzent; POBEGAYLO, I.M., inzh., retsenzent;
UCHITEL', I.Z., red.; GUROVA, O.A., tekhn.red.

[Hydraulic engineering structures for cities] Gorodskie gidro-
tekhnicheskie sooruzheniya. Moskva, Izd-vo M-va kommun.khoz.,
1957. 264 p.

(Hydraulic engineering)

UCHITEL', M., inzh.; LOSHMANOVA, M., inzh.; KAPUSENKO, V., inzh.;
BABININA, T.; GATSKO, V. (g.Kolomna, Moskovskoy oblasti).

Customers pass their judgement. Prom.koop. 14 no.8:26 Ag '60.
(MIRA 13:8)

1. Otdel bytovogo obsluzhivaniya oblpromsoveta, g.Chelyabinsk
(for Uchitel', Loshmanova, Kapusenko). 2. Starshiy inzhener otdela
obsluzhivaniya Litpromsoveta, g.Vil'nyus (for Babinina).
(Service industries)

BENENSON, Nata Moysayevna; DMITRIYEVSKAYA, Anna Aleksandrovna; MONCHAK, Marat Lyudvigovich; MOTORINA, Nina Leonidovna; SEVEROV, Anatoliy Konstantinovich; UCHITEL', Moyssey Yakovlevich; STRASHUN, N.Z., red.; FOMICHEV, A.G., red.izd-va; BELOGUROVA, I.S., tekhn.red.

[Use of P-68 resin in the manufacture of radio apparatus] Opyt primeneniia smoly P-68 v izdeliiakh radiotekhnicheskoi appa-
tury. Leningrad, 1962. 10 p. (Leningradskii dom nauchno-
tekhnicheskoi propagandy. Obmen peredovym opyтом. Seriia: Sinte-
ticheskie materialy, no.5) (MIRA 15.12)

(Radio—Equipment and supplies)
(Electric relays) (Resins, Synthetic)

L 5185.66 FWT(1)/CSA(h) ... GW
ACC NR: AT6000090

SOURCE CODE: UR/2619/64/000/035/00.../

AUTHOR: Tokmakov, V. A.; Uchitel', Yu. Ya.

49

44,55

44,55

B+1

ORG: Institute of Physics of the Earth im. O.Yu. Shmidt, AN SSSR (Institut fiziki zemli AN SSSR)

44,55

TITLE: Calculation of the magnification of the K-001 vibration meter and an experimental computation check

SOURCE: AN SSSR. Institut fiziki zemli. Trudy, no. 35, 1964, 95-102

TOPIC TAGS: vibration measurement, seismologic instrument, seismography, galvanometer

12,44,55

12,44,55

16

ABSTRACT: Difficulties encountered in experimentally calibrating the K-001 vibration meter are described. Magnification calculations and methods used at the Institute of Physics of the Earth to perform this task are discussed (photograph of K-001, schematics for electrical circuit, and determination of natural frequency of M-002 galvanometers are given). Orig. art. has: 18 formulas, 4 figures, 1 table. FSB: v. 1, no 5

0
SUB CODE: ES / SUBM DATE: none / ORIG REF: 007

Card 1/1 *MD*

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UCHITELEVA, L.G.; PUSTOVALOVA, G.I.

Some data on the underground waters of Eocene sediments in the southern trans-Ural region. Inform.sbor.VSEGEI no.53:59-70 '62.
(MIRA 17:1)

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CIA-RDP86-00513R001857810014-6

MIKHAYLOVA, Ye.V.; PONTOVALOVA, G.I.; UGOLTELEVA, L.G.

Oligocene underground waters of the south of the West Siberian
Plain. Trudy VSEGEI 101:203-217 '63. (MIR 37:9)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810014-6"

UCHIYAMA, S.

On the sums of powers of complex numbers. In French. p. 275.

ACTA MATHEMATICA. (Magyar Tudomanyos Akademia) Budapest, Hungary. Vol. 9,
no. 3/4, 1958.

Monthly list of East European Accessions, (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

UCHIYAMA, S.

A note on the second main theorem of P. Turan. In English. p. 379.

ACTA MATHEMATICA. (Magyar Tudomanyos Akademia) Budapest, Hungary. Vol. 9,
no. 3/4, 1958.

Monthly list of East European Acquisitions, (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

KOVARSKIY, A. Ye. UCHKOVSKIY, V.G.

For high yields of maize in Moldavia.

Gosizdat Moldavii, 1954.

UCHMAN, J.

UCHMAN, J. Ways and Wrong Paths of Seismology in Poland. Przeglad Geologiczny, Warszawa (Geological Publications), Dec 1955, V. 12, p. 553

(1)
POLAND

KIELCZEWSKI, Wladyslaw, prof. dr; UCHMAN, Waldemar, mgr

Dept. of General Chemistry, Agricultural College (Katedra Chemicznej Wyższej Szkoły Rolniczej), Poznań (for both)

Warsaw, Chemia Analityczna, No 3, May-June 1966, pp 543-545

"Determination of nitrites and nitrates by paper-impregnation method."

UCHNAST, J.; DUCZMAL, M.

A standing dynamometer. Biuletyn. p. 21.

PRZEGLAD GORNICZY. (Stowarzyszenie Naukowo-Techniczne Inżynierów i Techników Górnictwa) Katowice, Poland, Vol. 15, no. 9, Sept. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncle.

DUCZMAL, Marian, mgr inz.; UCHNAST, Jerzy, mgr inz.

Multipiston radial pumps. Przegl gorn 18 no.12:Suppl: Biul
Glown inst gorn 13 no.3:24-28 '62.

and
UCHUGINA, A. F.: Master Med Sci (diss) -- "Urinary calculus (Clinical aspects, treatment, later results)". Gor'kiy, 1958. 14 pp (Gor'kiy State Med Inst im S. M. Kirov), 200 copies (KL, No 1, 1959, 124)

UCHUGINA, A.F.

Differential diagnosis between acute appendicitis and renal colic.
Urologiia 24 no.4:18-21 Jl-Ag '59. (MIRA 12:12)

1. Iz urologicheskogo otdeleniya Gor'kovskoy gorodskoy klinicheskoy bol'nitsy No.7 (glavnnyy vrach S.V. Shakhev).
(APPENDICITIS diagnosis)
(COLIC diagnosis)

UCHUGINA, A. F., kand. med. nauk; KAZIMIROV, L. I., kand. med. nauk

Suturing the ureter with a mechanical circular suture by means
of a vascular suturing apparatus. Urologia no. 3:51-52 '61.
(MIRA 14:12)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - dotsent V. I.
Kukosh) Gor'kovskogo meditsinskogo instituta imeni S. M. Kirova.

(URETERS—SURGERY) (SUTURES)

VCHUGINA, A.F. (Gor'kiy, 59, Vol'skaya ul., d.11, kv.13)

Work capacity following the surgical treatment of urolithiasis.
Vest.khir. 89 no.11:135-136 N '62. (MIRA 16:2)

1. Iz Gorodskoy klinicheskoy khirurgicheskoy bol'nitsy No.7
goroda Gor'kogo (ispolnyayushchiy obyazannosti glavnogo vracha -
P.A. Sveshnikov).
(DISABILITY EVALUATION) (CALCULI, URINARY)

UCHUGINA, A.F., kand.med.nauk; KAZIMIROV, L.I., kand.med.nauk

Ureteral suture using a vascular suturing device. Urologiia
28 no.2:27-29 Mr-Apr'63. (MIRA 16:6)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - doktor
med. nauk V.I.Kukosh) Gor'kovskogo meditsinskogo instituta
imeni S.M.Kirova i Gorodskoy khirurgicheskoy bol'nitsy No.7.
(URETERS—SURGERY) (SUTURES)

UCHUGINA, A.F., kand. med. nauk

Intraparenchymatous solitary cyst of the kidney. Urologia 29
no.1:51-52 '64. (M.R.I. 17:8)

1. Fakul'tetskaya khirurgicheskaya klinika (zav. - prof. V.I.
Kukosh) Gor'kovskogo meditsinskogo instituta i Gor'kovskaya
khirurgicheskaya bol'nitsa No.7.

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CIA-RDP86-00513R001857810014-6

LEBEDEV, A.T.; KARTUSHIN, V.P.; UCHURKHANOV, M.M.

Effect of nuclear radiation on the flotation process. TSvet,
met. 38 no.6:11-14 Je '65. (MIRA 18:10)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810014-6"

UCHURKHMNOV, N. M.

UCHURKHMNOV, N. M. -- "Investigation of Solutions of silver Perchlorate by Means of Physicochemical Analysis." Sub 23 May 52, Inst of General and Inorganic Chemistry imeni N. S. Kurnakov, Acad Sci USSR. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Vechernaya Moskva January-December 1952

UCHURKHANOV, M. M.

Physical Chemistry, Physicochemical Analysis (12⁴⁹⁴)

Izv. Seltorsk Fiz.-Khim. Analiza Inst. Chashch. i Rezonans. Khimii AN SSSR, Vol. 24, 1953,
pp 298-312

Klochko, M. A.; Uchurkhanov, M. M.

Investigation of the System Silver Perchlorate - Water by the Method of Physicochemical
Analysis

Studied the above system and determined its electrical conductivity, density, viscosity,
and other physical properties.

SO: Referativny Zhurnal -- Khimiya, No. 2, 1954 (U-30907)

KLOCHKO, M.A.; UCHURKHANOV, M.M.

Physicochemical study of the system silver perchlorate --- acetone.
Izv.Sekt.fiz.-khim.anal. 22:313-319 '53. (MLRA 7:5)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova
Akademii nauk SSSR. (Silver perchlorate) (Acetone)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810014-6

UCHURKHAJOV, M. M.

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001857810014-6"

UGLOV, F.G., prof.; STRASHNOV, V.I.; UCHVATKINA, M.K.

Tracheostomy in the surgical clinic. Vest. Khir. 91 no.12:
19-27 D. '63. (MIRA 17:9)

1. Iz gospital'noy khirurgicheskoy kliniki (zav.- prof. F.G. Uglov) 1-go Leningradskogo meditsinskogo instituta imeni Pavlova (dir.- dotsent A.I. Ivanov). Adres avtorov: Leningrad, P-89, ul. L'va Tolstogo, d.6/8, gospital'naya khirurgicheskaya klinika.

SAVRANSKIY, Ananiy Yefimovich, inzh.; UCHVATOV, Pavel Gavrilovich, inzh.;
LOPATIN, S.I., dots., otv. red.; BYKHOVSKAYA, S.N., red. izd-va,;
SABITOV, A., tekhn. red.

[Track management in underground transportation] Putevoe khoziaistvo
podzemnogo transporta. Moskva, Ugletekhizdat, 1958. 229 p.
(MIRA 11:12)

(Mine railroads)