

BALASHKO , Yu. G., BARIT, I. Ya., BERGMAN, A. A., GONCHAROV, Y. A. and SHAPIRO, F. L.

"Etude de Certaines Reactions Nucleaires sur les Noyaux legers pour des
Particules Incidentes d'energie Jusqu'a 1 MeV."

report presented at the International Congress for Nuclear Interactions (low Energy)
and Nuclear Structure, Paris, 7-12 July 1958.

AUTHORS Balashko, Yu. G., Barin, I. Ia. 57 24 1 17/56

TITLE Scattering of Deuterons on Deuterium and Tritium at Small Energies (Rasseyaniye deytrov na deytarii i tritii pri mal'kikh energiakh)

PERIODICAL Zhurnal eksperimental'noy i teoreticheskoy fiziki 1958, Vol. 34, Nr. 4, pp. 1634-1636 (USSR)

ABSTRACT In this work the cross section of the D-T scattering is measured at the angle 90° in the energy interval from 30-300 keV in the center of gravity system. Besides at the working out of the methods the cross section of the scattering of deuterons on deuterium in the interval of the deuteron energies of from 100 - 600 keV was measured at the angle of 67° in the center of gravity system. The results obtained for 300 keV agree with those by N. P. Heidenberg (Zheydenburg) and Roberts (Ref. 5). The methods used permitted the measurement carried out at very small energies (up to 70 keV) in the resonance range of the D-T reaction. The scattered particles were registered by means of proportionality counters. The results of the measurements for the D-D scattering and for the D-T scattering are illustrated

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Scattering of Deuterons on Deuterium and Tritium
at Small Energies

35. 3. 1. 35/10

in 2 diagrams. For both cases there is also given the ratio between the measured cross section and the cross section of scattering by a Coulomb field at the same angle. In the range of small energies the nuclear D-D scattering is mainly an S-S scattering in the singlet state and in the quintet state. The measurements carried out in this work allow only the evaluation of the phase in the quintet state. The character of the energy dependence of the D-T scattering in the range of small energies gives information as to the existence of a resonance scattering. The experimental values of the scattering cross sections are close to the computed curves but always 10-20% lower. At the end the authors propose a precisening of the measurements in this range as well as a detailed analysis of the results. There are 2 figures and 5 references, 1 of which is Soviet.

Card 2, 3

Scattering of Deuterons on Deuterium and Tritium
at Small Energies

56-34-4-55/60

ASSOCIATION Fizicheskiy institut im. P.N. Lebedeva Akademii nauk SSSR
(Institute of Physics imeni P.N. Lebedev, AS USSR)

SUBMITTED: January 22, 1958

D. Deuterons--Scattering

Card 3/3

21(7)

AUTHORS: Balashko, Yu. G., Barit, I. Ya., SOV/56-36-6-51/56
Goncharov, Yu. A. (Deceased)

TITLE: Scattering of Protons on Tritium at Low Energies (Rasseyaniye
protonov na tritii pri malykh energiyakh)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,
Vol 36, Nr 6, pp 1937-1939 (USSR)

ABSTRACT: In their introduction the authors of this "Letter to the Editor" discuss the results obtained by some investigations carried out by other authors with respect to phase analyses on p-T-scattering reactions. Balashko and Barit already described a method of investigation (Ref 4), which was also used for obtaining the results dealt with by the present paper. A target chamber filled with a mixture of hydrogen and deuterium served the purpose of determining the α -yield of the reaction $T(d,n)\alpha$. The elastic scattering cross section triton-hydrogen was measured at energies of the bombarding tritons of < 530 kev at three different angles. The results obtained are shown by a figure. Within the limits of experimental errors it was possible to describe the results by assuming pure s-scattering. For an interaction radius

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Scattering of Protons on Tritium at Low Energies

SOV/56-36-6-51/66

$a = 3 \cdot 10^{-13}$ the contribution made by the p-phase to the scattering cross section in the energy interval under investigation is not greater than 1 %. The maximum contribution (theoretically) amounts to not more than 3 %. The results obtained by a phase analysis for protons with an energy of 176.7 and 118 kev are given. The results of investigations show that scattering within the range of low energies by phases may be described according to Frank and Gammel (Ref 1). The scattering cannot be considered to be a pure potential scattering, one of the s-phases must be positive. According to references 1 and 2, a singlet phase has a positive sign. The authors finally thank I. M. Frank and F. L. Shapiro for raising the problem and for discussing the results obtained. There are 1 figure and 4 references, 2 of which are Soviet.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR
(Physics Institute imeni P. N. Lebedev of the Academy of Sciences, USSR)

SUBMITTED: February 27, 1959
Card 2/2

BARIT, I.Ya.; PODGORETSKIY, M.I.; SHAFIRO, F.L.

Some possible applications of gamma-ray resonance scattering.
Zhur. eksp. i teor. fiz. 38 no.1:301-302 Jan '60. (MIRA 14:9)

1. Fizicheskiy institut im. P.N.Lebedeva AN SSSR.
(Gamma rays--Scattering)
(Nuclear magnetic resonance and relaxation)

PALASHIN, Yu. G.; BARIT, I. Ya.; DUL'KOVA, L. S.; KURSPIN, A. B.

"Elastic Scattering of Protons on Tritium at Energies below the Threshold of the p,n Reaction and Excited States of He⁴."

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

Inst of Physics im P.N. Lebedev, MS USSR

BALASHKO, Yu. G.; BARIT, I. Ya.; DULKOVA, L. S.; KUREPIN, A. B.

"Elastic p-T scattering below (p,n) threshold and the excited state in He⁴."

report submitted for Intl Conf on Low & Medium Energies Nuclear Physics,
Paris, 2-8 Jul 64.

Lebedev Inst, Moscow.

ACCESSION NR: AP4037609

S/0056/64/046/005/1903/1906

AUTHORS: Balashko, Yu. G.; Barit, I. Ya.; Dul'kova, L. S.; Kurepin, A. B.

TITLE: Elastic scattering of protons by tritium at energies below the threshold of the (p, n) reaction

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1903-1906

TOPIC TAGS: proton scattering, tritium, angular distribution, proton neutron reaction, excited state, helium

ABSTRACT: The cross section for elastic scattering of protons by tritium was measured at energies from 300 to 990 keV. The maximum number of the noticeable different angles was 8 (40--150° in the c.m.s.). A detailed description of the experiment and of the data reduction will be published in Izvestiya AN SSSR, ser. fiz. A phase shift analysis of the results of the measurements of the pT scatter-

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ACCESSION NR: AP4037609

ing was carried out by the least-square method with the aid of an electronic computer, with account of only the s and p waves, and under the assumption that there is no spin-orbit interaction or a change in the spin of the channel. A phase shift analysis was also made with three and with two parameters. An increase in the number of parameters does not change essentially the average values of the phase shifts, and merely increases the limits of the errors. The resonance parameters obtained were used to calculate the cross section of the He^3 (n, p) reaction for thermal neutrons and the deviation of the energy variation of the reaction from the $1/v$ law at a neutron energy 30 keV. The corresponding values amount to 3100 b and 15%. The experimental value of the thermal cross section is 5400 b, and the deviation amounts to ~30%. An allowance of the contribution of the other channel can reconcile the absolute values of the thermal cross section, but it will increase the discrepancy observed in the energy dependence of the (n, p) reaction. The appearance of an excited He^4 level is demonstrated by the results, and the failure

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to observe it in other investigations may have been due to experimental inaccuracy. The resonance parameters determined from the different interactions are in poor agreement with one another. Consequently the question of the values of the resonance parameters and the nature of the level cannot be regarded as completely explained. The authors are grateful to I. M. Frank and F. L. Shapiro for suggesting the topic, interest in the work, and a discussion of the results. Orig. art. has: 4 figures.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute, Academy of Sciences SSSR)

SUBMITTED: 17Aug63

DATE ACQ: 09Jun64

ENCL: 01

SUB CODE: NP

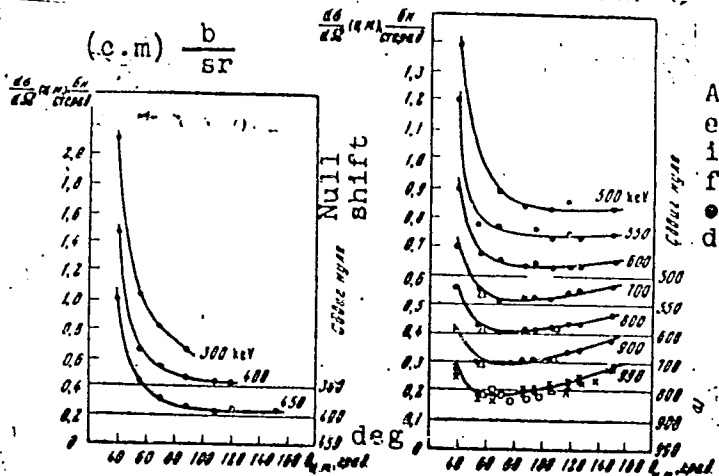
NR REF SOV: 004

OTHER: 009

Card 3/4

ACCESSION NR: AP4037609

ENCLOSURE: 01



Angular distribution of elastic pT scattering, in the c.m.s., for different proton energies. ● - present data; other data by others.

Card 4/4

BALASHKO, Yu.G.; BARIT, I.Ya.; DUL'KOVA, L.S.; KUREPIN, A.B.

Elastic scattering of protons on tritium at energies below
the (p,n)-reaction threshold. Izv. AN SSSR. Ser. fiz. 28
no.7:1124-1136 JI '64 (MIRA 17:8)

1. Fizicheskiy institut im. P.N. Lebedeva AN SSSR.

L 1975-66 EWT(m)/EWA(h)
ACCESSION NR: AT5018593

UR/2504/65/033/000/0107/0122

AUTHOR: Balashko, Yu. G.; Barit, I. Ya.

TITLE: Analysis of p-T interaction above the threshold of the reaction $T(p,n)He^3$ ⁵⁷₂₊₁ 19

SOURCE: AN SSSR. Fizicheskiy institut. Trudy, v. 33, 1965. Issledovaniye atomnogo yadra s pomoshch'yu zaryazhennykh chastits i neytronov (Investigation of the atomic nucleus using charged particles and neutrons), 107-122

TOPIC TAGS: elastic scattering, proton scattering, triton bombardment, helium, phase shift analysis, scattering cross section

ABSTRACT: The authors analyze all the available data on p-T interactions, including measurements of the elastic scattering cross sections, of the anomaly of the cross section near threshold, of the cross sections of the reaction $T(p,n)He^3$, and of the polarization in the reaction and in the scattering. The analysis is quite general, with a minimum of simplifying assumptions. Unlike earlier papers dealing with this subject, the authors take into account the reaction produced during the elastic scattering and the spin-orbit splitting. Only unambiguous phase-shift results which have physical meaning are included in the analysis. The simplifying assumptions still included are that the partial waves with angular momenta ≥ 2 make a negligible contribution, that there is only one resonant level in the singlet S state,

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L 1975-66

ACCESSION NR: AT5018593

and that no spin flip takes place in the elastic scattering or in the reaction. The scattering phase shift and the cross section of the reaction in the state 1S are calculated and a phase-shift analysis of elastic scattering is made. The results are still not conclusive enough to provide definite conclusions concerning the existence of a He^4 level with ~ 20 Mev excitation energy. Nor do they provide any quantitative data on the behavior of the interaction above 2.7 Mev. The polarization of the elastically scattered protons is -2 ± 4 and $-10 \pm 25\%$ for 1.5 and 2.0 Mev respectively (at 110° angle), but in view of the general complexity of the interaction, there is need for more polarization experiments at low energies. Further theoretical and experimental study of other processes proceeding via the compound nucleus He^4 are also necessary. "The authors thank A. B. Kurepin for participating in the work and a discussion of the results, and L. P. Konstantinova for the computer programming and calculations." Orig. art. has: 4 figures, 13 formulas, and 1 table.

ASSOCIATION: Fizicheskiy institut AN SSSR (Physics Institute, AN SSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NR REF SOV: 006

OTHER: 012

Card 2/2

L 45194-65 EWT(m)/EWA(h)

ACCESSION NR: AP5009825

UR/0367/65/001/002/0221/0223

AUTHORS: Balashko, Yu. G.; Barit, I. Ya.

13
11
5

TITLE: Analysis of proton-tritium elastic scattering above the T(p, n)He³ threshold

SOURCE: ¹⁹Yadernaya fizika, v. 1, no. 2, 1965, 221-223

TOPIC TAGS: phase shift analysis, proton tritium scattering, elastic scattering, spin orbit splitting, deuteron scattering

ABSTRACT: A phase shift analysis of data on proton-tritium elastic scattering was made, with account of the T(p, n)He³ reaction, and with certain improvements over the analysis of Frank and Gammel (Phys. Rev. v. 99, 1406, 1955). These include a consideration of the possibility of spin-orbit splitting of p triplet phase shifts. The phase shift $^1\delta_0$ is extrapolated from the region below 1 MeV according to the single-level resonance formula of an earlier paper by

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L 45194-65

ACCESSION NR: AP5009825

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the authors (ZhETF v. 46, 1903, 1964). The results are shown in Fig. 1 of the Enclosure. Appreciable contributions from spin-orbit splitting and from d scattering are found. "The authors thank A. B. Kurepin for a discussion of the results." Orig. art. has: 1 figure and 1 formula.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute, Academy of Sciences SSSR)

SUBMITTED: 02Sep64

ENCL: 01

SUB CODE: NP

NR REF SOV: 003

OTHER: 003

Card 2/3

ACC NR: AP7008382

SOURCE CODE: UR/0367/66/004/004/0712/0719

AUTHOR: Barit, I. Ya.; Sergeyev, V. A.--Sergeev, V. A.

ORG: Institute of Physics im. P. N. Lebedev, AN SSSR (Fizicheskiy institut AN SSSR)

TITLE: Charge-invariant analysis of nucleon scattering experiments on $A = 3$ nuclei

SOURCE: Yadernaya fizika, v. 4, no. 4, 1966, 712-719

TOPIC TAGS: scattering cross section, nucleon, S matrix

SUB CODE: 20

ABSTRACT: The charge-invariant phase shift analysis of a number of experiments on the direct and charge exchange scattering of 0 - 1.7 MeV (c. m. s) nucleons on $A = 3$ nuclei has been performed. Spin-orbital interaction and the contribution of $l \geq 2$ waves were neglected. The S-matrix elements for $l = 0, I = 0$ and $l = 1$ were determined, describing the experimental scattering cross sections at $\theta_{\text{cms}} = 90^\circ$ with an accuracy $\sim 10\%$. The analysis confirms the existence of a virtual level in He^4 with $J^\pi = 0^+, T = 0$, below the (p, n)-reaction threshold and indicates the importance of taking the spin-orbital interaction into account for energies > 1.1 MeV. Orig. art. has: 1 figure, 11 formulas and 2 tables. [Based on authors' Eng. abst.] [JPRS: 39,658]

Card 1/1

BARIT, S.Yu., inzhener (Moskva)

Science in cooperation with industry. Stroi.pred.neft.prom.1 no.3:
12-14 My '56. (MLRA 9:9)

(Petroleum industry)

ANTONOVA, I.T., inzhener (Moskva); BARIT, S.Yu., inzhener (Moskva); VEPRIK,
I.B., inzhener (Moskva).

Heat-resistant concrete for lining furnaces. Stroi.pred.neft.prom.
1 no.6:16-18 Ag '56. (MLRA 9:9)
(Refractory materials) (Concrete)

BARIT, S., inzhener; IVANISOV, O., inzhener.

One thousand two hundred fifty kolometers. Stroitel' 2 no.10:14-15
0 '56. (MIRA 10:1)

(Gas, Natural--Transportation)

BARIT, S.Yu., inzhener; NIFYAI, N.Y., inzhener.

Registration Building, Moscow, U.S.S.R. Streeted.
Sector, U.S.S.R. (MIA 10-7)
(Construction Industry) (Petroleum Industry)

BARIT, S.Yu.

BARIT, S.Yu.

The book ("Industrial continuous construction of tank farms"
by B.V. Popovskii. Reviewed by S.IU. Barit). Stroi.pred.neft.
prom. 2 no.7:30-31 J1 '57. (MIRA 10:10)
(Tanks) (Popovskii, B.V.)

BARITASHVILI, I.S., akademik, red.; BEKAYA, G.L., red.;
DZIDZISHVILI, N.K., red.; ROYTEAK, A.I., red.; NINUA,
K.V., red.izd-va

[Gagra Symposium] Gagrskie besedy. Tbilisi, Izd-vo AN
Gruz.SSR. Vol.4. [Structural and functional characteristics
of the cortical neurons] Strukturnye i funktsional'nye oso-
bennosti korkovykh neironov. Pod obshchei red. I.S.
Baritashvili. Tbilisi, Izd-vo AN Gruz.SSR. 1963. 405 p.
(MIRA 17:4)

GELINEO, Stefan; BARITCH, Ivan

Contribution to the study of the effect of climate on basal metabolism. Bull. Acad. serbe sc., classe med. 11 no.2:56-70 1954.
(BASAL METABOLISM,
eff. of climate)
(CLIMATE, effects,
on basal metab.)

GELINEO, Stefan; BARITCH, Ivan

The effect of the climate on the Croatian littoral on the respiratory quotient in man. Bull.Acad.serbe sc., classe med. 11 no.2:71-73 1954.

(CLIMATE, effects,
on resp. quotient)
(RESPIRATION,
eff. of climate on resp. quotient)

BARITINA, U.A.

25(1) PHASE I BOOK EXPLOITATION SOV/2280

Chelyabinsk. Politehnicheskii Institut
Voprosy aviaruchnogo proizvodstva (Problems in Welding) Moscow, Mashgiz, 1959. 92 p. (Series: ItS) Sbornik, No. 16). 6,000 copies printed.

Reviewers: F.I. Boykov, Engineer, A.G. Menezhnikopf, I.I. Vinnik, N.A. Elykov, M.A. Karpova, N.I. Andriev, V.R. Solovskoy, L.Ye. Garamah, and M.M. Yegorov; Docent: Ed. (Title p. 1). K.A. Ies Kova, Docent; Ed. (Inside book); A.G. Kozlov; Tech. Ed.: N.M. Dugina; Exsr. Ed. (Ural-Siberian Division, Mashgiz): A.V. Kalatina, Engineer.

PURPOSE: This collection of articles is intended for engineers, technicians and scientific workers.

COVERAGE: This is a compilation of articles written by scientific workers of the Department of Welding Processes and Equipment of the Chelyabinsk Politehnicheskii Institut. The articles deal with little developed or entirely new problems of Practice and theory of welding. The articles cover weldment deformation, welding of strips made of resistance alloys, resistance welding of cast iron to steel, bronze welding, and some problems of vibroelectric arc automation, surfacing by welding and the methods of testing for weldability of thin sheet carbon steel. No personalilities are mentioned. References follow each article.

Yezhkov, K.A., Docent. The Problem of the Weldability of Bronzes 80
The author presents the results of his experimental investigation of electric arc welding of various types of bronzes using coated copper electrodes.

Baritina, V.A. Engineer. Investigating the Transfer of Gas: Electro-Oxide's
The author carries out experiments to determine the coefficients of transfer of metal oxides into slag and the Gas Phase in order to make possible the calculation of ionization of arc gases of the corresponding arc temperature and the cathode voltage drop during welding.

AVAILABLE: Library of Congress

Card 4/4

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10-8-59

2

ZAYKOV, M.A.; TSELUYKOV, V.S.; KAMINSKIY, D.M.; KUENETSOV, A.F.;
BELINSKIY, Ye.D.; SHAMEIS, Ya.V.; FEDOROV, N.A.; BARITSKIY,
S.I.; ZAKHAROV, A.I.; ZHURAVLEV, M.A.; KOBYZEV, V.K.

Investigating energy and power parameters in plate rolling
on reversing mills. Izv. vys. ucheb. zav.; Chern. met. 7
no.2:100-107 '64. (MIRA 17:3)

BARITZ, A.

BARITZ, A. Power economy, use of waste power in the glass industry. p. 190.
Conference of young engineers and technicians. p. 194.

Vol. 8, no. 5, May 1956

EPITOANYAG

TECHNOLOGY

Budapest, Hungary

So: East European Accession, Vol. 6, No. 5, May 1957

Baritz, A.

Simplified computation method for furnaces used by glass industry. p. 322

EPITOANYAG. (Építőanyagipari Tudományos Egyesület)
Budapest, Hungary. Vol. 11, no.9, September 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no.11
November 1959
Uncl.

BARITZ, Arpad

Glass exhibition in Budapest. Epitoanyag 15 no.6:233 Je '63.

BARIYEV, Nazim Vafinovich; DOBROVOL'SKIY, Lev Alekseyevich;
SEDAKOV, Leonid Vasil'yevich; RADIN, V.I., red.;
BUL'DYAYEV, N.A., tekhn. red.

[Amplidyne amplifiers]Elektromashinnyi usilitel' poperechnogo polia. Moskva, Gosenergoizdat, 1962. 55 p. (Biblioteka elektromontera, no.80) (MIRA 16:6)
(Rotating amplifiers)

BAKIN, Boris Vasilovich; 1955, K.I., vol.

[Electric drives of the EK-4 and EK-4, electric drive
actuators] Elektricheskiye dviately i osnastovnyye kharakteristiki
tirovyykh i igruykh, M.: Moskva, Energiya, 1954. 153 p.
Biblioteka inzhenera, no.174 (1954) (1954)

LARIN, Boris Vafinovich; ERLOVA

[Protective ground for electric mine equipment] in
shchitnye zazemlenie sbalbirnykh elektricheskikh priborov.
Moskva, Nedra, 1965. 73 p. (111) (111)

ERIK, Valeria

New tools. Constr Buc 14 no.651:3 30 Je '62.

BARIZ, Valeria

The construction site has another aspect now. (Globe) 15 no.700:3 8 Je '63.

"[Faint, illegible text]

"[Faint, illegible text] p. 17
([Faint, illegible text])

[Faint, illegible text]
p. 10

BARJACTAROVIC, M.

Seasonal pile dwellings on Planica Mountain, off Scutari Lake, p. 799
(GLASNIK Vol. 2/3 1953/54 (Published 1957)

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957
Uncl.

BARJANTARVIC, M.

Lime burning in the region of Vasojevici. p. 817
(GLASNIK Vol. 2/3 1953/54 (Published 1957)

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957
Uncl.

BARJAKTAROVIC, M.

The potters of Arandelovac. p. 821
(GLASNIK Vol. 2/3 1953/54 (Published 1957)

SO: Monthly List of East European Accessions (EEAL) IC Vol. 6, No. 12, Dec. 1957
Uncl.

BARJANTAROVIC, M.

An exhibition and the Museum of the First Serbian Insurrection. p. 971
(GLASNIK Vol. 2/3 1953/54 (Published 1957)

SO: Monthly List of East European Accessions (EEAL) IC Vol. 6, No. 12, Dec. 1957
Uncl.

BARJANTARCVIC, M.

My reply to Dr. Milenko S. Filipovic's criticism. p. 979
(GLASNIK, Vol. 2/3 1953/54 (Published 1957))

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957
Uncl.

BARJAKTAROVIC, M.

A review of Dr. Jovan Kujacic's book Some Contributions to the History of Health Culture in Montenegro till the End of 1918. p. 1029.
(GLASNIK, Vol. 2/3 1953/54 (Published 1957)

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957
Uncl.

BARJAKTAROVIC, M.

A review of Milorad Milosevic-Brevinac's book The Manufacture and Selling of Tar in Studenica District. p. 1031.
(GLASNIK, Vol. 2/3 1953/54 (Published 1957)

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957
Uncl.

SECRET

1. The information contained in this report is classified "Secret" because it is information that is so classified by the original source.

2. The information contained in this report is classified "Secret" because it is information that is so classified by the original source.

BARJAKTAREVIC, M.

Continuous functions of some iterated series. In French. p. 13.

Srpska akademija nauka. Matematički institut. PUBLICATIONS. Beograd, Yugoslavia. Vol. 8, 1955

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Uncl.

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Solutions of certain functional equations representable by series. Glas mat fiz Hrv 17 no.1/2 27-41 '63 [publ. '63].

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A generalization of quasilinear means. Publ Inst math
SARAJEVO 3:69-76 '63.

SMODLAKA, Jakov; NIKOLIC, Milisav; BARJAKTAROVIC-NIKOLIC, Kosara

Electroencephalography in acute vascular brain diseases. Srpski
arh. celok. lek. 90 no.7/8:721-726 J1-Ag '62.

1. Neuropsihijatrijska klinika Medicinskog fakulteta Univerzita-
teta u Beogradu Upravnik: prof. dr. Uros Jekic.

(ELECTROENCEPHALOGRAPHY)
(CEREBROVASCULAR DISORDERS)

TANZANIA, B.

"Coccolinga - an industrial cooperative." p. 17 (C. 107) in: *Journal of Tropical Geography*, vol. 10, no. 2/3, Feb./Mar. 1952, London, Y. K. Lewis.

SI: *Yearly List of Post European Accessions*, Vol. 2, 53, Library of Congress
Annex, 1953, Wash.

BARJAKTAROVIC, A.

Profitableness of investment in construction equipment. p. 17

IZGRADNJA, Beograd, Vol 9, No. 7, July, 1955

SO: East European Accessions List, Vol 5, No. 10, Oct., 1956

BARJAKTAROVIC, M. R.

Yugoslavia (430)

Geography, Anthropology, Sports
and Games - Serials

Albanian family "collectives" in Metchija,
with members belonging to different
churches, the Roman Catholic and the
Orthodox Eastern. p. 197. INTERNATIONAL
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Congress, Vol. 1, no. 13, November 1952.
UNCLASSIFIED "Card 1 of 2"

BARJAKTAROVIC, M. R.

Yugoslavia (L30)

of Yugoslavia) Beograd. (Papers of the
Ethnographic Institute of the Serbian
Academy of Sciences. Summaries in foreign
languages). Vol. 4, no. 1, 1950.

East European Accessions List. Library of
Congress, Vol. 1, no. 13, November 1952.
UNCLASSIFIED

"Card 2 of 2"

PARJANTARONIC, S.

Mechanism of the ovulation of women.

P. 1 (Belgrade. Institut za fiziologiju razvika, genetiku i selekciju. SPORNI RADOVI.
No. 4, 1980. Beograd, Yugoslavia)

Monthly Index of East European Accessions (FEAI) 13.Vol.7, no. 2,
February 1988

PARJUMBARIC, S.

A study, by means of basic temperature, of the ovarian functions of women during physiological amenorrhea.

S. 9 (Belgrade. Institut za fiziologiju razvika, genetiku i selekciju. ŽENSKIH ŽIVOTA. No. 4 1950. Beograd, Yugoslavia)

Mental Index of East European Accessions (EEAI) LC. VOL. 7, no. 2, February 1958

NIKOLIC, Milisav; BARJAKTAROVIC-NIKOLIC, Kosara; TEODOSIJEVIC, Dusan

4 cases of dermatomyositis. Srpski arh. celok. lek. 89 no. 4: 477-483
Ap '61.

1. Neuropsihijatrijska klinika Medicinskog fakulteta Univerziteta u
Beogradu. Upravnik: prof. dr Uros Jekic, Psihijatrijska bolnica u
Beogradu. Upravnik: prim. dr Stevan Jovanovic.

(DERMATOMYOSITIS case reports)

15

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BOLSZAKOW, Zbigniew, mgr.inz.; BARJASZ, Wlodzimierz, mgr.inz.

The transistorized bridge type repeater. Przegl telekom 34
no.10:293-300 0 '61.

BARK, L.S.; GANSON, P.P.; MEYSTER, N.A.; DOBROVOL'SKIY, A.D., prof.,
otv.red.; KORKINA, A.I., tekhn.red.

[Tables of the speed of sound in sea water] Tablitsy skorosti
zvuka v morskoi vode. Moskva, Vychislitel'nyi tsentr AN SSSR,
1961. 180 p. (MIRA 14:6)
(Sound--Speed)

BARK, L.S.; KUZNETSOV, P.I.; DITKIN, V.A., prof., otv. red.;
ORLOVA, I.A., red.; KORKINA, A.I., tekhn. red.

[Tables of cylindrical functions of two imaginary variables]
Tablitsy tsilindricheskikh funktsii ot dvukh mnimyykh peremen-
nykh. Moskva, Vychislitel'nyi tsentr AN SSSR. 1962. 263 p.
(MIRA 15:7)

(Functions)

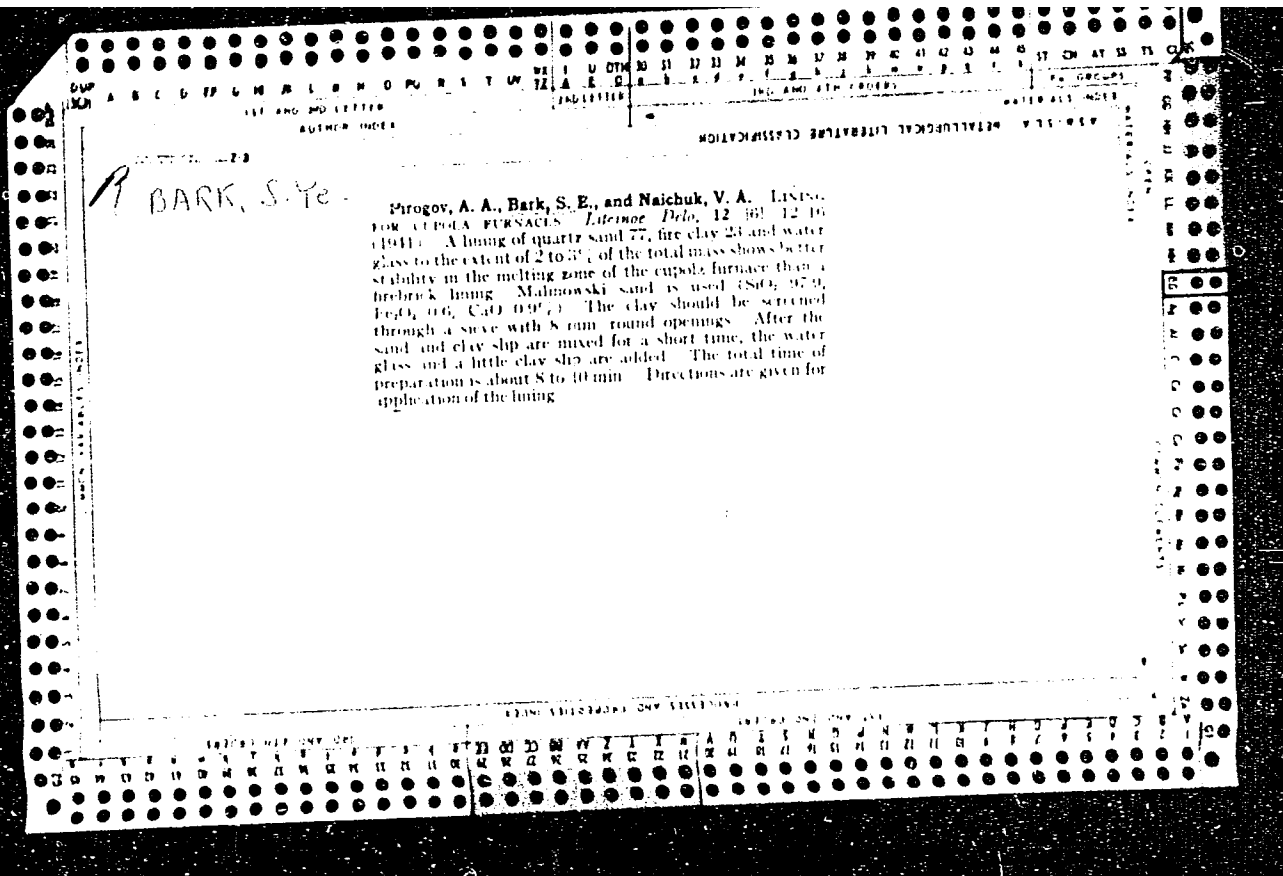
BARK, L.S.; B. L. BARK, L.S.; B. L. BARK, L.S.; B. L. BARK, L.S.;
BARK, L.S.; B. L. BARK, L.S.; B. L. BARK, L.S.; B. L. BARK, L.S.

(Rayleigh-Rice table of the first 100 terms of the
series for the function $\frac{1}{1-x}$ in the interval $0 < x < 1$,
1961. 15 p. (11.1.18.1))

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LL LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NM NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ

PROCESSES AND PROPERTIES INDEX
 BARK, S. Ye.
 Economical consumption of cast iron turnings. V. I. Petatskiy and S. E. Bark. *Litvno Delo* 11, No. 8-9, 21-4 (1940); *Chem. Zentr.* 1941, II, 104-5. Ten to 15% of a cupola charge consisted of Fe turnings briquetted with fire clay and lime. In one case only were improved strength properties obtained. W. A. Mudge

METALLURGICAL LITERATURE CLASSIFICATION
 671.77



BARK, S.YE

✓ 4401. GAS PRODUCER WITHOUT A LINING. Bark, S.E. (Gaz. Prom. (Gas Ind., Moscow), July 1956, 19-21). An account and drawing are given of a producer in which steam for the blast is generated in a water jacket. (L).

Gaz. Prom. No. 7, 19-21 July 1956.

BARK, S.YE.

3461. METHODS FOR RAISING THE HEAT CONTENT OF THE GAS AND THE EFFICIENCY OF THE GAS PRODUCER. Bark, S.Ye. and Dalryev, I.M. (Gaz. Prom. Mas. Ind. Moscow), Dec. 1956, 19-20, abstr. in Chem. Abstr. 1957, vol. 51, 6979). In the gasification of low moisture anthracite the sensible heat of the gas at 500 to 550°, lost on water cooling, may equal 10% of the total thermal content of the fuel. A set provided with a steam superheater and an air preheater is illustrated with scale drawings. Summarized, the construction and operating features are: (a) automatic charging; (b) setting of cast iron plates at the entrance to the superheater to protect the pipes against the erosive action of dust in the gas; (c) maintenance of the gas velocity at 10-12 m/sec, sufficiently high to prevent deposition of dust on the tubes; (d) limitation of steam velocity to 25 m/sec to avoid excessive pressure drops; (e) provision for counter flow of steam and gas in the exchange systems for optimum heat recovery; (f) an arrangement for water sprinkling of the superheater tubes while the producer is at low charge or better, after cutting it out of the circuit.

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MT

BARK, S. Ye

GINZBURG, D.B., doktor tekhnicheskikh nauk, redaktor; KANTOROVICH, B.V., doktor tekhnicheskikh nauk, professor, redaktor; FUFYANSKIY, N.A., doktor tekhnicheskikh nauk, professor, redaktor; BARK, S.Ye., inzhener, redaktor; POLUBOYARINOV, G.N., inzhener, redaktor; MARTYNOVA, M.P., vedushchiy redaktor; IL'IN, B.M., tekhnicheskiy redaktor

[Gasification of solid fuel; transactions of the 3rd scientific and technical conference] Gazifikatsiya tverdogo topliva; trudy tret'ei nauchno-tekhnicheskoi konferentsii. Moskva, Gos. nauchno-tekhn. izd-vo nef'tianoi i gorno-toplivnoi lit-ry, 1957. 373 p. (MLRA 10:4)

1. Nauchno-tekhnicheskoye obshchestvo energeticheskoy promyshlennosti. Moskovskoye oblastnoye pravleniye.
(Coal gasification) (Gas producers)
(Peat gasification)

BARK, S.Ye.; MARTYNOVSKIY, L.M.; SKVORTSOVA, M.I.

Increasing the productivity of large cast iron melting cupolas by
using cold blast. Lit.proizv. no.1:2021 Ja '57. (MLRA 10:3)
(Cupola furnaces)

11(3) PHASE I BOOK EXPLOITATION 307/2284

Nauchno-tekhnicheskoye obshchestvo energeticheskoy promyshlennosti Moskoyevykh provintsiy

Iskol' sovremnyye gaz v promyshlennyykh predpriyatiyakh i kotel'nykh ustroystvakh g. Moskva i Moskoyevykh oblasty; materialy Moskoyevykh nauchno-tekhnicheskogo sveshchaniya (Utilization of Gas in Industrial Furnaces and Boiler Units in Moscow and Moscow Oblast); Materialy of the Moscow Scientific and Technical Conference Moscow, Gosopttekhizdat, 1959. 227 p. Errata slip inserted. 5,000 copies printed.

Zhukov, B. B. Gashberg, Doctor of Technical Sciences; Exec. Ed.; M. I. Stepanovskiy, Tech. Ed.; A. S. Polonskiy.

NOTE: This collection of articles is intended for specialists engaged in designing and operating gas units of industrial enterprises and electric power plants.

COVER: The change-over in some industrial enterprises from solid and liquid fuel to natural gas is discussed and further possibilities existing along this line are examined. Advantages of using natural gas as a source of energy are outlined. Different gas burner systems, devices for automatic control of the combustion process, structural features of furnaces operating on natural gas, gas-supply systems and the introduction of safety measures in the construction and operation of gas units are described. The book contains many diagrams of gas-supply systems and equipment. No personalities are mentioned. One article is followed by references.

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BARK, S.Ye.; KUVSHINNIKOV, V.M.; MARTYNOVSKIY, D.M.; MEDVEDEV, Ye.V.;
SKVORTSOVA, M.I.; USTINOV, V.A.

Multiject burners with individual mixers and a gas colled crater.
Gaz. prom. 4 no.2:17-23 F '59. (MIRA 12:3)
(Gas burners)

S/182/60/000/003/004/007
A161/A029

AUTHORS: Bark, S. Ye ; Kozlova, A.V. ; Kuvshinnikov, V.M. ; Skvortseva, M.I. ; Ustinov, V.A.

TITLE: Non-Oxidant Steel Heating in Continuous Three-Zone Furnace With the Use of Oxygen

PERIODICAL Kuznechno-shtampovochnoye proizvodstvo, 1960, No. 3, pp. 28 - 33

TEXT: The article contains a brief discussion of the general design principles of new heating furnaces developed in the USSR (at TsNIITMASH, Teploproyekt, ZIL) and by "Incandescent" (British), working with heated air, and detailed description of an experimental furnace using air mixed with oxygen and natural gas. The advantage of the new design is its simplicity and dependable operation. The furnace (Fig. 4, drawing) has three chambers, all 240 mm wide and 420 mm high, with a 140 mm groove in the bottom. Steel blanks are pushed into the grooves. There are 4 burners in the first 980 mm long chamber (design of the burner described and shown in Fig. 2). The second 700 mm long chamber is separated by a wall from the first, and the products of incomplete combustion get into the second through an opening in the wall. The second chamber is separated

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S/182/60/000/003/004/007
A161/A029

Non-Oxidant Steel Heating in Continuous Three-Zone Furnace With the Use of Oxygen

into two horizontal compartments by a carborundum plate; incomplete combustion products flow through it, and air is let in by a 40 mm diameter opening to continue combustion. Air is let also into the third 280 mm long chamber where combustion is completed. Operation is controlled by throttle diaphragms. The furnace frame is sealed tight, and covers in the vault are sealed with sand. Heated blanks move out through an opening in the bottom fitted with a special door. The walls are screened off with duralumin sheets to keep down the temperature on the outside. The combustion products pass through a recuperator out of the building, and a smoke exhauster on the way from the charging door prevents combustion products from bursting out into the shop. The work capacity of the furnace is 207 to 259 kg/h. Blanks are pushed in (by the pusher, "6" in Fig. 4) every 2.5 min. The furnace operation is described. The data include the quantities of gas and oxygen used; the temperature of air fed into the burners; the chemical composition of combustion products in the chambers, etc. Metal structure shown in two photographs (Figs 6 and 7) is obtained ("a") after non-oxidant heating to 1,250°C, and ("b") after subsequent water quenching and normalization (packing in cast iron chips). The furnace design has proved suffi-

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S/182/60/000/003/004/007
A161/A029

Non-Oxidant Steel Heating in Continuous Three-Zone Furnace With the Use of Oxygen

ciently good to start design development and output for the industry. It is concluded that in further work the furnaces may be improved to raise their efficiency from 24 - 28 to 40%, and cut the oxygen consumption from 50 - 60 to 35 - 40 m³/ton. Besides, regenerative furnaces must be further studied in which air is heated to 1,000°C and protective atmosphere fed to the blank surface. There are 7 figures.



Card 3/3

RAFALOVICH, Iosif Markovich, prof., doktor tekhn. nauk; BARK, S.Ye., red.;
UMANSKIY, V.I., red. izd-va; KARASEV, A.I., tekhn. red.

[Natural gas as fuel for metallurgical furnaces] Prirodnyi gaz kak
toplivo metallurgicheskikh pechei. 2. izd. Moskva, Gos. nauchno-
tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 324 p.
(MIRA 14:12)

(Metallurgical furnaces)

(Gas, Natural)

BARK, S-4

128

PHASE I BOOK EXPLOITATION

SOV/6246

Soveshchaniye po tseolitam. 1st, Leningrad, 1961.

Sinteticheskiye tseolity; polucheniye, issledovaniye i primeneniye
(Synthetic Zeolites: Production, Investigation, and Use). Mos-
cow, Izd-vo AN SSSR, 1962. 286 p. (Series: Its: Doklady)
Errata slip inserted. 2500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Otdeleniye khimicheskikh
nauk. Komisiya po tseolitam.

Resp. Eds.: M. M. Dubinin, Academician and V. V. Serpinskiy, Doctor
of Chemical Sciences; Ed.: Ye. G. Zhukovskaya; Tech. Ed.: S. P.
Golub'.

PURPOSE: This book is intended for scientists and engineers engaged
in the production of synthetic zeolites (molecular sieves), and
for chemists in general.

Card 1/12

Synthetic Zeolites: (Cont.)

SOV/6246

COVERAGE: The book is a collection of reports presented at the First Conference on Zeolites, held in Leningrad 16 through 19 March 1961 at the Leningrad Technological Institute imeni Lensovet, and is purportedly the first monograph on this subject. The reports are grouped into 3 subject areas: 1) theoretical problems of adsorption on various types of zeolites and methods for their investigation, 2) the production of zeolites, and 3) application of zeolites. No personalities are mentioned. References follow individual articles.

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Synthetic Zeolites: (Cont.)

SOV/6246

Bark, S. Ye., N. V. Kel'tsev, I. P. Ogloblina, N. M.
Sergeyeva, M. I. Skvortsova, and N. S. Torozheshnikov.
The Application of Synthetic Zeolites as Molecular
Sieves for Preparing Protective Atmospheres

276

AVAILABLE: Library of Congress

SUBJECT: Chemical Engineering

Card ~~12/12~~ 3/2

BN/fmr/jk
3/13/03

BARK, S.Ye., red.; VIDGORCHIK, D.Ya., red.; KACHUR, O.Yu., red.;
RAVICH, M.R., red.; TSIKERMAN, L.Ya., red.; PANKRATOVA,
O.M., ved. red.

[Use of gas in industry] Ispol'zovanie gaza v promyshlen-
nosti. Moskva, 1962. 109 p. (MIRA 16:10)

L. Institut tekhnicheskoy informatsii i ekonomicheskikh
issledovaniy po neftyanoy i gazovoy promyshlennosti.
(Gas as fuel)

BARK, S.Ye.; KUVSHINNIKOV, V.M.; KHOLMOGOROVA, L.V.

~~_____~~
Radiating pipe as heater for controlled atmosphere furnaces.
Metalloved. i term. obr. met. no.6:53-59 Je '63.
(MIRA 16:6)
(Furnaces, Heating--Protective atmospheres)
(Heat--Radiation and absorption)

BARK, S.Ye.

Radiation pipes for gas furnaces. Gaz. delo no.12:38-42 '64.
(MIRA 18:2)

1. Avtozavod im. Likhacheva.

BAKH, S.Ye.

Multinozzle injection burners with a stabilizing zone. Gaz.prom.
10 no.3:27-31 '65. (MIRA 18:5)

BARK, S.Ye.; DOLOTOV, G.P.

Smelting cast iron using natural gas. Gas.prom. 10 no.2:27-31
'65. (MIRA 18:12)

C.A.

114

The mechanism of the acute effect of goitrogenic agents as manifested by diminished oxygen consumption and body temperature. * László Balogh, Ilona Barka, Szilárd Donhofer, Pongrácz József, and Gyula Mészáros (Univ. Press Hung.: *Kísérletes Orvostudomány* 2, 300-310, 1950), cf. C. I. 43, 1237A, 7217. Thyroidectomized rats receiving 0.01 g. aminothiuronol (T) showed diminished O consumption and lowered body temps. This effect was not influenced by the simultaneous administration of 5.0 x thyroxine. If 0.0015 g. *o*-nitrophenol was administered to rats during the period of the T effect, the O consumption was considerably raised in hypophysectomized, thyroidectomized, and normal rats. The T effect was not influenced by cutting the dorsal medulla spinalis while cervical spinal section abolished it. This indicates that the effect of T and other goitrogenic agents is accomplished through the central nervous system. 17 references. Istvan Finály

MESTYAN, G.; BARKA, I.

Effect of methylthiouracil and methylsulfathiazol on the body temperature and oxygen consumption of the rat. Orv.hetil. 91 no.33:1010-1012 13 Aug 50. (GLML 20:5)

1. Of the Pathophysiological Institute, Pecs University.

BALOGH, I.;BARKA, I.;DONHOFFER, S.;JILLY, P.;NESTIAN, G.

The acute action of antithyroid agents on the body temperature and O₂ consumption of the rat and analysis of its mechanism. Acta physiol. hung. 2 no.3-4:343-362 1951. (CIML 22:1)

1. Of the Institute of Pathophysiology of Pecs University.

BARKA I.; NESTYAN G., HAGY L.

A pyrazidon hatásá patkányok O_2 -fogyasztására. /Effect of
pyrazidon on O_2 consumption of the rat/ Kísérletes orvostud.
3:3 1951 p. 165-9.

1. Pathophysiological Institute, Eötvös University.

CMDL 20, 10, Oct. 51

BARKA, I. 1951

(Korelettani Intezere, U. of Pecs.)

"Role of the Hypothalmus un the Acute Effect of Aminothiez Azole on Body Temperature and Oxygen Consumption."

Kiserl. Orvostud. Budapest, 1951, 3/3 (179-183)
Abst: Exc. Med. 11, Vol. 5, No. 3, p. 360

CA

116

Effect of small doses of thyroxine on the oxygen consumption of normal, thyroidectomized, and hypophysectomized rats. L. Balogh, I. Barka, S. Donhofer, P. Jilly, and G. Mestyán (Univ. Pecs, Hung.). *Z. Vitamin-, Hormon- u. Fermentforsch.* 4, 265-77(1951) (in English); *ibid.* C.I. 45, 7217f.---The 3 groups of rats gave essentially the same result. The usual response to thyroxine was an increase in O consumption and metabolic rate.

Erich Hirschberg

CA

117

Effect of small and large thyroxine doses on the oxygen uptake of rats. L. Balogh, I. Barka, Sz. Donhofer, P. Jilly, and Gy. Mestyan (Univ. Pecs, Hungary). *Endocrinologie* 28, 18-24(1951).—Thyroxine doses within the physiol. range bring about an immediate rise in metabolism, whereas the more usual large doses affect the O uptake only after a latent period. The difference in behavior is attributed entirely to the dosage. S. Morgulis

1957

KERPÉL-FRÖNIUS, E.; MESTER, A.; SZY, S.; BARKA, I.; ZSAMAR, E.; KELEMEN, I.

Resorption of sugar and fat in experimental anhydremia and hypothermia. Acta med. hung. Suppl. 6 no.1:73-75 1954.

1. Kinderklinik der Medizinischen Universität, Pécs.

(BLOOD

anhydremia, eff. on gastrointestinal resorp. of sugar & fat in hypothermia)

(GASTROINTESTINAL SYSTEM, physiol.

absorp. of sugar & fat, eff. of anhydremia & hypothermia in rats)

(BODY TEMPERATURE

hypothermia, exper., eff. on gastrointestinal absorp. of sugar & fat in rats)

(DEHYDRATION, exper.

eff. on gastrointestinal absorp. of sugar & fat in hypothermic rats)

(GLUCOSE, metab.

gastrointestinal absorp., eff. of anhydremia & hypothermia in rats)

(FATS, metab.

gastrointestinal absorp., eff. of anhydremia & hypothermia in rats)

KERPÉL-FRONIUS, Odon, dr.; BARKA, Ilona, dr.; MESTER, Antal, dr.; ZSAMAR,
Erzsebet, dr.; SZY, Sándor, dr.; KELEMEN, Ilona, dr.

The resorption in experimental anhydremia and hypothermia. Orv. hetil.
95 no.47:1292-1296 21 Nov 54.

1. A Pécsi Orvostudományi Egyetem Gyermekklinikájának (igazgató:
Kerpél-Fronius Odon, dr. egyet. tanár) közleménye.

(FAT, metab.

gastrointestinal absorp. in exper. anhydremia & hypothermia
in rats)

(GLUCOSE, metab.

gastrointestinal resorp. in exper. anhydremia & hypothermia
in rats)

(BLOOD

anhydremia, eff. on glucose & fat resorp. by intestines
in rats)

(BODY TEMPERATURE

hypothermia, exper., eff. on gastrointestinal glucose &
fat absorp. in rats)

(WATER, in blood

defic., exper., eff. on gastrointestinal glucose & fat
absorp. in rats)

BARKA. K.

A contribution to the study of the effect of manuring on the yield of the seeds of the buckwheat (*Fagopyrum esculentum*) p. 19

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Vol. 2, No. 10. October, 1955.

SOURCE: East European Accessions List (EEAL) Library of Congress. Vol. 5, No. January. 1956.

BARKA, T. 1951

(Anat. -biol und Physikal Inst. U. of Debrecen)

"Quantitative Development of Histochemical Tests by the Use of Metallic Isotopes."

Acta Physiologica Budapest, 1951, 2/1 suppl. (56)
No abst. in Exc. Med.

CA

11F

Quantitative estimation of alkaline phosphatase in sympathetic ganglions and of its changes during pregnancy. Béla Aros, Tibor Barka, Zoltán Posilaky, and Gabriella Gereze. *Acta Morphol., Acad. Sci. Hung.* 1, 377-86

(1954).—Alk. phosphatase activity of sympathetic ganglia of the cat, rabbit, and guinea pig was detd. by 2 methods: (1) the histochem. method of Gomori (*C.A.* 35, 2015⁹) and Takamatsu (*C.A.* 38, 3689⁹) and (2) a quant. adaptation of the Gomori method in which Th B was added to the Pb reagent as tracer. The P/S is thus measured. Activity is localized chiefly in interstitial elements (nerve fibers and sheaths, capsule and glial cells). Slight amts. are found in the nuclear membrane and nucleolus and in the Nissl region of the cytoplasm. 50% more activity is found in the superior cervical ganglia than in the inferior cervical and coeliac. Ganglia of pregnant rabbits had significantly higher activity than those of nonpregnant and male rabbits.

B. R. Hayes

BARKA, T

HUNG

AD
3

Biology and measurement of the activity of the reticulo-endothelial system of the liver. I. Toro, T. Barka, H. Aros, and Gy. Velosy. *Acta Physiol. Hung.* 7, 121-62 (1951); *Biol. Abstr.* 27, 86(1952); cf. *C.A.* 45, 1630c. — Microchem. detn. of the Ag content of the liver after injection of colloidal Ag permits evaluation of the activity of the reticulo-endothelial system. This activity was increased in rats by embryonic tissue and 0.2 mg./kg. adrenaline, and reduced by colloidal Cu, adrenalectomy, and alloxan; atropine, acetylcholine, prostigmine, and pilocarpine were ineffective. Histamine (0.1-50 mg./kg.) had no effect on storage of Ag in the normal rat, but increased storage in the adrenalectomized animal. A. M. M.

also: *Kuorl. Orvostud.* 1951, 3/5 (352-357)
Inst: Inst. of Biology & Anatomy,
Debrecen Univ.

BARKA, T.; AROS, B.; TORO, I.

Data on the relation of the reticuloendothelial system and the
adrenal cortex. Kiserlates Orvostud. 3 no. 4: 342-351 1951
(LML 21:3)

1. Institute of Biology and Anatomy, Debrecen University.

KERTESZ, L.; AROS, B.; BARKA, T.; POSALAKY, Z.

Distribution of tagged bismuth colloid in the organs of chick embryo with special reference to liver storage. Acta physiol. hung. 4 Suppl:35-36 1953. (CLML 25:1)

1. Of the Institute of Experimental Physics of Debrecen University and of the Histo-Embryological Institute of Budapest University.

POSALAKY, Z.; BARKA, T.; TORO, J.

Histo-chemical studies on liver tissue culture, with special reference
to behavior of the explant. Acta physiol. hung. 4 Suppl:36-37 1953.

(CMLL 25:1)

1. Of the Histo-Embryological Institute of Budapest University.

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(DYES, effects,

Janus green B, on Ehrlich tumor, plasmatic budding)

(NEOPLASMS, experimental,

Ehrlich tumor, eff. of Janus green B, plasmatic budding)