FRIEDBERGER V.

3354. (636) FRIEDBERGER V. and NECHANICKÝ R. *Předpoklady dobrých vÿs-
ledkū při vnitrodřeňovēm zhřebovánǐ. Conditions for good results
in intra-medullary pinning ROZHL. CHIR. 1956, 35/5 (292-298)
Experience with intramedullary pinning of 62 different fractures is given. The
authors prefer the open to the closed method. It gives the best results in trans-
verse fractures in the medial part of the femur and humerus and is suitable even
in the case of open wounds. The pins should be strong and long enough as im-
mobilization must be complete. In oblique and spiral fractures and in the case of

3354   CONT.

fractures of the tibia it is necessary to add a wire loop, immobilizing plaster, etc.
The time for unio.. .s the same as with other methods of treatment.

Niederle - Prague

FRIEDBERGER, V

MARESOVA, Z.; MACH, O.; FRIEDBERGER, V.; FASSATI, P.

Dissolution of gallstones with bromoform. Cas. lek. cesk.
96 no.6:179-182 8 Feb 57.

1. III. Interni Klinika KU, prednosta akademik J. Charvat a II.
Chirurgicka Klinika KU, prednosta: akademik J. Divis. Z. M.,
Praha 2, Plavecka 3.
       (CHOLELITHIASIS, ther.
            bromoform, statist. (Cz))
       (BROMIDES, ther. use
            bromoform in cholelithiasis, statist. (Cz))

LHOTKA, J.; CHMEL, K.; FRIEDBERGER, V.; SMAT, V.; BOREK, Z.

Traumatic perforation of the esophagus. Rozhl.chir. 40 no.2-3:
147-149 Mr '61.

1. II.chirurgicka klinika FVL, prednosta doc.dr. J.Lhotka.
(ESOPHAGUS wds & inj)

ROSCH, Josef; FRIEDBERGER, Vilem

Rupture of the spleen as a complication of splenoportography.
Cesk. rentg. 15 no.3:212-216 '61.

1. Rentgenove oddeleni Ustredni vojenske nemocnice v Praze,
prednosta MUDr. Frantisek Sykora, a II. chirurgicka klinika KU
v Praze, prednosta doc. MUDr. Jaroslav Lhotka.

(ANGIOGRAPHY compl)   (SPLEEN dis)

JEKLER, J.; FRIEDBERGER, V.

Lymphoreticular sarcoma of the stomach. Cesk. gastroent. vyz.
15 no.7:523-527 N '61.

1. II chirurgicka klinika KU, predn. doc. J. Lhotka.
        (STOMACH NEOPLASMS in old age)
        (SARCOMA RETICULUM CELL in old age)

FRIEDBERGER, V.; MICHNEVIC, I.; SCHLUPEK, A.

Sarcoma of the femur neck treated by resection and a dervi-
cocapital prosthesis. Rozhl. chir. 42 no.7:505-507 Jl '63.

1. II chirurgicka klinika fakulty vseobecneho lekarstvi KU v
Praze, prednosta prof. dr. J. Lhotka, CSc. II patologicko-
anatomicky ustav fakulty vseobecneho lekarstvi KU v Praze,
prednosta prof. dr. V. Jedlicka, DrSc.
            (BONE NEOPLASMS)   (FEMUR NECK)
            (COBALT ISOTOPES)   (RADIOISOTOPE TELETHERAPY)
                        (PROSTHESIS)

FRIEDBERGER, V.

Reconstruction of the cruciate ligament with meniscus. Rozhl.
chir. 43 no.7:486-490 Jl '64.

1. II chirurgicka klinika fakulty vseobecneho lekarstvi Karlovy
University v Praze, (prednosta prof. dr. J. Lhotka).

FRIEDBERGER, V.; LANGER, L.; BOREK, Z.; HORAK, J.

Problems of massive hemorrhage into the alimentary tract.
Rozhl. chir. 43 no.8:557-565 Ag '64.

1. II chirurgicka klinika fakulty vseobecneho lekarstvi
Karlovy University v Praze, (prednosta prof. dr. J. Lhotka).

FRIEDBERGER, V.

Problems and prospects of traumatology. (Reflections on the subject "Apropos of the concept of surgery"). Cas. lek. cesk. 103 no.33:897-902 14 Ag '64.

1. II chirurgicka klinika fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta prof. dr. J. Lhotka).

JEKLER, J.; BOREK, Z.; VINCENCOVA, B.; FRIEDBERGER, V.

Surgical treatment of extrahepatic portal hypertension. Rozhl.
chir. 43 no.8:505-513 Ag '64.

1. II chirurgicka klinika fakulty vseobecneho lekarstvi Karlovy
University v Praze (prednosta prof. dr. J. Lhotka).

KECLIK, M.; FRIC, P.; HUSLAROVA, A.; HORACEK, F.; KOVAROVA, M.;
FRIEDBERGER, V.

Preoperative diagnosis of anicteric obstructions of the
choledochus. Cas. lek. cesk. 104 no. 21:566-572 28 My'65.

1. Interni oddeleni fakultni polikliniky Karlovy University,
v Praze (vedouci: prof. dr. K. Herfort, DrSc.); Centralni
rentgenove oddeleni Takultni polikliniky Karlovy University
v Praze (vedouci: MUDr. F. Horacek) a II. chirurgicke kli-
nika fakulty vseobeoneho lekarstvi Karlovy University v Praze
(prednosta: prof. dr. J. Lhotka, DrSc.).

Diagnosis

LANGER, L.; FRIEDBERGER, V.; BOREK, Z.; HORAK, J.; 2nd Surgical
Clinic, Faculty of General Medicine, Charles University (II.
Chirurgicka Klinika Fakulty Vseobecneho Lekarstvi KU), Prague,
Head (Prednosta) Prof Dr J. LHOTKA.

Abstract /Authors' English summary modified_7: Diagnosis of acute
gastroduodenal ulcer bleeding and diagnostic problems of eso-
phageal varix bleeding are discussed. Acute bleeding during cor-
ticosteroid treatment and the difficulty of diagnosis of this bleed-
ing are discussed. Hemorrhagic gastritis, like acute ulcers with
profuse bleeding, usually results in an operation without a prelim-
inary diagnosis of the actual condition of the patient. X-ray ex-
amination during bleeding is beneficial to the patient. 1 Table,
no references. (Manuscript received Oct 65).

1/1

FRIEDE, Rudolf, promovany ekonom.

FRIEDE, Rudolf

Classification of work in capitalist countries. Prace mzda
10 no.7:329-335 Jl '62.

FRIEDE, Rudolf

Criteria in the classification of functions of technical and
office workers. Prace mzda 11 no.5:205-210 My '63.

1. Vedeckovyzkumne stredisko Statni mzdove komise.

FRIEDEL, J.

"Why is the Quality of Ceramic Bricks Poor?"). 213. (PRZEGLAD BUDOWLANY, Vol. 26, No. 7, July 1954. Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955 Uncl.

FRIEDEL, Jan

A contest for a resort district Jaszowieo in the regional Silesia resort Wisla Ustron. Architektura Pol no.7/8:300-303 '61.

FRIEDJUNG, H.

"Methods for measuring labor productivity in consumer industry."

p. 210 (Kozarstvi) Vol. 6, no. 12, Dec. 1956.
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
    April 1958

FRIEDKA, Jerzy, mgr inz.

Storage capacity measurements of capacitors without disconnecting
the bank. Wiad elektrotechn 31 no.3:58 Mr '63.

FRIEDL, DUSAN

Plant (control) metallography of sintered carbides.
Jaromir Plašar and Dušan Friedl (Závod prvni pětiletky,
Šumperk, Czech.). Hutnické Listy 8, 246-6(1953).—A re-
view on plant control metallography of sintered carbides
grade "G," i.e., WC + Co, "H," i.e., WC + Co and small
amt. of other carbides, "H1" and "G1," i.e., "H" and
"G," resp., with only small amt. of Co, "S," i.e., WC +
TiC + Co, "S1," "S2," and "S3" (the latter contains rela-
tively more undissolved WC particles).   F. J. H.

DUSAN FRIEDL

27

Reduction of domestic [Czech] tungstic acid to tungsten of the desired grain size. Dušan Friedl. (Závod prvni pětiletky, Šumperk, Czech.). Pohesky-črdíkové met., Sbornik konf., Brno 1953, 196-204(Pub. 1954).—The reduction of WO_3 proceeds at different rates, depending on the temp.: (a) $2WO_3 + H_2 \rightleftharpoons W_2O_5 + H_2O$; (b) $W_2O_5 + H_2 \rightleftharpoons 2WO_2 + H_2O$; (c) $WO_2 + 2H_2 \rightleftharpoons W + 2H_2O$. The crystals of W_2O_5 and WO_2 grow at different rates; therefore, in the reduction of WO_3, by adjusting the temp., the grain size of the final W is controlled. To obtain a W powder of 1-5 μ, keep the temp. during (a) at 600-800, during (b) at 700-800, and during (c) at 900°. By prepg. the WO_3, W_2O_5, and WO_2 separately and grinding, grain sizes can be prepd. in rather narrow ranges, such as 0.2-0.6, or even 0.5-0.6 μ.

Werner Jacobson

JW
1/1   Distr: 4E2c

Distr: 4E2c

Electron-microscopy in powder metallurgy. Dušan Friedl (Závod první pětiletky, Šumperk, Czech.). *Pokroky práškové met., Sborník konf., Brno* 1953, 678-89(Pub. 1954).—A general discussion, showing electron micrographs of WO_3, W, and WC in various states of manuf. and various states of purity and crystn.   Werner Jacobson

Plant (control) metallography of sintered carbides. Jaromir FLAŠAR AND DUŠAN FRIDRI. Hutnické Listy 8, 246 6? (1953). Chem. Abstr. 49 6967 (1955). – A review on plant control metallography of sintered carbides grade G, i.e., WC + Co, "H," i.e., WC + Co and small amounts of other carbides, "G1," i.e., "H" and "G," respectively, with only small amounts of Co, "S," i.e., WC + TiC + Co, "S1," "S2," and "S3" (the latter contains relatively more undissolved WC particles).

FRIEDL, G.

CA

15-A

Lime-sulfur insecticides. Calcium pentasulfide. Gustav Friedl.—Hung. 128,870, Jan. 2, 1942. To 500 l. boiling water are added 210 kg. powd. S, then 81 kg. lump CaO in small portions; boiling is continued for 2-3 min. The soln. is cooled, and led to crystg. containers. From the cryst. mass is obtained pure CaS₅, and the mother liquor is suitable for insecticide sprays.   I. P.

ASM, SLA   METALLURGICAL LITERATURE CLASSIFICATION

C. A. FRIEDL, G.

/5A

Insecticides Gusztav Friedl Hung 138,461, May 15, 1948. Several compds are given: (1) 1,3-diphenyl-1,3-dichloro-2-propanone 300 g is incorporated with 670 g bentonite or finely powd charcoal and 30 g moistening agent (NH₄ salt of sulfonated fatty alcs); (2) 1,1,3,3-tetraphenyl-2-propanone 250 g is incorporated with 720 g carrying and 30 g moistening agent; (3) 1,1,7,7-tetraphenyl-2,3,5,6-tetrachloro-4-heptanone 200 g is incorporated with 770 g carrying and 30 g moistening agent; (4) the products obtained from (1), (2), and (3) are mixed with 500 g light mineral oil and 250 g triethanolamine at 40-50°, then water is added giving a milky emulsion.   I. F.

CA

3A

Radioactivity in the region Tusnad-Bái Al Snievevici and E. Friedländer (Univ. Bucharest, Rumania). *Acad. Rep. Populare Romine, Bul. Stiint* A, 1, 37-8 (1948). The activity of a few mineral springs in Rumania was found to be between 1.8 and 3.8 millimicrocuries Ra'l. In noxious gases in this region, 420 millimicrocuries per cu m was observed.   G. Autleger

1957

FRIEDLANDER, E.

"The trajectory of cosmic particles in Alihanian's mass spectrometer. II. The trajectory
in the lateral telescope and the mass spectrum of light mesons. p. 53"   BULETIN
STIINTIFIC, Vol. 4, no. 1, Jan./Mar. 1953. Bucuresti, Rumania.

SO: Monthly List of East European Accessions, L.C. Vol.2, No.11, Nov. 1953 Uncl.

FRIEDLANDER, E.

"A Method of Trinle Focusing in an Electrostatic Non Homogenous Compensated Field."Revue de Matematiques et de Physique, Vol. 2, 1954

Friedlander, E.

Mass estimation of nonrelativistic charged particles in nuclear emulsions. I. Auslander, C. Bercea, and E. Friedländer (Inst. Physics, Bucharest, Rumania). Proc. Intern. Conf. Peaceful Uses Atomic Energy, Geneva, 1955 2, 132-4(Pub. 1956).—The use of the method advanced enables an experimenter to ascertain whether a particle with track ending in an emulsion has been stopped by ionization losses only and to est. the mass of an unknown particle which escapes from an emulsion. The method is based entirely on the variation of the scattering sagitta along the track, once the (RE) relation of the emulsion is known.

FRIEDLANDER, E.

Statistical method for determination of the energy of active nuclear particles
of cosmic radiation. p. 43. Vol. 5. No. 1, Jan. 1955. Comunicarile.

Source: East European Accessions List (EEAL), Lc, Vol. 5, No. 3, March 1956

FRIEDLANDER E

Determination of the mass of a charged particle which passes through a nuclear emulsion without being stopped. J. Auslander, C. Berca, and E. Friedländer. Comun. acad. rep. populare Romine 5, No. 3, 347-351. In . of A. Briset, C.A. 47, 37054. - By measuring the value of the diffusion parameter for 2 portions, with the lengths A_0 and A_1 of the track of a nonrelativistic particle, which is not stopped in the emulsion, one can det. the remaining paths R_0 and R_1 ($R_0 = R_1 + L$, where L is the distance between the centers of A_0 and A_1) which are valid for an infinite emulsion; thus, one may det. the mass of the particle. The corresponding formulas are derived. The method has been verified by exposing emulsions G5 and NT 4 to cosmic rays, and by detg. the mass of the particles by independent means. If the tracks are not too short, the calcd. and observed results agree nicely, as can be clearly shown for the cases of a proton and of a deuteron. One measures actually values $\bar{a}_0$ and $\bar{a}_1$ of lengths C_0 and C_1, which are displaced with respect to the true segments A_0 and A_1, but the error committed this way can be eliminated by a simple calcn. Werner Jacobson

FRIEDLANDER, E.

Energy transfer in high-energy nuclear collisions. F. Friedländer. Comun. acad. rep. populare Romina 5, 175-8 (1955).—At high-energy nuclear collisions, a fraction K of the incident particles is radiated as mesons. The problem if K depends on the incident energy, is investigated in 2 ways: (1) The energy spectrum of the N component of cosmic rays is studied. If K is a const., the N spectrum must vary with the atm. depth, and, vice versa, if the N spectrum does not depend upon the incident energy, the change of K can be derived therefrom. The data available show that K increases with incident energy, in qual. agreement with Fermi's theory ($C.A.$ 45, 4577a). (2) Measurements are made by the method of variation of the compensation effect as developed by F. to calc. K by using the different theories for the elementary process. Exptl. results obtained agreed best with those of Vernov ($C.A.$ 45, 8910g) obtained by other methods in a different energy range. This method furnishes a slow increase of K with increase of the incident energy.   Werner Jacobson

FRIEDLANDER, E.

FRIEDLANDER, E. Current of problems in physios of cosmic radiation. p.
364. GAZETA MATEMATICA SI FIZICA. SERIA A. Bucuresti, Rumania Vol. 7,
No. 7, July 1955

SOURCE: East European Accessions List (EEAL) LC Vol. 5, No. 6, June 1956

FRIEDLANDER, E.

Multiple generation of mesons in collisions of high-powered particles with atomic nuclei. p. 63. STUDII SI CERCETARI DE FIZICA. Fucuresti. Vol. 6, no. 1, Jan/Mar. 1955.

So. East European Accessions List   Vol. 5, No. 8   August, 1956

FRIEDLANDER, E.; IUSSIM, C.; MAYER, M.

SCIENCE

Periodicals: STUDII SI CERCETARI DE FIZICA. Vol. 6, no. 2, Apr./June 1955

FRIEDLANDER, E.; IUSSIM, G.; MAYER, M. Experimental study of the nuclear
active component of cosmic radiation at energies of ~25 GeV. Note 1.
Measurements on electron-nuclear showers with $\epsilon > 10$ GeV. p. 229

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,
                                    February 1959, Unclass.

FRIEDLANDER, E.

SCIENCE

Periodicals: STUDII SI CERCETARI DE FIZICA. Vol. 6, no. 2, Apr./June 1955

FRIEDLANDER, E. Experimental study of the nuclear active component of cosmic radiation at energies of ~25 GeV. Note 2. Study of the interaction of high-powered cosmic particles with nuclei in the atmosphere by the compensation method. p. 237

Monthly List of East European Accessions (EEAI) IC, Vol.8, No. 2, February 1959, Unclass.

FRIEDLAENDER, E.

Rumania/Nuclear Physics - Elementary Particles   C-3

Abst Journal : Referat Zhur - Fizika, No 12, 1956, 33952

Author : Friedlaender, E.

Institution : None

Title : Statistical Method of Determining the Mass and Lifetime of Neutron Unstable Particles

Original
Periodical : Studii si cercetarii fiz., 1955, 6, No 3, 473-480 (resumes in Russian and English)

Abstract : Masses of V^0 particles and products of their decomposition (assuming a decomposition into 2 particles) can be statistically determined by analyzing the distribution of the Manchester parameter α and the value of the mean squared transverse momentum $\overline{p_\perp^2}$ of the momentum of the secondary particles. The position of the maximum of magnitude $\sqrt{|\alpha - \alpha_0|}$ on the histogram gives an auxiliary parameter α', which can give the unknown masses. Owing to the relativistic lengthening of the time scales, the form of the histogram $|\alpha - \alpha_0| > \alpha'$ can be used to estimate the order of magnitude of the duration of the lifetime of the V^0 particle.

Card 1/1

FRIDLENDER, E. M

Statistical evaluation of the energy of particles generated by electron-nuclear showers

FRIDLENDER, E. M.

3. pmk

... name of the anomalous ...

FRIEDLANDER, E.; KISS, D.

Measurements related to multiple Geiger-Muller impulses. p. 547.
(MAGYAR FIZIKAI FOLYOIRAT, Vol. 4, no. 6, 1956. Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 9, Sep. 1957. Uncl.

FRIEDLANDER, E.

3
2 {1-RML
{1-JWM
657.642

469,   AN INVESTIGATION OF MULTIPLE SPURIOUS
DISCHARGES IN GM-COUNTERS. E. Friedländer and D.Kiss.
Acta phys. Hungar., Vol. 8, No. 2, 211-23 (1958).
A simple and direct method has been worked out for distinguish
ing random and systematic "multiplets" in the counting of G.M.
pulses. This method has been applied to the study of the dependence
of the average multiplicity of a G.M. pulse on the overvoltage. It has
been shown that the rise of the plateau of the counting characteristic
is due in great part to the increase of the average multiplicity.   A.

FRIEDLANDER, E.

TITS.   ON MULTIPLE MESON PRODUCTION IN MESON-NUCLEON COLLISIONS AT VERY HIGH ENERGIES.

E.Friedländer.

Acta phys. Hungar., Vol. 6, No. 2, 257-60 (1956).

The effects of any difference between the distributions of mass density within mesons and nucleons on the meson showers resulting from very high-energy meson-nucleon or nucleon-nucleon collisions are investigated. It is shown that by a reasonable choice of the mass-density distributions one can explain most of the rough features of meson showers on a purely kinematical grounds without reference to any special theory of the interaction. Such a theory must be used only to compute the multiplicity of the shower. An analysis of the very few accurately measured cases shows that the observed multiplicity can be explained by any one of the principal existing theories. It is concluded that only a great many experiments can decide in favour of one particular theory.

FRIDLENDER, E. M.

7921
STATISTICAL ESTIMATION OF THE ENERGY OF
PARTICLES GENERATING ELECTRON-NUCLEON
SHOWERS. E. M. Fridlender (Bukharest Inst. of Physics)
Doklady Akad. Nauk S.S.S.R. 106, 525-9(1956) Feb. 11. (In
Russian)

A new statistical method is offered to evaluate the energy
ϵ of the initial particle generating electron-nucleon showers.
To date no objective evaluation of this value has been pro-
posed. The analysis of the angular distribution of shower
particles gives only the velocity of the center-mass, which
is connected to the energy of the initial particle ϵ, and
which also depends on the number of the target-source
nucleons participating in a collision. The evaluation of ϵ
based on the electron-nucleon shower soft component de-
pends upon certain assumed evaluations of the π^+ π^- ratio
as well as on the ratio of the number of π mesons to the
number of all-shower particles. The difficulty for the inter-
pretation of the separate collisions lead to the development
of the statistical method. The preliminary results indicate
that the proposed method may be applied not only for π
mesons but for any strongly interacting, unstable particles
as well as for high-energy short-lived particles in fast Bev
accelerators. (R.V.J.)

Physics Inst., AS Rumanian People's Republic

Category : USSR/Nuclear Physics - Elementary Particles   C-3

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 411

Author   : Fridlender, Ye. M.
Inst   : Phys. Inst., Romanian Acad. of Sciences
Title   : Analysis of Certain Cases of Anomalous Decay of θ^0 Particles

Orig Pub : Dokl. AN SSSR, 1956, 106, No 6, 989-990

Abstract : An "anomalous" θ^0 decay was observed with a value of Q considerably less
           than 210 Mev. In this case the masses of the secondary particles were
           271 $\pm$ 79 m_e (a 6 -star is produced) and 260 $\pm$ 41 m_e (leaves the emulsion).
           Assuming that these are π -mesons, we get Q = 23 $\pm$ 18 Mev, and the mass
           of the θ^0 is 595 $\pm$ 36 m_e. The results of the statistical analysis of
           64 θ^0 decays, observed by various authors, are given. Two sharp maxima
           are observed on the probability curve, corresponding to θ^0 particle masses
           of 593 $\pm$ 10 and 973 $\pm$ 25 m_e, which is in good agreement with the directly
           observed values. The author proposes that the lifetime of a θ^0 particle with
           mass of approximately 595 m_e is substantially greater than the lifetime of
           a θ^0 particle with a max 973 m_e.

Card   : 1/1

FRIEDLANDER, E.M.

JANOSSY, L.

EUM/1911

21(1)   PHASE I BOOK EXPLOITATION

International Conference on Cosmic Radiation. Budapest, 1956.

International Conference on Cosmic Radiation Organized by the Hungarian Academy of Sciences. Budapest, 1957. 187 p.

Sponsoring Agency: Magyar Tudomanyos Akademia

Ed.: L. Fenyves, and A. Somogyi

PURPOSE: This report is intended for geophysicists concerned with cosmic radiation.

COVERAGE: This report contains the six plenary sessions of the conference. Some of the problems dealt with include nuclear emulsions, extensive air showers and the program of cosmic ray measurements planned for the International Geophysical Year. Most of the reports are followed by references. Soviet scientists in the field of cosmic radiation who attended the conference are: E.L. Andronikashvili, M.A. Dobrotin, I.I. Gurevich, S.I. Nikolsky and I.M. Vernov. The articles are written in English, German and Russian without parallel translation.
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International Conference (Cont.)   EUM/1911

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230 m. above Sea Level
4. Chaloupka, P. A Few Remarks on the Geomagnetic Effect of   110
Extensive Air Showers

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2. Alper, B., I. Auslander, C. Barber, and E.M. Friedlander. On   (not incl)
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Scattering Measurements
3. Gurevich, I.I. Study of Elementary Processes of Nuclear   127
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Card 1/6

FRIEDLANDER, E.M.

JAVOSSY L.

21(1)

PHASE I BOOK EXPLOITATION   HU/1911

International Conference on Cosmic Radiation. Budapest, 1956.

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Card 1/6

International Conference (Cont.)   HU/1911

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3. Friedlander, E.M., and M.R. Mayr. Some Remarks on the
    Possible Cascade Decay of the τ-Meson   177

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    μ-Mesons From Anomal Absorption Using a Graphite Absorber   178
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Card 2/6

FRIEDLANDER, E.M.

JANOSSY, L.

21(1)

PHASE I BOOK EXPLOITATION   EOX/1911

International Conference on Cosmic Radiation. Budapest, 1956.

International Conference on Cosmic Radiation Organized by the
Hungarian Academy of Sciences. Budapest, 1957. 187 p.
200 copies printed.

Sponsoring Agency: Magyar Tudomanyos Akademia

Eds.: L. Fenyves, and A. Somogyi

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cosmic radiation.

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ray measurements planned for the International Geophysical
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scientists in the field of cosmic radiation who attended the
conference are: E.L. Andronikashvili, N.A. Dobrotin, I.I.
Gurevich, S.I. Nikolsky and S.N. Vernov. The articles are
written in English, German and Russian without parallel trans-
lations.

SIXTH SESSION

NUCLEAR COLLISIONS AT MODERATE ENERGIES

1. Vernov, S. $10^8 - 10^{12}$ The Interaction of Nucleons With Energies   (not incl.)
of $10^8 - 10^{12}$ of Light Element Atomic Nuclei
2. Friedlander, E.M. and K. Buckenstein. On a Possible Model   186
for the Nucleon Cascade in Air at Moderate Energies
3. Bozoki, G., E. Fenyves and L. Janossy. On the Penetrating   187
Non-Ionizing Component of Cosmic Rays

AVAILABLE: Library of Congress (QC485.I45 1956)

MW/lsb
6-22-59

Card 6/6

FRIEDLANDER, E. M.

HUNGARY/Nuclear Physics - Elementary Particles   C-3

Abs Jour : Ref Zhur - Fizika, No 6, 1958, No 12548

Author   : Friedlander, E.M.
Inst   : Not Given
Title   : Anomalous Absorption of π Mesons as a Method for Investi-
           gating Nuclear Processes of High Energy

Orig Pub : Magyar fiz. folyoirat, 1957, 5, No 2, 147-162

Abstract : No abstract

Card   : 1/1   12

FRIEDLANDER, E.

RUMANIA/Nuclear Physics - Installations and Instruments. Methods of   C-2
           Measurement and Research

Abs Jour : Ref Zhur - Fizika, No 6, 1958, No 12449

Author   : Friedlander E., Ruckenstein E.
Inst   : Not Given
Title   : Use of Sources of Large Dimensions in   Spectrometers with
           Integral Registration

Orig Pub : Studii si cercetari fiz. Acad. RPR, 1957, 6, No 2, 113-117

Abstract : The authors calculate the kernels of the integral equations
           that express the total number of particles recorded by a β -
           spectrometer of the integral type (Referat Zhur Fizika, 1955,
           No 8, 15771), in that case, when instead of the point source
           and a central source, use is made of a point source and ec-
           centric source or of a source that covers the entire surface
           of the cross section of the spectrometer cylinder. The in-
           tegral equations obtained in this manner are solved in the
           same way as given in the work of the authors cited above.

Card   : 1/1

FRIedFANdeK

RUMANIA/Nuclear Physics - Cosmic Rays   C-7

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 10304

Author   : Friedlander, E.
Inst   : Not Given
Title   : Contribution to the Statistical Estimate of the Energy of
            Soft Cascades

Orig Pub : Studii si cercetari fiz. Acad. RPR, 1957, 8, No 2, 153-156

Abstract : From the measured numbers of the coincidences of the discharges
           in Geiger-Mueller counters at different depths in a lead
           absorber, the author calculates the average number of shower
           particles from soft cascades. Also calculated are the average
           values and the dispersion for a step spectrum and various
           types of coincidences.

Card   : 1/1

RUMANIA/Nuclear Physics - Cosmic Rays

Abs Jour : Ref Zhur - Fizika, No 12, 1958, No 26895

Author   : Friedlander E. M.
Inst   : Not Given
Title   : Multiple Production of Mesons Upon Collision of Mesons with
            Nucleons

Orig Pub : Studii si cercetari fiz. Acad. RPR, 1957, 8, No 3, 379-381

Abstract : The difference in the structure of the two colliding parti-
           cles affects the angular and energy distributions of the
           particles that are formed by the collision. The author
           calculates the central collision of two different particles
           (for example a pion and a nucleon) with allowance for the
           fact that the mass is differently distributed in the par-
           ticles of different types. The results obtained show that
           there exists a symmetry in the energy and angular distri-
           bution of the mesons produced by the collisions.

Card   : 1/1

19

Identification of nonstopped particles in nuclear emulsions. I. Estimation of ionization range from averages of characteristic quantities on two sections of the track. S. Alper, J. Auslander, C. Bercea, E. Friedlander, and A. Somogyi. Acad. rep. populare Romîne, Inst. fiz. at. și Inst. fiz., Studii cerceldri fiz. 9, 185-9(1958).—Results on scattering measurements and gap counting that have been performed on 20 p, π, and μ tracks at given distances from the ionization range show that only in the favorable cases of the long tracks is it possible to establish in a statistically significant manner that the residual ionization range is different from zero. II. Residual ionization range estimation from gap measurements in nuclear emulsions. E. Friedlander. Ibid. 191-3.—The residual ionization range can be estd. from gap measurements, by applying a procedure of max. likelihood, with an accuracy given by the equation: $\sigma_{k_0}/A^s = N^{-0.5}$, $\sigma_{k_0}^s = x(k_0^s, \alpha)/N^{-0.5}$, where $x(k_0^s, \alpha) = [\Sigma(k_0^s + b^s)\alpha]^{1/2}$ $[\Sigma(k_0^s + b^s)\alpha - 2]^{-1/2}$, where k_0 is the residual ionization range and A is a const. which depends on the mass of the particle and the properties of the emulsion. Results obtained on 15 p, π, and μ tracks confirm the correctness of the applied procedure. III. Mass estimation of nonstopped, ionizing particles in nuclear emulsions. S. Alper. Ibid. 195-202.—It is shown that by applying conventional const.-sagitta schemes to tracks of nonstopped particles it is possible, by an appropriate statistical treatment, to obtain an improved mass estn., the accuracy being given by the equation $\sigma_{\bar{M}}^n = 0.75N^{-1/2}(1 + U^s/4\Delta^s)^{1/2}$ in conjunction with the equation: $M = M_s(D_s/\bar{D_s}'')^{1.45}$ where $\bar{D_s}''$ is the value of the const. sagitta. Measurements on 8 π and μ tracks confirm the correctness of the applied procedure.

A. Berlin

RUMANIA/Nuclear Physics - Cosmic Rays.   C

Abs Jour   : Ref Zhur Fizika, No 9, 1959, 19892

Author   : Balea, E., Friedlander, E.
Inst   : -
Title   : Study of Nuclear Interaction at Energies of Approximately
               4×10^{11} ev

Orig Pub   : Studii si cercetari fiz. Acad. RIR, 1958, 9, No 2, 259-
               268

Abstract   : A meson shower of the type $4 \rightarrow 17 \lambda$, produced in emul-
               sion, exposed at high altitude, was investigated from the
               point of view of the angular and energy distributions.
               The energy of the primary particles, estimated by various
               methods, is found to be close to 4×10^{11} ev. In the cen-
               ter of mass system, the angular distribution does not dis-
               play a strong anisotropy, and has only a small asymmetry
               with a certain excess of particles emitted backward.
               Two secondary interactions give indications of energy

Card 1/2

- 17 -

FRIEDLANDER, E. M.

AUTHORS: Fridlender, E., Rukenshteyn, E.   SOV/56-35-1-14/59

TITLE: On the Nature of the Particles Which Carry Away Most of the
                Energy in Nuclear Collisions With Medium Energies (O prirode
                chastits, unosyashchikh osnovnuyu dolyu energii v yadernykh
                stolknoveniyakh pri umerennykh energiyakh)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958,
                Vol 35, Nr 1, pp 1o4 - 11o (USSR)

ABSTRACT: It has recently been established by a number of experiments
                that in nuclear collisions with high energies the
                particles flying away include such as carry away most of
                the energy. In their introduction the authors discuss
                several papers (Shayn (Schein)-and HBD-stars (Refs 1 and 2)),
                nuclear-active components of cosmic radiation in the air
                (Refs 3,4), the structure of atmospheric showers (Refs 5,6),
                the theory by Landau (Ref 8), Heisenberg (Geyzenberg)
                (Ref 7), Belen'kiy (Ref 9) etc. The present paper aims
                at investigating the influence exercised by various
                factors upon the course of the transition curve for
                electron-nuclear showers in a dense absorbing medium.
Card 1/3   It is assumed that also for medium energies there exist

On the Nature of the Particles Which Carry Away Most   SOV/56-35-1-14/59
of the Energy in Nuclear Collisions With Medium Energies

so-called "energetically preferred particles" in
every stage of the nuclear cascade process. For the
purpose of determining the portion of the decaying
particles in the generating component and the existence
of unstable particles among those which are "energeti-
cally preferred" a comparison is drawn with absorption
in air. Among the unstable energetically preferred
particles there may be $\pi^{\pm}$ -, K_{μ}-, K_{e}- mesons but not
Θ - or τ-mesons. However, in reference 26 mention is
made of electro-nuclear showers, in which both the
inciding as well as the emitted energetically-preferred
particles occur in form of τ-mesons. In conclusion,
the authors thank D.V.Skobel'tsyn, Academician, and
the collaborators of the Laboratoriya kosmicheskikh
luchey FIAN SSSR (Laboratory of Cosmic Radiation of
the Physics Institute, AS USSR) for their critical dis-
cussion of this work and for their valuable comments.
There are 26 references, 18 of which are Soviet.

Card 2/3

On the Nature of the Particles Which Carry Away Most   SOV/56-35-1-14/59
of the Energy in Nuclear Collisions With Medium Energies

ASSOCIATION: Institut atomnoy fiziki pri Akademii nauk Rumynskoy narodnoy
               respubliki, Politekhnicheskiy institut, Bukharest (In-
               stitute of Nuclear Physics of the AS Rumanian People's
               Republic, Polytechnic Institute, Bucharest)

SUBMITTED: January 16, 1958

Card 3/3

FRIEDLANDER, E.

S.
IJP(C.)

Central and peripheral interactions of 7.3-b.e.v. negative pions in emulsions. E. Friedländer, M. Marcu, and M. Spîrchez (Inst. At. Phys., Bucharest). *Acad. rep. populare Romîne, Inst. fiz. at.* IFA/BM-39, 7 pp.(1959)(in English).—In collisions of 7.3-b.e.v. π^- with emulsion nuclei, about ³/₄ of the incident energy is transferred to secondary pions. About ¹/₄ of the collisions are peripheral, and are interactions of the incident π^- with virtual pions in the meson cloud of the emulsion nucleus. The production and fast decay of pionic resonant (isobaric) states can be assumed for the kinematics of peripheral meson showers, especially for the π-π events. The results are derived from irradiation of a stack of 100 NIKFI-R pellicles, 10 × 20 × 0.04 cm. each, in the 7.3-b.e.v. π^- beam of the JINR proton synchrotron at Dubna to a total dose of 13 pions/sq. cm. A total of 543 interactions has been detected. 17 references.
Manfred Mannheimer

FRIEDLANDER, E.

$I\overset{3}{\sigma}\mu(c)$

19

/ Multiple meson production by 9-b.e.v. protons on emulsion nuclei. E. Friedlander. *Acad. rep. populare Romine, Inst. fis. atomica* IFA/EM/37, 19 pp.(1059)(in English). —Events of relatively high multiplicity of charged shower particles are investigated. The validity of procedures used in cosmic-ray research for the identification of target nuclei and for the estn. of the center-of-mass velocity is checked by making use of the monokinetic spectrum of the proton beam. The mechanism of meson production in proton collisions with heavy and light nuclei, with special regard to the tunnel model of nucleon-nucleus interactions, is verified.
G. V. Aseff

M

FRIEDLANDER, E.

IJY(c)

V Nuclear interactions of high-energy nuclei in primary cosmic radiation. E. Balea, E. Friedländer, M. Oncescu, C. Potoceanu, and M. Sahini. *Acad. R.P.R.* *Filiale Romîne, Inst. fiz. atomică și Inst. fiz.*, *Studii cercetări fiz.* 11, 61-8 (1960).—Ten interactions of $Z \gtrsim 3$ and 7 interactions of α-particles in nuclear emulsions from the 1953 Sardinia expedition in the energy range 50-100 b.e.v./nucleon (γ· between 1.5 and 11.2) are investigated from the point of view of angular distribution of relativistic particles. A 2-cone structure compatible with the 2-core model in the center-of-mass system appears clearly. In most cases the evapn. jet (presumably produced by the incident nucleus) could not be detected from the meson jet. From the small no. of relativistic tracks in the interaction it is concluded that only a small no. of nucleons contributes to the meson-generating process. It is, therefore, implied that the resid-ual nucleons of the incident nucleus do not evap. but under-go, instead, elastic scattering on the nucleons of the target nucleus. Mircea Fotino

BALEA, O.; FRIEDLANDER, E.

On the behavior of the soft component of the cosmic rays under thick lead layers. Studii cerc fiz 11 no.3:515-519 '60.   (EEAI 10:2)

1. Institutul de fizica atomica, Bucuresti.
        (Cosmic rays)   (Lead)
        (Counters (Electrons, ions, etc.)

FRIEDLANDER, E.

Effects of the transition of cosmic radiation in combined absorbents.
Studii cerc fiz 11 no.3:615-626 '60.   (EEAI 10:2)
      (Cosmic rays)   (Absorbents)

FRIEDLANDER, E.

On the diffusion of slow particles in nuclear emulsions. Studii cerc
fiz 11 no.3:633-643 '60.   (EEAI 10:2)
(Nuclear emulsions)   (Particles)   (Coulomb functions)

84393

S/056/60/039/004/011/048
B004/B070

24.6900

AUTHOR: Friedländer, E. M.

TITLE: Investigation of Azimuthal Effect in Meson Showers Caused
            by 9-Bev Protons

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
            Vol. 39, No. 4(10), pp. 965-969

TEXT: The author describes a statistical method for the evaluation of
data on the azimuthal distribution of particles in a weak meson shower.
Showers produced by means of 9-Bev protons from the proton-synchrotron
of the Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of
Nuclear Research) in НИКФИ-Р (NIKFI-R) emulsions are compared with
cosmic ray showers. To determine the azimuthal effects, the shower
diagrams are so rotated that the mean values $\bar{\psi}$ of the azimuthal angles
coincide. In each shower $\bar{\psi}$, and with the help of the equation

$$\delta_i = \left| \psi_i - (1/N) \sum_1^N \psi_i \right|$$ the deviation δ, were calculated and

Card 1/2

84393

Investigation of Azimuthal Effect in Meson
Showers Caused by 9-Bev Protons

S/056/60/039/004/011/048
B004/B070

compared with the mathematical expectation value $\langle \delta \rangle$. Even when 9-Bev
showers were subdivided into H events $(N_h \geqslant 7)$, L events $(N_h \leqslant 4)$, L
events with lower $(n_s = 3)$ and higher $(n_s \geqslant 4)$ multiplicity, events with
smaller and larger inelasticity, etc. (Table) no azimuthal effects could
be established (Fig. 1). On the contrary, the analysis of the cosmic
shower described in Ref. 1 showed a significant asymmetry according to
the criterion of Kolmogorov - Smirnov (Table and Fig. 2). The author
thanks M. I. Danysh for discussions; V. Dumitrescu for collaboration; and
M. Gheorghiu and M. Ionite for calculations. There are 2 figures, 1 table,
and 6 references: 5 Soviet, 1 US, 1 French, 2 Italian, and 1 Rumanian.

ASSOCIATION: Institut atomnoy fiziki Akademii nauk Rumynskoy Narodnoy
Respubliki (Institute of Atomic Physics of the Academy of
Sciences of the People's Republic of Rumania)

SUBMITTED: May 10, 1960

Card 2/2

FRIEDLANDER, E.; MARCU, M.; SPIRCHEZ, M.

On the angular and multiplicity distribution of the secondaries in
the 9 BeV proton collisions with light nuclei. Studii cerc fiz 12
no.3:535-541 '61.

1. Institutul de fizica atomica, Bucuresti.

     (Protons)   (Collisions(Nuclear physics))
      (Nuclear emulsions) (Cell nuclei)

FRIEDLANNDER, E.

PRI-DIA...R, -.
SURNAME, Given Names-

Country: Rumania

Academic Degrees: -not given-

Affiliation: Chief Researcher at the I.F.A (Institutul de Fizica Atomica; Institute of Atomic Physics) ,(Cercetator Pricipal la IFA).

Source: Bucharest, Stiinta si Tehnica, Vol XIII, No 11, Nov 1961, pp 32-33.

Data: "Beyond the Nucleons."

GPO 981443

42959
S/058/62/000/011/013/061
A062/A101

AUTHORS: Friedländer, E. M., Marcu, M., Spîrchez, M.

TITLE: On the angular distributions and multiplicity of secondary particles formed in 9 GeV proton collisions with light nuclei

PERIODICAL: Referativnyy zhurnal, Fizika, no. 11, 1962, 53, abstract 11B395 ("Rev. phys. Acad. RPR", 1961, v. 6, no. 4, 457 - 462, English)

TEXT: In emulsions irradiated in the internal proton beam of the OIYaI synchrophasotron, investigations were made on collisions of protons with nuclei of light elements (C, N, O) forming ≥ 3 shower particles. In all, 721 such interactions were detected. It was found that multiplicity of the shower particles does not depend on the number of black tracks in the star. This circumstance contradicts the model of multiple meson formation in the nucleus in consecutive interactions. Such angular distributions of shower particles in the center-of-mass system were investigated. The authors conclude that a part of the "jets" has an isotropic angular distribution and a part is characterized by a strong anisotropy.

[Abstracter's note: Complete translation]

L. Landsberg

Card 1/1

KHULUEEY, Kh. [Hulubei, H.]; AUSLENDER, Y. [Auslander, I.]; FRIDLENDER, E.
[Friedlander, E.]; TSITSEYKA, Sh. [Titeica, S.]

Angular distribution of μ-mesons in π ... μ-decay. Zhur.eksp.i
teor.fiz. 42 no.1:303-304 Ja '62.   (MIRA 15:3)

1. Institut atomnoy fiziki Rumynskoy akademii nauk, Bukharest.
                        (Mesons--Decay)

FRIEDLANDER, E., corcetator principal

New elementary particles. St si Teh Bus 14 no.9:36-37 S '62.

1. Institute of Atomic Physics, Magurele.

FRIEDLANDER, G.

"Academician E. A. Ilinski(1856-1942)", p. 26, (TEXTILE, V 1. 2, no. 6, June 1951, Bucuresti)

S.: Monthly List of East European Accession, Vol. 2, no. 8, Library of Congress, August 1953, Uncl.

FRIEDLANDER, G.

Friedlander, G

FRIEDLANDER, G.
_____

FRIEDLANDER, G.   Behavior of caprone fishing nets while used. p. 229.

Vol. 7, no. 5, May 1956.
INDUSTRIA TEXTILA.
TECHNOLOGY
RUMANIA

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

FRIEDLANDER, I.
CA

Effect of the composition of the crucible coating on the porosity of Silumin. I. Friedländer. *Leichtmetalle* Heft 12, 37-9(1941); *Chem. Zentr.* 1943, I, 1101-2. For the modification of Silumin, Fe crucibles are used. The corrosion resistance is improved by painting these crucibles with an aq. suspension of 80% graphite and 20% talc and quickly heating to 800-900°. This coating is effective and remains free from cracks in service but the metal melted in these crucibles is very porous. Further investigation has shown that this porosity is due to the interaction between the molten Al alloy and the H₂O of crystn. of the talc and that this porosity can be decreased by preheating the talc at 1100°.
James W. Poynter

A.S.M.-S.L.A.   METALLURGICAL LITERATURE CLASSIFICATION

FRIEDLANDER, J.

Absorption cirve of the Y^{90} β..radiation in light elements. Studii
cerc fiz 11 no.1:97-102 '60.   (EEAI 10:1)
        (Beta rays)   (Absorption spectra)   (Hydrogen)
        (Hydrocarbons)   (Yttrium)   (Strontium)   (Radioisotopes)

FRIEDLANDER, M

FRIEDLANDER, M.   Textile technicians and economic problems of the textile
          industry in Yugoslavia.   p. 367

Vol. 4, No. 5, May 1955
TEKSTIL
TECHNOLOGY
Zagreb

So: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), Vol. 4, No. 9,
Sept. 1955

BRADYOVA, N; FRIEDLANDROVA, B.

Exercise in pregnancy and puerperium. Prakt. lek., Praha
32 no.4:84-89; contd. 20 Feb 1952,   (CLML 22:2)

1. Of the Institute for the Care of Mother and Child (Head--
Prof. J. Trapl, M. D.), Prague-Podole.

BAIAK, Karel (kand. lek. ved.);FRIEDLANDROVA, Bela;VALENTOVA, Jaroslava

On the significance of changes induced in respiratory stereotype
in pregnant women by exercise. Cesk. gyn. 24[38] no.8:569-575
O '59.

1. Ustav pro peci o matku a dite, Praha-Podoli, reditel doc. dr.
M. Vojta, zasl. lekar CSR.
        (RESPIRATION physiol.)
        (PREGNANCY physiol.)

BALAK, Karel, C.Sc.; FRIEDLANDROVA, Bela

The effect of medical gymnastics and balneotherapy on adherent retroversion of the uterus. Cesk.gyn.26[40] no.1/2:54-63 F '61.

1. UPMD, Praha-Podoli, red.doc. M.Vojta, zaslouzily lekar CSSR.
        (UTERUS dis)
        (EXERCISE THERAPY)
    (BALNEOLOGY)

SVORC, Jiri; FRIEDLANDROVA, Bela

Exercise therapy in operative gynecology. Cesk.gyn.26[40] no.1/2: 90-92 F '61.

1. Ustav pro peci o matku a dite, Praha-Podoli, reditel doc. dr. M. Vojta, zaslouzily lekar.
            (GYNECOLOGY surgery)
            (EXERCISE THERAPY)

VOJTA, M., doc.; FRIEDLANDEROVA, B.; DOLEZAL, A., CSc.; KAZDA, S., CSc.;
KLIMENT, V., CSc.; KONECNA, D.; MARSAL, K.; POKORADOVSKY, K., doc., CSc.;
SOYKOVA-PACHNEROVA, E., CSc.

Current problems of the psychic and somatic method of preparing for
labor. Cesk. gyn. 27[41] no.5:347-356 Je '62.
(LABOR)

FRIEDMAN, A., WALTER, H.

"Soviet method of industrial construction of patterns. (To be contd.)",
p. 287, (INDUSTRIA TEXTILA, Vol. 5, No. 7, Aug. 1954, Bucuresti, Rumania)

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

TRIBUEL, A.; MANDER, I.

"Soviet Method of Industrial Construction of Lathes. II, C. 2M,
(INDUSTRIA TEXTILA, Vol. 5, No. 9, September 1954, Bucharest, Rumania)

SC: Monthly List of East European Accessions (EEAI), LC, Vol. 4, No. 3,
March 1955, Uncl.

MIRZA-EMINET, L.,; SAMUEL, J.,; HASTAC, E.,; FRIEDMAN, A.,; IACOB,
   C.

   Conditioned reflex activity in dogs during anti-rabies vaccination
   and subsequent inoculation with street virus. Stud. cercet.
   inframicrobiol., Bucur. 6 no.1-2:65-92 Jan-June 55.

       (RABIES, immunol.
          vacc., eff. on conditioned reflex activity in dogs)
       (REFLEX, CONDITIONED
          eff. of rabies vacc. & subsequent inoculation with
          street virus. in dogs)

FRIEDMAN, Alexandru, fiz. cercetator stagiar (Bucuresti)

Magnetostrictive ferrites. Electrotehnica 12 no.11:420-426 N '64.

1. Research and Electrical Engineering Planning Institute.

STANCIULEA, L., cercetator principal; MARCUS, B.; DIACONU, L., cercetator
principal; FRIEDMAN, Al., cercetator (Bucuresti)

Production of intricate-shaped ferrite parts by hot casting under
pressure. Electrotehnica 13 no.1:23-27 Ja '65.

1. Research and Electrotechnic Planning Institute (for Stanciulea,
Diaconu, Friedman). 2. Head of Laboratory, Research and Electrotechnic
Planning Institute (for Marcus). Submitted October 20, 1964.

L 63709-65   EWT(1)/EED-2

ACCESSION NR: AP5022211

RU/0004/64/000/011/0420/0426

AUTHOR: Friedman, Alexandru (Physicist, Researcher)(Bucharest)

13
B

TITLE: Magnetorestrictive ferrites

SOURCE: Electrotehnica, no. 11, 1964, 420-426

TOPIC TAGS: ferrite, magnetostriction

ABSTRACT: The author summarizes the properties of magnetostrictive ferrites and discusses the effect of their composition and manufacturing techniques on their properties, and describes their use in the construction of magnetostrictive transducers. Orig. art. has 4 figures and 17 formulas.

ASSOCIATION: ICPE

SUBMITTED: 12Dec63   ENCL: 00   SUB CODE: MT, EM

NO REF SOV: 004   OTHER: 020   JPRS

Card 1/1

L 41661-66   EWP(k)/EWP(t)/ETI   IJP(c)   JD

ACC NR: AP6031218

SOURCE CODE: RU/0004/65/000/001/0023/0027

AUTHOR: Stanciulea, L. (Researcher; Bucharest); Marcus, B. (Laboratory head; Bucharest); Diaconu, L. (Researcher; Bucharest); Friedman, Al. (Researcher; Bucharest)

ORG: ICPE

TITLE: Production of intricate-shaped ferrite parts by hot die casting

SOURCE: Electrotehnica, no. 1, 1965, 23-27

TOPIC TAGS: ferrite, die

ABSTRACT: The authors review the principles of hot die casting and report on the application of this method to the production of ferrite parts on an experimental basis. Both the equipment used and the parts produced are described, and the results of some tests on the finished products are presented. Orig. art. has: 6 figures and 3 tables. [Based on authors' Eng. abst.] [JPRS]

SUB CODE: 13 / SUBM DATE: 20Oct64 / ORIG REF: 003 / SOV REF: 001
OTH REF: 002

Card 1/1   hs

UDC: 621.312.22:669

EXCERPTA MEDICA Sec 6 Vol 13/8 Internal Med. Aug 59

**4855. SPECIFIC AUTO-ANTIBODIES IN LUPUS ERYTHEMATOSUS WITH AC-
QUIRED HAEMOLYTIC ANAEMIA** - Spezifischer Autoantikörper bei Lupus
erythematodes mit erworbener hämolytischer Anämie - Friedman B.
and Hermansky F. 1.Med. Klin., Karls-Univ., Prag (CSR) - Z. GES.
INN. MED. 1958, 13/3 (114-116)

A report is presented of a case of acquired haemolytic anaemia in lupus erythema-
tosus, in which a specific anti-E auto-antibody could transiently be demonstrated.
This antibody disappeared after treatment with prednisone. At the same time
another antibody was found which reacted only with erythrocytes which had been
pretreated with trypsin. This antibody, which showed no particular group specifi-
city, was permanently present, regardless of the hormone treatment administered.

(IV, 6, 13)

BRABEC, V.; BROUSIL, J.; FRIEDMAN, B.

Evaluation of erythropoietic activity with the aid of radioisotopes.
Cesk. rentgenol. 16 no.4:225-234 Ag '62.

1. Ustav hematologie a krevni transfuze v Praze, prednosta prof. dr
J. Horejsi, DrSc. Biofyzikalni ustav fakulty vseobecneho lekarstvi
University Karlovy v Praze, prednosta doc. dr Z. Dienstbier, CSc.
I. Interni klinika fakuty vseobecneho lckarstvi University Karlovy
v Praze, prednosta prof. dr V. Honig, DrSc.
            (RADIOISOTOPES)   (ERYTHROCYTES)
                (HEMATOPOIETIC SYSTEM physiol)

CZECHOSLOVAKIA   UDC   616.155.194.17:616.155.194.7):616.155.1-008.9
(577.158.42.084)

PALEK, J.; VOLEK, V.; FRIEDMANN, B.; BRABEC, V.; 1st Internal Clin-
ic Fac. of Gen. Med. Charles Univ. (I. Int. Klinika Fak. Vseob.
Lek. KU), Prague, Head (Prednosta) Prof Dr V. HORNIG; Institute
of Hematology and Blood Transfusions (Ustav Hematologie a Krevni
Transfuze), Prague, Director (Reditel) Prof Dr J. HORAJSI.

"Glucose-6-Phosphate Dehydrogenase Activity of Red Blood Cells in
Hemolytic Conditions and Refractory Anemias."

Abstract /Authors' English summary modified_7: The activity
of the glucose-6-phosphate dehydrogenase is raised in autoimmune
hemolytic anemia, in congenital spherocytosis, and in most patients
suffering from paroxysmal nocturnal hemoglobinuria. It is normal
or slightly higher in refractory anemia with hyperplastic bone mar-
row, and normal or reduced with hypo- or aplastic marrow. The rise
in enzyme activity is correlated to the severity of anemia with
the exception of paroxysmal nocturnal hemoglobinuria and anemia with
hypo- or aplastic marrow. 12 Figures, 15 Western, 5 Czech, 2 East
German references
1/1

- 18 -

VACAREANU, N.; FRIEDMAN, G.

    The integration of several formulas for the calculation of
heart volume. Cor vasa 7 no.2:150-155 '65.

    1. Academie de la Republique Populaire Roumanie, Filiale
de Iassy, Roumanie.

SCHWARTZ, J.,; ELIAS, H.,; SPART, T.,; FRIEDMAN, I.,; DUMITRESCU, S.,;
    SAMUEL, I.,; SANDULESCU, T.

    Strains of Coxsackie virus isolated from paralytic poliomyelitis
    patients in Bucharest. Stud. cercet. inframicrobiol., Bucur. 6 no.
    1-2:51-54 Jan-June 55.

            (POLIOMYELITIS, pathology
                Coxsackie virus strains isolated from polio. patients
                in Bucharest)
            (COXSACKIE VIRUSES
                strains isolated from polio. patients in Bucharest)

ELIAS, H.; SCHWARTZ, J.; DAN, B.; SFART, T.; FRIEDMAN, L.

Coxsackie virus isolated from patients of paralytic poliomyelitis;
etiological relationships. Stud. cercet. inframicrobiol., Bucur.
7 no.1-2:51-56 Jan-June 56.

(COXSACKIE VIRUSES
    isolation from polio. patients in Bucharest, etiol.
    relationships)
(POLIOMYELITIS, microbiology
    Coxsackie virus isolated from patients in Bucharest,
    etiol. relationships)

RUMANIA/Virology - Mumps Virus.   E.

Abs Jour   : Ref Zhur - Biol., No 19, 1958, 85862

Author   : Moskovich, O., Samuel, J., Schwartz, J., Friedman, L.,
              Wiegler, R., Sandulescu, T.
Inst   : -
Title   : The Complement Fixation Test in the Diagnosis of Mumps.

Orig Pub   : Studii si Cercerati Inframicrobiol., Microbiol., si
              Parazitol., 1957, Vol. 8, No 3, 387-393

Abstract   : No abstract.

Card 1/1

- 16 -

ELIAS, H.; SFART, T.; FRIEDMAN, I.

Atypical forms of poliomyelitis. Probl. ter., Bucur. 6:61-66 1957.
    (POLIOMYELITIS
        atypical forms)

F RIE DMHR, T

ELIAS, H., (Lecturer); BRUCKNER, S.; MARINESCU, Gh.; BRIKMAN, B.; FRIEDMAN, I.;
    TEODORESCU, T.; SPINER, F.

Clinical forms of epidemic hepatitis in children, according to age.
Rumanian M. Rev. 2 no.1:35-36 Jan-Mar 58.
        (HEPATITIS, INFECTIOUS, in inf. & child
                classif. of clin. forms according to age, statist.)

FRIEDMANN, I.

MOSCOVICI, O.; SAMUEL, J.; SCHWARTZ, J.; FRIEDMANN, I.; WIEGLER, R.; SANDULESCU, T.

Complement fixation test in diagnosis of mumps infections. Stud.
cercet. inframicrobiol., Bucur. 8 no.3:387-393 1957.
(MUMPS, diagnosis
complement fixation test)
(COMPLEMENT
fixation test in diag. of mumps)

FRIEDMAN, K.

"Pland-parallel terminal measures for length and their place in controlling scheme in the field of linear measuring."

p. 42 (Ratsionalizatsila) Vol. 7, no. 1, Jan. 1957
Sofiia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7 no. 4,
      : April 1958

FRIEDMAN, M.

Power analysis of the lifting mechanisms in some agricultural machines. p.73.
(Beseda Venkovske Rodiny, Vol. 30, No. 2, Apr. 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessiors (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

FRIEDMAN, M.

AGRICULTURE

PERIODICAL: ZEMEDELSKE STROJE, VOL. 3, no. 12, Dec. 1958

Friedman, M. Effect of transportation speed on the relations of forces in the lifting of trailed implements by an automatic-lifting system. p. 274.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 5,
                                      May 1959, Unclass.

FRIEDMAN, M.

Strength of the automatic lifting mechanism of the P-5-35 M plow. p. 317.

Praha. Ceskoslovenska akademie zemedelskych ved. SBORNIK. ZEMEDELSKA
TECHNIKA. Praha, Czechoslovakia. Vol. 5. no. 4/5 Aug. 1959.

Monthly list of East European Accessions (EEAI)   LC Vol. 9, no. 2
Feb. 1960. Uncl.

616,916-085.371

RUMANIA

CAJAL, N., CEPLEANU, Maria, SORODOC, Yolanda, IONESCU, S.,
GARTNER, Magda, IANOPOL, Ligia, BOGHITOIU, Gh., FRIEDMAN, O.,
HULUTA, Liliana, and IONESCU, Doina, of the Institute of Infra-
microbiology (Institutul de Inframicrobiologie) of the Academy
of the Socialist Republic of Rumania (al Academiei Republicii
Socialiste Romania).

"Specific Prophylaxis in Measles. II. The Testing on Children
of a Vaccine Prepared with Modified   Live Virus."

Abstract: An anti-measles vaccine prepared with modified live
M_{60-5}Huang virus was tested on 220 children. Only minor clinical
reactions resulted, with a complete absence of rashes or con-
vulsions. One month after vaccination serum conversion was 79.41
percent, and the titer of anti-measles hemagglutination-inhibiting
antibodies varied between 1/80 and 1/320. After 4 months the
corresponding values were 75 percent and 1/40 to 1/80. Thus the
vaccination seems to confer a specific immunity, which so far has
protected the vaccinated children against measles.

RUMANIA / Chemical Technology. Chemical Products and   H-5
        and Their Application. Water Treatment.
        Sewage.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1699.

Author : Friedman, R.
Inst   : Not given.
Title   : Progress Achieved in the USSR Concerning Water
          Treatment with Layers of Suspension Clarifiers.

Orig Pub: Hidrotehnica, 1958, 3, No 2, 72-75.

Abstract: No abstract.

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