

Acc (BNL-tr-498) POWER SUPPLY SYSTEM FOR THE
PREINJECTOR OF THE I-100 LINEAR ACCELERATOR. Mal'tsov,
I. G. (Gosudarstvennyi Komitet po Ispol'zovaniyu Atomnoi En-
ergii SSSR, Serpukhov. Institut Fiziki Vysokikh Energii). Trans-
lated by S. J. Amoretty (Brookhaven National Lab., Upton, N. Y.),
from report IFVE-71-83. 201p. 24Dep. NTIS.

26particle accelerators; translations 2720G

28MN-28 29P NSA

Biological Shielding and Technique of Rapid
Ejection, by G. I. Britvich, 25 pp.
RUSSIAN, rpt, Gosudarstvennyi Komitet po
Ispol'zovaniyu Atomnoi Energii, SSSR, Serpukhov,
Institute Fiziki Vysokikh Energii, CERN-69-13.
AEC-ORNL-Tr-2290

Sci/Nucl
Nov 70

11100 (CERN-Trans-71-16) HIGH-INTENSITY (10-16)
GeV/c NEGATIVE PARTICLE BEAM. Golovnya, N. I.; Grachev,
M. I.; Gubrienko, K. I.; Eremenko, E. V.; Kotov, V. I.; Seleznev,
V. S.; Khodyrev, Yu. S. (Gosudarstvennyi Komitet po Ispol'zo-
vaniyu Atomnoi Energii SSSR, Serpukhov. Institut Fiziki Vysokikh
Energii). 10 Translated by R. Luther (CERN, Geneva, Switzerland),
from report 11 IFVE-OP-70-28. 20 8p. 24 Dep. NTIS (U. S. Sales
Only).

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26 Particle accelerators; physics (particle); translations 27 20G,
20H

28 MN-28 29 NP NSA

HEC (CERN-Trans-72-10) METHOD OF MEASURING
PHASE DIFFERENCES WITH A DOUBLE FREQUENCY TRANS-
FORMATION. Vishnevskaya, A. M.; Prosin, B. V. (Gosudar-
stvennyi Komitet po Ispol'zovaniyu Atomnoi Energii SSSR, Serpuk-
hov, Institut Fiziki Vysokikh Energii). Translated by B. Hodge
(CERN, Geneva), from report IFVE-CP-70-36. 28p. 24Dep.
NTIS (U. S. Sales Only).

26electronics and electrical engineering; translations 2709

28MN-38 29NP NSA

HEC (CERN-Trans-72-12) CHANNEL SYSTEM FOR
NEGATIVE PARTICLES WITH A MOMENTUM OF UP TO 40
GeV/c. Grachev, M. I.; Gubrienko, K. I.; Eremenko, E. V.;
Kartashev, V. P.; Kotov, V. I.; Samoyulov, A. V.; Seleznev,
V. S.; Khodyrev, Yu. S. (Gosudarstvennyi Komitet po Ispol'-
zovaniyu Atomnoi Energii SSSR, Serpukhov. Institut Fiziki
Vysokikh Energii). ⁸¹⁰Translated by B. Hodge (CERN), from
report ¹¹IFVE-OP-70-98, ²⁰18p. ²⁴Dep. NTIS (U. S. Sales Only).

²⁴particle accelerators; physics (particle); translations ²⁷20G,
²⁰H

²⁸MN-28 ²⁹NP NSA

REC-4 (CERN-Trans-72-11) INDUCED RADIOACTIVITY
AT THE IHEP PROTON SYNCHROTRON. Golovachik, V. T.;
Britvich, G. I.; Lebedev, V. N. (Gosudarstvennyi Komitet po
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26particle accelerators; translations 2720G

28MN-28 29NP NSA

REC. (ORNL-tr-2617) INTRANUCLEAR CASCADE IN THE
CONCRETE SHIELD OF A 70-GeV PROTON SYNCHROTRON.
Britvich, G. I.; Getmanov, V. B.; Lebedev, V. N.; Mal'kov, V. V.;
Sychev, B. S. (Gosudarstvennyi Komitet po Ispol'zovaniyu
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ergii). Translated for Oak Ridge National Lab., Tenn., from re-
port IFVE-ORZ-71-81. 11p. Dep. NTIS.

particle accelerators; physics (nuclear); radiation shielding and
protection; translations 20G, 20H, 18F

MN-34 P NSA

REVISED CARD

RF-1 (ORNL-tr-2616) ⁵STUDY OF THE NUCLEON-MESON
CASCADE IN SHIELDING MATERIALS. ⁶Endovitskii, V. S.; Kim-
mel, L. R.; Mozhov, N. V.; Britvich, G. I.; Lebedev, V. N. ⁷
(Gosudarstvennyi Komitet po Ispol'zovaniyu Atomnoi Energii
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for Oak Ridge National Lab., Tenn., from report ¹¹IFVE-ORZ-71-
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²⁶physics (nuclear); physics (particle); translations ²⁷20H

²⁸MN-34 ²⁹P NSA

70-13509-20H

Landsberg, L. G.
SOME UNUSUAL PROCESSES IN THE FIELD OF HIGH
ENERGY PHYSICS. USSR. Gosudarstvennyi Komitet po
Ispolzovaniyu Atomnoi Energii. Institut Fiziki Vysokikh
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ANL-TRANS-650.

Order from NTC as 70-13509-20H: HC \$ 6.70, MF \$ 5.80.

Production of Negative Particles by Photons
with Energies of up to 70 GeV, by Yu. B. Bushmin,
13 pp.
RUSSIAN, rpt, Gosudarstvennyi Komitet po
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Institute Fiziki Vysokikh Energii, IFVE-SEF-69-18.
AEC-QDNL-Tr-2266

Sci/Phy
Nov 70

(CERN-Trans-72-9) SELECTION OF ELECTRONS
IN SECONDARY PARTICLE BEAMS OF UP TO 50 GeV/c AND
DETECTION OF ELECTRON SHOWERS. Kuchanov, V. A.;
Kut'in, V. M.; Lapshin, V. G.; Rykalin, V. I.; Semenov, V. K.
(Gosudarstvennyi Komitet po Ispol'zovaniyu Atomnoi Energii
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18p. Dep. NTIS (U. S. Sales Only).

instrumentation; particle accelerators; physics (particle); transla-
tions 18D, 20G, 20H

MN-34 NP NSA

111 C-4 (SLAC-Trans-150) ELASTIC pi^+p , K^+p , AND anti pp
SCATTERING AT 25 AND 40 GeV/c. Antipov, Yu. M.; Busnello,
R.; Weitsch, A.; (and others) (Gosudarstvennyi Komitet po
Ispol'zovaniyu Atomnoi Energii SSSR, Serpukhov, Institut Fiziki
Vysokikh Energii). 10Translated from report 11IFVE-SEF-72-26.
2012p. 24Dep. NTIS.

21physics (particle); translations 2720H

3MN-34 28P NSA

17c (CERN-Trans-70-12) SOME RESULTS ON THE COM-
PLEX ADJUSTMENT AND START-UP OF THE IHEP PROTON
SYNCHROTRON, 4Ado, Yu. M.; Zhuravlev, A. A.; Logunov, A. A.;
(and others) 7(Gosudarstvennyi Komitet po Ispol'zovaniyu Atomnoi
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Translated by A. T. Sanders and Revised by N. Mouravieff (CERN,
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26particle accelerators; translations 2720G

28MN-28 29NP NSA

17: C. 4(CERN-Trans-70-10) 5 PRIMING AND MEASUREMENT
OF COHERENT BETATRON OSCILLATION OF A BEAM DURING
THE INITIAL PHASE OF ACCELERATION. 6 Andreichuk, V. N.;
Assov, A. A.; Zaitsev, V. I.; Myas, E. A. 7 (Gosudarstvennyi Ko-
mitet po Ispol'zovaniyu Atomnoi Energii SSSR, Serpukhov. Institut
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28 particle accelerators; translations 27 20G

28 MN-28 29 NP NSA

Article (CERN-Trans-71-3) 5 PHASE MOTION OF THE HIGH
INTENSITY BEAM OF THE STRONG-FOCUSING SERPUKHOV
PROTON SYNCHROTRON. 6 Pashkov, P. T.; Shukeilo, I. A.
7 (Gosudarstvennyi Komitet po Ispol'zovaniyu Atomnoi Energii
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26 particle accelerators; translations 27 20G

28 MN-28 29 NP NSA

AFC (CERN-Trans-72-13) SYSTEM FOR FAST BEAM
SPILL ONTO THE INTERNAL TARGET OF THE IHEP ACCE-
ERATOR, Gridasov, V. I.; Danil'chenko, I. A.; Zelenov, B. A.;
Kuznetsov, E. P.; Kurnaev, O. V.; Merker, E. A.; Myznikov,
K. P.; Ryabov, Yu. G.; Tarakanov, N. M. (Gosudarstvennyi
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particle accelerators; translations 20G

MN-28 NP NSA

1) F. C. (CERN-Trans-71-31) MEASUREMENT OF THE
FREQUENCIES OF BETATRON OSCILLATIONS AT THE IHEP
ACCELERATOR AT MEDIUM AND HIGH ENERGIES. Gertsev,
K. F.; Gridasov, V. I.; Kuz'min, A. A.; Myznikov, K. P.; Sena-
torov, G. P. 7 (Gosudarstvennyi Komitet po Ispol'zovaniyu Atomnoi
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26 particle accelerators; translations 27 20G

28 MN-28 29 NP NSA

1100 (CERN-Trans-71-30) DAMPING OF THE EFFECT
OF THE INCREASE OF BEAM DIMENSIONS DUE TO THE IN-
FLUENCE OF NON-LINEAR RESONANCES AT THE IHEP AC-
CELERATOR. Gridasov, V. I.; Myznikov, K. P.; Chepegin, V. N.
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26 Particle accelerators; translations 27 20G

28 MN-28 29 NP NSA

HEC-4 (CERN-Trans-72-14) APPLICATION OF NON-LINEAR
RESONANCES OF BETATRON OSCILLATIONS IN SLOW PARTICLE
EJECTION FROM ACCELERATORS WITH STRONG FOCUSING.

Podotov, Yu. S. (Gosudarstvennyi Komitet po Ispol'zovaniyu
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Translated by B. Hodge (CERN, Geneva), from report IFVE-
SKU-71-63. 20 25p. 24 Dep. NTIS (U. S. Sales Only).

26 particle accelerators; translations 27 20G

28 MN-28 29 NP NSA

AEC (CERN-Trans-72-15) INTERACTION OF AN INTENSE
BEAM WITH THE CAVITIES OF THE ACCELERATING STATIONS
AT TRANSITION. Balbekov, V. I.; Pashkov, P. T. (Gosudarstven-
nyi Komitet po Ispol'zovaniyu Atomnoi Energii SSSR, Serpukhov,
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S. Sales Only).

²⁴particle accelerators; translations ²⁷20G

²⁸MN-28 ²⁹NP NSA

SLAC-Trans-138) INTERACTION OF HIGH-EN-
ERGY MUONS WITH NUCLEONS AND NUCLEI. Ermolov,
P. F.; Sulyaev, R. M. (Gosudarstvennyi Komitet po Ispol'zovaniyu
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Translated for Stanford Linear Accelerator Center, Calif., from
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physics (nuclear); physics (particle); translations 2720H

21MN-34 22P NSA

70-13510-18H
Kompaneets, V. G.; Folomeshkin, V. N.
PHOTOPRODUCTION OF THE W-MESON PAIRS. USSR.
Gosudarstvennyi Komitet po Ispolzovaniyu Atomnoi
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V. D. Zhil'ohenkov

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15 pp.

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nov 72

AEC (CERN-Trans-71-14) VECTOR DOMINANCE AND
THE REDUCTION OF THE DIFFERENTIAL CROSS-SECTION OF
LEPTON PAIR PRODUCTION AT HIGH ENERGIES AT LARGE
ANGLES. Mestvirishvili, M. (Gosudarstvennyi Komitet po
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26 Physics (particle); translations 27 2011

28 MN-34 29 NP NSA

4/7/78 (SLAC-Trans-147) RELATION BETWEEN THE
SLOPES OF THE DIFFRACTION PEAKS OF FORWARD AND
BACKWARD HIGH-ENERGY SCATTERING. ⁸Arkhipov, A. A.;
Savrin, V. I. ¹⁰Translated for Stanford Linear Accelerator Cen-
ter, Calif., from report ¹¹IFVE-STF-71-107. ²⁰9p. ²⁴Dep. NTIS.

²⁵physics (particle); translations ²⁷20H

²⁸MN-34 ²⁹P NSA

Serpukhov Preprint

4EC
(CERN-Trans-70-8) MATCH TEST AND DEVICE
REQUIREMENTS FOR A METHOD OF SUPERIMPOSING THE
PROJECTION OF A TRAJECTORY ON TO A TRACK. Sokolov,
S. N.; Utochkin, B. A. (Gosudarstvennyi Komitet po Ispol'zo-
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28instrumentation; physics (particle); translations 2718D, 20H

28MN-37 29NP NSA

AEC (CERN-Trans-71-23) TRANSFER OF DATA FROM THE
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26computers; instrumentation; translations 2709B, 18D

28MN-32 29NP NSA

Simulation of the Interaction of the Solar
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G. G. Managadze, I. M. Podgomyi, 14 pp.
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Sci - Nuclear Science
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April 71

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Sci - Physics
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Sci/Phys
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Sci - Nuclear Science
Jul 67

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Jul 68

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Sci/Nuclear Sci
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Apr 67

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Source: Akademiya Nauk SSSR, Moscow,
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Author: Morozov, V. E. and Orlinskii, D. V.

Source: Akademiya Nauk SSSR, Moscow, Institut
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Author: Skosyrev, Yu. V. and Yurchenko, E. I.

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Agency: AEC/Tenn.

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16 March 1970

Title: Nekotorye Voprosy Effektivnosti Proizvodstva Elektroenergii v HGD-Generatorakh na Neravnovesnoi Plazme.

Author: V. V. Breev, et al.

Source: Kurchatov Atomic Energy Institute, Moscow, 1969. IAE-1701.

Language: Russian

Special Instructions: Translate and type one copy of abstract ~~page~~ preceding report.

Agency: AEC/Tenn.

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Title: The Harmonic Focusing Effect

Author: I. V. Al'tovskii

Source: Ordena Lenina, Institut Atomnoi Energii,
Moscow, 1968. Report IAE-1772.

Language: Russian

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Special Instructions: Translate into English
the Russian abstract preceding each report.

Agency: AEC/Tenn.
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Title: The Comparative Effectiveness of Different Evaluations in the Monte-Carlo Method.

Authors: L.V. Maiorov and A.D. Frank-Kamenetskii

Source: Ordena Lenina, Institut Atomno Energii, Moscow. Report IAE-1791. 1969.

Language: Russian

Special Instructions: Translate and type the Russian abstract preceding each report.

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P.O. Number: DTI-70-36

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Title: A Selection of Equations of Thermodynamic Properties and the Coefficients of Transfer of Water and Water Vapor for Machine Thermo-hydraulic Calculations

Authors: R.O. Isaakyan, E.M. Kudryavtseva

Source: Report IAE-1801. Kurchatov Atomic Energy Institute, Moscow, 1969.

Language: Russian

Special Instructions: Please translate and type one copy of abstract only. precedi g eahh report. ~~2882~~

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P.O. Number: DTI-70-18

Title: An Analysis of Fission by Neutrons Th²³²
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Author: P. E. Vorotnikov

Source: Ordena Lenina, Institut Atomnoy Energii
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Language: Russian

Special Instructions: Translate and type the
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Title: A Thermionic Source on a Base of
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Authors: A. I. Gurevich, et al.

Source: Ordena Lenina, Institut Atomno Energii,
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Language: Russian

Special Instructions: Translate and type the
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