JCPRG-2004-XXXX
INFORMAL REPORT

荷電粒子核反応データファイル（NRDF）利用説明書

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日本荷電粒子核反応データグループ
（JCPRG）

本成果の一部は文部省、日本学術振興会、北海道大学知識メディアラボラトリからの事業費、科学研究費等の補助を受けて作成されたものです。

1 概要

1.1 データ収集範囲

日本荷電粒子核反応データグループ（JCPRG, Japan Charged-Particle Nuclear Reaction Data Group）は以下の範囲の核データを収集配布対象としています：

- 1979-1985 年に出版された世界の陽子入射核反応データ
- 1986 年以降に出版された日本の荷電粒子（陽子・原子核・中間子）入射核反応データ

収集物理量は核反応に関する基本的な物理量（微分断面積、偏極量など）とそこから導出される物理量（光学ポテンシャルなど）の一部です。

ファイルに記されている情報には以下のようなものがあります：

- 書誌情報（著者、所属機関、掲載誌号頁など）
- 実験情報（加速器、検出器、解析法など）
- 数値情報（数値データ、誤差情報など）

1.2 NRDF 書式と DARPE

NRDF 書式は様々な荷電粒子核反応データを格納するために開発された JCPRG 独自の書式です。JCPRG は収集範囲にあるデータを NRDF 書式に採録し、対象論文ごとにテキストファイルの形で保存しています[1] 。このデータファイルは JCPRG のホームページから直接得ることができます。しかし通常の利用では、専用の検索・作図ツール DARPE（DAta Retrieving and Plotting Engine）を用いるのが簡単です。DARPE に関する詳細な説明は次章にあります。

1.3 EXFOR 書式と NRDF 書式

EXFOR（Exchange FORmat）書式は国際核反応データセンター網（NRDC, Nuclear Reaction Data Centres Network）[2] の各センター間で核反応データの送信を可能にするために開発された書式です。ここに、NRDC は核データの収集・採録・配布を国際間レベルで行う国際原子力機関（IAEA, International Atomic Energy Agency）によって組織されたネットワークです。JCPRG の収集範囲外のデータ（海外のデータ、中性子・光子入射データ）は、この EXFOR の形で得られることがあります。

全ての JCPRG の収集データは NRDF 書式で得ることができますが、もしある収集データが EXFOR 書式に格納可能である場合にはその収集データは EXFOR 書式に格納して IAEA 経由で海外センターに送信されます。これは、NRDF 書式で得られたファイルのある部分だけが EXFOR 書式でも得られることを意味します。この EXFOR の検索サイトは、IAEA 核データ部（NDS, Nuclear Data Section）や米国国立核データセンター（NNDC, National Nuclear Data Center）などのホームページから利用可能です。これらのページへのリンクは JCPRG のホームページ（http://www.jcprg.org/）にあります。なお、JCPRG でも EXFOR の検索サイトを近く公開する予定です。

[1] ファイルの例については付録 C を参照のこと
[2] 付録 B を参照のこと

1.4 問い合わせ先

この説明書に述べられていない核データに関しては、以下まで遠慮なくお問い合わせ下さい：

〒 060-0810
札幌市北区北十条西 8 丁目
北海道大学大学院理学研究科物理学教室
日本荷電粒子核反応データグループ
TEL 011-706-2684
FAX 011-706-4850
http://www.jcprg.org/
darpe-admin@jcprg.org（DARPE に関する内容）
services@jcprg.org（その他の内容）

2　検索・作図ツール DARPE

DARPE は NRDF 書式で格納された核反応データを検索・作図するためのツールです。JCPRG は NRDF 書式への荷電粒子核反応採録活動を 1974 年に開始しました。それ以来、1500 以上の論文に対応するデータが採録され現在に至ります。1990 年代のインターネットの急速な普及に伴って、高度な検索や便利なプロットを可能とする NRDF データベースの提供が可能になりました。この開発は 1996 年に最初に行われ、その後に更新されました[3]。この検索・作図システムは CGI 技術によるものであり、利用者は通常のブラウザを用いてウェブ経由でシステムが利用できます。特別なソフトのインストールや知識は必要ありません。

その後、蓄積データが増加したこととと可能な限り利用者に優しいシステムを目指して、新しい検索・作図システム DARPE が開発されました。本章では DARPE の基本的な利用法を説明します。

[3]本開発に関する経緯に関しては、升井、NRDF 年次報告 (1999) p.15（日本語）、升井ほか、NRDF 年次報告 (2000) p.86（英語）を参照のこと

2.1 検索条件入力画面

DARPE による検索は、図 1 にあるような画面から開始します。このページは以下にあります：

`http://www.jcprg.org/nrdf/`

利用者は以下の項目を検索項目として入力できます。なお”Example”ボタンを押すと検索項目の入力例が得られます。

- **反応式**
  - **入射粒子（Projectile）**
    フォームに入力する（例 `12C`）かプルダウンメニューから選択します。
  - **標的核（Target）**
    入射粒子と同様です。
    陽子など軽い元素の場合はフォーム入力（`1H`, `2H`, `3H`）によってデータが見付かる場合があります。
- **入射エネルギー（Incident Energy）**
  入射エネルギーの範囲あるいは値をフォームに入力します。
  一般的に単値よりは範囲で指定することをお薦めします。例えば 400 MeV のデータを探すのには 390 MeV〜410 MeV などとします。
- **物理量（Quantity）**
  プルダウンメニューから選択します。
  NRDF では論文の表現に依存して、同一の物理量が異なるコードで採録されていることがあります。そこでこの項目は検索結果の絞りこみの際に使うことをお薦めします。
- **書誌情報**
  - **著者名（Author）**
    フォームに入力します（例 `Baba`、`M.Baba`）。
  - **雑誌名（Reference）**
    雑誌名辞書（Journal list）から選びます。
    希望の雑誌名をクリックすると雑誌名がフォームに自動的に入力されます。
  - **出版年（Year）**
    プルダウンメニューから選択します。
- **検索結果画面の表示数**
  検索結果画面の各ページに表示する論文の最大数を設定します。
- **検索結果画面のコメント表示の有無**
  表の項目名（ヘディング）がコメントを伴う場合に、その表示の有無を設定します。
- **検索実行・入力取消ボタン（Search and Reset）**
  調べたい項目を全て入力したら”Search”ボタンを押して下さい。また入力項目を全て消去したい場合には”Reset”ボタンを押して下さい。

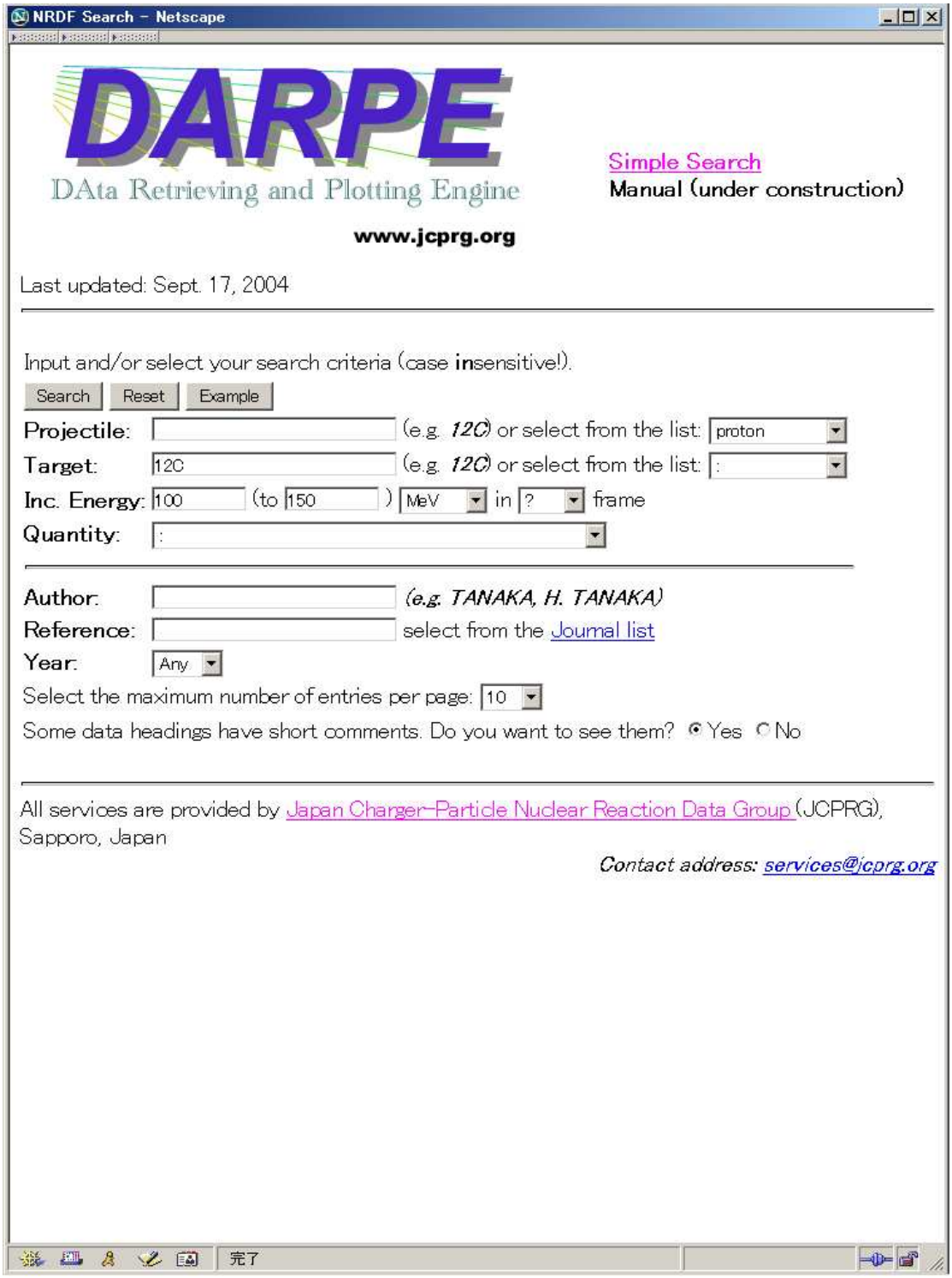
NRDF Search - Netscape
DARPE
DAta Retrieving and Plotting Engine
www.jcprg.org
Simple Search
Manual (under construction)
Last updated: Sept. 17, 2004
Input and/or select your search criteria (case insensitive!).
Search
Reset
Example
Projectile:
(e.g. 12C) or select from the list:
proton
Target:
12C
(e.g. 12C) or select from the list:
Inc. Energy:
100
(to 150)
MeV
in
?
frame
Quantity:
Author:
(e.g. TANAKA, H. TANAKA)
Reference:
select from the Journal list
Year:
Any
Select the maximum number of entries per page:
10
Some data headings have short comments. Do you want to see them?
Yes
No
All services are provided by Japan Charger-Particle Nuclear Reaction Data Group (JCPRG), Sapporo, Japan
Contact address: services@jcprg.org
完了

図 1: 検索条件入力画面

2.2 検索結果表示画面（Search Results）

検索を実行すると、その結果が図 2 のように表示されます。検索語に一致した内容は太字で示されます。以下、表示内容を項目ごとに説明します[4]。

- **D 番号**
  データ識別番号。この情報は検索内容によらず表示されます。
  D 番号は論文は一対一の関係にあります。そして、一つのデータファイルは一つの D 番号のファイル（即ち一つの論文）に対応します。この番号をクリックするとより詳細な検索結果表示が得られます。

- **書誌情報**
  論題、著者名、掲載誌巻頁年。この情報は検索内容によらず表示されます。
  雑誌によっては掲載誌巻頁をクリックすると電子ジャーナルが得られます。

- **テーブル情報**

  – **テーブル番号（Data）**
    データテーブル識別番号。この情報は検索内容によらず表示されます。
    テーブル番号をクリックするとグラフを含むデータ情報が得られます。このデータ情報はチェックボックスをマークして”Plot”を押しても得られます。後者の方法は複数のテーブルからグラフの重ね書きを得るのに便利です。異なる D 番号に跨っての複数選択も可能です。これは同じ物理量を異なる実験で比較する場合に便利です。

  – **物理量（Physical quantities）**
    各テーブルが持つ数値テーブルの項目名（ヘディング）の一覧。反応式・物理量あるいは入射エネルギーを検索項目とした時に表示されます。
    横・縦軸として初期設定された項目はそれぞれ紫・赤色の文字で表示されます。

  – **反応式（Reactions）**
    各テーブルによって記述されている反応式。反応式（入射粒子など）を検索項目とした時に表示されます。

  – **入射エネルギー（Energies）**
    入射エネルギー（あるいはその範囲）。入射エネルギーを検索項目とした時に表示されます。

- **作図実行・入力取消ボタン（Plot and Reset）**
  作図したいテーブルを全てチェックしたら”Plot”ボタンを押して下さい。またチェック項目を全て消去したい場合には”Reset”ボタンを押して下さい。このボタンは D 番号ごとに別々に表示されますが機能はどれも同じです。

[4]幾つかの項目の表示の有無は入力した検索語の種類に依存します。

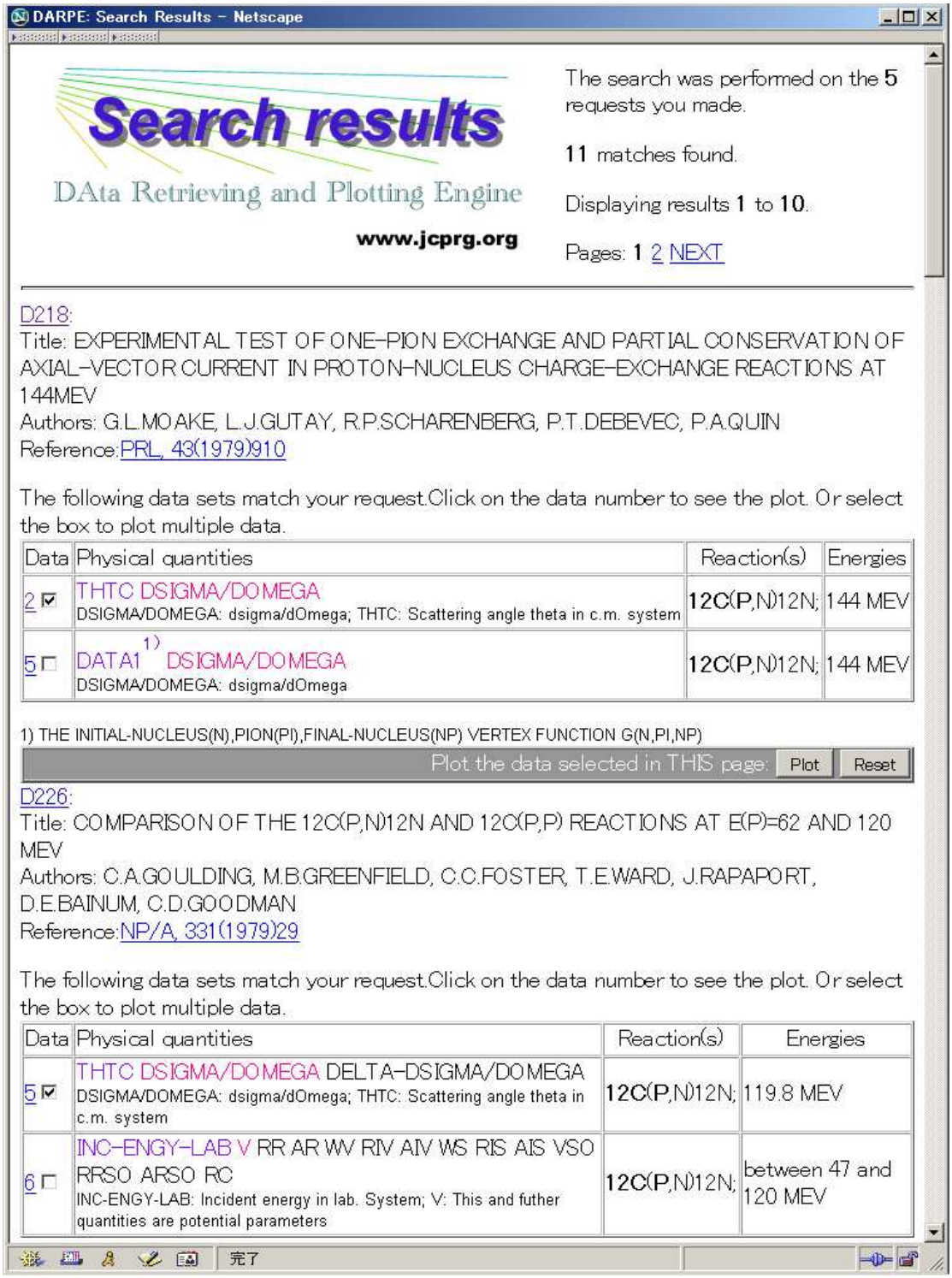
DARPE: Search Results - Netscape
Search results
DAta Retrieving and Plotting Engine
www.jcprg.org
The search was performed on the 5 requests you made.
11 matches found.
Displaying results 1 to 10.
Pages: 1 2 NEXT
D218:
Title: EXPERIMENTAL TEST OF ONE-PION EXCHANGE AND PARTIAL CONSERVATION OF AXIAL-VECTOR CURRENT IN PROTON-NUCLEUS CHARGE-EXCHANGE REACTIONS AT 144MEV
Authors: G.L.MOAKE, L.J.GUTAY, R.P.SCHARENBERG, P.T.DEBEVEC, P.A.QUIN
Reference:PRL, 43(1979)910
The following data sets match your request.Click on the data number to see the plot. Or select the box to plot multiple data.
Data
Physical quantities
Reaction(s)
Energies
2
THTC DSIGMA/DOMEGA
DSIGMA/DOMEGA: dsigma/dOmega; THTC: Scattering angle theta in c.m. system
12C(P,N)12N;
144 MEV
5
DATA1 1) DSIGMA/DOMEGA
DSIGMA/DOMEGA: dsigma/dOmega
12C(P,N)12N;
144 MEV
1) THE INITIAL-NUCLEUS(N),PION(PI),FINAL-NUCLEUS(NP) VERTEX FUNCTION G(N,PI,NP)
Plot the data selected in THIS page:
Plot
Reset
D226:
Title: COMPARISON OF THE 12C(P,N)12N AND 12C(P,P) REACTIONS AT E(P)=62 AND 120 MEV
Authors: C.A.GOULDING, M.B.GREENFIELD, C.C.FOSTER, T.E.WARD, J.RAPAPORT, D.E.BAINUM, C.D.GOODMAN
Reference:NP/A, 331(1979)29
The following data sets match your request.Click on the data number to see the plot. Or select the box to plot multiple data.
Data
Physical quantities
Reaction(s)
Energies
5
THTC DSIGMA/DOMEGA DELTA-DSIGMA/DOMEGA
DSIGMA/DOMEGA: dsigma/dOmega; THTC: Scattering angle theta in c.m. system
12C(P,N)12N;
119.8 MEV
6
INC-ENGY-LAB V RR AR WV RIV AIV WS RIS AIS VSO RRSO ARSO RC
INC-ENGY-LAB: Incident energy in lab. System; V: This and futher quantities are potential parameters
12C(P,N)12N;
between 47 and 120 MEV
完了

図 2: 検索結果表示画面

2.3　作図軸選択画面

作図実行ボタンを用いてグラフを含むテーブル情報を要求すると、図 3 に示される作図軸の選択画面が表示されます。この画面では、作図に際して x 軸と y 軸にどの物理量を用いるかを設定することができます。

- **軸設定可能項目名（Quantity）**
  x 軸 y 軸それぞれ希望する項目名（ヘディング）をチェックして下さい。
- **作図実行・入力取消ボタン（Plot and Reset）**
  軸に対応する項目名をチェックしたら”Plot”ボタンを教えて下さい。またチェック項目を全て消去したい場合には”Reset”ボタンを押して下さい。

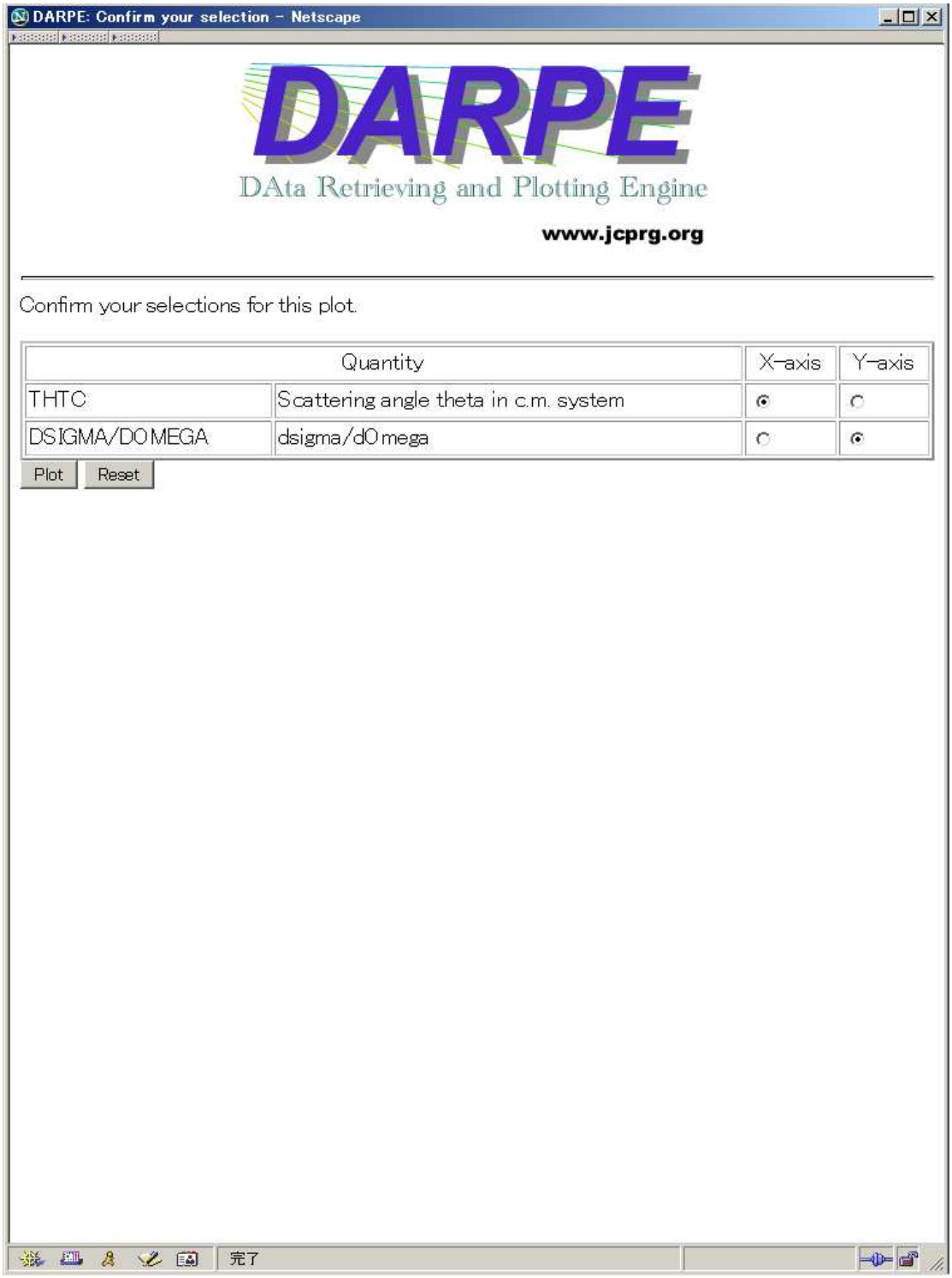
DARPE: Confirm your selection – Netscape
DARPE
DAta Retrieving and Plotting Engine
www.jcprg.org
Confirm your selections for this plot.
Quantity
X-axis
Y-axis
THTC
Scattering angle theta in c.m. system
DSIGMA/DOMEGA
dsigma/dOmega
Plot
Reset
完了

図 3: 作図軸選択画面

2.4 テーブル情報表示画面（Data File）

検索結果表示画面でデータ識別番号をクリックした場合、あるいは作図軸選択画面で作図実行ボタンを押した場合には図 4 に示されるような画面にて、指定したテーブルに関する詳細情報が表示されます。

- **グラフ**
  可能な場合には従属変数の誤差も表示されます。それ以外の場合にはデータ間は線で結ばれます。グラフ下の [LOG][LINEAR] をクリックすると、縦軸の片対数表示の有無を変更できます。

- **テーブル情報**
  グラフの下にはテーブルの D 番号とテーブル番号ごとにグラフの横軸と縦軸の単位、反応式、掲載誌巻頁が表示されます。D 番号をクリックすると当該 D 番号の NRDF ファイル全体を見ることができます[5]。またテーブル番号をクリックすると数値テーブルがテキスト形式で得られます。

[5]NRDF のソースファイル例については、付録 C を参照のこと。またソースファイルで用いられる NRDF 書式のコードについては付録 D を参照のこと。

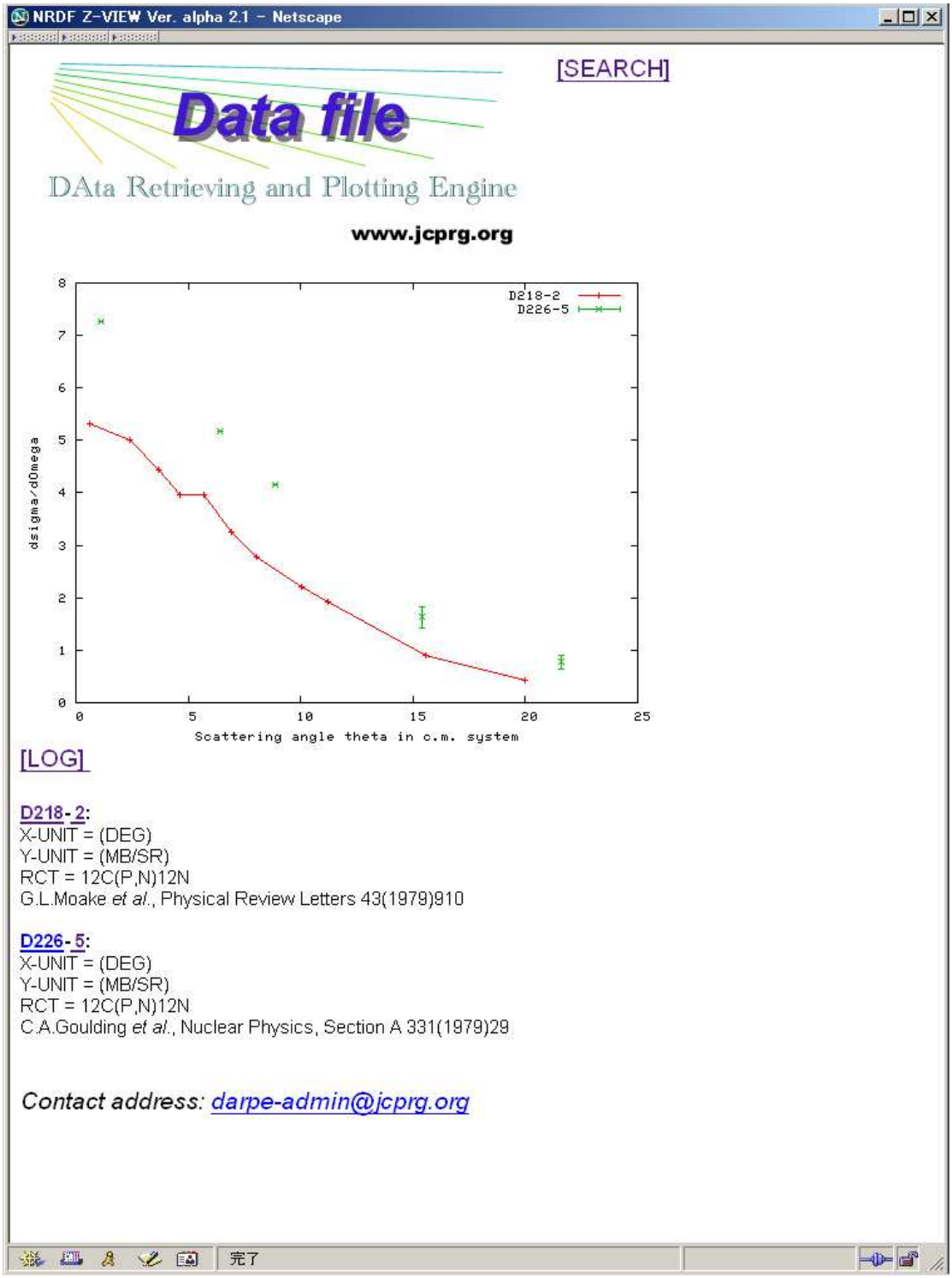

図 4: テーブル情報表示画面

付　　録

A　荷電粒子核反応データファイル利用規程（2002 年 10 月 10 日）

(目的)

第１条 この規程は、日本荷電粒子核反応データグループが管理提供する荷電粒子核反応データファイル（以下「データファイル」という。）の利用に関して必要な事項を定めることを目的とする。

(公開方法)

第２条 データファイルの公開は次の方法による。

一 北海道大学大学院理学研究科設置サーバによる公開

二 北海道大学情報基盤センター設置サーバによる公開

(著作権及び制限)

第３条　一 利用者はデータファイルの著作権を侵害してはならない。

二 利用者は国際交換書式と同様に軍事目的でデータファイルを利用してはならない。

(利用時間)

第４条 データファイルの利用時間は原則 24 時間とする。ただし、停電・作業等で必要な場合は公開を停止することがある。

(利用料金)

第５条 データファイル利用は無償とする。

(利用成果の公表)

第６条 利用者が、データファイルを利用し研究成果等を公表するときは、本データファイルを利用したことを明らかにするものとする。

(不正利用の防止)

第７条 データファイルの利用に関し、不正・違法な行為が行なわれた場合、または行なわれようとした場合、委員長はその利用者に対して、利用の中止、ダウンロードした全情報の削除、その他必要な対処を求めることができる。

(補則)

第８条 この規定に定めるもののほか、データベースの公開および利用に必要な事項は委員長が別に定める。

B　国際核反応データセンターネットワーク

国際原子力機関（IAEA）のもとで EXFOR の採録を行う核反応データセンターは以下の通りです。

National Nuclear Data Center, Bldg. 197D Brookhaven National Laboratory Upton, NY, 11973-5000 U.S.A.	センタコード: 1, C, L, P, T 電話: +1 631-344-2902 ファックス: +1 631-344-2806 電子メール: services@bnl.gov ホームページ: www.nndc.bnl.gov
NEA Data Bank 12, boulevard des Iles 92130 Issy-les-Moulineuax, FRANCE	センタコード: 2, O 電話: +33 (1) 4524 1071 ファックス: +33 (1) 4524 1110 電子メール: nea@nea.fr ホームページ: www.nea.fr
IAEA Nuclear Data Section Wagramerstr. 5, P.O.Box 100 A-1400 Vienna, AUSTRIA	センタコード: 3, D, G, V 電話: +43 (1) 2360 1709 ファックス: +43 (1) 234 564 電子メール: services@iaeand.iaea.org ホームページ: www-nds.iaea.org
Federal Reserach Center IPPE Centr Yadernykh Dannykh Ploschad Bondarenko 249 020 Obninsk, Kaluga Region, RUSSIA	センタコード: 4, Q 電話: +7 084-399-8982 ファックス: +7 095-883-3112 電子メール: manokhin@ippi.rssi.ru
China Nuclear Data Center China Institute of Atomic Energy P.O.Box 275 (41) Beijing 102413, CHINA	センタコード: S 電子メール: cndc@mipsa.ciae.ac.cn ホームページ: http://159.226.2.40/
Dr. F. T. Tárkány Cyclotron Application Department ATOMKI, Institute of Nuclear Research Bem Tér 18/c P.O.Box 51 H-4001 Debrecen, HUNGARY	センタコード D に寄与 電子メール: tarkanyi@atomki.hu
Japan Charged-Particle Nuclear Reaction Data Group Division of Physics, Hokkaido University Kita-10 Nishi-8, Kita-ku Sapporo 060-0810, JAPAN	センタコード: E, J, R 電子メール: services@jcprg.org ホームページ: http://www.jcprg.org/
National Scientific Research Center Kurchatov Institute Russia Nuclear Center 46 Ulitsa Kurchatova 123 182 Moscow, RUSSIA	センタコード: A, B 電子メール: feliks@polyn.kiae.su
Institute of Nuclaer Physics Moskovskiy Gos. Universitet Vorob'evy Gory 119 899 Moscow, RUSSIA	センタコード: M 電子メール: varlamov@cdfe.npi.msu.ru ホームページ: http://cdfe.sinp.msu.ru/
Russian Federal Center - VNIIEF Sarov, Nizhni Novgorod Region 607 190 pr. Mira 37, RUSSIA	センタコード: F 電子コード: taova@expd.vniief.ru
Ukrainian Nuclear Data Centre Institute for Nuclear Research Prospekt Nauky 47 Kyiv 03680 UKRAINE	センタコード 3, D に寄与 電子コード: ogritzay@kinr.kiev.ua ホームページ: http://ukrndc.kinr.kiev.ua/

C　NRDF データファイル例

```
\\BIB,1[2;
D#=D9991;
TITLE=/Measurement of the 24Mg(p,t)22Mg reaction for the states near
       the 21Na+p threshold/;
ATH=(S.MICHIMASA'1', S.KUBONO'1', S.H.PARK'2', T.TERANISHI'1',
     Y.YANAGISAWA'3', N.IMAI'4', ZS.FULOP'5', X.LIU'1',
     T.MINEMURA'3', C.C.YUN'1', J.M.D'AURIA'6', K.P.JACKSON'7');
INST-ATH=(2JPNTOK'1', 3KORNSU'2', 2JPNIPC'3', 2JPNTOK'4', 3HUNDEB'5',
          1CANSFU'6', 1CANTMF'7');
     /* '1' Center for Nuclear Study(CNS) */
     /* '2' School of Physics */
     /* '4' Department of Physics */
     /* '6' Department of Chemistry */
REF=EPJ/A;
VLP=14(2002)275;
RCTS=24MG(P,T)22MG;
PHQS=ANGL-DSTRN;

\\EXP,1[2;
/* 2004-03-22 : Compiled */
RTY=PKUP;
PHQ=ANGL-DSTRN;
ENR=99.9%;
CHM=ELM;
PHYS-FORM=SLD;
THK-TGT=0.358+-0.012MG/CM**2;
BAC=X;
POL-TGT=0%;
ALGN-TGT=0%;
ACC=CYC'8';
/* '8' CNS-SF cyclotron */
INST-ACC=2JPNINS;
INC-ENGY-LAB=34.68MEV;
BEAM-INTNSTY=[100NA'9';
/* '9' The beam current on the target was monitored by a Faraday
       cup placed just after the target. */
POL-PRJ=0%;
DET-PARTCL=T;
COINC=NO;
ANT-COINC=NO;
DET-SYS=(MAG'10',SWPC'11',PLST-SCT);
/* '10' High-resolution magnetic spectrograph, PA [S. Kato et
        al., Nucl. Instrum. Methods 154, 19 (1978)] */
/* '11' Hybrid-gas counter [M.H. Tanaka et al., Nucl. Instrum.
        Methods 195, 509 (1976)] */
SOLID-ANGL=5.0MSR;
ERS-DET=[37.5KEV'12';
/* '12' FWHM for tritons */
ANL=DWBA'13';
/* '13' The analysis is made with the code TWOFNR [M. Igarashi,
        unpublished] for spin assignments. The optical potential
        parameters of the initial and final channels are taken from
        R.A.Paddock[Phys. Rev. C5, 485(1972)]. A Woods-Saxon form
        factor with r=1.2fm and a=0.65fm is used for the bound-state
        potential, where the depth was determined to reproduce the
        separation energy. */
/* Experimental Method:
```

```
   - Time-of-flight (Particle Identification)
   - Particle identification by 'E/Delta E' measurement (Particle
     Identification)
*/

\\EXP,1;
RCT=24MG(P,T)22MG;

\\DATA,1;
INC-ENGY-LAB=34.68MEV;
EMT=T;
RSD=22MG;
EXC-ENGY=0.0MEV;
J-PTY=0+;
\DATA;
THTC DELTA-THTC DSIGMA/DOMEGA DELTA-DSIGMA/DOMEGA FLAG'14'
(DEG) (DEG) (MB/SR) (MB/SR) (NODIM)
11.54  +-0.02      1.54  +-0.46   X
17.29  +-0.05       0.875 +-0.175  1
...
83.57  +-0.06       0.202 +-0.014  X
88.74  +-0.03      0.221 +-0.017  X
\END;
/* Data (Fig.1 upper circles, p276 in reference) received from
   S.Kubono by e-mail. */
/* '14'
 FLAG(1.) At 17.29deg two data are taken at left and right sides
          of spectrometer to check symmetry of measurement
*/

\\EXP,2;
RCT=24MG(P,T)22MG;

\\DATA,2;
INC-ENGY-LAB=34.68MEV;
EMT=T;
RSD=22MG;
EXC-ENGY=6.0458MEV;
DELTA-EXC-ENGY=0.0030MEV;
J-PTY=0+;
\DATA;
THTC DELTA-THTC DSIGMA/DOMEGA DELTA-DSIGMA/DOMEGA
(DEG) (DEG) (UB/SR) (UB/SR)
14.99 +-0.04      8.38   +-1.95
23.03 +-0.08      11.9   +-1.76
27.03 +-0.11      11.3   +-1.51
...
54.59 +-0.23      6.54   +-0.46
62.26 +-0.21      4.67   +-0.27
69.83 +-0.17      3.80   +-0.22
\END;
/* Data (Fig.1 middle circles, p276 in reference) received from
   S.Kubono by e-mail. */
\\END;
```

D　NRDF コード一覧

NRDF 辞書は NRDF 書式で用いる全てのコードの一覧です。その内容は表 1 に掲げる通りです。NRDF 書式で用いられるコードは以下のように 5 の型に分類されています。

- **W 型: 単語（Word）辞書**
  NRDF コードを構成するための単語コード（基本コード）
- **F 型: 項目名（Field）辞書**
  NRDF 書式の単文 `A=B;` の左辺に項目名として利用されるコード
  例）`REF`: Reference、`RTY`: Reaction type、`PHQ`: Physical quantity
- **V 型：項目値（Value）辞書**
  NRDF 書式の単文 `A=B;` の右辺に項目値として利用されるコード
  例）`EPJ/A`: The European Physical Journal A、`ELA-SCATT`: Elastic scattering、`ANGL-DSTRN`: Angular distribution
- **H 型: 項目題（Heading）辞書**
  NRDF 書式の表にヘディングとして利用されるコード
  例）`THTC:` Scattering angle theta in c.m. system、`DSIGMA/DOMEGA`: dsigma/dOmega、`FLAG`: Flag
- **S 型: 制御子（System）辞書**
  NRDF 書式の制御子として利用されるコード
  例）`BIB:` Bibliography section、`EXP`: Experimental section、`DATA`: Data section

また、項目名と項目値は更に以下のように 14 の類に分類されています。多くの類のコードは単文 `A=B;` において左辺と右辺は同じ類の項目値と項目名で結ばれる。そのような場合には結合例を記しました。

- **1 類: 研究所名**
  例）`INST-ATH=2JPNTOK` ⇒ Institution of author = University of Tokyo
- **2 類: 雑誌名**
  例）`REF=EPJ/A` ⇒ Reference = The European Physical Journal A
- **3 類: 反応型**
  例）`RTY=ELA-SCATT` ⇒ Reaction type = Elastic scattering
- **4 類: 加速器**
  例）`ACC=CYC` ⇒ Accelerator = Cyclotron
- **5 類: 検出器**
  例）`DET-SYS=SWPC` ⇒ Detector = Single wire proportional chamber
- **6 類: 分析法**
  例）`ANL=DWBA` ⇒ Analysis = Distorted wave Born approximation
- **7 類: 物理量**
  例）`PHQ=ANGL-DSTRN` ⇒ Physical quantity = Angular distribution

- **8.1 類: 標的の濃縮度**
  例）`ENR=NAT` ⇒ Enrichment of target nucleus = Natural
- **8.2 類: 標的の物理的形状**
  例）`PHYS-FORM=SLD` ⇒ Physical form of target nucleus = Solid
- **8.3 類: 標的の化学的形状**
  例）`CHM=ELM` ⇒ Chemical form of target nucleus = Element
- **8.4 類: 標的の支持体**
  例）`BAC=AL` ⇒ Backing = Aluminum
- **9 類: YES/NO**
- **10 類: 特殊値**
- **11 類: 光学ポテンシャル**
- **12 類: その他**
- **13 類: 粒子名**
  例）`DET-PARTCL=T` ⇒ Detected particle = Triton
- **14 類: 単位名**

表 1: NRDF コード（2004 年 6 月 29 日改訂)、但し、V 型 13 類（粒子名）のうち核種コード（例 12C）は省略、フラグ欄の”O”は廃止コードを意味する。このフラグのついたコードを採録や修正で用いることはできないが、既存のファイルにはこのコードを含むものが存在する。

Code	Expansions	Type-Class	Flag
%	Percent	V-14	
(CH2N2)3	(CH2N2)3	V-8.3	
(GEV/C)**2	(GeV/c)**2	V-14	
(MB/SR)*(C**3/GEV**2)	(mb/sr) (c**3/GeV**2)	V-14	
(MB/SR)**(-1)	(mb/sr)**-1	V-14	
(MB/SR)**-1	(mb/sr)**-1	V-14	
(MEV*AMU)**0.5	(MeV*amu)**0.5	V-14	
(MEV/A)**0.5	(MeV/A)**0.5	V-14	
(MEV/C)**(-3)	(MeV/c)**-3	V-14	
(ND.2)O3	Nd2O3	V-8.3	
\\BIB	Bibliography section header	S	
\\DATA	Data section header	S	
\\END	End of data stream	S	
\\EXP	Experimental condition section header	S	
\DATA	Data table header	S	
\END	End of data table	S	
1/FM	1/fm	V-14	
1/MEV	1/MeV	V-14	
1/SR/MEV/PARTCL	1/sr/MeV/inc.particle	V-14	
1/SR/MEV/UCOULOMB	1/sr/MeV/u-Coulomb	V-14	
1/SR/PARTCL	1/sr/inc.particle	V-14	
10BE.0	10BeO	V-8.3	
12C	12C	V-8.4	
16O	16O	V-8.4	
1CANALA	Univ. of Alberta, Edmonton, Alberta	V-1	
1CANBUQ	Bishop University, Lennoxville, Quebec	V-1	
1CANCAN	Canada	V-1	
1CANCPO	A.E.C.L. Commercial Products, Ottawa, Ontario	V-1	
1CANCRC	A.E.C.L., Chalk River, Ontario	V-1	
1CANCRL	Carleton University, Ottawa, Ontario	V-1	
1CANGUE	Univ. of Guelph, Guelph, Ontario	V-1	
1CANKQU	Queen’s University, Kingston, Ontario	V-1	O
1CANLUQ	Laval University, Sainte-Foy, Quebec	V-1	
1CANMCG	McGill University, Montreal,Quebec	V-1	
1CANMCM	McMaster University, Hamilton, Ontario	V-1	
1CANMGW	Sir George Williams Univ., Montreal, Quebec	V-1	
1CANMNA	Univ. of Manitoba, Cyclotron Lab., Winnipeg, Manitoba	V-1	
1CANMON	Univ. of Montreal, Montreal, Quebec	V-1	
1CANMPT	Ecole Polytechnique de Montreal, Quebec	V-1	
1CANMRC	National Research Council, Montreal Lab., Quebec	V-1	
1CANOTC	National Research Council, Ottawa, Ontario	V-1	
1CANOTU	Univ. of Ottawa, Ottawa, Ontario	V-1	
1CANPIN	A.E.C.L., Whiteshell Nuc.Res.Establ.,Pinaua,Manitoba	V-1	
1CANQU	Queen’s Univ., Kingston, Ontario	V-1	
1CANSAS	Univ. of Saskatchewan, Saskatoon, Saskatchewan	V-1	
1CANSFU	Simon Frazer University, Burnaby, B.C.	V-1	
1CANTMF	Tri University Meson Facility, Vancouver, B.C.	V-1	
1CANTOR	Univ. of Toronto, Toronto, Ontario	V-1	
1CANUBC	Univ. of British Columbia, Vancouver, B.C.	V-1	
1CANUWO	Univ. of Western Ontario, London, Ontario	V-1	
1USAABD	U.S. Army Aberdeen Res.+ Develop.Center, Aberdeen, MD	V-1	

1USAACC	Exxon Nuclear Idaho Co., ID	V-1	
1USAAEC	U.S. Atomic Energy Commission, Washington, DC	V-1	
1USAAFT	Air Force Inst. Technology, Wright-Patterson AFB, OH	V-1	
1USAAFW	Air Force Weapons Lab., Kirkland AFB, Albuquerque, NM	V-1	
1USAAGN	Aerojet-General Nucleonics, San Ramon, CA	V-1	
1USAAI	Rockwell Int., Energy Systems Group, Canoga Park, CA	V-1	
1USAAIF	Argonne National Laboratory - West, Idaho Falls, ID	V-1	
1USAAIP	American Institute of Physics, New York, NY	V-1	
1USAALB	State University of New York, Albany, NY	V-1	
1USAALS	Alabama State University, Montgomery, AL	V-1	
1USAAMH	Amherst College, Amherst, MA	V-1	
1USAAMW	American Universit, Washington, DC	V-1	
1USAANA	U.S. Naval Academy, Annapolis, MD	V-1	
1USAAND	Andrews Univ., Berrien Springs, MI	V-1	
1USAANL	Argonne National Laboratory, Argonne, IL	V-1	
1USAAPD	Atomic Power Development Associates, Detroit, MI	V-1	
1USAARC	Atlantic Richfield Hanford Company, Richland, WA	V-1	
1USAARF	Armour Research Foundation, Chicago, IL	V-1	O
1USAARK	Univ. of Arkansas, Fayetteville, AR	V-1	
1USAARL	Aerospace Res. Labs, Wright-Patterson A.F. Base, OH	V-1	
1USAARS	Aerospace Research Labs.	V-1	O
1USAAST	Astra Inc., Raleigh, NC	V-1	
1USAASU	Arizona State University, Tempe, AZ	V-1	
1USAAUB	Auburn University, Auburn, AL	V-1	
1USAAUI	University of Illinois, Urbana-Champaign, IL	V-1	O
1USAB+W	Babcock and Wilcox, Lynchburgh, VA	V-1	
1USABAR	Bartol Research Foundation, Swarthmore, PA	V-1	
1USABAT	Battelle Memorial Institute, Columbus, OH	V-1	
1USABCC	J.T.Baker Chemical Company, Phillipsburg, NJ	V-1	
1USABCM	Boston College, Chestnut Hill, MA	V-1	
1USABEL	A& Bell Laboratories, Murray Hill, NJ	V-1	
1USABET	Bettis Atomic Power Lab., Westinghouse, Pittsburgh,PA	V-1	
1USABLN	Brooklyn College of the C.U.N.Y., Brooklyn, NY	V-1	
1USABNL	Brookhaven National Laboratory, Upton, NY	V-1	
1USABNW	Pacific Northwest Laboratories, Richland, WA	V-1	
1USABOE	Boeing Scientific Research Labs, Seattle, WA	V-1	
1USABRK	Univ. of Calif. Lawrence Berkeley Lab., Berkeley, CA	V-1	
1USABRL	Ballistic Research Labs, Aberdeen Proving Grounds, MD	V-1	
1USABRN	Brown University, Providence, RI	V-1	
1USABSU	Ball State Univ., Muncie, IN	V-1	
1USABYU	Brigham Young University, Provo, UT	V-1	
1USACAL	California Institute of Technology, Pasadena, CA	V-1	
1USACAR	Carnegie Inst. of Technology, Pittsburgh, PA,	V-1	
1USACAW	Carnegie Institute, Washington, DC	V-1	
1USACBE	Combustion Engineering, Windsor, CN	V-1	
1USACBF	Thomas Jefferson Nat'l Accel.Facil., Newport News, VA	V-1	
1USACFN	California State University, Northridge, CA	V-1	
1USACHI	University of Chicago, IL	V-1	
1USACLA	University of California, Los Angeles, CA	V-1	
1USACLI	Clinton Labs, Knoxville, TN	V-1	
1USACLK	Clark University, Worcester, MA	V-1	
1USACLS	Cleveland State University, Cleveland, OH	V-1	
1USACLU	Colorado University, Boulder, CO	V-1	
1USACMU	Carnegie-Mellon University, Pittsburgh, PA	V-1	O
1USACOL	Columbia University, New York, NY	V-1	
1USACON	Convair, San Diego, CA	V-1	

1USACOR	Cornell University, Ithaca, NY	V-1	
1USACOU	Courant Inst. of Mathematical Sciences, New York, NY	V-1	
1USACRD	California Research and Development Co., Livermore,CA	V-1	
1USACSD	University of California, San Diego, CA	V-1	
1USACSE	Case Western Reserve University, Cleveland, OH	V-1	
1USACSI	Columbia Scientific Industries Corp., Lafayette, LA	V-1	
1USACSM	Colorado School of Mines, Golden, CO	V-1	
1USACST	California State University, Los Angeles, CA	V-1	
1USACSU	Colorado State University, Fort Collins, CO	V-1	
1USACUA	Catholic University of America, Washington, DC	V-1	
1USACUW	Curtiss-Wright Corp., Quehanna, PA	V-1	
1USACWR	Curtiss-Wright Corp., Quehanna, Pa	V-1	O
1USADAV	University of California, Davis, CA	V-1	
1USADKE	Duke University, Durham, NC	V-1	
1USADLS	Univ. of Dallas, Irving, TX	V-1	
1USADNS	Denison University, Granville, OH	V-1	
1USADOD	Dept. of Defense, DASA, Washington, DC	V-1	
1USADOE	Department of Energy, Washington, DC	V-1	
1USADOF	Diamond Ordnance Fuse Laboratory	V-1	
1USADRF	Dow Chemical Co., Rocky Flats, CO	V-1	
1USAEGG	E G+G Energy Measurements, Santa Barbara, CA	V-1	
1USAEMY	Emory University, Atlanta, GA	V-1	
1USAERD	U.S. Energy Res&evelopment Adm., Washington, DC	V-1	
1USAETS	East Texas State University	V-1	
1USAFLA	University of Florida, Gainesville, FL	V-1	
1USAFSU	Florida State University, Tallahassee, FL	V-1	
1USAGA	Gulf Energy and Environmental Systems, San Diego, CA	V-1	
1USAGDT	General Dynamics, Fort Worth, TX	V-1	
1USAGEA	General Electric, Aircraft Nucl.Prop.Dept., Ohio	V-1	
1USAGEB	General Electric Breeder React.Dev.Op., Sunnyvale, CA	V-1	
1USAGEC	General Electric Company, San Jose, CA	V-1	
1USAGEF	General Electric, Space Science Lab., PA	V-1	
1USAGEN	General Electric, Nuclear Materials, PA	V-1	
1USAGEO	University of Georgia, Athens, GA	V-1	
1USAGEP	General Electric, Nucleonics Lab., Pleasanton, CA	V-1	
1USAGES	General Electric, Schenectady, NY	V-1	
1USAGEV	General Electric, Vallecitos Atomic Lab., CA	V-1	
1USAGGA	Gulf General Atomic, San Diego, CA	V-1	
1USAGIT	Georgia Institute of Technology, Atlanta, GA	V-1	
1USAGRT	Gulf Radiation Technology, San Diego, CA	V-1	
1USAGSF	Nasa Goddard Space Flight Center, Greenbelt, MD	V-1	
1USAGSU	Georgia State University, Atlanta, GA	V-1	
1USAGWU	George Washington University, Washington, DC	V-1	
1USAHAN	Hanford Atomic Products, Richland, WA	V-1	
1USAHED	Hanford Engineering Development Lab., Richland, WA	V-1	
1USAHNS	Hazelton Nuclear Science Corp., Palo Alto, CA	V-1	
1USAHOU	UNiversity of Houston, Houston, TX	V-1	
1USAHPE	Hope College, Holland, MI	V-1	
1USAHRV	Harvard University, Cambridge, MA	V-1	
1USAHSL	U.S.A.E.C. Health and Safety Lab., NY	V-1	
1USAIAP	Institute for Advanced Studies, Princeton, NJ	V-1	
1USAIBM	I B M Research Lab., San Jose, CA	V-1	
1USAIIT	Illinois Institute of Technology, Chicago, IL	V-1	
1USAINL	Idaho National Engineering Lab., Idaho Falls, ID	V-1	
1USAINU	Indiana University, Bloomington, IN	V-1	
1USAIOW	University of Iowa, Iowa City, IA	V-1	

1USAIRT	Intelcom Radiation Technology, San Diego, CA	V-1	
1USAIRV	University of California, Irvine, CA	V-1	
1USAISB	Indiana University, South Bend, IN	V-1	
1USAISU	Idaho State University, Pocatello, ID	V-1	
1USAJHU	Johns Hopkins University, Baltimore, MD	V-1	
1USAKAN	University of Kansas, Lawrence, KS	V-1	
1USAKAP	Knolls Atomic Power Laboratory, Schenectady, NY	V-1	
1USAKNT	Kent State University, Kent, OH	V-1	
1USAKSU	Kansas State University, Manhattan, KS	V-1	
1USAKTY	University of Kentucky, Lexington, KY	V-1	
1USALAN	Langley Research Center, NASA Langley Station, VA	V-1	
1USALAS	Los Alamos National Laboratory, NM	V-1	
1USALBL	Lawrence Berkeley Lab, Berkeley, CA	V-1	O
1USALMS	Lockheed Missiles and Space Div., Palo Alto, CA	V-1	
1USALOK	Lockheed Aircraft Corp., Sunnyvale, CA	V-1	
1USALOW	Lowell Technological Institute, Lowell, MA	V-1	O
1USALOY	Loyola University, Los Angeles, CA	V-1	
1USALRC	NASA-Lewis Research Center, Cleveland, OH	V-1	
1USALRL	Lawrence Livermore National Laboratory, Livermore, CA	V-1	
1USALSU	Louisiana State University, Baton Rouge, LA	V-1	
1USALTI	University of Massachusetts at Lowell, MA	V-1	
1USALVL	UNiversity of Louisville, Louisville, KY	V-1	
1USAMAG	MAGI, Elmsford, NY	V-1	
1USAMAR	Marquette University, Milwaukee, WI	V-1	
1USAMGH	Massachusetts General Hospital, Boston, MA	V-1	
1USAMGT	Michigam Technological University, Houghton, MI	V-1	
1USAMHD	University of Michigan, Dearborn, MI	V-1	
1USAMHG	University of Michigan, Ann Arbor, MI	V-1	
1USAMIN	University of Minnesota, Minneapolis, MN	V-1	
1USAMIS	University of Missouri, Columbia, MO	V-1	
1USAMIT	Massachusetts Institute of Technology, Cambridge, MA	V-1	
1USAMND	Mound Laboratory, Miamisburg, OH	V-1	
1USAMRD	Maryland University, College Park, MD	V-1	O
1USAMRY	Maryland University, College Park, MD	V-1	
1USAMSM	Mount Sinai Medical Center, Miami Beach, FL	V-1	
1USAMSS	Mississippi State University, Mississippi State, MS	V-1	
1USAMST	Mississippi State University, Mississippi State, MS	V-1	O
1USAMSU	Michigan State University, East Lansing, MI	V-1	
1USAMTR	Idaho Nuclear Corp., Idaho Falls, ID	V-1	
1USAMTS	Middle Tennessee State University, Murfreesboro, TN	V-1	
1USAMTU	Montana State University, Missoula, MT	V-1	
1USAMUR	Murray State University, Murray, KY	V-1	
1USANAL	Fermi National Laboratory, Batavia, IL	V-1	
1USANAS	NASA, Washington, DC	V-1	
1USANBS	National Bureau of Standards, Washington, DC	V-1	
1USANCA	University of North Carolina, Chapel Hill, NC	V-1	
1USANCS	North Carolina State College, Raleigh, NC	V-1	
1USANDA	Nuclear Development Associates Inc.	V-1	
1USANDL	U.S. Army Nuclear Defence Lab., Edgewood Arsenal, MD	V-1	
1USANEB	North Eastern University, Boston, MA	V-1	
1USANEL	U.S. Nuclear Effects Lab., Edgewood Arsenal, MD	V-1	
1USANGC	North Georgia College, Dahlonega, NC	V-1	
1USANIH	National Institutes of Health, Bethesda, MD	V-1	
1USANIS	National Inst.of Standard&echn., Gaithersburg, MD	V-1	
1USANIU	Northern Illinois University, Dekalb, IL	V-1	
1USANMS	New Mexico State University, Las Cruces, NM	V-1	

1USANMX	University of New Mexico, Albuquerque, NM	V-1	
1USANOL	U.S. Navy Ordinance Lab., Silver Springs, MD	V-1	
1USANOT	University of Notre Dame, Notre Dame, IN	V-1	
1USANRD	U.S. Naval Radiolog. Defense Lab., San Francisco, CA	V-1	
1USANRL	U.S. Naval Research Lab., Washington, DC	V-1	
1USANTS	North Texas State University, Denton, TX	V-1	
1USANWU	Northwestern University, Evanston, IL	V-1	
1USANYB	State University of New York, Buffalo, NY	V-1	
1USANYU	New York University, New York, NY	V-1	
1USAOAU	Oak Ridge Associated Universities, Oak Ridge, TN	V-1	
1USAOBR	Oberlin College, Oberlin, OH	V-1	
1USAOHO	Ohio University, Athens, OH	V-1	
1USAOKL	University of Oklahoma, Norman, OK	V-1	
1USAORD	Nuclear Data Project, ORNL, Oak Ridge, TN	V-1	
1USAORE	University of Oregon, Eugene, OR	V-1	
1USAORL	Oak Ridge National Laboratory, Oak Ridge, TN	V-1	
1USAORS	Radiation Shielding Inf. Center, ORNL, Oak Ridge, TN	V-1	
1USAORU	Oregon State University, Corvallis, OR	V-1	
1USAOSU	Ohio State University, Columbus, OH	V-1	
1USAPCT	Picatinny Arsenal, Dover, NJ	V-1	
1USAPEN	University of Pennsylvania, Philadelphia, PA	V-1	
1USAPPO	Phillips Petroleum Co., Bartletsville, OK	V-1	
1USAPR	Puerto Rico	V-1	
1USAPRW	Pratt + Whitney, Middletown, CT	V-1	
1USAPSU	Pennsylvania State University, University Park, PA	V-1	
1USAPTN	Princeton University, Princeton, NJ	V-1	
1USAPUP	University of Pittsburgh, Pittsburgh, PA	V-1	
1USAPUR	Purdue University, West Lafayette, IN	V-1	
1USARAN	The Rand Corporation, Santa Monica, CA	V-1	
1USARDI	Radiation Dynamics, Inc., Westbury, NY	V-1	
1USARDL	University of Redlands, Redlands, CA	V-1	
1USARED	Redstone Arsenal, AL	V-1	
1USAREN	Reno Metallurgical Research Center, Reno, NV	V-1	
1USARES	Division of Research, USAEC, Washington, DC	V-1	
1USARHI	Rhode Island University, Kingston, RI	V-1	
1USARIC	Rice University, Houston, TX	V-1	
1USARL	Richland Operations Office, Richland, WA	V-1	
1USAROC	University of Rochester, Rochester, NY	V-1	
1USARPI	Rensselaer Polytechnic Institute, Troy, NY	V-1	
1USARUT	Rutgers University, New Brunswick, NJ	V-1	
1USASAI	Science Applications Internat. Corp., San Diego, CA	V-1	
1USASC	Sandia National Laboratory, Albuquerque, NM	V-1	
1USASCA	University of South Carolina, Columbia, SC	V-1	
1USASDC	San Diego State College, San Diego, CA	V-1	
1USASIG	National Nuclear Data Center, BNL, Upton, NY	V-1	
1USASJS	San Jose State University, San Jose, CA	V-1	
1USASLU	Saint Louis University, Saint Louis, MO	V-1	
1USASMU	Southern Methodist University, Dallas, TX	V-1	
1USASNI	Southern University Nuclear Inst., Baton Rouge, LA	V-1	
1USASNP	Space Nuclear Propulsion Office, Cleveland, OH	V-1	
1USASOC	Socony Mobil Oil Co., Dallas, TX	V-1	
1USASPC	SPire Corp., Bedford, MA	V-1	
1USASRE	Space Radiation Effects Lab., Newport News, VA	V-1	
1USASRI	Stanford Research Inst., Menlo Park, CA	V-1	
1USASRL	Savannah River Lab., E.I. Dupont, Aiken, SC	V-1	
1USASTB	State University of New York, Stony Brook, NY	V-1	

1USASTF	Stanford University, Stanford, CA	V-1	
1USASTM	Saint Mary's College of Maryland, St. Mary's City, MD	V-1	
1USASUB	State University of New York, Binghamtom, NY	V-1	
1USASUI	Iowa State University, Ames, IA	V-1	
1USASWL	University of Southwestern Louisiana, Lafayette, LA	V-1	
1USASYR	Syracuse University, Syracuse, NY	V-1	
1USATAM	Texas & University, College Station, TX	V-1	
1USATEM	Temple University, Philadelphia, PA	V-1	
1USATEN	University of Tennessee, Knoxville, TN	V-1	
1USATEX	University of Texas, Austin, TX	V-1	
1USATID	Div. of Technical Info., USAEC, Oak Ridge, TN	V-1	
1USATNC	Texas Nuclear Corp., Austin, TX	V-1	
1USATNL	Triangle Universities Nuclear Lab., Durham, NC	V-1	
1USATRW	T R W, Redondo Beach, CA	V-1	
1USATTU	Tennessee Technical Univ., Cookeville, TN	V-1	
1USATUL	Tulane University, New Orleans, LA	V-1	
1USAUAL	University of Alabama, AL	V-1	
1USAUAZ	Arizona Univ., Tucson, AZ	V-1	
1USAUCB	United Nuclear Corp., Tuxedo, NY	V-1	
1USAUCN	University of Cincinnati, Cincinnati, OH	V-1	
1USAUCS	Union Carbide, Sterling Forest Res. Center, Tuxedo,NY	V-1	
1USAUI	University of Illinois, Urbana-champaign, IL	V-1	
1USAUID	University of Idaho, Moscow, ID	V-1	
1USAUMA	University of Massachusetts, Amhurst, MA	V-1	
1USAUMT	University of Montana, Helena, MT	V-1	
1USAUNB	University of Nebraska, Lincoln, NE	V-1	
1USAUNC	United Nuclear Corp., Elmsford, NY	V-1	
1USAUNH	University of New Hampshire, Durham, NH	V-1	
1USAUSA	United States of America	V-1	
1USAUSC	University of Southern California, Los Angeles, CA	V-1	
1USAUSU	Utah State University, Loagn, UT	V-1	
1USAUWY	University of Wyoming, Laramie, WY	V-1	
1USAVBT	Vanderbilt University, Nashville, TN	V-1	
1USAVIP	Virginia Polytechnic Inst.,Blacksburg, VA	V-1	
1USAVIR	University of Virginia, CharlottsvilleE, VA	V-1	
1USAWAD	Wright Air Development Center, OH	V-1	
1USAWAL	Westinghouse Astronuclear Lab., Pittsburgh, PA	V-1	
1USAWAP	Westinghouse Atomic Power Div., Pittsburgh, PA	V-1	
1USAWAS	Washington University, St.Louis, MO	V-1	
1USAWAT	Watertown Arsenal, Watertown, MA	V-1	
1USAWAU	University of Washington, Seattle, WA	V-1	
1USAWAY	Wayne State University, Detroit, MI	V-1	
1USAWES	Westinghouse Research Lab., Pittsburgh, PA	V-1	
1USAWEW	Westinghouse Advanced Reactor Div., Pittsburgh, PA	V-1	
1USAWGC	West Georgia College, Carrolton, GA	V-1	
1USAWIS	University of Wisconsin, Madison, WI	V-1	
1USAWKU	Western Kentucky University, Bowling Green, KY	V-1	
1USAWLY	Wesleyan University, Middletown, CT	V-1	
1USAWMC	College of William and Mary, Williamsburg, VA	V-1	
1USAWMU	Western Michigan University, Kalamazoo, MI	V-1	
1USAWPI	Worcester Polytechnic Institute, Worcester, MA	V-1	
1USAWRU	Western Reserve University, Cleveland, OH	V-1	
1USAWSA	White Sands Missile Range, White Sands, NM	V-1	
1USAWSU	Washington State University, Pullman, WA	V-1	
1USAWVU	University of West Virginia, Morgentown, WV	V-1	
1USAWWS	Western Washington State College, Bellingham, WA	V-1	

1USAYAL	Yale University, New Haven, CT	V-1	
2AUSATI	Atominst. der Oesterreichischen Hochschulen, Vienna	V-1	
2AUSAUS	Austria	V-1	
2AUSGFK	Gesellschaft zur Foerderung der Kernenergie, Graz	V-1	
2AUSIRK	Inst. fuer Isotopenforschung und Kernphysik, Vienna	V-1	
2AUSKUL	Johannes-Kepler-Universitaet, Linz	V-1	
2AUSPVI	Inst.fuer Experimentalphysik, Universitaet Wien	V-1	
2AUSSGA	Oest.Forschungszentrum Seibersdorf, Wien+Seibersdorf	V-1	
2AUSTHV	Inst.f.Experimentelle Kernphysik, Techn.Univ.,Vienna	V-1	
2AUSTPG	Inst.fuer Theoretische Physik der Univ. Graz, Graz	V-1	
2BLGBLG	Belgium	V-1	
2BLGBN	Belgonucleaire	V-1	
2BLGBRU	Univ.Libre de Bruxelles, Bruxelles	V-1	
2BLGGHT	Ghent, Rijks Universiteit	V-1	
2BLGLIE	Univ.of Liege, Liege	V-1	
2BLGLEU	Katholieke Univ. Leuven, Leuven	V-1	
2BLGLVN	Catholic Univ. of Louvain, Louvain-la-Neuve	V-1	
2BLGNAM	University Notre Dame de la Paix, Namur) 30	V-1	
2BLGMOL	C.E.N., Mol	V-1	
2BLGPCL	Inst.de Physique Corpusculaire, Louvain-la-Neuve	V-1	
2BLGUIA	Univ. Instelling, Anvers	V-1	
2BLGUMK	Union Miniere du Haut Katanga, Bruxelles	V-1	
2BLGVUB	Vrije Univ., Bruxelles, Cyclotron Dept.	V-1	
2DENAAU	Aarhus University, Aarhus	V-1	
2DENCOP	Univ. of Copenhagen, Copenhagen	V-1	
2DENDEN	Denmark	V-1	
2DENNBI	Niels Bohr Inst., Copenhagen	V-1	
2DENNTA	Nordita, Denmark	V-1	
2DENRIS	Riso, Roskilde	V-1	
2EIREIR	Ireland	V-1	
2EIRUCD	University College, Dublin	V-1	
2FR AAA	Groupe Atomique Alsacien Atlant., H/Seine	V-1	
2FR BOR	Bordeaux, Univ. + C.E.A.	V-1	
2FR BRC	CEN Bruyere-le-Chatel	V-1	
2FR CAD	C.E.N. Cadarache	V-1	
2FR CAE	Caen Univ.	V-1	
2FR CEL	C.E.N. Limeil	V-1	O
2FR CLE	Universite de Clermont, Clermont-Ferrand	V-1	
2FR CSN	Centre de Spectrom.Nucl.et de Spectrom.de Masse,Orsay	V-1	
2FR EDF	Electricite de France, Paris	V-1	
2FR ENS	Ecole Normale Superieure, Paris	V-1	
2FR FAR	CEA Fontenay-aux-Roses, Seine	V-1	
2FR FR	France	V-1	
2FR GAN	Grand Accelerateur National d'Ions Lourds, Caen	V-1	
2FR GRA	Centre d'Etudes Nucleaires de Bordeaux-Gradignan	V-1	
2FR GRE	Grenoble, Isere (CEA and Univ.)	V-1	
2FR ILL	Institut Laue-Langevin, Grenoble	V-1	
2FR ITL	C.E.A.,Centre d'Etudes de Valduc,Is-sur-Tille	V-1	
2FR LIM	C.E.N. Limeil	V-1	O
2FR LRM	Lab.de Recherche des Musees de France, Paris	V-1	
2FR LYO	Univ. of Lyon, Villeurbanne, Rhone	V-1	
2FR NTE	Universite de Nantes	V-1	
2FR PAR	Univ. of Paris, (incl.Orsay), Paris	V-1	
2FR PAU	Dept. de Recherches Physiques, St.Paul-les-Durance	V-1	O
2FR PCF	College de France, Paris	V-1	
2FR SAC	C.E.N. Saclay	V-1	

2FR SAT	Laboratoire National SATURNE, Gif-sur-Yvette	V-1	
2FR STR	Nucl.Res.Centre, Strasbourg	V-1	
2FR TOU	Univ.of Toulouse, Haute-Garonne	V-1	
2FR VNV	Centre d'Etudes de Limeil, Villeneuve-Saint-Georges	V-1	
2GERALK	Alkem GMBH, Leopoldshafen	V-1	
2GERBBC	Brown-Boveri/Krupp, Mannheim	V-1	
2GERBER	Hahn-Meitner-Inst., Berlin	V-1	
2GERBOC	Ruhr-Universitaet Bochum	V-1	
2GERBON	Univ. of Bonn	V-1	
2GERDOR	Dortmund Univ., F.R.Germany	V-1	
2GERDKZ	Deutsches Krebsforschungszentrum, Heidelberg	V-1	
2GERDRE	Dresden, Techn.Univ.	V-1	
2GERFRB	Freiburg im Breisgau, Universitaet	V-1	
2GERFRK	J.W.Goethe Univ., Frankfurt/Main	V-1	
2GERGAR	Max-Planck-Institut fuer Plasmaphysik, Garching	V-1	
2GERGEE	Geesthacht, GKSS	V-1	O
2GERGER	Germany	V-1	
2GERGOE	Univ. of Goettingen	V-1	
2GERGSI	Gesellschaft fuer Schwerionenforschung, Darmstadt	V-1	
2GERHAM	Hamburg, Universitaet	V-1	
2GERHEI	Heidelberg, Universitaet	V-1	
2GERIAK	Inst.fuer Angewandte Kernphysik, Karlsruhe	V-1	O
2GERIFS	Inst.fuer Strahlenphysik, Stuttgart	V-1	
2GERIKA	Informationssystem Karlsruhe,	V-1	
2GERIKE	Inst.fuer Kernenergetik,Stuttgart Univ.	V-1	O
2GERINA	Interatom, Bensberg	V-1	
2GERJLU	Justus Liebig Univ., Giessen	V-1	
2GERJUL	Kernforschungsanlage Juelich	V-1	
2GERKFK	Kernforschungszentrum, Karlsruhe	V-1	
2GERKIG	GKSS, Geesthacht	V-1	
2GERKIL	Univ. of Kiel, Kiel	V-1	
2GERKLN	Universitaet Koeln	V-1	
2GERKRU	Karlsruhe, Univ.	V-1	
2GERLMU	Ludwig-Maximilians Universitaet Muenchen	V-1	
2GERMBG	Univ. of Marburg	V-1	
2GERMNZ	Univ. of Mainz	V-1	
2GERMPH	Max-Planck-Institut fuer Kernphysik, Heidelberg	V-1	
2GERMPM	Max-Planck-Institut fuer Chemie, Mainz	V-1	
2GERMST	Univ. of Muenster	V-1	
2GERMUE	Muenchen, Techn.Univ.	V-1	O
2GERMUN	Technische Universitaet Muenchen	V-1	
2GERMUU	Univ. of Munich, Munich	V-1	
2GERPTB	Physikal. Techn. Bundesanst., Braunschweig	V-1	
2GERSBU	Univ. of Saarland, Saarbruecken	V-1	
2GERSIE	Siemens, Erlangen	V-1	
2GERTHA	Tech.Hochschule, Aachen	V-1	
2GERTHB	Tech.Hochschule, Braunschweig	V-1	
2GERTHD	Tech.Universitaet, Darmstadt	V-1	
2GERTHS	Universitaet Stuttgart	V-1	
2GERTUB	Tech.Univ., Berlin	V-1	
2GERTUE	Universitaet Tuebingen	V-1	
2GERTUH	Techn. Univ. Hannover	V-1	O
2GERUEN	Univ. of Erlangen-Nuernberg	V-1	
2GERUH	Univ. Hannover (previously Tech.Univ.Hannover)	V-1	
2GERWUU	Wuerzburg, Universitaet	V-1	
2GERZFK	Zentralinst. f. Kernforschung, Rossendorf	V-1	

2GRCATH	NRC Demokritos, Athens	V-1	
2GRCGRC	Greece	V-1	
2GRCIOA	Univ. of Ioannina, Ioannina	V-1	
2ICEICE	Iceland	V-1	
2ITYBAU	Bari, University	V-1	
2ITYBOL	ENEA Centro Ricerche Energia di Bologna	V-1	
2ITYCAG	Univ. of Cagliari	V-1	
2ITYCAS	Centro di Studi Nucleari della Casaccia, Rome	V-1	
2ITYCAT	Univ. of Catania	V-1	
2ITYCIS	C.I.S.E., Milan	V-1	
2ITYENI	ENI, San Donato, Milan	V-1	
2ITYFIR	Univ.of Florence	V-1	
2ITYFRA	Laboratori Nazionali di Frascati	V-1	
2ITYFSN	Fac.di Sci.Ambientali,Sec.Univ.Studi,Napoli(Caserta)	V-1	
2ITYGVA	U.+INFN., Genova	V-1	
2ITYITY	Italy	V-1	
2ITYLGS	Lab.Naz.del Gran Sasso, Ist.Naz.di Fis.Nucl.,Assergi	V-1	
2ITYLNS	Laboratori Nazionali del Sud-INFN, Catania	V-1	
2ITYMES	Univ.of Messina	V-1	
2ITYMIL	Univ. + INFN Milan	V-1	
2ITYMIP	Politecnico di Milano	V-1	
2ITYNAP	Dip.di Sci.Fisiche, Univ. Federico II, Napoli	V-1	
2ITYPAD	Padua, University and Lab. Naz. Legnaro	V-1	
2ITYPAV	Univ. of Pavia	V-1	
2ITYROM	Univ. of Rome	V-1	
2ITYSAL	Sorin Nuc.Res.Centre Saluggia	V-1	
2ITYSIC	Centro Sicil.di Fisica Nucl.CSFNSM, Catania	V-1	
2ITYTRI	Univ. of Trieste	V-1	
2ITYTUP	Politecnico di Torino	V-1	
2ITYTUR	Univ.of Turin	V-1	
2ITYUBO	Bologna, Univ. + Ist. Naz. di Fis. Nucl.	V-1	
2JAPAOY	Aoyama Gakuin Univ., Tokyo	V-1	O
2JAPETL	Electrotechnical Laboratory, Tsukuba	V-1	O
2JAPFE	Fuji Electric	V-1	O
2JAPFUK	Fukuoka Univ., Fukuoka	V-1	O
2JAPHIR	Hiroshima, University of Hiroshima	V-1	O
2JAPHIT	Himeji Institute of Technology, Himeji	V-1	O
2JAPHOS	Hosei University, Tokyo	V-1	O
2JAPHYO	Hyogo Agricult. Univ., Sasayama	V-1	O
2JAPINS	Institute for Nuclear Study, Univ of Tokyo.	V-1	O
2JAPIPC	Institute for Physical and Chemical Research, Wakou	V-1	O
2JAPISS	Inst. of Solid State Physics, Univ. of Tokyo	V-1	O
2JAPJAE	JAERI, Tokai	V-1	O
2JAPJAP	Japan	V-1	O
2JAPJCL	Cyclotron Lab, Inst. of Physical and Chemical Res. Wakou	V-1	O
2JAPJEL	Elect. Pow.Dev.Corp., AED, Tokyo	V-1	O
2JAPJTD	Juntendo Univ., Chiba	V-1	O
2JAPKEK	National Institute for High Energy Physics, Oho, Ibaraki	V-1	O
2JAPKON	Konan Univ., Kobe	V-1	O
2JAPKTJ	Kobe Tokiwa Junior College, Kobe	V-1	O
2JAPKTO	Kyoto Univ., Kyoto	V-1	O
2JAPKUE	Kyoto Univ. of Education, Kyoto	V-1	O
2JAPKYU	Kyushu Univ., Fukuoka	V-1	O
2JAPNAG	Nagoya Univ., Nagoya	V-1	O
2JAPNIG	Toshiba Corporation	V-1	O
2JAPNII	Niigata Univ., Niigata	V-1	O

2JAPOHT	Ohita Institute of Technology	V-1	O
2JAPOSA	Osaka Univ., Osaka	V-1	O
2JAPOSP	Radiation Centre of Osaka Prefecture, Sakai, Osaka	V-1	O
2JAPPNC	Plutonium Fuel Div., Tokai Works, Power Reactor+Nuc Fuel	V-1	O
2JAPRCN	Research Center for Nuclear Physics, Osaka Univ.	V-1	O
2JAPRIK	Rikkyo Univ., Tokyo	V-1	O
2JAPSAE	Sumitomo Atomic Energy Industries	V-1	O
2JAPSHR	Ship Research Inst., Ministry of Transport	V-1	O
2JAPSHZ	Shizuoka University, Shizuoka	V-1	O
2JAPTIT	Tokyo Inst. of Technology, Tokyo	V-1	O
2JAPTMC	Tokyo Medical College	V-1	O
2JAPTOH	Tohoku Univ., Sendai	V-1	O
2JAPTOI	Tohoku Institute of Technology, Sendai	V-1	O
2JAPTOK	Univ. of Tokyo, Tokyo	V-1	O
2JAPTSU	Univ. of Tsukuba, Tsukuba	V-1	O
2JAPYAM	Yamanashi Univ., Kofu	V-1	O
2JAPYOK	Rikkyo (St.Paul) Univ., Yokosuka and Tokyo	V-1	O
2JPNAIS	National Inst. of Advanced Industrial Sci. and Tech.	V-1	
2JPNAOY	Aoyama Gakuin Univ., Tokyo	V-1	
2JPNETL	Electrotechnical Laboratory, Tsukuba	V-1	
2JPNFE	Fuji Electric	V-1	
2JPNFUK	Fukuoka Univ., Fukuoka	V-1	
2JPNGMT	Gifu College of Medical Technologies, Gifu	V-1	
2JPNHIR	Hiroshima Univ., Hiroshima and Higashi-Hiroshima	V-1	
2JPNHIT	Himeji Institute of Technology, Himeji	V-1	
2JPNHOS	Hosei University, Tokyo	V-1	
2JPNHYO	Hyogo Agricult. Univ., Sasayama	V-1	O
2JPNINS	Institute for Nuclear Study, Univ of Tokyo.	V-1	O
2JPNIPC	Institute for Physical and Chemical Research, Wakou	V-1	
2JPNIRS	National Inst.of Radiological Sciences, Chiba	V-1	
2JPNISS	Inst. of Solid State Physics, Univ. of Tokyo	V-1	
2JPNJAE	JAERI, Tokai	V-1	
2JPNJCL	Cyclotron Lab., Inst. of Physical and Chemical Research,	V-1	O
2JPNJEL	Elect. Pow.Dev.Corp., AED, Tokyo	V-1	
2JPNJNC	Japan Nuclear Cycle Dev. Inst., Tokai-mura, Ibaraki	V-1	
2JPNJPN	Japan	V-1	
2JPNJSR	Japan Synchrotron Radiation Res. Instit. (JASRI), Hyogo	V-1	
2JPNJTD	Juntendo Univ., Chiba	V-1	
2JPNKEK	National Institute for High Energy Physics	V-1	
2JPNKIT	Univ. of Occupat.and Environmental Health, Kitakyushu	V-1	
2JPNKNK	Kinki Univ., Higashi Osaka	V-1	
2JPNKON	Konan Univ., Kobe	V-1	
2JPNKTJ	Kobe Tokiwa Junior College, Kobe	V-1	
2JPNKTO	Kyoto Univ., Kyoto	V-1	
2JPNKUE	Kyoto Univ. of Education, Kyoto	V-1	
2JPNKYO	Kyoritsu College of Pharamacy, Tokyo	V-1	
2JPNKYU	Kyushu Univ., Fukuoka	V-1	
2JPNNAG	Nagoya Univ., Nagoya	V-1	
2JPNNCT	Oita National College of Technology, Oita	V-1	
2JPNNIG	Toshiba Corporation	V-1	
2JPNNII	Niigata Univ., Niigata	V-1	
2JPNOHT	Ohita Institute of Technology	V-1	O
2JPNOSA	Osaka Univ., Osaka	V-1	
2JPNOSP	Radiation Centre of Osaka Prefecture, Sakai, Osaka	V-1	
2JPNPNC	Plutonium Fuel Div., Tokai Works, Power Reactor+Nuc Fuel	V-1	
2JPNRCN	Research Center for Nuclear Physics, Osaka Univ.	V-1	

2JPNRIK	Rikkyo Univ.., Tokyo	V-1	O
2JPNSAE	Sumitomo Atomic Energy Industries	V-1	
2JPNSHR	Ship Research Inst., Ministry of Transport	V-1	
2JPNSHZ	Shizuoka University, Shizuoka	V-1	
2JPNSTA	Science and Technology Agency, Chiyoda-ku, Tokyo	V-1	
2JPNSUT	Tokyo Univ. of Science, Noda, Chiba	V-1	
2JPNSUU	Saitama Univ., Urawa, Saitama	V-1	
2JPNTIT	Tokyo Inst. of Technology, Tokyo	V-1	
2JPNTKS	Tokushima Univ., Tokushima	V-1	
2JPNTMC	Tokyo Medcal College	V-1	
2JPNTMU	Tokyo Metropolitan Univ., Hachioji, Tokyo	V-1	
2JPNTOH	Tohoku Univ., Sendai	V-1	
2JPNTOI	Tohoku Institute of Technology, Sendai	V-1	
2JPNTOK	Univ. of Tokyo, Tokyo	V-1	
2JPNTSU	Univ. of Tsukuba, Tsukuba	V-1	
2JPNWDA	Waseda Univ., Tokyo	V-1	
2JPNYAM	Yamanashi Univ., Kofu	V-1	
2JPNYOK	Rikkyo (St.Paul) Univ., Yokosuka and Tokyo	V-1	O
2LUXLUX	Luxembourg	V-1	
2MCOMCO	Monaco	V-1	
2NEDAMS	Univ. of Amsterdam, Amsterdam	V-1	
2NEDDEL	Technical Univ., Delft	V-1	
2NEDENT	Eindhoven Univ. of Technology	V-1	
2NEDFUL	Vrije Universiteit te Amsterdam, De Boelelaan	V-1	
2NEDGRN	Groningen	V-1	
2NEDIKO	Nat’l Inst. for Nucl. and High Energy Physics, Sect.K	V-1	
2NEDLEI	Univ. of Leiden	V-1	
2NEDNED	Netherlands	V-1	
2NEDRCN	Netherland’s Energy Research Foundation, Petten	V-1	
2NEDUTR	Univ. of Utrecht	V-1	
2NEDVDN	Central Bureau der V.D.E.N., Arnhem	V-1	
2NORBGN	Univ. of Bergen	V-1	
2NORHAL	Halden, Inst.for Energiteknikk	V-1	
2NORJEN	Inst.for Atomenergi, Kjeller	V-1	O
2NORKJL	Inst.for Atomenergi, Kjeller	V-1	
2NORNOR	Norway	V-1	
2NOROSL	Univ. of Oslo, Oslo	V-1	
2PRTFNL	Centro de Fisica Nuclear, Lisboa	V-1	
2PRTJES	Junta de Energia Nuclear, Sacavem	V-1	
2PRTLFE	Labor. de Fisica e Engeneria Nucleares, Sacavem	V-1	
2PRTLIS	Universidade de Lisboa, Lisboa	V-1	
2PRTNOV	Universidade Nova de Lisboa, Lisboa	V-1	
2PRTPRT	Portugal	V-1	
2SF ABA	Abo Akademi, Turku	V-1	
2SF HLS	Univ. of Helsinki, Helsinki	V-1	
2SF HLT	Helsinki Tech.Univ., Otaniemi	V-1	
2SF JYV	Jyvaeskylae, University	V-1	
2SF OUL	University of Oulu, Oulu	V-1	
2SF SF	Finland	V-1	
2SF TKU	Turku University	V-1	
2SPNJNE	Junta Energia Nuclear, Madrid	V-1	
2SPNSAU	Univ.de Santiago de Compostela	V-1	
2SPNSEU	Sevilla University	V-1	
2SPNSPN	Spain	V-1	
2SPNVAL	Valencia, University	V-1	
2SPNVLD	U.de Valladolid	V-1	

2SWDAE	Studsvik Energiteknik AB	V-1	
2SWDCTH	Chalmers Univ. of Tech., Gothenburg	V-1	
2SWDFOA	Research Inst. for National Defence, Stockholm	V-1	
2SWDIPS	Res.Inst.of Physics (form.Nobel Inst.), Stockholm	V-1	
2SWDKTH	Royal Inst.of Tech., Stockholm	V-1	
2SWDLND	Lund Univ.+ Tech.Univ.	V-1	
2SWDRIP	Res.Inst.of Phys., Stockholm	V-1	O
2SWDSTK	Stockholm	V-1	O
2SWDSWD	Sweden	V-1	
2SWDSWR	Studsvik Science Research Laboratory	V-1	
2SWDTLU	Tandem Laboratory, Uppsala	V-1	
2SWDUPP	Univ. of Uppsala	V-1	
2SWDUST	Stockholm University	V-1	
2SWTBAS	Basel Univ.	V-1	
2SWTETH	Eidgenossische Technische Hochschule, Zuerich	V-1	
2SWTFRS	Univ. of Fribourg	V-1	
2SWTGVE	Univ. of Geneva	V-1	
2SWTLAU	Univ. of Lausanne	V-1	
2SWTNEU	Univ. of Neuchatel	V-1	
2SWTPSI	Paul Scherrer Inst., Villigen	V-1	
2SWTSWT	Switzerland	V-1	
2SWTUBE	Bern, Univ.	V-1	
2SWTVIL	Swiss.Inst.for Nucl.Phys.Res., Villigen	V-1	
2SWTWUR	Eidgenossisches Inst.fuer Reakt.Forsch., Wuerenlingen	V-1	
2SWTZUR	Zurich	V-1	
2TUKANK	Ankara Univ. + Middle East Technical Univ., Ankara	V-1	
2TUKANR	Ankara Nucl. Res. and Training Centre	V-1	
2TUKCNA	Cekmece Nucl. Res. Centre, Istanbul	V-1	
2TUKSTU	Istanbul University	V-1	
2TUKTUK	Turkey	V-1	
2TUKYTU	Yildiz Technical University, Istanbul	V-1	
2UK ALD	Awre, Aldermaston, England	V-1	
2UK BCT	Battersea College of Technology, London	V-1	
2UK BIA	Univ.of Aston, Birmingham	V-1	
2UK BIR	Univ. of Birmingham, England	V-1	
2UK BLF	Univ. of Belfast, N.Ireland	V-1	
2UK BRD	Univ. of Bradford, England	V-1	
2UK BRI	Univ. of Bristol, England	V-1	
2UK CAV	Cavendish Lab., Cambridge, Engl.	V-1	
2UK CCH	UKAEA Reactor Materials Lab., Warrington	V-1	
2UK CEG	Central Electricity Generating Board, Berkeley Labs	V-1	
2UK CRN	Royal Military Coll.of Sci.,Cranfield Univ.,Swindon	V-1	
2UK CUL	UKAEA Fusion, Culham Science Centre, Abingdon	V-1	
2UK DOU	Dounreay Experimental Reactor Establishment, Thurso	V-1	
2UK DUR	Univ. of Durham, England	V-1	
2UK EDG	Univ. of Edinburgh, Scotland	V-1	
2UK EE	Engl.Elec.Co., Wheatstone, Leics	V-1	
2UK GLS	Univ. of Glasgow, Glasgow, Scotland	V-1	
2UK HAR	AERE, Harwell, Berks, England	V-1	
2UK HHL	M.R.C.Cyclotron Unit, Hammersmith Hospital, London	V-1	
2UK IST	Imp.Coll.of Sci.+Techn., London	V-1	
2UK KCL	King's College London, London	V-1	
2UK KEN	Univ. of Kent, Canterbury, England	V-1	
2UK LEE	Univ. of Leeds, Leeds, England	V-1	
2UK LON	Univ. of London, London, England	V-1	
2UK LVP	Univ. of Liverpool, England	V-1	

2UK MAN	Univ. of Manchester, England	V-1	
2UK MVE	Metropolitan-Vickers Electrical H.V. Lab.	V-1	
2UK NEW	Univ. of Newcastle-on-Tyne	V-1	
2UK NIN	Rutherford Lab., Chilton, Berks	V-1	
2UK NPL	National Phys.Lab., Teddington	V-1	
2UK NRP	National Radiological Protection Board, Harwell	V-1	
2UK OXF	Univ. of Oxford, Oxford	V-1	
2UK QML	Queen Mary College, London	V-1	
2UK REA	Univ. of Reading	V-1	
2UK RLY	UKAEA, Risley	V-1	
2UK RR	Rolls-Royce	V-1	
2UK SBL	Dept.of Physics, Polytechnic of South Bank, London	V-1	
2UK SHE	Univ. of Sheffield	V-1	
2UK SRC	Scottish Reactor Centre, E.Kilbride, Scotland	V-1	
2UK SSX	Univ. of Sussex, Brighton	V-1	
2UK SUR	Univ. of Surrey, Guilford	V-1	
2UK UK	United Kingdom	V-1	
2UK UKW	Windscale Reactor Development Labs., UKAEA	V-1	
2UK WIN	AEE, Winfrith, Dorset, England	V-1	
2ZZZBIP	Bureau Intern.des Poids et Mesures, Sevres	V-1	
2ZZZCER	CERN, Geneva	V-1	
2ZZZDGE	CEC Dosimetry Group, Geel	V-1	
2ZZZGEL	Inst. for Ref. Mat. and Meas. (IRNM), Geel	V-1	
2ZZZHOE	OECD Halden React.Proj.	V-1	
2ZZZISP	E.C. Joint Research Center (JRC), Ispra, Italy	V-1	
2ZZZITU	CEC Institute for Transuranium Elements, Karlsruhe	V-1	
2ZZZNDC	NEA Data Bank, Paris	V-1	
2ZZZNEA	OECD Nuclear Energy Agency (NEA)	V-1	
3AFGAFG	Afghanistan	V-1	
3ALGALG	Algeria	V-1	
3ALGCDT	Centre de Devel. des Techn.Nucl., H.C.R., Alger	V-1	
3ALGUAG	Universite d'Alger	V-1	
3ANGANG	Angola	V-1	
3ARGARG	Argentina	V-1	
3ARGCAB	Inst.Balseiro y Centro Atomico Bariloche, Bariloche	V-1	
3ARGCDO	Centro de Documentacion Cientifica, Buenos Aires	V-1	
3ARGCIN	Centro Nacional de Investigacion, Buenos Aires	V-1	
3ARGCNE	Comision Nacional de Energia Atomica, Buenos Aires	V-1	
3ARGCRB	Centr.Nacional de Rad. Cosmica, Buenos Aires	V-1	
3ARGIIA	Inst.de Investig.Aeronaut.y Espacial, Buenos Aires	V-1	
3ARGUBA	Universidad de Buenos Aires	V-1	
3ARGUPA	Universidad de La Plata, Buenos Aires	V-1	
3AULAIN	A.I.N.S.E., Lucas Heights, NSW	V-1	
3AULAML	Univ. of Melbourne, Parkville, Victoria	V-1	
3AULASY	Univ. of Sydney, Sydney	V-1	
3AULAUA	Australian Nucl.Sci.and Techn.Org., Lucas Heights,NSW	V-1	
3AULAUF	Flinders Univ., Bedford Park, Adelaide	V-1	
3AULAUL	Australia	V-1	
3AULCBR	Australian Natl.Univ., Canberra	V-1	
3AULMOU	Monash University	V-1	
3AULNSW	Univ.of New South Wales	V-1	
3AULQUC	Univ.Coll., Townsville, Queensl.	V-1	
3AULQUE	Univ.of Queensland	V-1	
3AULTAS	Univ.of Tasmania	V-1	
3AULUNE	Univ.of New England	V-1	
3AULUWA	Univ. of Western Australia, Nedlands	V-1	

3AULWAI	Western Australian Inst. of Tech., West Bentley	V-1	
3AULWUC	Wollongong University College, Wollongong	V-1	
3BANBAN	Bangladesh	V-1	
3BANDAC	Dhaka, University	V-1	
3BANDAE	Dhaka, Atomic Energy Centre	V-1	O
3BANRAJ	Univ.of Rajshahi	V-1	
3BANRAM	Dhaka, Atomic Energy Centre, Ramna	V-1	
3BANSAV	Inst.Nucl.Sci.and Tech., AERE, Savar	V-1	
3BLVBLV	Bolivia	V-1	
3BLVIBC	Inst.Boliviano de Ciencia y Tecnologia Nucl., La Paz	V-1	
3BLVLFC	Laboratorio de Fisica Cosmica, Chacaltaya	V-1	
3BULBLA	Sofia, Inst. of Nuclear Res. and Nuclear Energy	V-1	
3BULBUL	Bulgaria	V-1	
3BULSOF	Univ.of Sofia	V-1	
3BURBUR	Myanmar (fromerly Burma)	V-1	
3BURRAS	Rangoon Arts and Science Univ., Rangoon	V-1	
3BZLABC	Academia Brasileira de Ciencias, Rio de Janeiro	V-1	
3BZLBSP	IEA and University, Sao Paulo	V-1	O
3BZLBZL	Brazil	V-1	
3BZLCAF	Centro Latin.Americ.de Fisica, Rio de Janeiro	V-1	
3BZLCTA	Inst. de Estudos Avancados, Sao Jose dos Campos	V-1	
3BZLIDF	Inst.de Fisica,Univ.do Rio Grande do Sul,Porto Alegre	V-1	
3BZLIEA	Instituto de Energia Atomica, Sao Paulo	V-1	O
3BZLIEN	Instit. de Engenharia Nuclear, Rio de Janeiro	V-1	
3BZLIPE	Inst.de Pesquisas Energeticas e Nucleares, Sao Paulo	V-1	
3BZLIPR	Instit. de Pesquisas Radioativas, Belo Horizonte	V-1	
3BZLITA	Instit. Technic. de Aeronautica, Sao Paulo	V-1	
3BZLLDD	Lab.de Dosimetria, Rio de Janeiro	V-1	
3BZLPUJ	Pontif. Universidad Catolica, Rio de Janeiro	V-1	
3BZLRIO	Centro Brazil.de Pesquisas Fisicas, Rio de Janeiro	V-1	
3BZLUEC	Univ.Estadual de Campinas, Inst.de Fisica, Campinas	V-1	
3BZLUFF	Univ. Federal Fluminense, Niteroi	V-1	
3BZLUFP	Univ. Federal de Pernambuco, Recife	V-1	
3BZLUFR	Univ. Federal do Rio de Janeiro	V-1	
3BZLUSP	Univ.de Sao Paulo, Sao Paulo	V-1	
3CGOCGO	Zaire	V-1	O
3CHFCHF	China, Taiwan	V-1	
3CHFNTU	Nat.Taiwan Univ., Taipei	V-1	
3CHFSHI	Instit. of Nuclear Energy Research, Lung Tan	V-1	
3CHFTHU	National Tsing Hua Univ., Hsin-Chu	V-1	
3CHLCEC	Comision de Energia Nuclear, Santiago	V-1	
3CHLCHL	Chile	V-1	
3CHLSAN	Universidad de Chile, Santiago	V-1	
3CHLUCC	Univ.de Chile, Fac.de Ciencias, Santiago	V-1	O
3CHPAEP	Inst.of Atomic Energy, Beijing	V-1	O
3CHPBJG	Beijing Univ., Beijing	V-1	O
3CHPBNU	Beijing Normal Univ., Beijing	V-1	O
3CHPCHP	China Nucl.Inf.Centre, Beijing	V-1	O
3CHPFUD	Fudan Univ., Shanghai	V-1	O
3CHPIHP	Inst.of High-Energy Physics, Acad.Sinica, Beijing	V-1	O
3CHPIMP	Inst.of Modern Physics, Acad.Sinica, Lanzhou	V-1	O
3CHPLNZ	Lanzhou Univ., Lanzhou	V-1	O
3CHPZHN	Zheng-Zhou Univ.	V-1	O
3CLMCLM	Columbia, Rep.	V-1	
3CLMIAN	Inst.de Asuntos Nucl., Bogota	V-1	
3CMRCMR	Cameroon	V-1	

3COSCOS	Costa Rica	V-1	
3CPRAEP	Inst.of Atomic Energy, Beijing	V-1	
3CPRBJG	Beijing Univ., Beijing	V-1	
3CPRBNT	Beijing National Tandem Accelerator Lab., Beijing	V-1	
3CPRBNU	Beijing Normal Univ., Beijing	V-1	
3CPRCNI	China Nucl.Inf.Centre, Beijing	V-1	
3CPRCPR	China, People's Rep.	V-1	
3CPRFUD	Fudan Univ., Shanghai	V-1	
3CPRHST	Chinese Univ. of Sci. and Tech., Hefei	V-1	
3CPRIHP	Inst.of High-Energy Physics, Acad. Sinica, Beijing	V-1	
3CPRIMP	Inst.of Modern Physics, Acad. Sinica, Lanzhou	V-1	
3CPRINT	Northwest Inst.of Nuclear Technology, Xian	V-1	O
3CPRIPM	Inst.of Applied Phys.and Computational Math., Beijing	V-1	
3CPRJIL	Jilin Univ., Changchin	V-1	
3CPRLNZ	Lanzhou Univ., Lanzhou	V-1	
3CPRNAN	Nanjing Univ., Nanjing	V-1	
3CPRNIX	Northwest Inst.of Nucl.Technology, Xian	V-1	
3CPRNPC	Southwest Inst.Nucl.Phys.and Chem.,Mianyang,Sichuan	V-1	
3CPRNRS	Inst.of Nucl.Research, Acad.Sinica, Shanghai	V-1	
3CPRSHN	Shaanxi Normal Univ., Xian	V-1	
3CPRSIU	Sichuan Univ., Chengdu	V-1	
3CPRSST	Shanghai Univ. of Science and Technology	V-1	
3CPRTSI	Tsinghua Univ., Beijing	V-1	
3CPRUPD	Univ. of Petroleum, Dongying, Shandong	V-1	
3CPRZHN	Zheng-Zhou Univ.	V-1	
3CROCRO	Croatia	V-1	
3CRORBZ	Inst.Rudjer Boskovic, Zagreb	V-1	
3CROZAG	Univ. of Zagreb, Zagreb	V-1	
3CSRCHE	Inst.of High En.Phys., Prague	V-1	O
3CSRCHU	Charles Univ.,Facult.of Mathem.and Physics, Prague	V-1	O
3CSRCSR	Czechoslovakia	V-1	
3CSRCTI	Czech.Technical Univ., Prague	V-1	O
3CSRCZA	Czech.Acad.of Sciences, Prague	V-1	O
3CSRPFU	Pf Univ., Nuclear Physics Dept., Bratislava	V-1	O
3CSRSLO	Slovak Academy of Sciences, Physics Inst., Bratislava	V-1	O
3CSRUB	Komenskeho (Comenius) Univ., Bratislava	V-1	O
3CSRUJF	Inst.of Nucl.Phys.of Czech.Acad.Sci., Rez u Prahy	V-1	O
3CSRUJV	Inst.of Nucl.Res., Rez u Prahy	V-1	O
3CUBCUB	Cuba	V-1	
3CUBHAB	Inst. for Nuclear Sci. and Technol., Ciudad Habana	V-1	
3CZRCHE	Inst. of High Energy Physics, Prague	V-1	
3CZRCHU	Charles Univ., Faculty of Math. and Physics, Prague	V-1	
3CZRCTI	Czech Technical Univ., Prague	V-1	
3CZRCZA	Czech Acad.of Sciences, Prague	V-1	
3CZRCZR	Czech Republic	V-1	
3CZRUJF	Inst. of Nucl. Phys. of Czech Acad. Sci., Rez u Prahy	V-1	
3CZRUJV	Inst. of Nuclear Research, Rez u Prahy	V-1	
3DDRBEH	Humboldt Univ. Berlin + DAW Zeuthen	V-1	
3DDRBEP	VEB Atomkraft, Berlin-Pankow	V-1	
3DDRBFR	Bergakademie Freiberg	V-1	
3DDRDDR	German Democratic Republic	V-1	
3DDRJNA	Jena, Univ.	V-1	
3DDRROS	Zentralinst.f.Kernforschung, Rossendorf	V-1	
3DDRTUD	Dresden, Techn.Univ. at Dresden and Pirna	V-1	
3DDRZFI	Zentralinst. Isotopen- und Strahlenforschung, Leipzig	V-1	
3ECUECU	Ecuador	V-1	

3ECUUEF	Univ.Central de Ecuador, Dept.de Fisica, Quito	V-1	
3EGYCAI	AEA Cairo	V-1	
3EGYEGY	Egypt	V-1	
3ETPETP	Ethiopia	V-1	
3GHAGHA	Ghana	V-1	
3GUAGUA	Guatemala	V-1	
3HE	Helium-3	V-13	
3HE	Helium 3	W	
3HKGHKG	Hongkong	V-1	
3HKGHKU	Chinese Univ.of Hongkong	V-1	
3HUNDEB	Inst.of Nuclear Research, ATOMKI, Debrecen	V-1	
3HUNELU	Eotvos Lorand Univ., Budapest	V-1	
3HUNHUN	Hungary	V-1	
3HUNII	Mta Izotop Intezete, Budapest	V-1	
3HUNKFI	Central Research Inst. for Physics, KFKI, Budapest	V-1	
3HUNKOS	Inst. for Experimental Physics, Kossuth U., Debrecen	V-1	
3HUNNBM	National Bureau of Measurements, Budapest	V-1	
3INDALU	Allahabad Univ., Allahabad	V-1	
3INDAUW	Andhra Univ., Nuclear Research Lab., Waltair	V-1	
3INDBDA	M.S. University of Baroda, Baroda	V-1	
3INDBHU	Banaras Hindu Univ., Varanasi	V-1	
3INDBOM	Bombay	V-1	O
3INDBOS	Bose Institute, Kolkata	V-1	
3INDCAU	Kolkata, University	V-1	
3INDCLC	Calcutta	V-1	O
3INDDLH	Delhi Univ., Delhi	V-1	
3INDFRI	Central Fuel Research Inst., FRI, Bihar	V-1	
3INDGUL	Gulmarg Res.Observat., Kashmir	V-1	
3INDIAC	Ind.Ass.Cult.of Sc., Kolkata	V-1	
3INDIIB	Ind.Inst.of Technology, bombay	V-1	
3INDIID	Ind.Inst.of Technology, Delhi	V-1	
3INDIIK	Ind.Inst.of Technol., Kharagpur	V-1	
3INDIND	India	V-1	
3INDIPB	Inst.of Physics, Bhubaneswar	V-1	
3INDISI	Ind.Statistical Inst., Kolkata	V-1	
3INDITB	Ind.Inst.of Technol., Banglore	V-1	
3INDITK	Ind.Inst.of Technol., Kanpur	V-1	
3INDJCB	Janta College, Bakewar	V-1	
3INDJNU	Jawaharlal Nehru Univ., New Delhi	V-1	
3INDKAL	Indira Gandhi Centre for Atomic Research, Kalpakkam	V-1	
3INDKUD	Karnatak University, Dharwar	V-1	
3INDKUK	Kurukshetra Univ., Kurukshetra	V-1	
3INDLUL	Lucknow Univ., Lucknow	V-1	
3INDMAD	Ind.Inst.of Technology, Madras	V-1	
3INDMGA	Mahatma Ghandi Science Inst.of Technology, Ahmedabad	V-1	
3INDMUA	Muslim Univ., Aligarh	V-1	
3INDNSD	Nuclear Science Centre, New Delhi	V-1	
3INDOSM	Osmania University, Hyderabad	V-1	
3INDPAT	Punjabi Univ., Patiala	V-1	
3INDPOO	Poona, University	V-1	
3INDPRA	Phys.Res.Laboratory, Ahmedabad	V-1	
3INDPUC	Punjab Univ., Chandigarh	V-1	
3INDSAH	Saha Institute, Kolkata	V-1	
3INDSUK	Shivaji Univ., Kolhapur	V-1	
3INDTAT	Tata Institute, Bombay	V-1	
3INDTHO	Thoubal College, Thouba	V-1	

3INDTRM	Bhabha Atomic Res. Centre, Trombay	V-1	
3INDURJ	Univ.of Rajestan, Jaipur	V-1	
3INDURR	Univ.of Roorkee, Roorkee	V-1	
3INDVEC	Variable Energy Cyclotron Centre, Kolkata	V-1	
3INDVUU	Vikram Univ., Ujjain	V-1	
3INSBNG	Bandung Reactor Center, Bandung	V-1	
3INSINS	Indonesia	V-1	
3IRNAMU	Arya-Mehr Univ.of Technology (A.M.U.T.), Tehran	V-1	
3IRNIRN	Iran	V-1	
3IRNPAH	Pahlavi Univ., Daneshgah, Shiraz	V-1	
3IRNTEH	Tehran University Nuclear Centre, Tehran	V-1	
3IRQBAG	Univ. Baghdad	V-1	
3IRQIRQ	Iraq	V-1	
3IRQNRI	Nucl.Research Center, Baghdad	V-1	
3ISLHEB	Hebrew Univ., Jerusalem	V-1	
3ISLHFA	Technion Haifa	V-1	
3ISLISL	Israel	V-1	
3ISLNEG	Ben Gurion Univ. of the Negev, Beer-Sheva	V-1	
3ISLREH	Rehovoth Lab., Israel AEC.	V-1	
3ISLSOR	Soreq Research Centre, Yavne	V-1	
3ISLTEL	Tel Aviv University	V-1	
3ISLWZI	Weizmann Inst., Rehovoth	V-1	
3IVCIVC	Ivory Coast	V-1	
3JAMJAM	Jamaica	V-1	
3JAMUWI	West-Indies Univ., Kingston	V-1	
3JORJOR	Jordan	V-1	
3KDRKDR	Democratic People’s Rep. of Korea	V-1	
3KORDAU	Donga University, Pusan	V-1	
3KORKAE	Korean Atomic Energy Res. Inst., Yusong, Taejon	V-1	
3KORKBU	National Kyong-Buk Univ., Taegu	V-1	O
3KORKNU	Kyungpook National University	V-1	
3KORKOR	Republic of Korea	V-1	
3KORKSR	Korea Standards Res.Inst.,Taedok Science Town, Taejon	V-1	
3KORKUS	Korea Univ., Seoul	V-1	
3KORNSU	Natl.Seoul Univ., Seoul	V-1	
3KORPNU	Pusan National University, Pusan	V-1	
3KORPUE	Pohang Univ. of Science and Technology, Pohang	V-1	
3KORSEO	Advanced Energy Res.Inst., Seoul	V-1	
3KORULS	Univ. of Ulsan, Ulsan	V-1	
3KORYON	Yonsei Univ., Seoul	V-1	
3KUWKUW	Kuwait	V-1	
3KYAKYA	Kenya	V-1	
3KYANAI	University College, Nairobi	V-1	
3LE LE	Lebanon	V-1	
3LIBLIB	Libya	V-1	
3LIBTAJ	Tajura Nuclear Res. Center, Tripoli	V-1	
3LIBUGB	University of Garyounis, Benghazi	V-1	
3MA MA	Madagascar	V-1	
3MAKMAK	Macedonia	V-1	
3MALMAL	Malaysia	V-1	
3MALUKM	Univ. Kebangsaan Malaysia, Bangi	V-1	
3MALUSM	Univ.Sains Malaysia, Penang	V-1	
3MEXCNM	Centro Nucl. de Mexico, Salazar	V-1	
3MEXINI	Inst.Nacional de Invest.Nucleares (ININ), Ocoyoacac	V-1	
3MEXIFM	Univ.de Mexico, Inst.de Fisica, Mexico City	V-1	
3MEXIPN	Inst.Politec.Nac.,Mexico City	V-1	

3MEXITM	Inst.Tecnol.de Monterrey	V-1	
3MEXMEX	Mexico	V-1	
3MEXUGM	Univ.de Guanajuato	V-1	
3MEXUMX	Univ.Nacl.Autonoma de Mexico	V-1	
3MGLMGL	Mongolia	V-1	
3MLIMLI	Mali	V-1	
3MORMOH	Univ. Mohammed V, Rabat	V-1	
3MORMOR	Morocco	V-1	
3MORRAB	Lab.de Phys. Nucleaire, Faculte des Sciences, Rabat	V-1	
3NERNER	Niger	V-1	
3NI NI	Nigeria	V-1	
3NZLNZA	Univ. of Auckland, Auckland	V-1	
3NZLNZH	Inst.of Nuclear Sciences, Lower Hutt	V-1	
3NZLNZL	New Zealand	V-1	
3NZLNZW	Victoria University of Wellington, Wellington	V-1	
3PAKGCL	Nuc.Res.Lab.,Gov't College, Lahore	V-1	
3PAKLAH	Atomic Energy Centre, Lahore	V-1	
3PAKNIL	PINSTECH, Nilore, Rawalpindi	V-1	
3PAKPAK	Pakistan	V-1	
3PERISE	Instituto Superior de Energia Nuclear, Lima	V-1	
3PERPER	Peru	V-1	
3PHIPHI	Philippines	V-1	
3POLIBJ	Inst. Badan Jadr., Swierk and Warszawa	V-1	
3POLIFJ	Inst.Fiz.Jadr., Krakow	V-1	
3POLINR	Inst.Badan Jadr., Swierk+Warszawa	V-1	O
3POLIPJ	Soltan Inst.Probl.Jadr., Swierk+Warszawa	V-1	
3POLITJ	Inst. Fiz. Tech. Jadr., Krakow	V-1	
3POLJAD	Swierk+Warszawa, Inst.Badan Jadr.	V-1	O
3POLKPI	Wyzsza Szkola Pedagogiczna, Kielce	V-1	
3POLKPS	Wyzsza Szkola Pedagogiczna, Katowice	V-1	
3POLKRK	Inst.Fiz.Jadr. + Univ., Krakow	V-1	O
3POLLOU	Univ. of Lodz, Lodz	V-1	
3POLPOL	Poland	V-1	
3POLPWA	Politechnika Warszawska	V-1	
3POLSKU	Curie-Sklodowska University, Lublin	V-1	
3POLUJK	Krakow, Jagellonian Univ	V-1	
3POLWRO	Univ.of Wroclaw, Wroclaw	V-1	
3POLWWA	Warszawa, University	V-1	
3PRGPRG	Paraguay	V-1	
3QATQAT	Qatar	V-1	
3RUMBBU	Babes-Bolyai University, Cluj	V-1	
3RUMBUC	Inst. de Fizica si Inginerie Nucleara, Bucharest	V-1	
3RUMBUU	Univ.of Bucharest	V-1	
3RUMCIP	Central Inst.of Physics, Bucharest	V-1	
3RUMJAS	Research Centre of Phys., Jassy	V-1	
3RUMPIC	Pedagogical Inst., Constantza	V-1	
3RUMPIT	Inst. of Nuclear Power Reactors (I.R.N.E.)	V-1	
3RUMRUM	Romania	V-1	
3SAFDWU	Univ.of Durban-Westville, Durban	V-1	
3SAFITH	iThemba LABS, Somerset West	V-1	
3SAFNAC	Nat.Accelerator Centre, Faure	V-1	
3SAFNLP	National Physical Research Lab., Pretoria	V-1	
3SAFPEL	Atomic Energy Corp.of South Africa, Pelindaba	V-1	
3SAFPOT	Univ. of Potchefstrom, Potchefstrom	V-1	
3SAFSAF	South Africa, Rep.	V-1	
3SAFSCT	Univ. of Capetown, Cape Town	V-1	

3SAFSIR	Council for Scientific and Industrial Res., Pretoria	V-1	
3SAFSTL	Univ. of Stellenbosch	V-1	
3SAFSUN	Nuclear Inst., Southern Univ., Faure, Cape Prov.	V-1	
3SAFUPR	Univ.of Pretoria, Hatfield, Pretoria	V-1	
3SAFUSF	Univ. of South Africa, Pretoria	V-1	
3SAFWIT	Univ.of Witwatersrand, Johannesburg	V-1	
3SARDHA	Univ.of Petroleum and Minerals, Dhahran	V-1	
3SARRIY	Univ.of Riyadh, Saudi Arabia	V-1	
3SARSAR	Saudi Arabia	V-1	
3SHQNPT	Inst.of Nucl.Physics, Tirana	V-1	
3SHQSHQ	Albania	V-1	
3SILSIL	Sierra Leone	V-1	
3SINSIN	Singapore	V-1	
3SLKSLK	Slovakia	V-1	
3SLKSLO	Slovak Academy of Sciences, Physics Inst., Bratislava	V-1	
3SLKUB	Komenskeho (Comenius) Univ., Bratislava	V-1	
3SLNIJS	Inst. Jozef Stefan, Ljubljana	V-1	
3SLNSLN	Slovenia	V-1	
3SN SN	Senegal	V-1	
3SR SR	Sri Lanka	V-1	
3SUDKHA	Univ.of Khartoum	V-1	
3SUDSUD	Sudan	V-1	
3SY SY	Syria	V-1	
3TAIBGK	Office of the Atomic Energy for Peace, Bangkok	V-1	
3TAICHM	Chiang Mai Univ.	V-1	
3TAITAI	Thailand	V-1	
3TUNTUN	Tunisia	V-1	
3UAEUAE	United Arab Emirates	V-1	
3UGDUGD	Uganda	V-1	
3URUURM	Montevideo, Universidad de la Republica	V-1	
3URUURU	Uruguay	V-1	
3VENIVI	Inst.Venezual. de Investigacion Cientifica, Caracas	V-1	
3VENUCV	Univ. Central de Venezuela, Caracas	V-1	
3VENVEN	Venezuela	V-1	
3VN DAL	Nuclear Research Inst., Dalat	V-1	
3VN IPH	Inst.of Physics, Acad.of Science, Hanoi	V-1	
3VN NNR	Nat.Inst.f.Nucl.Res., Vietnam	V-1	
3VN VN	Vietnam	V-1	
3YUGBKB	Inst. Boris Kidrich, Vinca	V-1	
3YUGNJS	Inst. Jozef Stefan, Ljubljana	V-1	O
3YUGRBZ	Inst.Rudjer Boskovic, Zagreb	V-1	O
3YUGYUG	Yugoslavia	V-1	
3YUGZAG	Univ. of Zagreb, Zagreb	V-1	O
3ZAIZAI	Zaire	V-1	
3ZAMZAM	Zambia	V-1	
3ZIMZIM	Zimbabwe	V-1	
3ZZZIAE	IAEA, Vienna	V-1	
3ZZZMO	Int.Lab.of Marine Radioactivity	V-1	
3ZZZNDS	Nuclear Data Section, IAEA, Vienna	V-1	O
3ZZZTPT	Intern.Centre for Theoretical Physics, Trieste	V-1	
3ZZZUN	U.N. Organizations	V-1	
4ARMARM	Armenia	V-1	
4ARMJER	Inst. Fiziki Armen. A.N., Jerevan	V-1	
4ARMJSU	Jerevan State Univ., Jerevan	V-1	
4AZRAZR	Azerbaydzhan	V-1	
4BLRBLR	Belarus	V-1	

4BLRIFB	Inst.Fiz. Belorus. AN, Minsk	V-1	
4BLRIJE	Inst. Yad. Energetiki Byeloruss.A.N., Minsk	V-1	
4BLRPCB	Inst. Rad.Phys.Chem.Probl., Belarus Acad.Sci., Minsk	V-1	
4BLRTMO	Inst. Teplo-Massoobmena Byeloruss. A.N., Minsk	V-1	
4CCPARM	Inst. Fiziki A.N. Armenian SSR, Jerevan	V-1	O
4CCPBIO	Biophysical Inst., Moscow	V-1	O
4CCPCCP	Union of Soviet Socialist Republics	V-1	
4CCPCJD	Centr po Yadernym Dannym, Obninsk	V-1	O
4CCPFEI	Fiziko-Energeticheskii Inst., Obninsk	V-1	O
4CCPFRT	Inst. Fiziko-Tekh. i Radio-tekh. Izmerenii, Meneleevo	V-1	O
4CCPFTI	Fiziko-Tekhnicheskii Inst. Ioffe, Leningrad+Gatchina	V-1	O
4CCPFVE	High-Energy Physics Inst.,Serpukhov	V-1	O
4CCPGAC	Inst. for Geo and Analytical Chemistry, Moscow	V-1	O
4CCPGAT	Fiziko-Tekhnicheskii Inst. Ioffe, Gatchina	V-1	O
4CCPGKS	State Committee on Standards, Moscow	V-1	O
4CCPGOR	Univ. of Gorkii, Gorkii	V-1	O
4CCPICD	Inf. Centr po Yadern. Dannym, Obninsk	V-1	O
4CCPICP	Inst. of Chemical Physics, Moscow	V-1	O
4CCPIFB	Inst. Fiz. AN Belorus.SSR, Minsk	V-1	O
4CCPIFG	Inst. Fiziki Akad. Nauk Gruzinskoi SSR, Tbilisi	V-1	O
4CCPIFL	Inst. Fiziki A.N. Latviiskoi SSR, Riga	V-1	O
4CCPIFP	Inst. Fizicheskikh Problem, Moscow	V-1	O
4CCPIFU	Inst. Fiziki A.N. Ukrainskoi SSR, Kiev	V-1	O
4CCPIIU	Inst. of Information of USSR State A.E.Comm., Moscow	V-1	O
4CCPIJE	Inst. Yad. Energetiki A.N. Byeloruss.SSR, Minsk	V-1	O
4CCPIJI	Inst. Yadernykh Issledovanii A.N. Ukrainskoi SSR,Kiev	V-1	O
4CCPIRE	Inst. Radiofiziki i Elektroniki (I.R.E.), Kharkov	V-1	O
4CCPITE	Inst. Teoret. i Experiment. Fiziki, Moscow	V-1	O
4CCPITF	Inst. of Theor. Physics, Ukrainian Acad.Sci., Kiev	V-1	O
4CCPJIA	Inst. Yadernych Issledovanii A.N. SSSR, Moscow	V-1	O
4CCPKAZ	Inst. Yadernoi Fiziki, Alma-Ata, Kazakhstan	V-1	O
4CCPKFT	Kharkovskii Fiziko-Tekhnicheskii Inst., Kharkov	V-1	O
4CCPKGU	Gosudarstvennyi Univ. (State Univ.), Kiev	V-1	O
4CCPKHU	Kharkovskii Gosudarstvennii Univ.	V-1	O
4CCPKRI	Inst. of Crystallography, Leningrad	V-1	O
4CCPKUR	Inst. At.En. I.V. Kurchatova, Moscow	V-1	O
4CCPLEB	Fiz. Inst. Lebedev (FIAN), Moscow	V-1	O
4CCPLIN	Leningrad Inst. Nucl. Phys., USSR Acad.Sci., Gatchina	V-1	O
4CCPLPI	Leningradskii Politekhnicheskii Inst.	V-1	O
4CCPMBP	Inst. Mediko-Biologicheskikh Problem, Moscow	V-1	O
4CCPMFT	Moskovskii Fiziko-Tekhnicheskii Inst., Moscow	V-1	O
4CCPMIF	Moscow Inst. of Engineering Physics, Moscow	V-1	O
4CCPMIM	Vsesoyuzniy Nauchno-Issl. Inst. Metrologii, Leningrad	V-1	O
4CCPMOS	Moscow State Univ., Nuclear Physics Inst., Moscow	V-1	O
4CCPNIR	NIIAR Dimitrovgrad	V-1	O
4CCPOFI	Inst. Optiko-Fizicheskikh Izmerenii, Moscow	V-1	O
4CCPOIE	Inst. of Atomic Energetics, Obninsk	V-1	O
4CCPRGU	Rostovskii Gosudarstvennyi Univ., Rostov-na-Donu	V-1	O
4CCPRI	Khlopin Radiev. Inst., Leningrad	V-1	O
4CCPSCU	USSR State Comm. on the Use of Atomic Energy, Moscow	V-1	O
4CCPSGU	Saratov Gosudarstvennyi Univ.	V-1	O
4CCPSIB	Inst. Yad. FIiz, Novosibirsk	V-1	O
4CCPSUL	Gosudarstvennyi Univ. (State Univ.), Leningrad	V-1	O
4CCPTGU	Tbilisskii Gosudarstvennyi Univ., Tbilisi	V-1	O
4CCPTIL	Leningradskii Tekhnologicheskii Inst. Im.Lensoveta	V-1	O
4CCPTMO	Inst. Teplo-Massoobmena A.N. Byeloruss.SSR, Minsk	V-1	O

4CCPTPI	Tomskii Politekhnicheskii Inst., Tomsk	V-1	O
4CCPUFT	Ukrainskii Fiziko-Tekhnicheskii Inst., Kharkov	V-1	O
4CCPUKR	Ukraine	V-1	O
4CCPUZB	Inst. Yadernoi Fiziki A.N. Uzbekskoi SSR, Tashkent	V-1	O
4CCPUZH	Uzhgorod State Univ.	V-1	O
4CCPVNI	USSR Scient. and Technical Inform. Inst., Moscow	V-1	O
4ESTEST	Estonia	V-1	
4GRGGRG	Georgia	V-1	
4GRGIFG	Inst.Fiziki Gruzinskoi Akad.Nauk, Tbilisi	V-1	
4GRGTGU	Tbilisskiy Gosudarstvennyi Univ., Tbilisi	V-1	
4KASAAT	Almaty Technological Institute, Almaty	V-1	
4KASKAS	Kazakhstan	V-1	
4KASKAZ	Inst.Yadernoi Fiziki, Almaty	V-1	
4LATIFL	Inst. Fiziki Latviyskoi A.N., Riga	V-1	
4LATLAT	Latvia	V-1	
4LITLIT	Lithuania	V-1	
4RUSBIO	Biophysical Inst., Moscow	V-1	
4RUSCJD	Centr po Yadernym Dannym, Obninsk	V-1	
4RUSEPA	Experimental Physics Inst., Arzamas	V-1	
4RUSFEI	Fiziko-Energeticheskii Inst., Obninsk	V-1	
4RUSFRT	Fiziko-Tekh. i Radio-Tekh. Izmerenii, Mendeleevo	V-1	
4RUSFTI	Fiz.-Tekhnicheskiy Inst.Ioffe, St.Petersburg+Gatchina	V-1	
4RUSFVE	High-Energy Physics Inst., Serpukhov	V-1	
4RUSGAC	Inst. for Geo- and Analytical Chemistry, Moscow	V-1	
4RUSGKS	State Committee on Standards, Moscow	V-1	
4RUSGOR	Univ.of Gorkiy, Gorkiy	V-1	
4RUSICP	Inst.of Chemical Phys., Moscow	V-1	
4RUSIFP	Inst. Fizicheskikh Problem, Moscow	V-1	
4RUSIIU	Inst.of Information of Russ.State A.E.Comm., Moscow	V-1	
4RUSITE	Inst. Teoret. + Experiment. Fiziki, Moscow	V-1	
4RUSITR	Inst.of Innovation and Thermonuclear Res., Troitsk	V-1	
4RUSJIA	Inst. Yadernych Issledovaniy Rossiiskoi A.N., Moscow	V-1	
4RUSKRI	Inst.of Crystallography, St.Petersburg	V-1	
4RUSKTU	Khabarovsk State Technical Univ., Khabarovsk	V-1	
4RUSKUR	Inst.At.En. I.V.Kurchatova, Moskva	V-1	
4RUSLEB	Fiz.Inst. Lebedev (FIAN), Moskva	V-1	
4RUSLIN	Leningrad Inst. Yad. Fiz., Russ. A.N., Gatchina	V-1	
4RUSLPI	Leningradskiy Politekhnicheskiy Inst.	V-1	
4RUSMBP	Inst.Mediko-Biologicheskikh Problem, Moscow	V-1	
4RUSMFT	Moskovskiy Fiziko-Tekhnicheskiy Inst., Moskva	V-1	
4RUSMIF	Moscow Inst.of Engineering Physics, Moscow	V-1	
4RUSMIM	Vsesoyuznyi Nauchno-Issl.Inst. Metrol., St.Petersburg	V-1	
4RUSMOS	Moscow State Univ.,Nuclear Physics Inst., Moscow	V-1	
4RUSNIK	Moscow Scient.and Res. Project Inst.in En.and Techn.	V-1	
4RUSNIR	NIIAR Dimitrovgrad	V-1	
4RUSOFI	Inst. Optiko-Fizicheskikh Izmerenii, Moscow	V-1	
4RUSOIE	Inst.of Atomic Energetics, Obninsk	V-1	
4RUSOZT	Omsk Inst. of Railroad Engineers	V-1	
4RUSRGU	Rostovskiy Gosudarstvennyi Univ., Rostov-na-Donu	V-1	
4RUSRI	Khlopin Radievij Inst., St.Petersburg	V-1	
4RUSRUS	Russia	V-1	
4RUSSCU	Ussr State Comm.on the Use of Atomic Energy, Moscow	V-1	
4RUSSGU	Saratov Gosudarstvennyi Univ.	V-1	
4RUSSIB	Inst. Yad. Fiz., Sib. A.N., Novosibirsk	V-1	
4RUSSUL	Gosudarstvennyi Univ. (State Univ.), St.Petersburg	V-1	
4RUSTIL	Leningradskiy Tekhnologicheskiy Inst. Im.Lensoveta	V-1	

4RUSTPC	Technical Physics Inst., Chelyabinsk	V-1	
4RUSTPI	Tomskiy Politekhnicheskiy Inst., Tomsk	V-1	
4RUSTVU	Tver' State Univ., Tver'	V-1	
4RUSVNI	Scient.and Technical Inform.Inst., Moscow	V-1	
4UKRIEP	Inst.of Electron Physics, Ukrain.Acad.Sci., Uzhgorod	V-1	
4UKRIFU	Inst. Fiziki Ukrainskoi A.N., Kiev	V-1	
4UKRIJD	Ukr. Inst. Yadernyh Doslidzhen, Kiev	V-1	
4UKRIJI	Inst.Yadernykh Issledovaniy Ukrainskoi A.N., Kiev	V-1	
4UKRIRE	Inst. Radiofiziki i Elekroniki, Ukrain. AN, Kharkov	V-1	
4UKRITF	Bogolyubov Inst.of Theor.Phys.,Ukrain.Acad.Sci., Kiev	V-1	
4UKRKFT	Kharkovskii Fiziko-Tekhnicheskii Inst., Kharkov	V-1	
4UKRKGU	Gosudarstvennyi Univ. (State Univ.), Kiev	V-1	
4UKRKHU	Kharkovskii Gosudarstvennyi Univ.	V-1	
4UKRUFT	Ukrainskiy Fiziko-Tekhnicheskiy Inst., Kharkov	V-1	
4UKRUKR	Ukraine	V-1	
4UKRUZH	Uzhgorod State Univ.	V-1	
4UZ UZ	Uzbekistan	V-1	
4UZ SSU	Samarkand State Univ., Samarkand	V-1	
4UZ UZB	Inst. Yadernoi Fiziki Uzbekskoi A.N., Tashkent	V-1	
4ZZZDUB	Joint Inst.for Nucl.Res., Dubna	V-1	
A	Mass number	H	
A	Mass number	W	
ABC	Absolute	W	
ABS-ERR-DATA	Absolute error of data	H	
ABST	Invariant four momentum transferred squared ABS(T)	H	
ACC	Accelerator	W	
ACC	Accelerator	F	
A-CMPD	Mass number of compound nucleus	H	
A-COMP	Mass number of compound nucleus	H	O
ACTV	Activation method	W	
ADB	Adiabatic	W	
ADB-MODEL	Adiabatic model	V-6	
A-DSTRN	Mass number distribution of products	V-7	
A-EMT	Mass number of emitted particle	H	
AG	Ag	V-8.4	
AIG	Width of imag. pot. of surface gaussian type	V-11	
AIS	Diffuseness of imag. pot. of surface type	V-11	
AISO	Diffuseness of imag. pot. of spin-orbit type	V-11	
AIV	Diffuseness of imag. pot. of volume type	V-11	
AL	Al	V-8.4	
ALGN	Alignment	V-7	
ALGN	Alignment	W	
ALGN-TGT	Alignment of target nucleus	F	
ALPHA	Alpha	V-13	
ALPHA	Alpha particle	W	
A-MAX	Mass number (upper limit)	H	
A-MIN	Mass number (lower limit)	H	
AMP	A (ampere)	V-14	
AMPL	Amplitude	W	
AMU	amu (atomic mass unit)	V-14	
AMU	Atomic mass unit	W	
ANALPW	Analyzing power	H	
ANALPW	Analyzing power	V-7	
ANALPW	Analyzing power	W	
ANG-CORRL	Angular correlation	V-7	O
ANGL	Angle	W	

ANGL-CORRL	Angular correlation	V-7	
ANGL-DSTRN	Angular distribution	V-7	
ANL	Analysis	W	
ANL	Analysis	F	
ANT	Anti	W	
ANT-COINC	Anti-coincidence of particle	F	
ANTIN	Anti-neutron	V-13	
ANTIN	Anti-neutron	W	
ANTIP	Anti-proton	V-13	
ANTIP	Anti-proton	W	
A-PRJ	Mass number of projectile	H	
AR	Diffuseness of real pot. of central type	V-11	
ARB	Arbitrary unit	V-14	
ARB	Arbitary	W	
A-RESD	Mass number of residual nucleus	H	
ARSO	Diffuseness of real pot. of spin-orbit type	V-11	
ASSIGN	Assignment	H	O
ASTR	Astro	W	
ASTR-SFCTR	Astrophysical S-factor	H	
ASTR-SFCTR	Astrophysical S-factor	V-7	
ASYM	Asymmetry	H	
ASYM	Asymmetry	V-7	
ASYM	Asymmetry	W	
A-TGT	Mass number of target	H	
ATH	Author	W	
ATH	Author	F	
ATOM	Atomosphere ?	V-14	
ATOM	Atomosphere (unit of pressure)	W	
AU	Au	V-8.4	
AVER	Average	W	
AVER-KIN-ENGY	Average kinetic energy	H	
AVER-KIN-ENGY	Average kinetic energy	V-7	
AYY	Ayy component of spin correlation parameter	H	
B	b (barn)	V-14	
B	b (barn)	W	
B/KEV	b/keV	V-14	
B/MEV	b/MeV	V-14	
B/SR	b /sr	V-14	
B/SR/KEV	b/sr/keV	V-14	
B/SR/MEV	b/sr/MeV	V-14	
BAC	Backing of target nucleus	W	
BAC	Backing of target nucleus	F	
BARR	Barriror	W	
BE	Reduced electric transition probability : B(EL) (L=1,2...)	W	
BE-3	B(E3)	H	
BEAM	Beam	W	
BEAM-INTNSTY	Beam intensity	F	
BE-L	B(E lambda)	H	
BE-L	B(EL) L=1,2,..	W	
BETA	Beta	V-13	
BETA	Beta decay, Beta particle	W	
BETAN	Beta-	V-13	
BETAN	Beta- particl	W	
BETAP	Beta+	V-13	
BETAP	Beta+ particle	W	
BIB	Bibliography section	S	

BIND	Binding	W	
BIND-ENGY	Binding energy	H	
BM-L	B(M lambda)	H	
BM-L	B(ML) L=1,2,..	W	
BQ	Bq (Becquerel)	W	
BQ/UA/HOUR	Bq/uA/hour	V-14	
BRANCH	Branching	W	
BRANCH-RATIO	Branching ratio	H	
BRANCH-RATIO	Branching ratio	V-7	
BUBBLC	Bubble chamber	V-5	
BUBBLC	Bubblechamber	W	
C	C	V-8.4	
C	Carbon, Velocity of light (constant)	W	
C**4/GEV**3/SR**2	c**4/GeV**3/sr**2	V-14	
CALB-DET	Caliblation of detectors	F	
AAA	Astronomy and Astrophysics	V-2	
AAB	Anais da Academia Brasileira de Ciencias	V-2	
AAF	Annales Acad. Sci. Fennicae, Series A6: Physica	V-2	
AANL	Atti Acad. Naz. Lincei,Rend.,Sci.Fis.,Mat.Nat.	V-2	
AAST	Atti Acad. Sci. Torino, Cl.Sci.Fis.Mat.Nat.	V-2	
ABS	Memoires de l'Acad. Roy.Belg.,Cl.Sci.	V-2	
AC	Analytical Chemistry	V-2	
ACA	Analitica Chimica Acta	V-2	
ACH	Angewandte Chemie	V-2	
ACJ	Acta Chemica Scandinavica	V-2	
ACR	Acta Crystallographica	V-2	
ACR/A	Acta Crystallographica, Part A	V-2	
ACR/B	Acta Crystallographica, Part B	V-2	
ACS	Journal of the American Chemical Society	V-2	
ADC	Annales de Chimie	V-2	
ADP	Annalen der Physik	V-2	
AE	Atomnaya Energiya	V-2	
AE/S	Atomnaya Energiya, Supplement	V-2	
AE/T	Atomic Energy	V-2	
AEA	Atomic Energy in Australia	V-2	
AEJ	Journal of the Atomic Energy Society of Japan	V-2	
AF	Arkiv foer Fysik	V-2	
AHP	Acta Physica Hungarica	V-2	
AHT	Acta Technica (Budapest)	V-2	
AIF	Anales del Instituto de Fisica	V-2	
AIP	Advances in Physics	V-2	
AJ	Astrophysical Journal	V-2	
AJ/L	Astrophysical Journal, Letters	V-2	
AJ/S	Astrophysical Journal, Supplement	V-2	
AJN	Arab Journal of Nuclear Sci.and Application	V-2	
AJP	American Journal of Physics	V-2	
AJS	Australian Journal of Science	V-2	
AJSE	Arabian J.for Science and Engineering	V-2	
AK	Atomki Koezlemenyek	V-2	
AKE	Atomkernenergie	V-2	
AKS	Atomki Kozlemenyek Supplement	V-2	
ANA	Analyst (London)	V-2	
AND	Atomic Data and Nuclear Data Tables	V-2	
ANE	Annals of Nuclear Energy	V-2	
ANP	Annalen der Physik (Leipzig).	V-2	
ANS	Transactions of the American Nuclear Society	V-2	

AOS	Acta Oncologica (Stockholm)	V-2	
AP	Annals of Physics (New York)	V-2	
APA	Acta Physica Austriaca	V-2	
APH	Annales de Physique (Paris)	V-2	
APL	Applied Physics Letters	V-2	
APP	Acta Physica Polonica	V-2	
APP/A	Acta Physica Polonica, Part A	V-2	
APP/B	Acta Physica Polonica, Part B	V-2	
APS	Acta Polytechnica Scandinavica	V-2	
ARI	Applied Radiation and Isotopes	V-2	
ARN	Annual Review of Nuclear and Part.Sci.	V-2	
ARS	Anales de Fisica y Quimica	V-2	
ASI	Acta Physica Sinica	V-2	
ASL	Acta Physica Slovaca	V-2	
ASP	Astrophysics and Space Science	V-2	
ASS	Annales de la Societe Scientifique de Bruxelles	V-2	
AT	Atomes	V-2	
ATP	Atompraxis	V-2	
ATT	Atomtechnikai Tajekoztato	V-2	
ATW	Atomwirtschaft, Atomtechnik	V-2	
AUJ	Australian Journal of Physics	V-2	
BAP	Bulletin of the American Physical Society	V-2	
BAS	Bull.Russian Academy of Sciences - Physics	V-2	
BCF	Bulletin de la Societe Chimique de France	V-2	
BCI	Bull.Research Council of Israel, Sect. F	V-2	
BCJ	Bull.of the Chemical Soc.of Japan	V-2	
BCR	Bull.of Inst.Chemical Research, Kyoto Univ.	V-2	
BCS	Bull.de la Classe des Sci.,Acad.Roy.Belgique	V-2	
BIP	Bull. of the Israel Physical Society	V-2	
BIS	Bull.d'Informations Scientifiques et Techniques	V-2	
BJA	British Journal of Applied Physics	V-2	
BJA/S	British J.of Applied Physics, Suppl.	V-2	
BJE	Bezpecnost Jaderne Energie	V-2	
BJP	Bulgarian J.of Physics	V-2	
BKE	Bull.Boris Kidrich Inst.Nucl.Sci., Electron.	V-2	
BKN	Bull. Boris Kidrich Inst.Nucl.Sci., Nucl.Eng.	V-2	
BKP	Bull. Boris Kidrich Inst.Nucl.Sci., Physics	V-2	
BNE	Journal of the British Nuclear Energy Society	V-2	
BOS	Transactions of the Bose Research Inst.,Calcutta	V-2	
BPC	Bull.de l'Acad.Pol.Sci., Chimique	V-2	
BPP	Bull.de l'Acad.Pol.Sci.,Math.,Astr.,Phys.	V-2	
BPT	Bull.de l'Acad.Pol.Sci.,Ser.Sci.Techniques	V-2	
BSI	Bolletino della Societa Italiana di Fisica	V-2	
BSL	Bull.Societe Royale des Sciences de Liege	V-2	
BTI	Bull.of the Tokyo Inst.of Technology	V-2	
CA	Chemia Analityczna	V-2	
CDP	Cahiers de Physique	V-2	
CEC	Ciencia e Cultura (Sao Paulo)	V-2	
CHP	Chinese Journal of Physics (Taiwan)	V-2	
CJC	Canadian Journal of Chemistry	V-2	
CJP	Canadian Journal of Physics	V-2	
CJR	Canadian Journal of Research	V-2	
CJR/A	Canadian Journal Research, Part A	V-2	
CJR/B	Canadian Journal Research, Part B	V-2	
CNDP	Communication of Nuclear Data Progress	V-2	
CNP	Chinese J.of Nuclear Physics (Beijing).	V-2	

CNST	Nuclear Science and Techniques (Shanghai).	V-2	
CNT	Canadian Nuclear Technology	V-2	
CP	Chinese Physics	V-2	
CPC	Computer Physics Communications	V-2	
CPH	Chinese Physics	V-2	
CPL	Chinese Physics Letters	V-2	
CR	Comptes Rendus, Serie B, Physique	V-2	
CR/B	Comptes Rendus, Serie B, Physique	V-2	
CR/C	Comptes rendus, Serie C, Chimie	V-2	
CRB	Comptes Rendus Acad.Bulgare Sci.	V-2	
CS	Current Science	V-2	
CSA	Abstracts of papers, American Chemical Soc.	V-2	
CST	Atomic Energy Science and Technology	V-2	
CZC	Collection of Czech.Chemical Communications	V-2	
CZJ	Czechoslovak Journal of Physics	V-2	
CZJ/A	Ceskoslovensky Casopys pro Fyziku	V-2	
CZJ/B	Czech.J.of Physics, Part B	V-2	
DA	Dissertation Abstracts	V-2	
DA/B	Dissertation Abstracts B (Sciences)	V-2	
DOK	Doklady Akademii Nauk	V-2	
EAF	Energie Atomique	V-2	
EARR	European Applied Research Reports	V-2	
EAT	Energia es Atomtechnika	V-2	
EEN	Ergebnisse der Exakten Naturwissenschaften	V-2	
EN	Energia Nucleare (Milan)	V-2	
ENF	Energie Nucleaire	V-2	
ENM	Europ.J.of Nucl.Medicine and Molecular Imaging	V-2	
EON	Euronuclear	V-2	
EPJ/A	European Physical Journal A: Hadrons and Nuclei	V-2	
EPJ/C	Europ. Physical Journal C: Particles and Fields	V-2	
EPL	Earth and Planetary Sci.Letters	V-2	
ESJ	J.of Engineering Sciences, Univ. of Riyadh	V-2	
ETP	Experimentelle Technik der Physik	V-2	
EUL	Europhysics Letters	V-2	
EXP	Experientia	V-2	
FBS	Few-Body Systems	V-2	
FBS/S	Few-Body Systems, Supplement	V-2	
FCY	Fizika Elementarnykh Chastic i Atomnogo Yadra	V-2	
FDP	Fortschritte der Physik	V-2	
FIZ	Fizika	V-2	
FIZ/B	Fizika B	V-2	
FIZ/S	Fizika, Supplement	V-2	
FMM	Fizika Metallov i Metallovedeniya	V-2	
FT	Fysisk Tidsskrift	V-2	
FTT	Fizika Tverdogo Tela	V-2	
GCA	Geochimica et Cosmochimica Acta	V-2	
GK	Genshiryoku Kogyo	V-2	
GUS	Godishnik na Sofijskija Univ. 'Kliment Ohridski'	V-2	
HCA	Helvetica Chimica Acta	V-2	
HEN	High Energy Physics and Nucl.Phys.,Engl.ed.	V-2	
HFH	He Huaxue yu Fangshe Huaxue	V-2	
HI	Hyperfine Interactions	V-2	
HP	Health Physics	V-2	
HPA	Helvetica Physica Acta	V-2	
IAB	Int.Atomic Energy Agency Bulletin	V-2	
IAC	Proc.Indian Assoc.for Cultiv.of Sci.	V-2	

IBK	Bull.Boris Kidrich Inst.of Nucl.Sci.	V-2	
IET	Instruments and Experimental Techniques	V-2	
IFG	Trudy Inst.Fiziki Gruzinskoi Akad.Nauk	V-2	
IFI	Izvestiya na Fizicheskija Institut s ANEB	V-2	
IJM	Israel Journal of Mathematics	V-2	
IJP	Indian Journal of Physics	V-2	
IJP/A	Indian Journal of Physics, Part A	V-2	
IMP/E	Int. Journal of Modern Physics, Part E	V-2	
INC	Inorganic and Nuclear Chemistry Letters	V-2	
IP	Isotopenpraxis	V-2	
IPA	Indian Journal of Pure and Applied Physics	V-2	
IPC	Int.Journal for Radiation Physics and Chemistry	V-2	
IRE	IEE Transactions on Nuclear Science	V-2	
ISA	Indian Science Abstracts	V-2	
ISC	Israel J.of Chemistry	V-2	
ISP	Israel J.of Physics	V-2	
IVU	Izv.Vysshikh Uchebnykh Zavedenii,Ser.Fizika	V-2	
IV/Y	Izv.Vysshikh Uchebnykh Zavedenii,Ser.Yad.En.	V-2	
IZA	Izv.Azerb.Akad.Nauk,Ser.Fiz.-Tekh.i Mat.	V-2	
IZK	Izv.Kaz.Akad.Nauk,Ser.Fiz.-Mat.	V-2	
IZL	Izv.Latviiskoi Akad.Nauk	V-2	
IZV	Izv. Rossiiskoi Akademii Nauk, Ser.Fiz.	V-2	
JAC	J.of Applied Crystallography	V-2	
JAE	Yadernaya Energetika	V-2	
JAP	Journal of Applied Physics	V-2	
JBAS	J.of the Bangladesh Academy of Sciences	V-2	
JBS	J.of Research of Nat.Bureau of Standards	V-2	
JCP	J.Chemical Physics	V-2	
JE	Jaderna Energie (Prague).	V-2	
JEB	Jaderna Energiya, Bulgarian Acad.Sci.	V-2	
JEL	JETP Letters	V-2	
JES	J.of the Electro-Chemical Society Belgium	V-2	
JET	Soviet Physics - JETP	V-2	
JFI	Journal of the Franklin Institute	V-2	
JGR	Journal of Geophysical Research	V-2	
JGR/A	Journal of Geophysical Research, Part A	V-2	
JGR/B	Journal of Geophysical Research, Part B	V-2	
JGR/C	Journal of Geophysical Research, Part C	V-2	
JIN	Journal of Inorganic and Nuclear Chemistry	V-2	
JLCR	J.of Labelled Compounds and Radiopharmaceut.	V-2	
JLCR/S	J.of Labelled Comp.and Radiopharmaceut.Suppl.	V-2	
JMJ	Proc.Physico-Mathematical Society of Japan	V-2	
JMM	Journal of Magnetism and Magnetic Materials	V-2	
JMS	J.of Mass Spectrom.and Ion Physics	V-2	
JNC	Journal of Non-Crystalline Solids	V-2	
JNE	Journal of Nuclear Energy	V-2	
JNE/A	Reactor Science (J.Nucl.Energy, Part A)	V-2	
JNE/AB	J. Nuclear Energy, Part A+B (Reactor Sci.Techn.)	V-2	
JNE/B	Reactor Technology (J.Nucl.Energy, Part B)	V-2	
JNM	Journal of Nuclear Materials	V-2	
JNRS	Journal of Nuclear and Radiochemical Sciences	V-2	
JP/A	Jour. of Physics, Part A (Mathematical+General)	V-2	
JP/AL	Jour.of Physics, Part A, Letters to the editor	V-2	
JP/C	Jour.of Physics, Part C (Solid State Physics)	V-2	
JP/D	Jour. of Physics, Part D (Applied Physics)	V-2	
JP/E	Jour. of Physics, Part E (Sci.Instruments)	V-2	

JP/F	Jour. of Physics, Part F (Metal Physics)	V-2	
JP/G	Jour. of Physics, Part G (Nucl.and Part.Phys.)	V-2	
JP/GL	Jour. of Physics, Part G, Letters to the editor	V-2	
JP/S	Jour. of Physics, Part G, Supplement	V-2	
JPC	J.de Chimie Physique et Physicochimie Biol.	V-2	
JPJ	Journal of the Physical Society of Japan	V-2	
JPR	Journal de Physique	V-2	
JPR/A	Journal de Physique, Suppl.A, Physique Appliquee	V-2	
JPR/C	Journal de Physique - Colloque	V-2	
JPR/L	Journal de Physique - Lettres	V-2	
JPR/S	Journal de Physique, Suppl.S, Soc.Francaise	V-2	
JR	J.of Research of Nat.Inst.Stand.+Technology	V-2	
JRC	J.of Radioanalytical Chemistry	V-2	
JRN	J.of Radioanalytical and Nuclear Chemistry	V-2	
JRN/L	J. Radioanalytical and Nucl. Chem., Letters	V-2	
JSIU	J.of Sichuan Univ., Natural Science Ed.	V-2	
KDV	Kgl.Danske Videns.Selskab.Mat.-Fys.Medd.	V-2	
KE	Kernenergie	V-2	
KFI	KFKI Kozlemenyek	V-2	
KFKN	KFK-Nachrichten	V-2	
KNS	Journal of the Korean Nuclear Society	V-2	
KPS	Journal of the Korean Physical Society	V-2	
KRI	Kristallografiya	V-2	
KSF	Kratkie Soobshcheniya po Fizike	V-2	
KT	Kerntechnik	V-2	
KUV	Vestnik Kiev State Univ.	V-2	
KXT	Kexue Tongbao (Chinese Sci.Letters)	V-2	
LEB	Issled.po Neitr.Fiz., Trudy Fiz. Inst. Lebedeva	V-2	
LPS	Lunar and Planetary Science Conferences	V-2	
MAB	Monatsber.d.Deutschen Akad.Wiss.Berlin	V-2	
MED	Medical Physics	V-2	
MET	Metrologia	V-2	
MFC	Matematicko-Fyzikalny Casopis	V-2	
MFF	Magyar Fizikai Folyoirat	V-2	
MSK/A	Memoirs Faculty of Sci., Kyoto Univ.,Ser.Phys.	V-2	
MSL	Memoires de la Soc.Royale des Sci.de Liege	V-2	
MUPB	Moscow Univ.Physics Bulletin	V-2	
NAP	Nuclear Applications	V-2	
NAT	Nature (London)	V-2	
NAW	Proc.Koninklijke Nederlandse Akad.Wetenschappen	V-2	
NC	Nuovo Cimento	V-2	
NC/A	Nuovo Cimento A	V-2	
NC/B	Nuovo Cimento B	V-2	
NCL	Lettere al Nuovo Cimento	V-2	
NCR	Rivista del Nuovo Cimento	V-2	
NCS	Nuovo Cimento, Suppl.	V-2	
ND/A	Nuclear Data Tables (Nuclear Data Sect.A)	V-2	
ND/B	Nuclear Data Sheets (Nuclear Data Sect.B)	V-2	
NDF	Notas de Fisica	V-2	
NE	Nuclear Engineering International	V-2	
NEN	Nuklearna Energija	V-2	
NF	Nuclear Fusion (IAEA)	V-2	
NIM	Nuclear Instrum.and Methods in Physics Res.	V-2	
NIM/A	Nucl. Instrum. Methods in Physics Res., Sect.A	V-2	
NIM/B	Nucl. Instrum. Methods in Physics Res., Sect.B	V-2	
NIN	Nuclear India	V-2	

NKA	Nukleonika	V-2	
NKK	Nippon Kagaku Kaishi	V-2	
NKN	Nukleon	V-2	
NM	Nuklearmedizin	V-2	
NMB	Int. Journal of Nuclear Medicine and Biology	V-2	
NP	Nuclear Physics	V-2	
NP/A	Nuclear Physics, Section A	V-2	
NP/B	Nuclear Physics, Section B	V-2	
NPW	Nuclear Power	V-2	
NSA	Nuclear Science Abstracts	V-2	
NSB	Nuclear Science and Applications (Dhaka)	V-2	
NSD	Nuclear Science and Applications (Dhaka).	V-2	
NSD/A	Nuclear Science and Applications, Series A	V-2	
NSD/B	Nuclear Science and Applications, series B	V-2	
NSE	Nuclear Science and Engineering	V-2	
NSF	Nuclear Science, Taiwan	V-2	
NSJ	Nuclear Science Abstracts of Japan	V-2	
NSP	Nuclear Science and Applications	V-2	O
NSP/A	Nuclear Science and Applications A	V-2	O
NSP/B	Nuclear Science and Applications B	V-2	O
NST	J. of Nuclear Science and Technology, Tokyo	V-2	
NSTS	J.Nucl.Science and Technol.Tokyo,Supplement	V-2	
NT	Nuclear Technology	V-2	
NTC	(Chinese J.of) Nuclear Techniques, Shanghai.	V-2	
NTF	Fusion Technology	V-2	
NTN	Nederlands Tijdschrift voor Natuurkunde	V-2	
NUC	Nucleonics	V-2	
NUK	Nukleonik	V-2	
NWS	Naturwissenschaften	V-2	
NYA	Transactions of the New York Academy of Sciences	V-2	
OAW	Oesterr.Akad.Wiss.,Math-Naturw.Kl.,Sitzungsber.	V-2	
OAWA	Oesterr.Akad.Wiss.,Math-Naturw.Kl.,Anzeiger	V-2	O
OAWS	Oesterr.Akad.Wiss.,Math-Naturw.Kl.,Sitzungsber.	V-2	O
OE	Onde Electrique	V-2	
OSA	Oesterr.Akad.Wiss.,Math-Naturw.Kl.,Anzeiger	V-2	
PA	Physics Abstracts	V-2	
PAC	Pure and Applied Chemistry	V-2	
PAN	Physics of Atomic Nuclei	V-2	
PAS	Phys. Abhandlungen aus der Sowjetunion	V-2	
PB	Physikalische Blaetter	V-2	
PC	Physics in Canada	V-2	
PCJ	Journal of Physical Chemistry	V-2	
PCM	Physics of Condensed Matter	V-2	
PCN	Physical and Chemical News (Morocco)	V-2	
PCP	Proceedings of the Cambridge Philosophical Soc.	V-2	
PCS	Journal of Physics and Chemistry of Solids	V-2	
PF	Postepy Fizyki	V-2	
PHCL	Physicalia (Journal of the Belgian Phys.Soc.)	V-2	
PHE	High Energy Physics and Nucl.Physics,Chinese ed.	V-2	
PHF	Physica Fennica	V-2	
PHN	Notes Scientifiques de l'Universite de Grenoble	V-2	
PHY	Physica (Utrecht)	V-2	
PIA	Proc. of the Indian Acad. Sciences, Sect. A	V-2	
PJA	Proceedings of the Japan Academy	V-2	
PJS	Prikladnaya Yadernaya Spektroskopiya	V-2	
PKL	Problemy Yadernoj Fiziki i Kosmicheskikh Luchej	V-2	

PL	Physics Letters	V-2	
PL/A	Physics Letters, Section A	V-2	
PL/B	Physics Letters,Section B	V-2	
PL/C	Phys.Letters,Sect.C, Physics Reports	V-2	
PLY	Polyhedron	V-2	
PM	Philosophical Magazine	V-2	
PMB	Physics in Medicine and Biology	V-2	
PNA	Proc. of the National Academy of Sciences U.S.A.	V-2	
PNE	Progress in Nuclear Energy	V-2	
PNJ	Philippines Nuclear Journal	V-2	
PNP	Progress in Particle and Nuclear Physics	V-2	
PNV	Physica Norvegica	V-2	
PPA	Proceedings of the Pakistan Academy of Sciences	V-2	
PPS	Proceedings of the Physical Society (London),	V-2	
PPS/A	Proc.Physical Society (London), Section A	V-2	
PQR	Quarterly Rev.Scientific Publ.Polish Acad.Sci.	V-2	
PR	Physical Review	V-2	
PR/A	Physical Review, Part A, General Physics	V-2	
PR/B	Physical Review, Part B, Condensed Matter	V-2	
PR/C	Physical Review, Part C, Nuclear Physics	V-2	
PR/D	Physical Review, Part D, Particles and Fields	V-2	
PRE	Proceedings of the Royal Society Edinburgh	V-2	
PRE/A	Proc. Royal Society of Edinburgh, Series A	V-2	
PRL	Physical Review Letters	V-2	
PRM	Pramana	V-2	
PRS	Proc. of the Royal Society (London)	V-2	
PRS/A	Proc. Royal Society (London), Series A	V-2	
PS	Physica Scripta	V-2	
PSS	Physica Status Solidi	V-2	
PT	Physics Today	V-2	
PTE	Pribory i Tekhnika Eksperimenta	V-2	
PTP	Progress of Theoretical Physics	V-2	
PTP/S	Progress of Theoretical Physics, Suppl.	V-2	
PZ	Physikalische Zeitschrift	V-2	
RAK	Radiokhimiya	V-2	
RBF	Brasilian Journal of Physics	V-2	
RCA	Radiochimica Acta	V-2	
RE	Radiation Effects	V-2	
REA	Atomic Energy Review, IAEA	V-2	
REF	Referativnyi Zhurnal, Fizika	V-2	
RFT	Reactor and Fuel-Processing Technology	V-2	
RI	Radioisotopes	V-2	
RIC	Ricerca Scientifica	V-2	
RIZ	Radioaktivni Izotopi i Zracenja.	V-2	
RJP	Romanian Journal of Physics	V-2	
RJP/S	Romanian Journal of Physics, Supplement	V-2	
RM	Radiation Measurements	V-2	
RMF	Revista Mexicana de Fisica	V-2	
RMP	Review of Modern Physics.	V-2	
RPA	Revue de Physique Appliquee	V-2	
RPC	RPCC Newsletter	V-2	O
RPP	Reports on Progress in Physics	V-2	
RPQ	Revista Portugesa de Qimica	V-2	
RR	Radiation Research	V-2	
RRIP	Romanian Reports in Physics	V-2	
RRL	Radiochem. and Radioanal. Letters	V-2	

RRP	Revue Roumaine de Physique	V-2	
RSA	Rumanian Scientific Abstracts, Natural Sciences	V-2	
RSE	Transactions of the Royal Society Edinburgh	V-2	
RSI	Review of Scientific Instruments	V-2	
RSR	Review of Science Research	V-2	
RST	Reactor Science and Technology	V-2	O
SAJ	South African Journal of Science	V-2	
SAP	South African Journal of Physics	V-2	
SCF	Studii si Cercetari de Fizica	V-2	
SCI	Science	V-2	
SCP	Scient.Papers Inst.Phys.Chem.Res.,Tokyo	V-2	
SCS	Science in China, Series A	V-2	
SJA	Soviet Atomic Energy	V-2	
SJA/S	Soviet Atomic Energy, Supplement	V-2	
SJPN	Soviet Journal of Particles and Nuclei	V-2	
SNP	Soviet Journal of Nuclear Physics	V-2	
SPC	Soviet Physics-Cristallography	V-2	
SPD	Soviet Physics-Doklady	V-2	
SPL	Soviet Physics - Lebedev Inst.Report	V-2	
SPS	Soviet Physics-Solid State	V-2	
SPT	Soviet Physics-Technical Physics	V-2	
SPU	Soviet Physics-Uspekhi	V-2	
SRA	Soviet Radiochemistry	V-2	
SSC	Solid State Communications	V-2	
TAL	Talanta	V-2	
TMF	Teoreticheskaya i Matematicheskaya Fizika	V-2	
TNS	The Nucleus (Lahore)	V-2	
TRS/A	Philosophical Transactions, Series A	V-2	
TUG	Chalmers Tekniska Hoegskolas Handlingar	V-2	
UFN	Uspekhi Fizicheskikh Nauk	V-2	
UFZ	Ukrainskii Fizichnii Zhurnal	V-2	
UPJ	Ukrainian Physics Journal	V-2	
VAN	Vestnik Akademii Nauk SSSR	V-2	
VAT/F	Voprocy Atomnoy Nauki i Tekhniki, Seriya Fiziki	V-2	
VAT/O	Voprocy Atomnoy Nauki i Tekhniki, Seriya Obshch.	V-2	
VAT/R	Voprocy Atomnoy Nauki i Tekhniki, Seriya Reak.	V-2	
VAT/Y	Voprocy Atomn.Nauki i Tekhniki,Ser.Fiz.Yad.Reak.	V-2	
VBF	Vestsi Ak.Navuk, Ser.Fiz.En.	V-2	
VDPG	Verhandlung.Deutsch.Physik.Ges.	V-2	
VLU	Vestnik Leningradskogo Univ., Fizika, Khimiya	V-2	
VMU	Vestnik Moskovskogo Univ., Seriya Fiz.Astron.	V-2	
VTYF	Voprosy Teoreticheskoy i Yadernoy Fiziki	V-2	
WULI	Wuli (Physics)	V-2	
WZD	Wiss.Zeitschr.der Univ.Dresden	V-2	
YF	Yadernaya Fizika	V-2	
YK	Vop. At.Nauki i Tekhn.,Ser.Yadernye Konstanty	V-2	
YTN	Yuan Tzu Neng (Atomic Energy)	V-2	
ZAP	Zeitschrift fuer Angewandte Physik	V-2	
ZEC	Zeitschrift fuer Elektrochemie	V-2	
ZEP	Zhurnal Eksper. i Teoret. Fiz., Pisma v Redakt.	V-2	
ZET	Zhurnal Eksperimental'noi i Teoret. Fiziki	V-2	
ZK	Z.fuer Kristallographie	V-2	
ZMM	Z.fuer Angewandte Mathematik und Mechanik	V-2	
ZMP	Zeit. fuer Angewandte Mathematik und Physik	V-2	
ZN	Zeitschrift fuer Naturforschung	V-2	
ZNJD	Zbir.Nauk.Kyiv Inst.Yad.Dosl.	V-2	

ZN/A	Zeitschrift fuer Naturforschung, Section A	V-2	
ZN/B	Zeitschrift fuer Naturforschung, Section B	V-2	
ZP	Zeitschrift fuer Physik	V-2	
ZP/A	Zeitschrift fuer Physik, Section A	V-2	
ZP/B	Zeitschrift fuer Physik, Section B	V-2	
ZPC	Z. Physikalische Chemie (Leipzig)	V-2	
ZPF	Z. Physikalische Chemie (Frankfurt)	V-2	
ZTF	Zhurnal Tekhnicheskoi Fiziki	V-2	
ALBERTA-	Nucl.Res.Centre, U.of Alberta, Edmonton Reports	V-2	
MC-	Nat'l Res.Council of Canada, Montreal Labs Repts	V-2	
AECL-	Atomic Energy of Canada Ltd. Reports	V-2	
CR-	*** Code obsolete *** Use AECL-number	V-2	O
CRC-	National Research Council Reports	V-2	
CRGP-	AECL .	V-2	
CRNL-	AECL Chalk River Reports	V-2	
CRP-	AECL Chalk River Reports	V-2	
CRRP-	AECL Chalk River Reports	V-2	
CRT-	Natn'l Res.Council of Canada, Chalk River Repts	V-2	
PR-CM-	AECL Chalk River Reports	V-2	
PR-CMA-	AECL Chalk River Reports	V-2	
PR-P-	AECL Reports	V-2	
TDS-	AECL Nucl.Power Plant Div. Reports	V-2	
UK/C-	AECL Reports	V-2	
LPN-UM-	Univ. of Montreal Reports	V-2	
NRCC-	Nat'l Res.Council of Canada, Ottawa Reports	V-2	
ENICO-	Exxon Nuclear Idaho Company Reports	V-2	
ICP-	Allied Chem. Corp., Idaho Chem. Programs	V-2	
AN-	Aerojet General Nucleonics Reports	V-2	
AI-	Atomics International Reports	V-2	
AI-AEC-	Atomics International Reports	V-2	
NAA-	North American Aviation report series	V-2	
NAA-SR-	North American Aviation Reports	V-2	
NAA-SR-M-	North American Aviation Reports	V-2	
NAA-SR-MEMO	North American Aviation Reports	V-2	
NAA-SR-TDR-	North American Aviation Reports	V-2	
TI-	Atomics Int., N. American Rockwell, Tech. Inf.	V-2	
A-ALB-	State Univ. of New York at Albany Reports	V-2	
ANCR-	Aerojet Nuclear Corp. Reports	V-2	
ANL-	Argonne National Laboratory report series	V-2	
ANL-NDM-	Argonne National Laboratory Reports	V-2	
ANL-TRANS-	Argonne National Laboratory, translations	V-2	
AP/CTR/TM-	Argonne Nat. Lab., Appl.Phys.Div., Techn. Memo	V-2	
FRA-TM-	FRA Technical Memorandum, Argonne Nat. Lab.	V-2	
RPCC-	Reactor Physics Constants Center Newsletter	V-2	
APDA-	Atomic Power Devel. Assoc., Detroit Reports	V-2	
ARF-	Armour Research Foundation Reports	V-2	
A-ARK-	Univ. of Arkansas Reports	V-2	
ARL-	Aerospace Res.Labs,Wright-Patterson A.F.B.Repts.	V-2	
BAW-	Babcock and Wilcox Co. Reports	V-2	
BMI-	Battelle Memorial Inst. Reports	V-2	
BNL-	Brookhaven National Laboratory report series	V-2	
BNL-C-	Brookhaven National Laboratory Reports	V-2	
BNL-NCS-	Brookhaven National Laboratory Reports	V-2	
BNL-TR-	Brookhaven National Laboratory translations	V-2	
IS/P-	Brookhaven National Laboratory Reports	V-2	
BNWL-	Battelle-Northwest report series	V-2	

BNWL-B-	Battelle-Northwest Reports	V-2	
BNWL-SA-	Battelle-Northwest Reports	V-2	
BNWL-TR-	Battelle-Northwest Reports	V-2	
BRL-	Ballistic Research Labs report series	V-2	
BRL-MR-	Ballistic Research Labs Reports	V-2	
BRL-R-	Ballistic Research Labs Reports	V-2	
LAP-	Calif. Inst. of Technology Lemon Aid Preprints	V-2	
OAP-	Calif. Inst. of Technology Orange Aid Preprints	V-2	
CC-	Chicago University Metallurgical Labs Reports	V-2	
CF-	Chicago University Metallurgical Labs Reports	V-2	
CN-	Chicago University Metallurgical Labs Reports	V-2	
CP-	Chicago University Metallurgical Labs Reports	V-2	
CS-	Chicago University Metallurgical Labs Reports	V-2	
NPL-	U. Colorado, Nucl.Phys.Lab., Techn. Prog. Rept.	V-2	
UCOL-P-	Colorado Univ. Reports	V-2	
CU(PNPL)-	Columbia Univ. progress report	V-2	
CU-	Columbia Univ. report series	V-2	
CUD-	Columbia Univ. report series	V-2	
NYO-GEN-	Columbia Univ. Reports	V-2	
CWR-	Curtiss-Wright Corp. Reports	V-2	
DAV-	Crocker Nucl. Lab., U.C. at Davis Reports	V-2	
UCD-CNL-	Crocker Nucl. Lab., U.C. at Davis, prog.rep.	V-2	
AD-	Dept. of Defence Reports	V-2	
AFOSR-	Dept. of Defense Reports	V-2	
AFSWP-	Armed Forces Special Weapons Project Reports	V-2	
DASA-	Defense Atomic Support Agency Reports	V-2	
RFP-TRANS-	Dow Chemical Comp., Rocky Flats, translations	V-2	
GA-	General Atomic Div. Reports	V-2	
GACD-	General Atomic Div. Reports	V-2	
GAMD-	General Atomic Div. Reports	V-2	
GULF-	Gulf Radiation Technology report series	V-2	
GULF-RT-	Gulf Radiation Technology Reports	V-2	
GULF-RT-A-	Gulf Radiation Technology Reports	V-2	
FZK-	General Dynamics Reports	V-2	
NARF-	Nuclear Aerospace Research Facility Reports	V-2	
WL-TR-	General Dynamics, Fort Worth, Techn. Reports	V-2	
APEX-	General Electric, Aircraft Nucl.Prop.Dept.Repts.	V-2	
DC-	General Electric, Aircraft Nucl. Prop. Proj.	V-2	
GEMP-	General Electric, Flight Prop. Lab. Reports	V-2	
APED-	General Electric, Atomic Power Equipm.Dept.Repts	V-2	
GEAP-	General Electric, California Reports	V-2	
NEDO-	General Electric, At.Power Equipm. Dept.	V-2	
HW-	Hanford Reports	V-2	
HW-SA-	Hanford Reports	V-2	
HEDL-TME-	Hanford Engineering Development Lab. Reports	V-2	
TC-	Hanford Engineering Development Lab. Reports	V-2	
HNS-	Hazleton-Nuclear Science Co. Reports	V-2	
HASL-	USAEC Health and Safety Lab, New York Reports	V-2	
IIT-	Illinois Inst.of Technology Reports	V-2	
IITRI-	Illinois Inst.of Technology Reports	V-2	
IS-	Iowa State Univ. Reports	V-2	
IS-T-	Iowa State Univ., thesis	V-2	
SUI-	Iowa State Univ. Reports	V-2	
INTEL-RT-	Intelcom Radiation Technology Reports	V-2	
INTELRT-	Intelcom Radiation Technology reports	V-2	
IRT-	Intelcom Radiation Technology Reports	V-2	

KAPL-	Knolls Atomic Power Lab. report series	V-2	
KAPL-M-	Knolls Atomic Power Lab. Reports	V-2	
KAPL-M-ECH-	Knolls Atomic Power Lab. Reports	V-2	
KAPL-M-EFC-	Knolls Atomic Power Lab. Reports	V-2	
KAPL-M-JBN-	Knolls Atomic Power Lab. Reports	V-2	
KAPL-P-	Knolls Atomic Power Lab. Reports	V-2	
KAPL/CSNL-	Knolls At. Power Lab. Cross-Section Newsletter	V-2	
A-KTY-	Univ.of Kentucky annual report	V-2	
U/KTY-	University of Kentucky Reports	V-2	
LA-	Los Alamos Scientific Lab. Reports	V-2	
LA-DC-	Los Alamos Scientific Lab. Reports	V-2	
LA-TR-	Los Alamos Scientific Lab. translations	V-2	
LA-UR-	Los Alamos Scientific Lab. Reports	V-2	
LADC-	Los Alamos Scientific lab. Reports	V-2	
LAMS-	Los Alamos Scientific Lab. Reports	V-2	
LBL-	Lawrence Berkeley Lab. Reports	V-2	
LMSC-	Lockheed Aircraft Co. Reports	V-2	
LMSD-	Lockheed Aircraft Co. Reports	V-2	
RL-	Lawrence Radiation Lab., Berkeley Reports	V-2	
UCAR-	U.C., Lawrence Livermore Lab., Reports	V-2	
UCID-	U.C., Lawrence Rad.Lab., Reports	V-2	
UCRL-	U.C., Lawrence Rad.Lab. (Berkeley and Livermore	V-2	
UCRL-ID-	U.C., Lawrence Rad.Lab. (Berkeley and Livermore	V-2	
UCRL-TR-	U.C., Lawrence Radiation Lab. translation series	V-2	
UCRL-TRANS-	U.C., Lawrence Radiation Lab. translation	V-2	
UNIV-MI-	University of Michigan Reports	V-2	
MIT-	Massachusetts Inst. of Technology Reports	V-2	
MIT-LNS-PR-	M.I.T. Lab. of Nucl.Science progress report	V-2	
MIT-REP-	Massachusetts Inst. of Technology Reports	V-2	
MIT-TR-	Massachusetts Inst. of Technology Reports	V-2	
MITNE-	M.I.T. Dept.of Nuclear Engineering Reports	V-2	
MLM-	Mound Lab., Miamisburg Reports	V-2	
MNC-	Maryland Univ., Dept. of Nuclear Chem. Reports	V-2	
A-MSU-	Michigan State Univ.Cyclotron Lab., annual rept.	V-2	
IDO-	Philips Petrolium Co., Idaho Falls Reports	V-2	
IN-	Idaho Nuclear Corp. Reports	V-2	
MTR-L-	Idaho Nuclear Corp. Reports	V-2	
PTR-	Phillips Petrolium Co., Idaho Falls Reports	V-2	
N-	N.A.S.A. Reports	V-2	
N70-	*** Code obsolete *** Write N-70-	V-2	O
NASA-	N.A.S.A. Reports, TM = Technical Memo,	V-2	
NASA-TM-	N.A.S.A. Technical Memo	V-2	
NASA-TN-	N.A.S.A. Technical Note	V-2	
NASA-TN-D-	N.A.S.A. Technical Note	V-2	
NASA-TP-	N.A.S.A. Technical Paper	V-2	
NBS-MONO-	National Bureau of Standards Monograph	V-2	
NDL-TR-	U.S. Army Chem.Corps. Nuclear Def. Lab. Reports	V-2	
NISTIR-	N.I.S.T. Report Series	V-2	
USNRDL-	Naval Radiological Def. Lab. Reports	V-2	
USNRDL-TR-	Naval Radiological Def. Lab. Reports	V-2	
NRL-	Naval Research Lab. Reports	V-2	
ORNL-	Oak Ridge National Lab. Reports	V-2	
ORNL-CF-	Oak Ridge National Lab. Central File Memo	V-2	
ORNL-P-	Oak Ridge National Lab. preprint	V-2	
ORNL-TM-	Oak Ridge National Lab. technical memo	V-2	
ORNL-TR-	Oak Ridge National Lab. translation	V-2	

PWAC-	Pratt and Whitney Aircraft Div. Reports	V-2	
PPAR-	Princeton Pennsylvania Accelerator Reports	V-2	
PUC-	Princeton, Palmer Physics Lab. Reports	V-2	
UR-	Univ. of Rochester Reports	V-2	
A-RPI-	R.P.I. annual progress report	V-2	
RPI-	Rensselaer Polytechnic Inst. Reports	V-2	
RPI-PR-	R.P.I. progress report	V-2	
SC-	Sandia Corp., Albuquerque, report series	V-2	
SC-R-	Sandia Corp., Albuquerque Reports	V-2	
SC-RR-	Sandia Corp., Albuquerque Reports	V-2	
SCR-	Sandia Corp. Reports	V-2	
DP-	Du Pont, Savannah River Reports	V-2	
DP-MS-	Du Pont, Savannah River Reports	V-2	
ESL-	Univ. of Texas technical report	V-2	
AEC-TR-	Div. of Tech. Info. U.S. AEC translation	V-2	
AECD-	Div. of Tech. Info. U.S. AEC	V-2	
AECU-	Div. of Tech. Info. U.S. AEC Reports	V-2	
MDDC-	Manhatten District Reports	V-2	
NP-	Div. of Tech. Info. U.S. AEC Reports	V-2	
NP-TR-	Div. of Tech. Info. U.S. AEC translations	V-2	
TID-	Div. of Tech. Info. U.S. AEC Reports	V-2	
TNC-	Texas Nuclear Corp. Reports	V-2	
A-TNL-	Triangle Univ. Nuclear Lab. annual report	V-2	
TUNL-	Triangle Univ. Nuclear Lab. annual report	V-2	
UILU-ENG-	Univ.of Illinois, Dept. of Engin. progress rept.	V-2	
NDA-	United Nuclear Corp. Reports	V-2	
NDA-MEMO-	United Nuclear Corp. Reports	V-2	
NDA-PHYS-	United Nuclear Corp. Reports	V-2	
UNC-	United Nuclear Corp. Reports	V-2	
ACRH-	Argonne Cancer Res. Hospital Reports	V-2	
AFSWC-	Air Force Spec.Weap.Center Kirtland A.F.B.Repts.	V-2	
AFSWC-TDR-	Air Force Spec.Weap.Center Kirtland A.F.B.Repts.	V-2	
AFSWC-TR-	Air Force Spec.Weap.Center Kirtland A.F.B.Repts.	V-2	
AFWL-	Air Force Spec.Weap.Center Kirtland A.F.B.Repts.	V-2	
AFWL-TDR-	Air Force Spec.Weap.Center Kirtland A.F.B.Repts.	V-2	
ASTM-	American Soc. of Testing and Materials, reports	V-2	
ASTM-STP-	American Soc. of Testing and Materials Reports	V-2	
CONF-	Conference proceedings report series	V-2	
COO-	Chicago Operations Office,A.E.C.,Contract rept.	V-2	
CVAC-	Vultee Aircraft Corp. Reports	V-2	
D2-	Boeing Aircraft Reports	V-2	
DNA-	Defense Nuclear Agency Reports	V-2	
DOE-	U.S. Dept.of Energy Reports	V-2	
DOE-ER-	U.S. Dept.of Energy, Fusion Energy Series	V-2	
DOE-NDC-	U.S. D.O.E. Nuclear Data Committee Reports	V-2	
ENDF-	Evaluated Nuclear Data File (ENDF) Reports	V-2	
EPRI-	Electric Power Res. Inst., Palo Alto reports	V-2	
EPRI-NP-	Electric Power Res. Inst., Nuclear Phys. Series	V-2	
ERDA-	U.S. Energy Res. and Development Admin. Reports	V-2	
ERDA-NDC-	U.S. E.R.D.A. Nuclear Data Committee Reports	V-2	
HEW(FDA)-	Public Health Service, F.D.A. Reports	V-2	
ICRU-	Int.Comm.on Radiation Units and Meas. Reports	V-2	
LRL-	Calif. Research and Development Co. Reports	V-2	
MON-N-	Chemistry Division Reports	V-2	
MR-A-	Vultee Aircraft Corp., Ft.Worth Reports	V-2	
NAS-NRC-	Nat. Acad. of Sci., Nat. Res. Council Reports	V-2	

NCSAC-	U.S.AEC Nucl.Cross Sections Advisory Comm. Repts	V-2	
NUREG/CP-	Nuclear Regulatory Commission Reports	V-2	
NYO-	New York Operations Office Reports	V-2	
NYO-GEN72-	New York Operations Office Reports	V-2	
ORO-	Oak Ridge Operations Office, contract report	V-2	
PNE-	U.S. AEC, Peaceful Nuclear Explosions series	V-2	
RFP-	Dow Chemical Company, Rocky Flats Div. Reports	V-2	
RLO-	U.S. AEC Reports	V-2	
RPC-	Radioplane Co., Van Nuys, California Reports	V-2	
UMO-	University Microfilms Order Number	V-2	
USNDC-	Report to the U.S. Nuclear Data Comm.	V-2	
WASH-	Washington AEC Office Reports	V-2	
XDC-	General Electric Corp., Cincinnati Reports	V-2	
WADC-	Wright Air Devel. Centre report series	V-2	
WADC-TN-	Wright Air Devel. Centre Reports	V-2	
WADC-TR-	Wright Air Devel. Centre Reports	V-2	
WADD-TR-	Wright Air Devel. Centre Reports	V-2	
WANL-	Westinghouse Astro-Nuclear Lab. reports	V-2	
WANL-TME-	Westinghouse Astro-Nuclear Lab. Reports	V-2	
WAPD-	Westinghouse Atomic Power Div.(Bettis) reports	V-2	
WAPD-BT-	Westinghouse Atomic Power Div.(Bettis) Reports	V-2	
WAPD-T-	Westinghouse Atomic Power Div.(Bettis) Reports	V-2	
WAPD-TM-	Westinghouse Atomic Power Div.(Bettis) Reports	V-2	
WAPD-TRANS-	Westinghouse Atomic Power Div.(Bettis) Reports	V-2	
A-WAU-	Univ.of Washington, Seattle, annual report	V-2	
WCAP-	Westinghouse Atomic Power Div.(Pittsburgh) Repts	V-2	
WARD-	Westinghouse Advanced Reactors Division Reports	V-2	
UWFDM-	Univ.Wisconsin Fusion Engineering Program Repts	V-2	
TNCC(CAN)-	Tripartite Nucl. Cross Sections Comm. Reports	V-2	
TNCC(UK)-	Tripartite Nucl. Cross Sections Comm. Reports	V-2	
TNCC(US)-	Tripartite Nucl Cross Sections Comm. Reports	V-2	
TNCC-	Tripartite Nucl. Cross Sections Comm. Reports	V-2	
OAWS-	Expansion unknown	V-2	O
IRK-PR-	Inst. f. Radiumforschung Progress Report	V-2	
SGAE-	Oesterr. Studienges. f. Atomenergie reports	V-2	
SGAE-PH-	Oesterr.Studienges.f.Atomen.,Physikinst., Repts	V-2	
BLG-	Centre d'Etude de l'Energie Nucl.,Bruxelles,Rept	V-2	
RISO-	RISO Research Institute report series	V-2	
RISO-M-	RISO Research Institute Reports	V-2	
BIPM-	Bureau Int. des Poids et Mesures Reports	V-2	
CEN(BG)-	C.E.N. Bordeaux-Gradignan Reports	V-2	
PNR-	Cadarache Reports	V-2	
PNR/SETR-	Cadarache Reports	V-2	
PNR/SETR-R-	Cadarache Reports	V-2	
A-CSN-	C.S.N.S.M., Orsay Reports	V-2	
EDF-	Electricite de France Reports	V-2	
EDF-HX-	Electricite de France Reports	V-2	
CEA-CONF-	Commissariat a l'Energie Atomique, Conf.reports	V-2	
FRNC-TH-	French non CEA Reports	V-2	
ISN-	U. de Grenoble, Inst. des Sciences Nucl. reports	V-2	
ISN-TS-	U. de Grenoble, Inst. des Sciences Nucl. reports	V-2	
SAR-G-	C.E.A. Grenoble Reports	V-2	
LYCEN-	Univ. of Lyon Reports	V-2	
IPNO-	Inst. de Phys. Nucleaire Orsay reports	V-2	
IPNO-PHN-	Inst. de Phys. Nucleaire Orsay Progress Report	V-2	
IPNO-RC-	Inst. de Phys. Nucleaire Orsay Reports	V-2	

IPNO-TH-	Inst. de Physique Nucleaire Orsay thesis	V-2	
LPC-	Lab. de Physique Corpusculaire Reports	V-2	
LPC-T-	Lab. de Physique Corpusculaire thesis	V-2	
CEA-	Centre d'Etudes Nucleaires report series	V-2	
CEA-N-	Centre d'Etudes Nucleaires, Saclay, note	V-2	
CEA-R-	Centre d'Etudes Nucleaires, Saclay Reports	V-2	
CEA-SMNF-	Centre d'Etudes Nucleaires, Saclay Reports	V-2	
HMI-	Hahn-Meitner Inst., Berlin report series	V-2	
HMI-B-	Hahn-Meitner Inst., Berlin Reports	V-2	
IKF-	Inst.fuer Kernphysik, Frankfurt Reports	V-2	
BMWF-FBK-	Bundesmin.f.Wiss.Forschg. Reports	V-2	
ZAED-M-	Zentralstelle fuer Atomkernenergie-Dokum.	V-2	
GSI-	Gesellschaft fuer Schwerionenforschung Reports	V-2	
GSI-J-	Gesellschaft fuer Schwerionenforschung Reports	V-2	
HH-	Hamburg Univ.,Inst.f.Experimentalphysik Reports	V-2	
FIZ-KA-	Fachinformationszentrum Karlsruhe Reports	V-2	
JUEL-	Kernforschungsanlage, Juelich, report series	V-2	
JUEL-SPEZ-	Kernforschungsanlage Juelich, Progress Report	V-2	
ARB.BER-	Kernforschungszentrum Karlsruhe Reports	V-2	
FZKA-	Forschungszentrum Karlsruhe Reports	V-2	
KFK-	Kernforschungszentrum Karlsruhe Reports	V-2	
KFK-EXT-	Kernforschungszentrum Karlsruhe Reports	V-2	
KFK-TR-	Kernforschungszentrum Karlsruhe translation ser.	V-2	
PSB-BER-	Kernforschungszentrum Karlsruhe preprint	V-2	
GKSS-	Ges.Kernen.-Verwertung, Schiffbau and Schiffahrt	V-2	
MAINZ-	Mainz Univ. Reports	V-2	
FRM-	Forschungs Reactor Muenchen Reports	V-2	
PTUM-E-	Techn. Univ. Muenchen Reports	V-2	
BLM-JB-	Beschleunigerlab. Univ. Muenchen annual report	V-2	
PTB-	P.T.B., Braunschweig, reports	V-2	
PTB-FMRB-	P.T.B., Braunschweig Reports	V-2	
PTB-N-	Phys.Techn.Bundesanst., Neutronenphysik Reports	V-2	
IKDA-	Inst. f. Kernphysik,Darmstadt Reports	V-2	
IKE-	Stuttgart u. Inst. f. Kernenergetik Reports	V-2	
ZFK-	Zentralinst. f. Kernforschung Rossendorf Reports	V-2	
CEC-	Centro di Calcolo, CNEN, Bologna Reports	V-2	
RT/TIB-	ENEA Dipart.Technol.Interessettor.di Base Repts	V-2	
CISE-	Centre Inform. Studi Esp. Reports	V-2	
INFN/BE-	Inst. Naz. Fisica Nucleare Reports	V-2	
CNEN-RT/FI-	Com.Naz. per l'Energia Nucleare Reports	V-2	
ENEA/RT/IN-	E.N.E.A., Area Innovazione Reports	V-2	
ENEA/RT/NU-	E.N.E.A., Area Nucleare Reports	V-2	
RT/FI-	Comitate Nazionale per l'En. Nuc. Fiz. Reports	V-2	
RT/FIMA-	Comitate Nazionale per l'En.Nuc.Fiz.Mat.Repts.	V-2	
TIB/FICS-	ENEA Dpmt. TIB / FICS Reports	V-2	
A-PAD-	Padua Univ. and Lab. Naz. Legnaro annual report	V-2	
JAERI-	JAERI Reports	V-2	
JAERI-C-	JAERI Conference proceedings	V-2	
JAERI-D-	JAERI Data collection / Computer code reports	V-2	
JAERI-M-	JAERI-M Reports	V-2	
JAERI-MEMO-	JAERI-Memo Reports	V-2	
JAERI-R-	JAERI Research Reports	V-2	
A-JCL-	Cyclotron Lab., I.P.C.R., Saitama Reports	V-2	
KURRI-	Kyoto Univ.,Res.Reactor Inst. Reports	V-2	
KURRI-AR-	Kyoto Univ.,Res.Reactor Inst., Annual Report	V-2	
KURRI-TR-	Kyoto-Univ.,Res.Reactor Inst., Tech. Report	V-2	

A-RCNP-	Res. Centre for Nucl. Phys., Osaka, annual rept.	V-2	
OKTAV-A-	Osaka Univ. Reports	V-2	
OKTAV-C-	Osaka Univ. Reports	V-2	
NETU-	Internal Tohoku Univ. Reports	V-2	
A-INS-	Univ.Tokyo,Inst.f.Nucl.Study, Annual Report	V-2	
ECN-	Energy Research Foundation,Petten Reports	V-2	
ECN-C-	Energy Research Foundation,Petten Reports	V-2	
ECN-R-	Energy Research Foundation,Petten Reports	V-2	
ECN-RX-	Energy Research Foundation,Petten Reports	V-2	
RCN-	Reactor Cent. Nederland, Petten Reports	V-2	
BUP-	Bergen Univ. Dept. of Physics Reports	V-2	
JENER-	Joint Establ. Nucl. Res., Kjeller Reports	V-2	
KR-	Inst. for Atomenergi, Kjeller Reports	V-2	
ABO-ANN-	Abo Akademi Annual Reports	V-2	
JU-RR-	Univ. of Jyvaeskylae, Dept.of Physics Reports	V-2	
SFL-A-	Sateilyfysiikan Laitos-Radiofys. Inst. Reports	V-2	
JEN-	Junta de Energia Nuclear Reports	V-2	
MF-	Junta Energia Nuclear, Madrid Reports	V-2	
AE-	Aktiebolaget Atomenergi,Stockholm/Studsvik Repts	V-2	
AE-FFN-	Aktiebolaget Atomenergi, Stockholm Reports	V-2	
AE-FN-	Aktiebolaget Atomenergi, Stockholm,internal rpt.	V-2	
AES-	Aktiebolaget Atomenergi, Studsvik, Reports	V-2	
RFA-	Aktiebolaget Atomenergi, Stockholm Reports	V-2	
RFR-	Aktiebolaget Atomenergi, Stockholm Reports	V-2	
S-	Aktiebolaget Atomenergi, Stockholm, prog. rept.	V-2	
CTH-RF-	Chalmers Univ. of Technol., Gothenburg Reports	V-2	
FOA4-	Res. Inst. National Defence Dept. 4 reports	V-2	
FOA4-A-	Res. Inst. National Defence Dept. 4A Reports	V-2	
FOA4-C-	Res. Inst. National Defence Dept. 4C Reports	V-2	
A-IPS-	Res. Inst. of Phys., Stockholm Annual Rept.	V-2	
LU-NP-	Lund Univ. Reports	V-2	
LUNF-D6-	Lund Univ., Nuclear Physics Series	V-2	
KDK-	Swedish Nuclear Data Committee Reports	V-2	
LFF-	Swedish Reports	V-2	
NFL-	Studsvik Science Res. Lab. Reports	V-2	
STUDSVIK-	Studsvik Science Res. Lab. Reports	V-2	
TLU-	Uppsala Univ. Tandem Lab. Reports	V-2	
UPP-	Uppsala Univ. Annual Report	V-2	
UU-NP-	Uppsala Univ., Neutron Physics Lab. Reports	V-2	
IPF-SP-	Inst.de Phys., U. de Fribourg, Physics Series	V-2	
EIR-	Eidg.Inst.Reaktorforsch.Wuerenlingen Reports	V-2	
CNAEM-	Cekmece Nuclear Res. and Training Centre Reports	V-2	
ACO/UK-	Aldermaston Reports	V-2	
AKO-UK-	Aldermaston Internal Report	V-2	
AWRE-	A.W.R.E. Aldermaston report series	V-2	
AWRE-CNR/PR	A.W.R.E. Aldermaston Reports	V-2	
AWRE-NR/C-	A.W.R.E. Aldermaston Reports	V-2	
AWRE-NR/P-	A.W.R.E. Aldermaston Reports	V-2	
AWRE-O-	A.W.R.E. Aldermaston Reports	V-2	
NR/P-	U.K.AEA Weapons Group,A.W.R.E. Aldermaston Rept.	V-2	
BR-	Cavendish Lab. Reports	V-2	
RD/B/M-	Central Electricity Generating Board Reports	V-2	
RD/B/N-	Central Electricity Generating Board Reports	V-2	
AERE-	A.E.R.E. Harwell report series	V-2	
AERE-C/R-	A.E.R.E. Harwell Reports	V-2	
AERE-I/R-	A.E.R.E. Harwell Reports	V-2	

AERE-M-	A.E.R.E. Harwell Reports	V-2	
AERE-N/M-	A.E.R.E. Harwell Reports	V-2	
AERE-N/R-	A.E.R.E. Harwell Reports	V-2	
AERE-NP/GEN	A.E.R.E. Harwell Reports	V-2	
AERE-NP/M-	A.E.R.E. Harwell Reports	V-2	
AERE-NP/R-	A.E.R.E. Harwell Reports	V-2	
AERE-PR/NP-	A.E.R.E. Harwell Reports	V-2	
AERE-R-	A.E.R.E. Harwell Reports	V-2	
AERE-R/M-	A.E.R.E. Harwell Reports	V-2	
AERE-R/R-	A.E.R.E. Harwell Reports	V-2	
AERE-RP/R-	A.E.R.E. Harwell Reports	V-2	
AERE-TRANS-	A.E.R.E. Harwell translations	V-2	
AERE-X/PR-	A.E.R.E. Harwell Reports	V-2	
NRDC-	A.E.R.E. Harwell Reports	V-2	
NRPB-	National Radiol. Prot. Board Reports	V-2	
NRPB-M-	National Radiol. Prot. Board Reports	V-2	
NRPB-R-	National Radiol. Prot. Board Reports	V-2	
AHSB(S)R-	U.K. AEA Health and Safety Branch Risley Reports	V-2	
UKNDC-	Progress report from U.K. Nuclear Data Comm.	V-2	
UKNDC-P-	Progress report from U.K.N.D.C.	V-2	
AEA-TRS-	AEA Technol.Winfrith, Thermal Reactor Serv.,rpt.	V-2	
AEEW-	A.E.E.W. Winfrith report series	V-2	
AEEW-M-	A.E.E.W. Winfrith Reports	V-2	
AEEW-R-	A.E.E.W. Winfrith Reports	V-2	
CERN-	CERN Europ. Org. for Nuclear Res. Reports	V-2	
IRMM-	Inst. of Ref.Materials and Meas. Repts., Geel	V-2	
IRMM-R-	Inst. of Ref.Materials and Meas. Repts., Geel	V-2	
EUR-	Euratom Reports	V-2	
CCDN-	C.C.D.N. Saclay report series	V-2	
CCDN-CI-	C.C.D.N. Saclay Reports	V-2	
CCDN-NW-	C.C.D.N. Saclay Newsletters	V-2	
EANDC(CAN)-	Canadian report to EANDC	V-2	
EANDC(E)-	Report from Euratom-countries + Euratom to EANDC	V-2	
EANDC(J)-	Japanese report to EANDC	V-2	
EANDC(OR)-	Report from misc. OECD Countries to EANDC	V-2	
EANDC(UK)-	U.K. report to EANDC	V-2	
EANDC(US)-	U.S. report to EANDC	V-2	
EANDC-	European-American Nucl. Data Committee Documents	V-2	
NEA-NSC-	NEA Nuclear Science Committee Reports	V-2	
NEACRP-L-	NEA internal report NEANDC(E)-NEACRP-L	V-2	
NEANDC(CAN)	Canadian report to NEANDC	V-2	
NEANDC(E)-	Report from CEC-Countries and CEC to NEANDC	V-2	
NEANDC(J)-	Japanese report to NEANDC	V-2	
NEANDC(OR)-	Report from misc. OECD countries to NEANDC	V-2	
NEANDC(UK)-	U.K. report to NEANDC	V-2	
NEANDC(US)-	U.S. report to NEANDC	V-2	
NEANDC-	Nucl. En. Agency Nucl. Data Committee reports	V-2	
CNEA-	Comision Nacional de Energia Atomica report ser.	V-2	
CNEA-CAB-	Centro Atomico Bariloche, internal report	V-2	
CNEA-CAB-IT	Centro Atomico Bariloche, internal report	V-2	
LR-	Inst. Investigacion Aeronautica y Esp, Reports	V-2	
AAEC/	Australian AEC reports	V-2	
AAEC/AP/PR-	Australian AEC Applied Phys.Div. Prog. Report	V-2	
AAEC/E-	Australian AEC Reports	V-2	
AAEC/PD/PR-	Australian AEC Physics Div. Progress Report	V-2	
AAEC/PR-	Australian AEC Progress report	V-2	

AAEC/TM-	Australian AEC Technical Memo	V-2	
LIB/TRAN-	Australia Translation	V-2	
LIB/TRANS-	Australia Translation	V-2	
ANU-	Australian National Univ., Canberra Reports	V-2	
ANU-P-	Australian National Univ., Canberra Reports	V-2	
AECD/	Atomic Energy Centre, Dhaka Reports	V-2	
AECD/EP-	Atomic Energy Centre, Dhaka Reports	V-2	
AECD/MISC-	Atomic Energy Centre, Dhaka Progress Report	V-2	
AECD/TP-	Atomic Energy Centre, Dhaka Reports	V-2	
IEAV/NT-	Inst. de Estudos Avancados, Technical Note	V-2	
IEA-	Inst. de Energia Atomica, Sao Paulo, Reports	V-2	
IEA-INF-	Inst. de Energia Atomica, Sao Paulo, prog. rept.	V-2	
IPEN-	Inst.de Pesquisas Energ.e Nucl.,Sao Paulo,Repts	V-2	
CCEN-	Comun.do Centro de Energia Nuclear,Recife,Repts.	V-2	
IFUSP/P-	Univ. of Sao Paulo, Inst.of Phys. Reports	V-2	
INER-	Inst. of Nucl.Energy Research Reports	V-2	
IAN-	Inst. de Asuntos Nucleares, Bogota, reports	V-2	
IAN-E-	Inst. de Asuntos Nucleares, Bogota Reports	V-2	
A-AEP-	Inst. of Atomic Energy, Beijing, Annual Report	V-2	
HSJ-	Inst. of Atomic Energy, Beijing Reports	V-2	
A-BNT-	Beijing Nat. Tandem Accel. Lab., Prog. Report	V-2	
CNIC-	China Nucl. Information Center Reports	V-2	
NST-	Inst.of Nucl.Sci.and Technol.,Sichuan U. Reports	V-2	
LNS-	Inst. Rudjer Boskovic Reports	V-2	
IPPCZ-	Czechoslovak A.S. Plasma Physics Reports, Prague	V-2	
UJF-	Ustav Jad. Fyziky (Inst.Nucl.Phys.) Reports	V-2	
UJV-	Ustav Jad. Vyzkumu (Inst Nucl res), Reports	V-2	
ZFK-DOS-	Zentralinst. f. Kernforschung Rossendorf Reports	V-2	
ZFK-PHA-	Zentralinst. f. Kernforschung Rossendorf Reports	V-2	
ZFK-RCH-	Zentralinst. f. Kernforschung Rossendorf Reports	V-2	
ZFK-RN-	Zentralinst. f. Kernforschung Rossendorf Reports	V-2	
ZFK-TPH-	Zentralinst. f. Kernforschung Rossendorf Reports	V-2	
ZFK-WF-	Zentralinst. f. Kernforschung Rossendorf Reports	V-2	
TU-	Technische Univ. Dresden, Reports	V-2	
AREAEE-	Atomic Energy Establishment Reports	V-2	
UARAEE-	Atomic Energy Establishment Reports	V-2	
ATOMKI-AR-	Atomki Annual Reports	V-2	
KFKI-	Central Research Inst. of Physics Reports	V-2	
KFKI-YB-	KFKI Yearbook (progress-report	V-2	
RRC-	Reactor Research Center Kalpakkam Reports	V-2	
AEET-	Atomic Energy Est. Trombay Reports	V-2	
AEET-ANAL-	Trombay Reports	V-2	
AEET-NP-	Trombay Reports	V-2	
BARC-	B.A.R.C., Trombay report series	V-2	
BARC/I-	B.A.R.C., Trombay Reports	V-2	
NRITB-	Nuclear Res. Inst., Tuwaitha, Baghdad, reports	V-2	
NRITB-PH-	Nuclear Res. Inst., Tuwaitha, Baghdad, Reports	V-2	
TNSD-P-	Technion Nuclear Science Dept. Reports	V-2	
TNSD-R-	Technion Nuclear Science Dept. Reports	V-2	
IA-	Israel AEC Reports	V-2	
NRCN-	Beersheva Nuclear Res. Center Negev Reports	V-2	
LS-	Soreq Nuclear Research Center Reports	V-2	
KAERI/GP-	Korean Atomic Energy Research Inst. Reports	V-2	
AIF-	Expansion unknown	V-2	O
MOH-	Univ. Mohammed V, Rabat, Annual Report	V-2	
INS-	Inst.of Nuclear Sciences, Progress Reports	V-2	

AEC(NZ)-	New Zealand A.E.C. Reports	V-2	
NPD-	Expansion unknown	V-2	O
PINST-	Pakistan Inst. Nucl. Sci. Tech. Reports	V-2	
PINST-NPD-	Pakistan Inst.Nuc.Sci.Tech.,Nucl.Phys.Div.Repts	V-2	
PINST-RT-	Pakistan Inst. Nucl. Sci. Tech. Reports	V-2	
IBJ-	Expansion unknown	V-2	O
INR-	Inst.Badan Jadr.(Nucl.Res.),Swierk+Warsaw,Repts	V-2	
INR-FIA-	Inst. Badan Jadr., Swierk+Warsaw Reports	V-2	
IFJ-	Expansion unknown	V-2	O
INP-	Inst. Fiz. Jadr. (Nucl.Phys.), Krakow Reports	V-2	
CLOR-	Biuro Pelnom. Rzadu do Spraw Wykorzyst. En. Jad.	V-2	
PAN-	Polish Academy of Sciences Reports	V-2	O
IFA-	Inst. Fis. Atomica, Romanian Acad. Sci. reports	V-2	
IFA-CRD-	Inst. Fis. Atomica, Romanian Acad. Sci. Reports	V-2	
IFA-DNBR-	Inst. Fis. Atomica, Romanian Acad. Sci. Reports	V-2	
IFA-DNR-	Inst. Fis. Atomica, Romanian Acad. Sci. Reports	V-2	
IFA-EP-	Inst. Fis. Atomica, Romanian Acad. Sci. Reports	V-2	
IFA-FN-	Inst. Fis. Atomica, Romanian Acad. Sci. Reports	V-2	
IFA-FR-	Inst. Fis. Atomica, Romanian Acad. Sci. Reports	V-2	
IFA-NF-	Inst. Fis. Atomica, Romanian Acad. Sci. Reports	V-2	
IFA-NR-	Inst. Fis. Atomica, Romanian Acad. Sci. Reports	V-2	
IFA-R-	Inst. Fis. Atomica, Romanian Acad. Sci. Reports	V-2	
IFA-RN-	Inst. Fis. Atomica, Romanian Acad. Sci. Reports	V-2	
IFIN-NR-	Inst. de Fiz. si Ing.Nucleara,Bucharest Reports	V-2	
IRNE-	Inst. Nuclear Power Reactors Reports	V-2	
PEL-	Atomic Energy Board, Pelindaba Reports	V-2	
CSIR-FIS-	Council f.Scient.and Indust.Res.,Pretoria,Repts.	V-2	
SUNI-	Southern Universities Nuclear Inst. Reports	V-2	
IJS-	Inst. Jozef Stefan, Ljubljana, reports	V-2	
IJS-P-	Inst. Jozef Stefan, Ljubljana Reports	V-2	
IJS-R-	Inst. Jozef Stefan, Ljubljana Reports	V-2	
NIJS-	Inst. Josef Stefan, Ljubljana, report series	V-2	
NIJS-P-	Inst. Josef Stefan, Ljubljana Reports	V-2	
NIJS-R-	Inst. Josef Stefan, Ljubljana Reports	V-2	
THAI-AEC-	Atomic Energy for Peace, Bangkok Reports	V-2	
IBK-	Inst. Boris Kidrich Reports	V-2	
IAEA-	I.A.E.A. technical report, Vienna	V-2	
IAEA-NDS-	Nuclear Data Services (Doc. series of NDS	V-2	
IAEA-R-	I.A.E.A. Research Contract Report	V-2	
IAEA-SM-	I.A.E.A. Symposium Collection -extended synopses	V-2	
IAEA-TECDOC	I.A.E.A. Technical Documents	V-2	
IAEA/	I.A.E.A., Vienna, report series	V-2	
IAEA/RL-	I.A.E.A. Div. of Res. + Labs Reports	V-2	
IAEA/TA-	I.A.E.A. Technical Assistance Reports	V-2	
INDC(ARG)-	Argentine report to the I.N.D.C.	V-2	
INDC(AUL)-	Australian report to the I.N.D.C.	V-2	
INDC(AUS)-	Austrian report to the I.N.D.C.	V-2	
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INDC(BLR)-	Belorus report to the I.N.D.C.	V-2	
INDC(BOL)-	Bolivian report to the I.N.D.C.	V-2	
INDC(BUL)-	Bulgarian report to the I.N.D.C.	V-2	
INDC(BZL)-	Brazilian report to the I.N.D.C.	V-2	
INDC(CAN)-	Canadian report to the I.N.D.C.	V-2	
INDC(CCP)-	USSR report to the I.N.D.C.	V-2	
INDC(CHL)-	Chile report to the I.N.D.C.	V-2	

INDC(CPR)-	Chinese report to the I.N.D.C.	V-2	
INDC(CSR)-	CSSR report to the I.N.D.C.	V-2	
INDC(CUB)-	Cuban report to the I.N.D.C.	V-2	
INDC(EGY)-	Egyptian report to the I.N.D.C.	V-2	
INDC(EUR)-	Comm. of the European Commun. report to I.N.D.C.	V-2	
INDC(FIN)-	Finnish report to the I.N.D.C.	V-2	
INDC(FR)-	French report to the I.N.D.C.	V-2	
INDC(GDR)-	Germ.Dem.Rep.report to the I.N.D.C.	V-2	
INDC(GER)-	Fed.Rep.Germ.report to the I.N.D.C.	V-2	
INDC(HUN)-	Hungarian report to the I.N.D.C.	V-2	
INDC(IND)-	Indian report to the I.N.D.C.	V-2	
INDC(IRN)-	Iran report to the I.N.D.C.	V-2	
INDC(IRQ)-	Iraq report to the I.N.D.C.	V-2	
INDC(ISL)-	Israel report to the I.N.D.C.	V-2	
INDC(ITY)-	Italian report to the I.N.D.C.	V-2	
INDC(JAP)-	Japanese report to the I.N.D.C.	V-2	
INDC(JPN)-	Japanese report to the I.N.D.C.	V-2	
INDC(KOR)-	Korean report to the I.N.D.C.	V-2	
INDC(MOR)-	Morocco report to the I.N.D.C.	V-2	
INDC(NDS)-	IAEA Nucl.Data Section report to the I.N.D.C.	V-2	
INDC(NDU)-	IAEA Nucl.Data Section report to the I.N.D.C.	V-2	
INDC(NED)-	Netherlands report to the I.N.D.C.	V-2	
INDC(NOR)-	Norwegian report to the I.N.D.C.	V-2	
INDC(PAK)-	Pakistan report to the I.N.D.C.	V-2	
INDC(POL)-	Polish report to the I.N.D.C.	V-2	
INDC(ROM)-	Romanian report to the I.N.D.C.	V-2	
INDC(RUM)-	Romanian report to the I.N.D.C.	V-2	
INDC(SAF)-	South-African report to the I.N.D.C.	V-2	
INDC(SEC)-	I.N.D.C. Sercretariat Report Series	V-2	
INDC(SLK)-	Slovakian report to the I.N.D.C.	V-2	
INDC(SLN)-	Slovenian report to the I.N.D.C.	V-2	
INDC(SUD)-	Sudanese report to the I.N.D.C.	V-2	
INDC(SWD)-	Swedish report to the I.N.D.C.	V-2	
INDC(TAI)-	Thailand report to the I.N.D.C.	V-2	
INDC(TUR)-	Turkish report to the I.N.D.C.	V-2	
INDC(UK)-	U.K. report to the I.N.D.C.	V-2	
INDC(UKR)-	Ukrainian report to the I.N.D.C.	V-2	
INDC(US)-	Expansion unknown	V-2	O
INDC(USA)-	U.S. report to the I.N.D.C.	V-2	
INDC(VN)-	Vietnam report to the I.N.D.C.	V-2	
INDC(YUG)-	Yugoslavian report to the I.N.D.C.	V-2	
INDC-	International Nucl. Data Committee report series	V-2	
INDSWG-	Int. Nuclear Data Sci. Working Group Reports	V-2	
INIS-MF-	INIS microfiche	V-2	
INIS-SU-	INIS Reports	V-2	
STI/DOC/10-	I.A.E.A. Technical Document Series	V-2	
STI/PUB-	I.A.E.A. Publications	V-2	
STI/PUB/15-	I.A.E.A. Review Series (1959-1962	V-2	
STI/PUB/21-	I.A.E.A. Bibliographical Series	V-2	
EFI-	Erevanskij Fisicheskij Institut Reports	V-2	
IJE-	Inst. of Nucl. Energetics, Bjelorus. Acad. Sci.	V-2	
TMO-	Inst.Teplo-Massoobmena Bjeloruss.Acad.Sci.Repts	V-2	
IAN/E-	Izvestia Estonian Akad.Nauk, Reports	V-2	
IYFK-P-	Inst. Nucl.Phys., Alma-Ata, preprints	V-2	
LAFI-	Inst. Fiziki Latvijskoi Akad. Sci., Riga Reports	V-2	
ICD-	Bull. Centr po Jadernym Dannym, Obninsk	V-2	

YK-	Yadernye Konstanty	V-2	
EPA-	Exp.Physics Inst. Arzamas Reports	V-2	
FEI-	Fiz.-Energ Institut, Obninsk Reports	V-2	
YFI-	Yaderno-Fizicheskie Issledovaniya Reports	V-2	
FTI-	Fiz-Tech. Inst. Ioffe, Leningrad Reports	V-2	
ITE-	Inst. Teoret. i Experiment. Fiziki, Moscow Repts	V-2	O
ITEF-	Inst. Teoret. i Experiment. Fiziki, Moscow Repts	V-2	
IAE-	Inst. Atomnoy Energii, Kurchatov Reports	V-2	
KUR-		V-2	
FIAN-	Fiz. Inst. Akad. Nauk Lebedev, Moscow Reports	V-2	
BCDL-	Bull. Centro Dannykh LIYAF, Leningrad-Gatchina	V-2	
LIJAF-	Leningrad Inst. Nucl. Phys. Reports	V-2	
MIF-	Moscow Inst. of Engineering Physics Reports	V-2	
CDFE-	Fotoyadernye Dannye (Photonuclear Data	V-2	
CDFE-IND-	Fotoyadernye Dannye (Photonuclear Data) Index	V-2	
CDFE-IND2-	Photonuclear Data Index (Photofission	V-2	
MSU-INP-	Moscow State Univ.Inst.of Nucl.Phys.Reports	V-2	
NIIAR-	Inst. Atomnykh Reaktorov, Melekess Reports	V-2	
NIIAR-P1-	Inst. Atomnykh Reaktorov, Melekess Reports	V-2	
RI-	Khlopin Radiev. Inst., Leningrad Reports	V-2	
IFVE-	Inst. Fiz. Vysokikh Energij, Serpukhov Reports	V-2	
ISTC-	Internat.Science and Technology Center, Reports	V-2	
SIB-	Inst. Jad. Fiz., Novosibirsk Reports	V-2	
IF-	Akad. Nauk Ukrainskaja, Kiev	V-2	
IJAI-	Inst. Yad. Issledovanii Communications,Kiev	V-2	
IJAI-P-	Inst. Yad. Issledovanii, Kiev Reports	V-2	
KIYAI-	Inst. Yad. Issledovanii, Kiev Reports	V-2	
KHFTI-	Ukrainsk. Fiz. Tekhn. Inst. Reports	V-2	
UFT-	Ukrainskij Fiz. Tech. Inst. Reports	V-2	O
UZB-P-	Inst.of Nucl.Phys., Tashkent, Uzbekistan, Repts	V-2	
DUB-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	O
DUB-E-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	O
DUB-P-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	O
JINR-	Joint Inst. for Nucl. Res., Dubna, reports	V-2	
JINR-D-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
JINR-D15-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
JINR-D3-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
JINR-D6-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
JINR-D7-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
JINR-E-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
JINR-E1-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
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JINR-E7-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
JINR-P-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
JINR-P1-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
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JINR-P12-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
JINR-P13-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
JINR-P14-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
JINR-P15-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
JINR-P2-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
JINR-P3-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
JINR-P4-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	

JINR-P6-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
JINR-P7-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	
P3-	Joint Inst. for Nucl. Res., Dubna Reports	V-2	O
55ANS	Nuclear Sci.and Engineering Congress, Cleveland 1	V-2	
55GENEVA	1st UN Conf.Peaceful Uses Atomic Energy, Geneva 1	V-2	
55MOSCOW	USSR Conf. Peaceful Uses of At. En., Moscow 1955	V-2	
56AMSTERDM	Conf. on Nuclear Reactions., Amsterdam 1956	V-2	O
56BNL	Resonance Absorption Conf., Brookhaven 1956	V-2	O
56KIEV	Kiev Conf., Kiev 1956	V-2	
57ANS	American Nuclear Society Meeting, New York 1957	V-2	
57COLUMBIA	Columbia Conf., New York 1957	V-2	O
57PARIS	Radioisotopes in Scient.Res., UNESCO, Paris 1957	V-2	
58BERKELEY	Application of Pulsed Neutron Source Techniques S	V-2	O
58GENEVA	Second Internat. At.En. Conf., Geneva 1958	V-2	
58PARIS	Nucl. Phys. Congress, Paris 1958	V-2	
59ANL	Physics of Breeding Conf	V-2	O
59CALCUTTA	Low Energy Nuclear Physics Symp., Calcutta 1959	V-2	
59LONDON	Conf.Nucl.Forces and Few-Nucleon Probl.,London 19	V-2	
59TASHKENT	Peaceful Uses of At. En. Conf., Tashkent 1959	V-2	
59VIENNA	Panel on Heavy Water Lattices, Vienna 1959	V-2	
60BASEL	Conf.on Polariz.Phenom.in Nucl.React.,Basel 1960	V-2	
60KINGSTON	Nuclear Structure Conf., Kingston 1960	V-2	
60LONDON	Conf.Nucl.Forces and Few-Nucleon Probl.,London 19	V-2	O
60SVIENNA	Radiation Dosimetry Symp., Vienna, 1960	V-2	
60VIENNA	Pile Neutron Research Symp., Vienna 1960	V-2	
60WALTAIR	Low Energy Nuclear Physics Symp., Waltair 1960	V-2	
60WIEN	Neutron Inelastic Scattering Symp., Vienna 1960	V-2	
61BOMBAY	Nuclear Physics Symp., Bombay 1961	V-2	
61BRUSSELS	Neutron Time-of-Flight Colloquium, Brussels 1961	V-2	
61BUCHAR	Research Reactors Conf., Bucuresti,1961	V-2	
61DUBNA	Slow Neutron Physics Conf., Dubna 1961	V-2	
61MANCH	Rutherford Conf., Manchester 1961	V-2	
61RPI	Neutron Physics Symp., Rensselaer Polytech 1961	V-2	
61SACLAY	Time of Flight Methods Conf., Saclay 1961	V-2	
61VIENNA	Reactor Physics Sem., Vienna 1961	V-2	
61WIEN	Programming and Utiliz.of Res.Reactors Symp.Wien,	V-2	
62BNL	Neutron Thermalization Conf., Brookhaven 1962	V-2	O
62CHALKR	Neutron Inelastic Scattering Symp., Chalk River 1	V-2	
62HARWELL	Neutron Dosimetry Symp., Harwell 1962	V-2	
62LOSANG	Radiation Effects Symp., Los Angeles 1962	V-2	
62MADRAS	Nuclear Physics Symp., Madras 1962	V-2	
62MEXICO	Peaceful Appl.of Nucl.En.Symp., Mexico City 1962	V-2	
62PADUA	Nucl. Reaction Mechanisms Conf., Padua 1962	V-2	
62TRIESTE	Theoretical Physics Lectures, Trieste 1962	V-2	
62WIEN	Light Water Lattices Panel, Vienna 1962	V-2	
63ADAM	Expon. and Critical Expts.Symp., Amsterdam 1963	V-2	
63ANL	Nucl.Physics with Reactor Neutrons Conf.,Argonne	V-2	O
63BOMBAY	Nucl.and Sol.State Physics Symp., Bombay 1963	V-2	
63GATLNB	Conf.on Compound Nuclear States,Gatlinburg 1963	V-2	
63HOUSTON	Fast Neutron Physics Conf., Houston 1963	V-2	
63KRLSRH	Neutron Physics Conf., Karlsruhe 1963	V-2	
63MANCHST	Nuclear Physics Conf., Manchester 1963	V-2	
63OXFORD	Neutron Flux Detection Symp., Oxford 1963	V-2	O
63SPAULO	Research Reactor Utilisation Symp., Sao Paulo 196	V-2	
64ATHENS	Crystal Diffraction of Nucl.Gamma Rays, Athens,19	V-2	
64BOMBAY	Neutron Inelastic Scatt.Symp., Bombay 1964	V-2	

64CHANDGRH	Nuclear and Solid State Phys.Symp., Chandigarh 19	V-2	
64DUBNA	Neutron Interactions Conf., Dubna 1964	V-2	O
64GENEVA	Third Internat. At.En. Conf., Geneva 1964	V-2	
64PARIS	Nuclear Physics Congress, Paris 1964	V-2	
64VIENNA	Plutonium for Power Production Panel, Vienna, 196	V-2	
64WIEN	In-Pile Dosimetry Panel, Vienna, 1964	V-2	
65ANTWERP	Nuclear Structure Conf., Antwerp 1965	V-2	
65CALCUTTA	Nuclear and Solid State Phys.Symp., Calcutta 1965	V-2	
65IAEA	Accident Dosimetry Symp., Vienna 1965	V-2	
65KFK	Polarization Symp., Karlsruhe 1965	V-2	
65KRLSRH	Pulsed Neutron Symp., Karlsruhe 1965	V-2	
65MINSK	Nuclear Spectroscopy Conf., Minsk 1965	V-2	O
65SALZBURG	Physics and Chemistry of Fission Conf., Salzburg	V-2	
66ANL	Fast Critical Experiments Conf., Argonne 1966	V-2	O
66ARGONNE	Capture-Gamma Spectroscopy Conf, Argonne, 1966	V-2	O
66BERKELEY	Radiation Measurements Conf., Berkeley 1966	V-2	
66BOMBAY	Nuclear and Solid State Physics Symp., Bombay 196	V-2	
66DUBNA	Nuclear Pulsed Systems Panel, Dubna 1966	V-2	
66GATLNBG	Int.Conf.on Nuclear Physics, Gatlinburg, 1966	V-2	
66LYON	Light Nuclei Colloquium, Lyon, 1966	V-2	
66MOSCOW	Nuclear Spectroscopy Conf., Moscow 1966	V-2	
66OXFORD	Conf.on Nucl.Struct.and Elem.Part.,Oxford 1966	V-2	
66PARIS	Nuclear Data For Reactors Conf., Paris 1966	V-2	
66ROME	Measurements in Power Reactors Sem., Rome 1966	V-2	
66ROSSDF	Nucl. Reactions and Structure Conf., Rossendorf 1	V-2	O
66SDIEGO	Reactor Physics Conf., San Diego 1966	V-2	
66TRIESTE	Fundamentals in Nuclear Theory Lectures, Trieste	V-2	
66VIENNA	Symp.on Standardization of Radionuclides,Vienna 1	V-2	
66WASH	Neutron Cross-Section Techn. Conf., Washington 19	V-2	
67ANNARB	Neutron Thermalization Symp. Ann Arbor, Mich, 196	V-2	
67BORDEAUX	Nuclear Physics Colloquium, Bordeaux 1967	V-2	
67BRELA	Light Nuclei Symp., Brela 1967	V-2	
67BRUSSELS	Symp.on Plutonium as a Reactor Fuel, Brussels 196	V-2	
67BRXL	Neutron Cross-Sections Standards Panel, Brussels	V-2	O
67COLLEG	Nucl.Phys.Res. w.Low Energy Accel., U.Maryland 19	V-2	
67GNSVLLE	Nucleon-Nucleon Interaction Conf., Gainsville 196	V-2	
67JUELICH	Neutron Physics at Reactors Conf., Juelich 1967	V-2	
67KANPUR	Nucl. and Solid State Physics Symp., Kanpur 1967	V-2	
67KARLSR	Symp.on Fast Reactor Physics,Karlsruhe 1967	V-2	
67KHARKOV	Nucl. Spectroscopy and Structure Conf., Kharkov 1	V-2	
67KRAKOW	Nuclear Spectroscopy Sem., Krakow 1967	V-2	
67LUBLIN	Polish Physics Congress, Lublin 1967	V-2	
67MCHG	Neutron Thermalization Symp. Ann Arbor, Mich, 196	V-2	O
67MARYLD	Symp.on Nucl.Phys.Res.w.Low En.Accel., Maryland 1	V-2	
67ROS	Second Nucl.Reactions+Structure Conf.Rossendorf 1	V-2	O
67SCHFFHSN	Swiss Physical Soc. Meeting, Schaffhausen 1967	V-2	
67TOKAI	Utilization of Research Reactors Meeting,Tokai,19	V-2	
67TOKYO	Nuclear Structure Conf., Tokyo 1967	V-2	
67VIENNA	Panel on Delayed Fission Neutrons, Vienna 1967	V-2	
67WIEN	Panel on Fuel Burn-Up Predictions,Vienna 1967	V-2	
68BOMBAY	Nucl. and Solid State Physics Symp., Bombay 1968	V-2	
68COPENHGN	Neutron Inelastic Scattering Symp., Copenhagen 19	V-2	
68DEBRECEN	Electron Capture in Nucl. Decays Conf.,Debrecen,1	V-2	
68DUBNA	Nuclear Data for Computations Sem., Dubna 1968	V-2	
68DUBPA	Nuclear Structure Studies Panel, Dubna 1968	V-2	O
68DUBSY	Symp.on Nuclear Structure, Dubna, USSR, 4-11 Jul	V-2	

68JINR	Nuclear Structure Studies Panel, Dubna 1968	V-2	
68MADRAS	Nucl. and Solid State Physics Symp., Madras 1968	V-2	
68RIGA	Nucl. Spectroscopy and Structure Conf., Riga 1968	V-2	
68WASH	Nuclear Cross-Sections Techn. Conf., Washington 1	V-2	
69BOCHUM	Clustering Phenomena Conf., Bochum,Germany,1969	V-2	
69CHAND	Chemistry Symp., Chandigarh 1969	V-2	
69EREVAN	Nuclear Spectroscopy Conf., Erevan 1969	V-2	
69HOUSTON	Welch Found.Conf.on Chem.Res.,Houston,1969,Vol.13	V-2	
69KINSHASA	Peaceful Uses of At.Energy in Africa,Kinshasa,196	V-2	
69LONDON	Physics of Fast Reac.Oper.+ Design,Conf.,London 1	V-2	
69MONTRL	Conf.on Properties of Nuclear States,Montreal,196	V-2	
69RIO	Nuclear Physics Symp., Rio de Janeiro 1969	V-2	
69ROORKEE	Nucl. and Solid State Physics Symp., Roorkee 1969	V-2	
69STUDSVIK	Neutron Capture Gamma-Ray Spectroscopy,Studsvik,1	V-2	
69TRIESTE	Trieste Lectures 1969	V-2	
69VIENNA	Physics and Chemistry of Fission Symp., Vienna 19	V-2	
69WIEN	Instrumentation for Neut.Inelast.Scat.Res.,Vienna	V-2	
70ANL	Neutron Standards Symp., Argonne 1970	V-2	
70BARCEL	7.Int.Conf.on Corpuscular Photography, Barcelona	V-2	
70CHICAGO	APS Meeting Chicago 1970	V-2	O
70HELSINKI	Nuclear Data for Reactors Conf., Helsinki 1970	V-2	
70LENING	Nucl.Spectroscopy Conf.,Leningrad 1970	V-2	
70LVEG	ANS Nucl.Expl.Symp.,Las Vegas 1970	V-2	
70MADISON	Polarization Phenomena Conf., Madison 1970	V-2	
70MADRAS	Chemistry Symp., ITT, Madras 1970	V-2	
70MADURAI	Nucl. and Solid State Physics Symp., Madurai 1970	V-2	
70MARBG	7.Int.Conf.on Electrom.Isotope Separatn, Marburg	V-2	
70PARIS	Reactor Shielding Specialist Meeting, Paris, 1970	V-2	
70SFE	Plutonium 1970 Symp. Santa Fe 1970	V-2	
71ALBANY	Conf.on Statistical Properties of Nuclei,Albany,1	V-2	
71BUDAPEST	Symp.on The Nuclear 3-Body Problem, Budapest 1971	V-2	O
71CANT	Chemical Nucl. Data Conf.,Canterbury 1971	V-2	
71KIEV	Neutron Physics Conf., Kiev 1971	V-2	
71KNOX	3rd Conf.Neutron Cross-Sections+Tech.,Knoxville 1	V-2	
71MOCKBA	Neutron Metrology Conf, Moskva 1971	V-2	
71MOSCOW	Nuclear Spectroscopy Conf., Moscow 1971	V-2	
71VIENNA	Prompt Fission Neutron Spectra Meeting, Vienna 19	V-2	
72ALUSHTA	Nucl.Structure Lectures, Alushta 1972	V-2	O
72BOMBAY	14.Nucl.and Solid State Physics Symp, Bombay 1972	V-2	
72BUD	Nucl.Structure Conf.,Budapest 1972	V-2	
72CHANDG	15.Nucl.and Solid State Physics Symp. Chandigarh	V-2	
72DENVER	18.Conf.on Magnetism and Magnetic Mat.,Denver 197	V-2	
72GRENOBLE	Neutron Inelastic Scattering Symp., Grenoble 1972	V-2	
72KIAMESHA	Conf.on Developm.in Reactor Phys.,Kiamesha Lake 1	V-2	
72KIEV	22. Nuclear Spectroscopy Conf, Kiev 1972	V-2	
72LANZH	Conf.on Low Energy Nucl.Phys.,Lanzhou,1972	V-2	
72LOSANG	Conf. on Few-Particle Problems, Los Angeles 1972	V-2	
72NEUHER	1.Symp.on Neutron Dosimetry,Munich-Neuherberg,May	V-2	
72PARIS	4.Int.Reactor Shielding Conf., Paris 1972	V-2	
72PREDEAL	Summer School Nucl.Data and React.Phys.,Predeal 1	V-2	
72SENDAI	Conf.Nucl.Structure Studies, Sendai, Japan, 1972	V-2	
72VIENNA	Panel on Neutron Standard Reference Data,Vienna,1	V-2	
73BANGLO	16.Nucl.and Solid State Physics Symp.,Bangalore,1	V-2	
73BOLOGNA	IAEA Panel on Fission-Product Nuclear Data	V-2	O
73BOSTON	19.Conf.on Magnetism and Magnetic Mat.,Boston 197	V-2	
73DUBNA	13. Nuclear Spectroscopy Symp., Dubna 1973	V-2	O

73GAUSSIG	3.Sem.on Interact.of Fast Neutrons,Gaussig 1973	V-2	O
73KARLSR	Capture Cross-Sections Panel, Karlsruhe 1973	V-2	
73KIEV	2.Conf.on Neutron Physics, Kiev 1973	V-2	
73MUNICH	Int.Conf.on Nuclear Physics,Munich 1973	V-2	
73PACIFI	Int.Conf.on Photonucl.Reactions,Pacific Grove 197	V-2	
73PARIS	Applications of Nuclear Data Symp., Paris 1973	V-2	
73PETTEN	Nuclear Physics Symp., Petten 1973	V-2	
73ROCH	3.Physics+Chemistry of Fission Symp., Rochester 1	V-2	
73TBILISI	23. Nuclear Spectroscopy Conf., Tbilisi 1973	V-2	
73TOKAI	Meeting on Fast Reactor Physics, Tokai 1973	V-2	
73TRIEST	Int.Extend.Sem.on Nucl.Physics,Trieste 1973	V-2	
74AMSTER	Conf.on Nucl.Struct.and Spectroscopy,Amsterdam 19	V-2	
74BOMBAY	17.Nucl.and Solid State Physics Symp.,Bombay 1974	V-2	
74CALCUT	Int.Symp.on Radiation Physics, Calcutta 1974	V-2	
74COLUMB	2.Conf.on Nucl.Meth.in Envir.Res.,Columbia 1974	V-2	
74DACCA	Physics Symp., Dhaka,18-21 Nov.1974	V-2	
74GAUSSIG	5.Sem.on Interact.of Fast Neutrons,Gaussig 1974	V-2	O
74KHARKOV	24.Conf.on Nucl.Spectr.and Nucl.Struct.,Kharkov 1	V-2	O
74KHARKV	24.Conf.on Nucl.Spectr.and Nucl.Struct.,Kharkov 1	V-2	
74NASH	Int.Conf.on React.Betw.Complex Nuclei,Nashville 1	V-2	
74PETTEN	2.Symp.on Neutr.Capt.Gamma Ray Spectrosc.,Petten	V-2	
74SHANGH	Conf.on Nucl.Physics,Shanghai 1974	V-2	
74SMOLEN	Int.Symp.on Neutron Induced Reactions,Smolenice 1	V-2	O
75CALCUTTA	18.Nucl.and Solid State Physics Symp.,Calcutta,19	V-2	
75DEBREC	Symp.on Fast Neutr.Interactions,Debrecen 1975	V-2	O
75DELHI	7.Conf.on Few-Body Problems,Delhi Dec.1975/Jan.19	V-2	
75GAUSSIG	5.Sem.on Interact.of Fast Neutrons,Gaussig 1975	V-2	
75GOTHEN	Conf.in Physics,Gothenburg,10-12 Jun 1975	V-2	
75HARWELL	Europhysics Conf.on Nucl.Interactions, Harwell 19	V-2	
75KARLSR	Seminar on Aspects of Cf-252,Karlsruhe 1975	V-2	
75KIEV	3.All Union Conf.on Neutron Phys.,Kiev,9-13 Jun 1	V-2	
75LENING	25.Conf.on Nucl.Spect.and Nucl.Struct.,Leningrad	V-2	
75MRYLND	2.Conf.on Clustering Phen.in Nuclei,Maryland 1975	V-2	
75WASH	Conf.on Nucl.Cross-Sect.and Techn.,Washington 197	V-2	
75ZUERI	7.Int.Conf.on Cyclotrons,Zuerich 1975	V-2	
75ZURICH	4.Int.Symp.on Polarization Phen.,Zuerich 1975	V-2	
76AHMEDABA	19.Nucl.Phys.Solid State Phys.Symp.,Ahmedabad,197	V-2	
76ANL	Meet.Fast Neutr.Cross Sect.of U and Pu,Argonne 19	V-2	
76ANL-2	Symp.on Macrosc.React.of Heavy Ion Coll.,Argonne	V-2	
76BAKU	Conf.on Nucl.Spectr.and Nucl.Struct.,Baku 1976	V-2	
76BOMBAY	Symp.on Reactor Physics, Bombay, 1-3 Mar 1976	V-2	
76CAEN	European Conf.on Nucl.Phys.with Heavy Ions,Caen 1	V-2	
76CORSICA	3.Int.Conf.on Nuclei Far from Stability,Cargese,1	V-2	
76GARMIS	9th Symp. on Fusion Technology, Garmisch 1976	V-2	
76LOWELL	Int.Conf.on Interact.of Neutr.with Nuclei,Lowell	V-2	
76NEUHER	9.Conf.Solid State Nucl.Track Detect.,Neuherberg	V-2	
76RIGA	School on Neutron Metrology, Riga, 22 Nov-3 Dec 1	V-2	
77BNL	Symp.on Neutr.Cross-Sect. 10 - 40 Mev,Brookhaven	V-2	
77BNL-2	Meeting on Accelerator Breeding,Brookhaven 1977	V-2	
77GEEL	Meet.on Neutr.Data of Struct.Mat.,Geel 1977	V-2	
77KIEV	4.All Union Conf.on Neutron Phys.,Kiev,18-22 Apr	V-2	
77MANNHE	Reaktortagung 1977, Mannheim, Germany, Mar 1977	V-2	
77NBS	Symp.on Neutron Standards,Gaithersburg 1977	V-2	
77PARIS	Meeting on Natural Fission Reactors,Paris 1977	V-2	
77PUNE	20.Nucl.Phys.and Solid State Phys.Symp.,Poona 197	V-2	
77TASHKENT	27.Conf.on Nucl.Spectr.and Nucl.Struct.,Tashkent	V-2	

77TENN	Conf.on Heavy Ion Collisions,Falls Creek,Tenn. 19	V-2	
77TOKYO	Int.Conf.on Nuclear Structure, Tokyo, 5-10 Sep 19	V-2	
77VIENNA	Symp.on Neutron Inelastic Scattering, Vienna 1977	V-2	
78ALMAATA	28.Conf.on Nucl.Spectr.and Nucl.Struct.,Alma-Ata	V-2	
78ALUSHTA	3.Int.School on Neutron Physics, Alushta 1978	V-2	
78BNL	3.Symp.Neutr.Capt.Gamma Ray Spectr.,Brookhaven 19	V-2	
78BNL-2	Meet.Nucl.Data Higher Pu and Am Isot.,Brookhaven	V-2	O
78BOMBAY	21.Nucl.Phys.and Solid State Phys.Symp., Bombay 1	V-2	
78GRAZ	Int.Conf.on Few Body Syst.and Nucl.Forces,Graz 19	V-2	
78HARWELL	Int.Conf.on Neutr.Phys.and Nucl.Data,Harwell 1978	V-2	
78HEIDLB	Meet.on Nucl.and High Energy Physics,Heidelberg 1	V-2	
78LUSHAN	3.Chinese Nucl.Phys.Conf.,Lushan,China,Aug.1978	V-2	
78MAYAG	Conf.on Computers in Activ.Analysis,Mayaguez 1978	V-2	
79AIX	Symp.on Fast Reactor Physics,Aix-en-Provence 1979	V-2	
79BOLOGN	Meet.Neutr.Cross Sect.of Fiss.Prod.Nucl.,Bologna	V-2	
79GAUSSIG	9.Symp.on Interact.of Fast Neutrons,Gaussig 1979	V-2	O
79GEEL	Meet.on Neutr.Cross Sect.For Struct.Mat.,Geel 197	V-2	
79GHENT	Meeting on Nuclear Physics, Ghent, 26-30 Mar 1979	V-2	
79INNSBR	17.Meet.of the Ges.f.Nuklearmedizin,Innsbruck 197	V-2	
79JUELICH	IAEA Symp.on Phys.and Chem.of Fission,Juelich 197	V-2	
79KNOX	Conf.on Nucl.Cross Sections F.Techn.,Knoxville 19	V-2	
79LYON	10.Conf.on Solid State Nucl.Track Detect.,Lyon 19	V-2	
79MADRAS	22.Nucl.Phys.and Solid State Phys.Symp.,Madras 19	V-2	
79RHODES	Conf.on Structure of Medium-Heavy Nuclei, Rhodes	V-2	
79RIGA	29.Conf.on Nucl.Spectr.and Nucl.Struct.,Riga 1979	V-2	
79SMOLENIC	2.Symp.on Neutron Induced Reactions,Smolenice 197	V-2	
80BEIJING	Theories and Meth.of Nucl.Reactions,Beijing 1980	V-2	
80BERKELEY	Int.Conf.Nuclear Physics, Berkeley,California,198	V-2	
80BNL	Symp.on Neutr.Cross Sect.10-50 MeV,Brookhaven 198	V-2	
80BNL-2	Conf.on Nucl.Data Eval.Methods,Brookhaven 1980	V-2	
80DELHI	23.Nucl.Phys.A.Solid State Phys.Symp.,New Delhi 1	V-2	
80KIEV	5.All Union Conf.on Neutron Phys.,Kiev,15-19 Sep	V-2	
80KOPPENN	Meet.Technol.Contr.Nucl.Fusion,King of Prussia 19	V-2	
80LANZHO	4.Chinese Nucl.Phys.Conf.,Lanzhou,China,Oct.1980	V-2	
80LENGRD	30.Conf.Nucl.Spectr.and Nucl.Struct.,Leningrad 19	V-2	
80MUNICH	Meeting on Nuclear Physics, Munich, 17-22 Mar 198	V-2	
80SANTA FE	5.Symp.on Polar.Phen.in Nucl.Phys.,Santa Fe 1980	V-2	
80WALTAI	Nucl.Chem.and Radiochem.Symp.,Waltair,India 1980	V-2	
81ANL	Neutron Scattering Conf.,Argonne Nat.Lab. 1981	V-2	
81BOMBAY	24.Nucl.Phys.and Solid State Phys.Symp.,Bombay 19	V-2	
81GRENOB	4.Symp.Neutr.Capt.Gamma-Ray Spectrosc.,Grenoble 1	V-2	
81NEUHERBG	4.Symp.on Neutron Dosimetry, Munich-Neuherberg 19	V-2	
81SAMAR	31.Conf.Nucl.Spectr.and Nucl.Struct.,Samarkand 19	V-2	
82ANTWER	Conf.on Nucl.Data for Sci.and Technol.,Antwerp 19	V-2	
82KIAMES	Meet.on Adv.in Reactor Phys.,Kiamesha Lake 1982	V-2	
82KIEV	32.Conf.on Nucl.Spectr.and Nucl.Struct.,Kiev 1982	V-2	
82SMOLEN	Conf.on Neutron Induced Reactions,Smolenice 1982	V-2	
82VARANA	25.Nucl.Phys.A.Solid State Phys.Symp.,Varanasi 19	V-2	
82WASH	4.Symp.on Radiation Dosimetry,Washington D.C. 198	V-2	
83GAUSSG	13.Int.Conf.on Nucl.Phys., Gaussig 1983	V-2	O
83KIEV	6.All-Union Conf.on Neutron Physics,Kiev,2-6 Oct.	V-2	
83MOSCOW	33.Conf.on Nucl.Spectr.and Nucl.Struct.,Moscow 19	V-2	
83MOSKVA	3.Meet.on Neutron Radiation Metrology,Moscow 1983	V-2	
83MYSORE	26.Nucl.Phys.and Solid State Phys.Symp.,Mysore 19	V-2	
83TOKYO	Symp.on High Energy Photonucl.Reactions, Tokyo 19	V-2	
83TURKU	3.Symp.on Med.Appl.of Cyclotrons, Turku, Finland,	V-2	

83WASH	Symp.Ultrashort-Lived Radionucl.,Washington D.C.1	V-2	
84ALMAAT	34.Conf.on Nucl.Spectr.A.Nucl.Struct.,Alma-Ata 19	V-2	
84DEBREC	Int.Symp.on In-Beam Nucl.Spectroscopy, Debrecen 1	V-2	
84FUJI	Int.Symp.on Heavy Ion Nuclear Physics,Fuji 1984	V-2	
84GAUSSIG	14.Symp.on Nucl.Phys.,Gaussig,DDR,1984	V-2	
84GEESTH	5.Symp.on Reactor Dosimetry,Geesthacht,1984	V-2	
84KNOX	Symp.on Capt.Gamma Ray Spectroscopy,Knoxville 198	V-2	
84OHIO	Conf.on Neutron-Nucleus Collisions,Glouster 1984	V-2	
84OSAKA	Symp.on Nucl.Spectr.and Nucl.Interact.,Osaka 1984	V-2	
84UPPSAL	Conf.on Transactinium Isotope Nucl.Data,Uppsala 1	V-2	O
84TRIUMF	TRIUMF-ISOL Workshop, Mont Gabriel, Quebec, 1984	V-2	
84VARESE	13th Symposium on Fusion Technology, Varese,Sept.	V-2	
84VENICE	6.Symp.Safeguards and Nucl.Mat.Managem.,Venice 19	V-2	
85CHIANG	Fast Neutrons in Sci.and Techn.Symp.,Chiang Mai 1	V-2	
85CHICAG	Nuclei Off Line of Stability Symp.,Chicago,1985	V-2	
85GAUSSI	15.Symp.on Nucl.Phys.,Nucl.Fission,Gaussig,DDR,19	V-2	O
85JAIPUR	Symp.on Nucl.Phys.,Jaipur,16-20 Dec.1985	V-2	
85JUELIC	Conf.on Neutron Scatt.in the Nineties,Juelich 198	V-2	
85LENING	35.Conf.Nucl.Spectr.and Nucl.Struct.,Leningrad 19	V-2	
85SANTA	Conf.on Nucl.Data f.Basic a.Appl.Sci.,Santa Fe 19	V-2	
86BEIJIN	Int.Conf.Nucl.Radiochemistry, Beijing, 1-5 Sept.1	V-2	
86BIRMIN	Delayed Neutr.Prop.Meeting, Birmingham 1986	V-2	
86DUBRO2	Conf.Nucl.Struct.,Reactions,Symmetries,Dubrovnik	V-2	
86DUBROV	Int.Conf.on Fast Neutr.Phys.,Dubrovnik,26-31 May	V-2	
86HABAY	Sem.on Fission, Habay-la-Neuve,Belgium,22-23 May	V-2	
86HARROG	Int.Nucl.Phys.Conf., Harrogate,U.K.,25-30 Aug.198	V-2	
86KHARKO	36.Conf.Nucl.Spectrosc.and Nucl.Struct.,Kharkov 1	V-2	
86TEL-AV	Nucl.Soc.of Israel Meeting,Tel Aviv,17-18 Feb.198	V-2	
86TURKU	4.Symp.on Med.Appl.of Cyclotrons, Turku, Finland,	V-2	
86WASH	Conf.3-Body Force in 3-Nucleon Syst.,Washington D	V-2	
87BADHON	Symp.on Dynamics of Collective Phen.,Bad Honnef 1	V-2	
87JURMAL	37.Conf.Nucl.Spectrosc.and Nucl.Struct.,Jurmala 1	V-2	
87KIEV	1.Int.Conf.on Neutron Physics, Kiev,14-18 Sep 198	V-2	
87LEUVEN	6.Conf.on Capture Gamma-ray Spectroscopy, Leuven	V-2	
87ROSSEA	5.Conf.on Nuclei Far from Stability,Rosseau Lake	V-2	
87VIENNA	IAEA Meet.on Fusion Eval.Nucl.Data,Vienna,Nov.198	V-2	
88BADHON	Conf.on Nucl.Struct.of the Zr Region,Bad Honnef 1	V-2	
88BAKU	38.Conf.Nucl.Spectrosc.and Nucl.Struct., Baku 198	V-2	
88BOMBAY	31.Nuclear Physics Symp., Bombay, 27 - 31 Dec.198	V-2	
88GAUSSI	18.Int.Conf.on Nucl.Phys., Gaussig 1988	V-2	
88JACKHO	Int.Reactor Phys.Conf.,Jackson Hole,18-22 Sep.198	V-2	O
88MITO	Conf.on Nucl.Data For Sci.and Technol.,Mito 1988	V-2	
88SMOLEN	Symp.on Nucleon Induced Reactions, Smolenice 1988	V-2	
88TRIEST	Worksh.on Applied Nucl.Theory, Trieste 1988	V-2	
89ALBUQU	High En&eavy Ion Beams in Mat.An.,Albuquerque 1	V-2	
89ALIGAR	32nd Nuclear Physics Symp., Aligarh, 26-30 Dec.19	V-2	
89BERLIN	Int.Conf.on 50 Years Res.in Nucl.Fiss., Berlin 19	V-2	O
89BRAUNS	Nuclear Decay Data Symp., Braunschweig 1989	V-2	O
89LENING	Int.Conf.50th Anniv.of Nucl.Fission, Leningrad 19	V-2	
89TASHKE	39.Conf.Nucl.Spectrosc.and Nucl.Struct.,Tashkent	V-2	
89TURKU	5.Symp.on Med.Appl.of Cyclotrons, Turku, Finland,	V-2	
89WASH	50 Years Nucl.Fission Conf., Washington D.C., 198	V-2	
90ASILOM	7.Symp.on Capture Gamma Ray Spectrosc.,Asilomar 1	V-2	
90BOMBAY	Indo-Japan Sem.on Thorium Utilization,Bombay 1990	V-2	
90LENING	40.Conf.Nucl.Spectroscopy Nucl.Struct.,Leningrad	V-2	
90MARSEI	Int.Conf.on the Physics of Reactors, Marseille 19	V-2	

91BEIJIN	Symp.on Fast Neutron Physics, Beijing, 9-13 Sep 1	V-2	
91GAUSSG	21.Int.Symp.on Nucl.Phys., Gaussig 1991	V-2	
91JUELIC	Conf.on Nucl.Data for Sci.and Technol.,Juelich 19	V-2	
91MINSK	41.Conf.Nucl.Spectroscopy Nucl.Struct.,Minsk 1991	V-2	
91VILLIG	4.Int.Worksh.on Targetry, Villigen, Switzerland,1	V-2	
92ADELAI	13.Int.Conf.on Few Body Problems,Adelaide,Jan.199	V-2	
92ALMAAT	Int.Conf.Nucl.Spectroscopy Nucl.Struct.,Alma-Ata	V-2	
92BNL	Int.Symp.on Nucl.Data Eval.Methodology, BNL, Oct.	V-2	
92BOMBAY	35.Nuclear Physics Symp., Bombay, 21 - 24 Dec.199	V-2	
92KARLSR	Conf.on Nuclei in the Cosmos, Karlsruhe, July 199	V-2	
92TRIEST	Workshop on Comput.and Anal.of Nucl.Data,Trieste	V-2	
92TURKU	6.Symp.on Med.Appl.of Cyclotrons, Turku, Finland,	V-2	
93DUBNS	43.Int.Conf.Nucl.Spectrosc.Nucl.Struct.,Dubna 199	V-2	
93FRIBOU	8.Int.Conf.Capture Gamma-Ray Spectrosc.,Fribourg	V-2	
94BOLOGN	Meas.,Calc.and Eval.of Photon Prod.Data,Bologna 1	V-2	
94DENTON	Conf.on Appl.of Accel.in Res.and Ind.,Denton,USA,	V-2	
94GATLIN	Conf.on Nucl.Data for Sci.and Techn.,Gatlinburg 1	V-2	
94PETRBG	Conf.Nucl.Spectrosc.Nucl.Struct.,St.Petersburg 19	V-2	
95ARLES	Conf.Exotic Nuclei and Atomic Masses, Arles, 1995	V-2	
95HABAY	Sem.on Fission, Habay-la-Neuve, Belgium, 1995	V-2	
95OBNIN	13.Meeting on Physics of Nucl.Fission, Obninsk 19	V-2	
95PETRBG	Conf.Nucl.Spectrosc.Nucl.Struct.,St.Petersburg 19	V-2	
95TURKU	7.Symp.on Med.Appl.of Cyclotrons, Turku, Finland,	V-2	
96BUDA	9.Symp.on Capture Gamma Ray Spect., Budapest, 199	V-2	
96DENTON	Conf.on Appl.of Accel.in Res.and Ind.,Denton,USA,	V-2	
96MITO	Conf.on the Physics of Reactors, Mito, Japan 1996	V-2	
96MOSCOW	Conf.Nucl.Spectrosc.Nucl.Struct., Moscow, June 19	V-2	
96NOTRED	Conf.on Nuclei in the Cosmos IV, Notre Dame, 1996	V-2	
96SAROV	Worksh.Exact Meas.in Nucl.Spect., Sarov, Russia 1	V-2	
97OBNIN	Conf.Nucl.Spectrosc.Nucl.Struct., Obninsk 1997	V-2	
97PHILAD	Symp.Synth.Isot.Labelled Comp.,Philadelphia,PA 19	V-2	
97SANIB	Fission,Prop.of Neutron-Rich Nucl.,Sanibel,USA,19	V-2	
97TOKYO	Symp. New Facet of Spin of Giant Res.,Tokyo 1997	V-2	
97TRIEST	Conf.on Nucl.Data for Sci.and Techn., Trieste 199	V-2	
98BELAIR	Conf.Exotic Nucle&t.Masses, Bellaire, USA, 19	V-2	
98DENTON	Conf.on Appl.of Accel.in Res.and Ind.,Denton,TX,1	V-2	
98GATLIN	Nuclear Structure 98 Conf., Gatlinburg, USA, 1998	V-2	
98MARSEI	20.Symp.on Fusion Technology, Marseille,France, 1	V-2	
98MOSCOW	Conf.Nucl.Spectrosc.Nucl.Struct., Moscow, June 19	V-2	
98SEYSS	Nucl.Fiss&iss.-Prod.Spectr.,Seyssins,France, 19	V-2	
98VOLOS	5. Nuclei in the Cosmos Conf., Volos, Greece, 199	V-2	
99BUCHAR	Symp.on Adv.in Nucl.Phys., Bucharest, Romania, 19	V-2	
99PRAHA	Conf.on Accelerator Driven Transmutation, Prague	V-2	
99SANTA	Symp.on Capt.Gamma Ray Spectroscopy, Santa Fe,NM	V-2	
99ST.AND	Conf.on Fission+Neutron-Rich Nucl.,St.Andrews, 19	V-2	
99TSUKUB	Conf.on Radiation Shielding, Tsukuba, Japan, 1999	V-2	
2000PITTSB	PHYSOR 2000, Pittsburgh, PA, 2000	V-2	
2000STPETR	Conf.Nucl.Spectr.Nucl.Struct.,St.Petersbg.,June 2	V-2	
2001BERKEL	Nucl.Physics in the 21st Cent.,Berkeley, CA,USA,2	V-2	
2001DUBNA	Interaction of Neutrons with Nuclei, Dubna 2001	V-2	
2001SAROV	Conf.Nucl.Spectrosc.Nucl.Struct.,Sarov, Russia,20	V-2	
2001TSUKUB	Conf.on Nucl.Data for Sci.and Techn., Tsukuba 200	V-2	
2002DUBNA	Int.Sem.Interaction of Neutrons w.Nuclei,Moscow,2	V-2	
2002MOSCOW	Conf.Nucl.Spectrosc.Nucl.Struct.,Moscow,Russia,20	V-2	
2002PRUHON	Symp.on Capt.Gamma Ray Spectroscopy, Pruhonice, 2	V-2	
2002SANTA	Meeting on Radiation Shielding,Santa Fe,NM,USA, 2	V-2	

2002SEOUL	PHYSOR 2002, Physics of Reactors, Seoul, Korea, 2	V-2	
2003DARMST	Worksh.Nucl.Data for Transmutation, Darmstadt, 20	V-2	
2003MOSCOW	Conf.Nucl.Spectrosc.Nucl.Struct.,Moscow,Russia,20	V-2	
ABAGJAN	Abagjan Group Constants	V-2	
ACT.EL	Actinide Elements	V-2	
ANCIPOV	Ancipov et al,Nucl.Data for Pu Isotopes,Minsk 198	V-2	
ANDERSEN	H.H.Andersen,H Stopping Powers and Ranges,Pergamo	V-2	
BAARD	Baard et al.,Nuclear Data Guide,Kluwer Acad.Publ.	V-2	
BELANOVA	Belanova et al.,Neutron Capt.Cross Sect.,Moscow 1	V-2	
BROND	V.N.Manokhin: BROND Documentation, Obninsk 1986	V-2	
BRUNE	Activation Analysis Handbook, D.Brune	V-2	
BYCHKOV	Bychkov et al,Cross Sect.f.Thresh.React.,Moskva 1	V-2	
CDFE/FIS	Fotojad.Dannye - Fission of Heavy Nuclei,Moscow 1	V-2	
CDFE/FIS2	Fotojad.Dannye-Photofission of U-235,238, Moscow	V-2	
CDFE/LI	Fotojad.Dannye - Photodisintegr.of Li, Moscow 198	V-2	
CDFE/LI2	Fotojad.Dannye - Photodisint.of Li,Suppl.,Moscow	V-2	
CDFE/XG	Fotojad.Dannye - Gamma,X Gamma'Reactions, Moscow	V-2	
DEMIDOV	Demidov, Excited States of Nuclei, Alma Ata 1986	V-2	
DMITRIEV	Dmitriev,Yields of Radionuclides,Moskva 1986	V-2	
EXP.NUC.P.	Experimental Nuclear Physics	V-2	
FAST N.PH.	Fast Neutron Physics	V-2	
FIRESTONE	Table of Isotopes, 8th edition 1996	V-2	
FRC	Fast Reactor Cross-Sections, Pergamon 1960	V-2	
GAMMAATLAS	Atlas of Gamma-Ray Spectra, Moskva 1978	V-2	
GRUEBLER	Gruebler,Reactions Induced by Deuterons, Zurich 1	V-2	
GUSEV	Gusev,Quant.Emiss.of Radionuclides,Moscow 1977	V-2	
HB.SPEC	Handbook of Spectroscopy, Crc Press, Florida, 198	V-2	
KONSHIN	Konshin,Eval.of Nucl.Data for Pu-242,Minsk 1979	V-2	
LANDOLT	Landolt-Boernstein,New Series,Springer 1973	V-2	
LAPENAS	Lapenas,Neutron Spect.Meas.by Activ.,Riga 1975	V-2	
LEDERER-7	C.M.Lederer,Table of Isotopes,7th Ed.,1978	V-2	
LEVKOVSKIJ	Levkovskij,Act.Cs.By Protons and Alphas,Moscow 19	V-2	
N.REAC.DES	Theory and Method of Nucl.Reactor Design,Moscow 1	V-2	
NB.GS.COMP	Noble Gas Compounds, Chicago Press 1963	V-2	
NEA-DISCR	NEA Discrepancy File 1983	V-2	
NEJTRONFIZ	Neitronnaya Fizika, Moskva 1961	V-2	
NEUT.CS 1A	Neutron Cross Sections,Vol.1,Part A, Res.Par., 19	V-2	
NEUT.CS 1B	Neutron Cross Sections,Vol.1,Part B, Res.Par., 19	V-2	
NEUT.CS 2	Neutron Cross Sections,Vol.2, Curves, 1984	V-2	
NEUTRDIFFR	G.E.Bacon= Neutron Diffraction. 2nd ed, Oxford 19	V-2	O
NIKOL84	Nikolaev,Multigr.Approx.in Neutr.Transp.,Moskva 1	V-2	
NIKOLAEV	Nikolaev,Anisotr.of Elast.Scatt.Neutr.,Moskva 197	V-2	
NRLME	Nucl.Reactions at Low and Middle Energies,Moscow	V-2	
NRLMEN	Nucl.Reactions at Low and Middle Energies,Moscow	V-2	
OKAMOTO	Handbook on Nucl.Activation Data, IAEA 1987	V-2	
PERFILOV	Perfilov,Nucl.React.Ind.by High En.Part.,USSR 196	V-2	
PFN	Fast Neutron Physics Conf., Houston 1963	V-2	O
PH-DAT	Physik Daten/Physics Data,Series,Karlsruhe	V-2	
PNS	Proc. Nucl.and Solid State Phys. Symp., India	V-2	O
PR.NUC.EN.	Progress in Nucl.Energy	V-2	
PROKOFJEV	Prokofjev,Therm.Neutr.Capt.for A=143-193,Riga 197	V-2	
RCS	Radiochemical Studies, Fission Products, USA, 195	V-2	
REAC.CALC.	Maruk,Theory and Meth.of Nucl.Reactor Calc.,1964	V-2	
RISR	Radioisotopes in Scient.Res., UNESCO, Paris 1957	V-2	O
SEGRAVE	Segrave,The Three-Body Problem,Amsterdam 1970	V-2	
SIEGBAHN	Siegbahn, Beta and Gamma-Ray Spectroscopy, 1955	V-2	

SPN	Sov.Progr.in Neutr.Phys.,New York 1961	V-2	
TRANSU.EL.	Transuranium Elements	V-2	
WAGEMANS	Wagemans, The Nuclear Fission Process, CRC Press	V-2	
CAPT	Capture reaction	V-3	
CAPT	Capture reaction	W	
CC	Coupled channel method	V-6	
CC	Coupled channels method	W	
CCBA	Coupled channel Born approximation	V-6	
CCBA	Coupled channel Born approximation	W	
CCIA	Coupled channels impulse approximation	V-6	
CCIA	Coupled channel impulse approximation	W	
CD2	CD2	V-8.3	
CELD	Celloid	W	
CELD-FILM	Celloid film	V-5	
CH2	CH2	V-8.3	
CHAMBR	Chamber	W	
CHANNEL	Channel	H	
CHANNEL	Channel	W	
CHARGE-DNSTY	Charge density	V-7	
CHM	Chemical form	W	
CHM	Chemical form of target nucleus	F	
CHNL-NMBR	Channel number	H	
CHRG-INC-ION	Charge status of incident ion	F	
CLAB	Calibration	W	
CLASS	Class of value code	S	
CLOUDC	Cloud chamber	V-5	
CLOUDC	Cloud chamber	W	
CLUST	Cluster	W	
CLUST-MODEL	Cluster model	V-6	
CM	cm (centi-meter)	V-14	
CM	Center of mass system, Center of mass	W	
CMPD	Compound nucleus	F	
CMPD	Compound nucleus	W	
CMPD-PROC	Compound (nuclear) process	V-3	O
CMPD-RCT	Compound (nuclear) reaction	V-3	
CNTR	Counter	W	
CNTR-PROP	Proportional counter	V-5	O
CNTR-TLSCP	Counter telescope	V-5	
CODE	Code	W	
COINC	Coincidence	V-7	
COINC	Coincidence	W	
COINC	Coincidence of particle	F	
COLL	Collective	W	
COLL-MODEL	Collective model	V-6	
COMP	Compound	W	
COMP-NUCL-RCT	Compound (nuclear) reaction	V-3	O
COMP-RCT	Compound (nuclear) reaction	V-3	O
CORRL	Correlation	W	
CORRL-FUNCT	Correlation function	V-7	
COS	Cosine	H	
COS	Cosine	W	
COS-CM	Cosine in c.m. system	H	
COS-LAB	Cosine in lab. system	H	
COS-MAX	Cosine in lab. system (upper limit)	H	
COS-MIN	Cosine in lab. system (lower limit)	H	
COULOMB	Coulomb	W	

COULOMB-DISP-ENGY	Coulomb displacement energy	H	
COULOMB-DISP-ENGY	Coulomb displacement energy	V-7	
COULOMB-ENGY-DIFF	Coulomb energy difference	H	
COUNT	Count number	V-7	O
COUNT	Count number	W	O
COUNTS	Count number	H	
COUNTS	Count number	W	
COUNTS/CHNL	Counts v.s. channel	H	
CRNKOV	Cerenkov counter	V-5	
CRNKOV	Cerenkov counter	W	
CU	Cu	V-8.4	
CYC	Cyclotron	V-4	
D	Deuteron	V-13	
D	Deutron	W	
D#	Data identification number	F	
DATA	Name of data section / data subsection	S	
DATA	Miscellaneous data	V-7	
DATA	Miscellaneous data (data heading)	W	
DATA1	Miscellaneous data 1	H	
DATA10	Miscellaneous data 10	H	
DATA11	Miscellaneous data 11	H	
DATA12	Miscellaneous data 12	H	
DATA13	Miscellaneous data 13	H	
DATA14	Miscellaneous data 14	H	
DATA15	Miscellaneous data 15	H	
DATA16	Miscellaneous data 16	H	
DATA17	Miscellaneous data 17	H	
DATA18	Miscellaneous data 18	H	
DATA19	Miscellaneous data 19	H	
DATA2	Miscellaneous data 2	H	
DATA20	Miscellaneous data 20	H	
DATA3	Miscellaneous data 3	H	
DATA4	Miscellaneous data 4	H	
DATA5	Miscellaneous data 5	H	
DATA6	Miscellaneous data 6	H	
DATA7	Miscellaneous data 7	H	
DATA8	Miscellaneous data 8	H	
DATA9	Miscellaneous data 9	H	
DATA-AVER	Miscellaneous data in mean value (average value)	H	
DATAN	Miscellaneous data (data heading) N=1,2,...	W	
DATA-STREAM	Whole set of sections	S	
DAUT	Daughter nucleus	H	
DAY	day	V-14	
DBHS	Deeply bound hole state	W	
DECAY	Decay	W	
DEFM	Deformation	W	
DEFM-PARA	Deformation parameter	H	
DEFM-PARA	Deformation parameter	V-7	
DEFM-PARA	Quadrupole-deformation parameter	F	
DEFM-PARA-2	Quadrupole deformation parameter	H	
DEFM-PARA-2	Quadruple-deformation parameter	F	
DEFM-PARA-3	Octupole deformation parameter	H	
DEFM-PARA-3	Octupole-deformation parameter	F	
DEFM-PARA-4	Hexadecapole deformation paramater	H	
DEFM-PARA-6	26-pole deformation paramater	H	
DEFORM	Deformation	W	O

DEFORM-PARA	Deformation parameter	H	O
DEFORM-PARA	Deformation parameter	V-7	O
DEG	degree	V-14	
DELAY	Delay	W	
DELAY-GAMMA	Delayed gamma ray	V-7	
DELTA	Error	W	
DELTA-A	Error in Mass number	H	
DELTA-ANALPW	Error in Analyzing power	H	
DELTA-ANG-CORRL	Error in Angular correlation	H	O
DELTA-ANGL-CORRL	Error in Angular correlation	H	
DELTA-ASTR-SFCTR	Error in Astrophysical S-factor	H	
DELTA-ASYM	Error in Asymmetry	H	
DELTA-AVER-KIN-ENGY	Error in Average kinetic energy	H	
DELTA-BE-L	Error in B(E lambda)	H	
DELTA-BIND-ENGY	Error in Binding energy	H	
DELTA-BM-L	Error in B(M lambda)	H	
DELTA-BRANCH-RATIO	Error in Branching ratio	H	
DELTA-COUNT	Error in Count number	H	O
DELTA-COUNTS	Error in Count number	H	
DELTA-DATA1	Error in Miscellaneous data 1	H	
DELTA-DATA10	Error in Miscellaneous data 10	H	
DELTA-DATA11	Error in Miscellaneous data 11	H	
DELTA-DATA12	Error in Miscellaneous data 12	H	
DELTA-DATA13	Error in Miscellaneous data 13	H	
DELTA-DATA14	Error in Miscellaneous data 14	H	
DELTA-DATA15	Error in Miscellaneous data 15	H	
DELTA-DATA16	Error in Miscellaneous data 16	H	
DELTA-DATA17	Error in Miscellaneous data 17	H	
DELTA-DATA18	Error in Miscellaneous data 18	H	
DELTA-DATA19	Error in Miscellaneous data 19	H	
DELTA-DATA2	Error in Miscellaneous data 2	H	
DELTA-DATA3	Error in Miscellaneous data 3	H	
DELTA-DATA4	Error in Miscellaneous data 4	H	
DELTA-DATA5	Error in Miscellaneous data 5	H	
DELTA-DATA6	Error in Miscellaneous data 6	H	
DELTA-DATA7	Error in Miscellaneous data 7	H	
DELTA-DATA8	Error in Miscellaneous data 8	H	
DELTA-DATA9	Error in Miscellaneous data 9	H	
DELTA-DEFM-PARA-2	Error in Quadrupole deformation parameter	H	
DELTA-DEFORM-PARA-2	Error in Quadrupole deformation parameter	H	
DELTA-DLL	Error in Polarization transfer parameter D(L'L)	H	
DELTA-DLS	Error in Polarization transfer parameter D(L'S)	H	
DELTA-DN/DOMEGA	Error in dN/dOmega	H	
DELTA-DN/DOMEGA/DE	Error in dN/dOmega/dE	H	
DELTA-DNN	Error in Polarization transfer parameter D(N'N)	H	
DELTA-DNSTY	Error in Density	H	
DELTA-DSIGMA	Error in d2sigma/dOmega2	H	O
DELTA-DSIGMA/DA	Error in Isobaric cross section	H	
DELTA-DSIGMA/DE	Error in dsigma/dE	H	
DELTA-DSIGMA/DOMEGA	Error in dsigma/dOmega	H	
DELTA-DSIGMA/DOMEGA/DE	Error in d2sigma/dOmega/dE	H	
DELTA-DSIGMA/DOMEGA/DE/DOMEGA/DE	Error in d4sigma/domega/dE/dOmega/dE	H	
DELTA-DSIGMA/DOMEGA/DOMEGA	Error in d2sigma/dOmega/dOmega	H	
DELTA-DSIGMA/DOMEGA/DOMEGA/DE	Error in d3sigma/dOmega/dOmega/dE	H	
DELTA-DSIGMA/DOMEGA/DP	Error in d2sigma/dOmega/dp	H	
DELTA-DSIGMA/DOMEGA-RATIO	Error in dsigma/dOmega ratio	H	

DELTA-DSIGMA/DPL	Error in dsigma/dp(longitudinal)	H	
DELTA-DSL	Error in Polarization transfer parameter D(S'L)	H	
DELTA-DSS	Error in Polarization transfer parameter D(S'S)	H	
DELTA-ENGY	Error in Energy	H	
DELTA-ENGY-EMT-1-LAB	Error in Energy of emitted particle 1 in lab. system	F	
DELTA-ENGY-EMT-1-LAB	Error in Energy of emitted particle 1 in lab. system	H	
DELTA-ENGY-EMT-2-LAB	Error in Energy of emitted particle 2 in lab. system	F	
DELTA-ENGY-EMT-2-LAB	Error in Energy of emitted particle 2 in lab. system	H	
DELTA-ENGY-EMT-CM	Error in Energy of emitted particle in c.m. system	H	
DELTA-ENGY-EMT-LAB	Error in Energy of emitted particle in lab. system	H	
DELTA-ENGY-GAMMA	Error in Energy of gamma-ray	H	
DELTA-EWSR	Error in Energy weighted sum rule	H	
DELTA-EXC-ENGY	Error in Excitation energy	F	
DELTA-EXC-ENGY	Error in Excitation energy (of the final state)	H	
DELTA-EXC-ENGY-EMT	Error in Excitation energy of emitted particle	F	
DELTA-EXC-ENGY-EMT-1	Error in Excitation energy of emitted particle 1	F	
DELTA-EXC-ENGY-EMT-2	Error in Excitation energy of emitted particle 2	F	
DELTA-EXC-ENGY-INTRM	Error in Excitation energy of intermediate nucleus	F	
DELTA-HALF-LIFE	Error in Half life time	H	
DELTA-INC-ENGY	Error in Incident energy	F	O
DELTA-INC-ENGY-CM	Error in Incident energy in c.m. system	H	
DELTA-INC-ENGY-CM	Error in Incident energy range in c.m. system	F	
DELTA-INC-ENGY-LAB	Error in Incident energy range in lab. systsem	F	
DELTA-INC-ENGY-LAB	Error in Incident energy in lab. system	H	
DELTA-INC-ENGY-RANGE	Error of incident energy range	F	O
DELTA-INTNSTY	Error in Intensity	H	
DELTA-INTNSTY-GAMMA	Error in Intensity of gamma transition	H	
DELTA-K-CONV-COEF	Error in K conversion coefficient	V-7	
DELTA-LEG	Error in Legendre coefficient	H	
DELTA-LEG-0	Error in Monopole Legendre coefficient	H	
DELTA-LEG-1	Error in Legendre coefficient-1	H	
DELTA-LEG-2	Error in Legendre coefficient-2	H	
DELTA-LEG-3	Error in Legendre coefficient-3	H	
DELTA-LEG-4	Error in Legendre coefficient-4	H	
DELTA-LEG-5	Error in Legendre coefficient-5	H	
DELTA-LEG-6	Error in Legendre coefficient-6	H	
DELTA-LIFE	Error in Life time	H	
DELTA-MAG-MMT	Error in Magnetic moment	H	
DELTA-MIX-RATIO	Error in Mixing ratio	H	
DELTA-MLT	Error in Multiplicity	H	
DELTA-MLTPOL-MMT-2	Error in Quadrupole moment	H	
DELTA-MOST-PRBLE-CHRG	Error in Most probable charge	H	
DELTA-MOTT-RATIO	Error in Cross section ratio to Mott cross section	H	
DELTA-MULT	Error in Multiplicity	H	O
DELTA-PART-WDTH	Error in Partial width	H	
DELTA-PART-WDTH	Error of Partial width	F	
DELTA-POL	Error in Polarization	H	
DELTA-POL-PRJ	Error of beam polarization	F	
DELTA-POL-TRNSF	Error in Polarization transffer	H	
DELTA-QVL	Error in Q-value	H	
DELTA-RCT-XSECTN	Error in Reaction cross section	H	
DELTA-REL-INTNSTY-GAMMA	Error in Relative intensity of gamma	H	
DELTA-RESN-ENGY	Error in Resonance energy	H	
DELTA-RESN-STRGTH	Error in Resonance strength	H	
DELTA-RESN-STRGTH	Error in Resonance strength	H	
DELTA-RUTH-RATIO	Error in Cross section ratio to Rutherford cross section	H	

DELTA-SEP-ENGY	Error in Separation energy	H	
DELTA-SFLP	Error in Spin-flip probablity	H	
DELTA-SIGMA	Error in Total cross section	H	
DELTA-SPEC-AMPL	Error in Spectroscopic amplitude	H	
DELTA-SPEC-FCTR	Error in Spectroscopic factor	H	
DELTA-SPIN-CORRL-PARA	Error in Spin correlation parameter	H	
DELTA-STRGTH-FUNCT	Error in Strength function	H	
DELTA-THTC	Error in Scattering angle in c.m. system	H	
DELTA-THTL	Error in Scattering angle in lab. system	H	
DELTA-TNSR-ANALPW	Error in Tensor analyzing power	H	
DELTA-TOT-KIN-ENGY	Error in Total kinetic energy	H	
DELTA-TOT-RCT-XSECTN	Error in Total reaction cross section	H	
DELTA-TOT-WDTH	Error in Total level width	H	
DELTA-TRNSN-STRGTH	Error in Transition strength	H	
DELTA-TTY	Error in Thick target yield	H	
DELTA-VCT-ANALPW	Error in Vector analyzing power	H	O
DELTA-VCTR-ANALPW	Error in Vector analyzing power	H	
DELTA-WDTH	Error in Width	H	
DELTA-XSECTN	Error in Cross section	H	
DELTA-XSECTN-RATIO	Error in Cross section ratio	H	
DELTA-YLD	Error in Yield (continuous quantity)	H	
DET	Detector	W	
DET-PARTCL	Detected particle	F	
DET-SYS	Detector system	F	
DICTIONARY	Code dictionary of NRDF	S	
DIFF	Difference	W	
DIRECT	Direct	W	
DIRECT-PROC	Direct process	V-6	
DIRECT-RCT	Direct reaction	V-3	
DISP	Displacement	W	
DISTANCE	Distance	W	
DLL	Polarization transfer parameter D(L'L)	H	
DLL	D(L'L) component of polarization transfer parameter	W	
DLS	Polarization transfer parameter D(L'S)	H	
DLS	D(L'S) component of polarization transfer parameter	W	
DN/DOMEGA	dN/dOmega	H	
DN/DOMEGA/DE	d2N/dOmega/dE	H	
DNN	Polarization transfer parameter D(N'N)	H	
DNN	D(N'N) component of polarization transfer parameter	W	
DNSTY	Density	H	
DNSTY	Density	W	
DNSTY-DSTRN	Density distribution	V-7	
DPND	Dependent, Dependence	W	
DSA	Doppler shift attenuation method	V-6	
Dsa	Doppler shift attenuation method	W	O
DSA	Doppler shift attenuation method	W	
DSIGMA	d2sigma/dOmega2	H	O
DSIGMA/DA	Isobaric cross section	H	
DSIGMA/DE	dsigma/dE	H	
DSIGMA/DOMEGA	dsigma/dOmega	H	
DSIGMA/DOMEGA/DE	d2sigma/dOmega/dE	H	
DSIGMA/DOMEGA/DE/DOMEGA/DE	d4sigma/dOmega/dE/dOmega/dE	H	
DSIGMA/DOMEGA/DOMEGA	d2sigma/dOmega/dOmega	H	
DSIGMA/DOMEGA/DOMEGA/DE	d3sigma/dOmega/dOmega/dE	H	
DSIGMA/DOMEGA/DP	d2sigma/dOmega/dp	H	
DSIGMA/DOMEGA-RATIO	dsigma/dOmega ratio	H	

DSIGMA/DPL	dsigma/dp(longitudinal)	H	
DSL	Polarization transfer parameter D(S'L)	H	
DSL	D(S'L) component of polarization transfer parameter	W	
DSS	Polarization transfer parameter D(S'S)	H	
DSS	D(S'S) component of polarization transfer parameter	W	
DSTRN	Distribution	W	
D-STRP	Deuteron stripping reaction	V-3	
DWBA	DWBA : Distorted wave Born approximation	V-6	
DWBA	Distorded wave Born approximation	W	
DWIA	DWIA : Distorted wave impulse approximation	V-6	
DWIA	Distorded wave impulse approximation	W	
E	Elementary electric charge	W	
E**2*FM**10	e**2*fm**10	V-14	
E**2*FM**4	e**2*fm**4	V-14	
E*B	eb (Q2 moment)	V-14	
E*B**4	eb**4 (Q4 moment)	V-14	
EDE	E/dE counter for particle id	V-5	
EDE	E/dE measurment for particle id. (also in EXFOR)	W	
EFCN	Efficiency	W	
EFCN-DET	Efficiency of detectors	F	
EFCTV-CHRG	Effective charge	H	
EFCTV-CHRG	Effective charge	V-7	
ELA	Elastic	W	
ELA-SCATT	Elastic scattering	V-3	
ELM	Element	V-8.3	
ELM	Element (for chemical form)	W	
ELMT	Element	W	
EL-N	Electric N=1,2,..,	W	
EMLSN	Emulsion	V-5	
EMLSN	Emulsion	V-8.3	
EMLSN	Emulsion	W	
EMT	Emitted particle	F	
EMT	Emitted, Emitted particle	W	
EMT-1	Emitted particle 1	F	
EMT-2	Emitted particle 2	F	
EMT-ENGY	Energy of emitted particle	H	O
END	End of data table / End of data stream	S	
ENGY	Energy	H	
ENGY	Energy	W	
ENGY-COINC-GAMMA	Coincident gamma	H	
ENGY-COINC-GAMMA	Coincident gamma	V-7	
ENGY-EMT	Energy of outgoing particle	H	
ENGY-EMT-1-CM	Energy of emitted particle 1 in c.m. system	H	
ENGY-EMT-1-CM	Energy of emitted particle 1 in c.m. system	F	
ENGY-EMT-1-LAB	Energy of emitted particle 1 in lab. system	F	
ENGY-EMT-1-LAB	Energy of emitted particle 1 in lab. system	H	
ENGY-EMT-2-CM	Energy of emitted particle 2 in c.m. system	H	
ENGY-EMT-2-CM	Energy of emitted particle 2 in c.m. system	F	
ENGY-EMT-2-LAB	Energy of emitted particle 2 in lab. system	F	
ENGY-EMT-2-LAB	Energy of emitted particle 2 in lab. system	H	
ENGY-EMT-CM	Energy of emitted particle in c.m. system	H	
ENGY-EMT-CM-MAX	Energy of emitted particle in c.m. system (upper limit)	H	
ENGY-EMT-CM-MIN	Energy of emitted particle in c.m. system (lower limit)	H	
ENGY-EMT-LAB	Energy of emitted particle in lab. system	F	
ENGY-EMT-LAB	Energy of emitted particle in lab. system	H	
ENGY-EMT-LAB-GAMMA	Energy of emitted gamma ray in lab. system	F	

ENGY-EMT-LAB-MAX	Energy of emitted particle in lab. system (upper limit)	H	
ENGY-EMT-LAB-MIN	Energy of emitted particle in lab. System 'lower limit)	H	
ENGY-EXCS	Energy excess	H	
ENGY-GAMMA	Energy of gamma ray	F	
ENGY-GAMMA	Energy of gamma-ray	H	
ENGY-GAMMA	Energy of gamma-ray	V-7	
ENGY-GAMMA-COINC	Energy of coincident gamma ray	F	
ENGY-SIGMA-INT	sigma*E**n dE integrated	V-7	
ENGY-SPEC	Energy spectrum	V-7	
ENR	Enrichment	W	
ENR	Enrichment of target nucleus	F	
ERR	Error	W	
ERS-DET	Energy resolution of detected particle	F	
ERS-PRJ	Energy resolution of projectile	F	
EV	eV (electron-volt)	V-14	
EV	Electron-volt	W	
EV*10**-3	meV (milli-electron-volt)	V-14	
EWSR	Energy weighted sum rule	H	
EWSR	Energy weighted sum rule	V-7	
EWSR	Energy weighted sum rule	W	
EXC	Excitation	W	
EXC-ENGY	Excitation energy	F	
EXC-ENGY	Excitation energy	H	
EXC-ENGY-CMPD	Excitation energy of compound nucleus	F	
EXC-ENGY-COINC-FINAL	Excitation energy of final state in coincidence	F	
EXC-ENGY-COINC-INITL	Excitation energy of initial state in coincidence	F	
EXC-ENGY-EMT	Excitation energy of emitted particle	F	
EXC-ENGY-EMT	Excitation energy of outgoing particle	H	
EXC-ENGY-EMT-1	Excitation energy of emitted particle 1	F	
EXC-ENGY-EMT-2	Excitation energy of emitted particle 2	F	
EXC-ENGY-FINAL	Excitation energy of final level	F	
EXC-ENGY-FINAL	Excitation energy of final state	H	
EXC-ENGY-INITL	Excitation energy of initial level	F	
EXC-ENGY-INITL	Excitation energy of initial state	H	
EXC-ENGY-INTRM	Excitation energy of intermediate nucleus	F	
EXC-ENGY-INTRM	Excitation energy of intermediate nucleus	H	
EXC-ENGY-INTRM-MAX	Excitation energy of intermediate nucleus (lower limit)	H	
EXC-ENGY-INTRM-MIN	Excitation energy of intermediate nucleus (upper limit)	H	
EXC-ENGY-MAX	Excitation energy (upper limit)	H	
EXC-ENGY-MIN	Excitation energy (lower limit)	H	
EXC-FUNCT	Excitation function	V-7	
EXCITON	Exciton	V-6	
EXCITON	Exciton	W	
EXCITON-MODEL	Exciton model	V-6	
EXCS	Excess	W	
EXP	Name of experimental condition secton	S	
FADDEEV	Faddeev method	V-6	
FADDEEV	Faddeev method	W	
FCTR	Factor	W	
FF	Form factor	W	
FINAL	Final	W	
FISSN	Fission	V-3	
FISSN	Fission	W	
FISSN-XSECTN	Fission cross section	H	
FISSN-XSECTN	Fission cross section	V-7	
FISSN-YLD	Fission yield	V-7	

FLAG	Flag	H	
FM	fm (femt-meter)	V-14	
FM	fm (femt-meter)	W	
FM**(-1)	1/fm	V-14	
FM**-1	1/fm	V-14	
FM**2	fm**2	V-14	
FORM	Form	W	
FORM-FCTR	Form factor	V-7	
FRAG	Fragmentation	V-3	
FRAG	Fragment, Fragmentation	W	
FRAG-ENGY	Fragment energy	H	
FUNCT	Function	W	
FUSN	Fusion	V-3	
FUSN	Fusion	W	
G	g (gram)	V-14	
GAMMA	Gamma	V-13	
GAMMA	Gamma ray, Gamma decay	W	
GAMMA-SPEC	gamma spectrum	V-7	
GAS	Gas target	V-8.2	
GATING-GAMMA	Gaiting gamma	H	
GE	Germanium detector	V-5	
GE	Germanium detector	W	
GE(LI)	Germanium-Lithium detector	V-5	
GE(LI)	Germanium (Lithium) detector	W	
GEV	GeV (giga-electron-volt)	V-14	
GEV	GeV (giga-electron-volt)	W	
GEV/A	GeV/A	V-14	
GEV/C	GeV/c	V-14	
G-FCTR	g-factor (gyro-magnetic ratio)	H	
G-FCTR	g-factor (gyro-magnetic ratio)	V-7	
GIA-RESN	Giant resonance	V-7	
GLAUBER	Glauber approximation	V-6	
GLAUBER	Glauber approximation	W	
GMC	Geiger-Mueller counter	V-5	
GMC	Geiger-Mueller counter	W	
HALF	Half	W	
HALF-LIFE	Half life time	H	
HALF-LIFE	Half life time	V-7	
HBAR	hbar (Planck constant)	V-14	
HE3	Helium-3	V-13	O
HE3	Helium 3	W	O
HEAVY	Heavy	W	
HEAVY-ION-RCT	Heavy ion reaction	V-3	
HEAVY-PARTCL-STRP	Heavy particle stripping	V-3	
HNDR	Hindrance factor F=T1/2(Exp)/T1/2(Theory)	H	
HNDR	Hindrance factor F=T1/2(Exp)/T1/2(Theory)	V-7	
HNDR	Hindrance factor	W	
HOUR	h (hour)	V-14	
HPGE	Hyperpure germanium detector	V-5	
IA-RESN	Isobaric analog resonance	V-3	
IAS	Isobaric analog state	V-7	
IAS	Isobaric analog state	W	
IBM	Interacting boson model	V-6	
IBM	Interacting boson model	W	
IC	Ionization chamber	V-5	
IC	Ionization chamber	W	

IMPULSE-APPROX	Impulse approximation	V-6	
INBM	Inbeam	W	
INBM-X	In-beam X spectroscopy	V-3	
INC	Incident	W	
INCASC	Intranuclear cascade model	V-6	
INCASC	Intranuclear cascade model	W	
INC-ENGY	Incident energy	F	O
INC-ENGY-CM	Incident energy in c.m. system	H	
INC-ENGY-CM	Incident energy in c.m. system	F	
INC-ENGY-CM-RANGE	Incident energy range in c.m. system	F	
INC-ENGY-LAB	Incident energy in lab. system	F	
INC-ENGY-LAB	Incident energy in lab. system	H	
INC-ENGY-LAB-RANGE	Incident energy range in lab. system	F	
INC-ENGY-RANGE	Incident energy range	F	O
INCL	Inclusive reaction	V-3	
INCL	Inclusive, Inclusive reaction	W	
INC-MOM-CM	Incident momentum in c.m. system	F	
INC-MOM-LAB	Incident momentum in lab. system	F	
INC-MOM-LAB	Incident momentum in lab. system	H	
INEL	Inelastic	W	
INEL-SCATT	Inelastic scattering	V-3	
INITL	Initial	W	
INST	Institution	W	
INST-ACC	Institution where accelerator is located	F	
INST-ATH	Institution of author	F	
INT	Interaction	W	
INTNSTY	Intensity	H	
INTNSTY	Intensity	W	
INTNSTY-GAMMA	Intensity of gamma transition	H	
INTRM	Intermediate nucleus	W	
INTRM	Intermediate nucleus	F	
ION	Ion	W	
ION-SOURCE	Ion source	F	
IPA	Impulse approximation	W	
IPA@	Impulse approximation	V-6	O
IPC	Rsearch report of IPCR	W	
ISOAN	Isobaric analog	W	
ISOMER	Isomer	H	
ISOMER	Isomer	W	
ISOSPIN	Isospin	H	
ISOSPIN	Isospin	W	
ISOSPIN	Isospin (of initial level)	F	
ISOSPIN-CMPD	Isospin of compound nucleus	F	
ISOSPIN-COINC-FINAL	Isospin of final level in coincidence	F	
ISOSPIN-COINC-INITL	Isospin of initial level in coincidence	F	
ISOSPIN-EMT	Isospin of emitted particle	F	
ISOSPIN-EMT-1	Isospin of emitted particle 1	F	
ISOSPIN-EMT-2	Isospin of emitted particle 2	F	
ISOSPIN-FINAL	Isospin of final level	F	
ISOSPIN-INITL	Isospin of initial level	F	
ISOSPIN-INTRM	Isospin of intermediate nucleus	F	
J	J (Total angular momentum)	H	
J	Total angular momentum or total spin	W	
J-DPND	J-dependence	V-7	
JI/A	Volume integral of imag. part of opt. pot. parameter	H	
JI/A	Volume integral of imaginary part of optical potential	W	

J-PI	J parity	H	O
J-PTY	J parity	H	
J-PTY	J parity of final state	F	
J-PTY-CMPD	J parity of compound nucleus	F	
J-PTY-COINC-FINAL	J parity of final state in coincidence	F	
J-PTY-COINC-INITL	J parity of initial state in coincidence	F	
J-PTY-EMT	J parity of emitted particle	F	
J-PTY-EMT-1	J parity of emitted particle 1	F	
J-PTY-EMT-2	J parity of emitted particle 2	F	
J-PTY-FINAL	J parity of final state	F	
J-PTY-FINAL	J parity of final level	H	
J-PTY-INITL	J parity of initial state	F	
J-PTY-INITL	J parity of initial level	H	
J-PTY-INTRM	J parity of intermediate nucleus	F	
JR/A	Volume integral of real part of opt. pot. parameter	H	
JR/A	Volume integral of real part of optical potential parameter	W	
K	Kaon	W	
K0	Kaon0	V-13	
K0	Kaon0	W	
KBD-MODEL	KBD Model	V-6	
KCL.	KCl	V-8.3	
K-CONV-COEF	K conversion coefficient	H	
K-CONV-COEF	K conversion coefficient	V-7	
KEV	keV (kilo-electron-volt)	V-14	
KEV	keV (kilo-electron-volt)	W	
KEV*B	keVb	V-14	
KG	kg (kilo-gram)	V-14	
KIN	Kinetic	W	
KN	Kaon-	V-13	
KN	Kaon-	W	
KNOCK	Knock-on reaction	V-3	
KNOCK	Knock-on reaction	W	
KP	Kaon+	V-13	
KP	Kaon+	W	
L	L (Orbital angular momentum)	H	
L	Orbital angular momentum	W	
LAB	Laboratory	W	
LAMDA	Lambda	V-13	
LAMDA	G.LAMDA, Lambda baryon	W	
LEG	Legendre coefficient	H	
LEG	Legendre coefficients	W	
LEG-0	Monopole Legendre coefficient	H	
LEG-1	Legendre coefficient-1	H	
LEG2	Legendre coefficient-2	H	O
LEG2	Legendre coefficients, angular distribution of coefficients	W	O
LEG-2	Legendre coefficient-2	H	
LEG-3	Legendre coefficient-3	H	
LEG-4	Legendre coefficient-4	H	
LEG-5	Legendre coefficient-5	H	
LEG-6	Legendre coefficient-6	H	
LEGD	Legendre polynomals analysis	V-6	
LEGD	Legendre polynominal	W	
LEVEL	Level	W	
LEVEL-CMPD	Level of compound nucleus	V-7	
LIFE	Life time	H	
LIFE	Life time	V-7	

LIFE	Life time	W	
LIFE-AVER	Mean life time	H	
LIFE-AVER	Mean life time	V-7	
LINAC	Linear accelerator	V-4	
LIQD	Liquid target	V-8.2	
LIQUID	Liquid	W	
LIQUID-SCT	Liquid Scintillator	V-5	
LNGTD	Longitudinal	W	
M	m (meter)	V-14	
MA	mA (milli-ampere)	V-14	
MAG	Magnet	V-5	
MAG	Magnet, Magnetic	W	
MAG+CNTR-TLSCP	Magnet+Count. telescope	V-5	
MAG+CRNKOV+TOF	Magnet+Cerenkov counter+ToF	V-5	
MAG+MWDC+CRNKOV	Magnet+MWDC+Cerenkov Count.	V-5	
MAG+MWPC+PLST-SCT+CNTR-TLSCP+NAI	Magnet+MWPC+PS+Count. telescope+NAI	V-5	
MAG+PLATE	Magnet+Plate	V-5	
MAG+PLST-SCT	Magnet+PS	V-5	
MAG+PLST-SCT+CRNKOV	Magnet+PS+Cerenkov	V-5	
MAG+PLST-SCT+MWDC	Magnet+PS+MWDC	V-5	
MAG+PLST-SCT+MWPC	Magnet+PS+MWPC	V-5	
MAG+PLST-SCT+TOF	Magnet+PS+ToF	V-5	
MAG+PLST-SCT+TOF+CNTR-PROP	Magnet+PS+ToF+Prop.count.	V-5	O
MAG+PLST-SCT+TOF+CNTR-TLSCP	Magnet+PS+ToF+Count. telescope	V-5	
MAG+PLST-SCT+TOF+LIQUID-SCT	Magnet+PS+ToF+Liquid Scint.	V-5	
MAG+PLST-SCT+TOF+MWPC	Magnet+PS+ToF+MWPC	V-5	
MAG+PLST-SCT+TOF+PROP-CNTR	Magnet+PS+ToF+prop.count.	V-5	
MAG+PLST-SCT+WPC	Magnet+PS+Helicalwire prop. chamber	V-5	
MAG+PLST-SCT+X	Magnet+PS+something unknown	V-5	
MAG+PS-PC	Magnet+Posit. sens. prop.count.	V-5	
MAG+PS-PC+PLST-SCT	Magnet+Posit.sens.prop.count.+PS	V-5	
MAG+PS-PC+PLST-SCT+CNTR-TLSCP	Magnet+Posit.sens.prop.count.+PS+Count. telescope	V-5	
MAG+PS-SI	Magnet+Posit. sens. Si	V-5	
MAG+PS-SI+PS-PC	Magnet+Posit. sens. Si+Posit.sens.prop.count.	V-5	
MAG+SBD	Magnet+Silicon surface barrier detector	V-5	
MAG+SCT+TOF+MWPC	Magnet+Scintillator+ToF+MWPC	V-5	
MAG+SPK	Magnet+Spark chamber	V-5	
MAG+SSD	Magnet+Solid state detector	V-5	
MAG+TOF	Magnet+ToF	V-5	
MAG+X	Magnet+something unknown	V-5	
MAG-MMT	Magnetic moment	H	
MAG-MMT	Magnetic moment	V-7	
MASS	Mass	V-7	
MASS	Mass	W	
MASS-EXCS	Mass excess	H	
MASS-EXCS	Mass excess	V-7	
MB	mb (milli-barn)	V-14	
MB	mb (milli-barn)	W	
MB/(GEV/C)**2	mb/(GeV/c)**2	V-14	
MB/(MEV/C)	mb/(MeV/c)	V-14	
MB/KEV	mb/keV	V-14	
MB/MEV	mb/MeV	V-14	
MB/MSR	mb/msr	V-14	
MB/SR	mb/sr	V-14	
MB/SR**2	mb/sr**2	V-14	
MB/SR**2/MEV	mb/sr**2/MeV	V-14	

MB/SR**2/MEV**2	mb/sr**2/MeV**2	V-14	
MB/SR/(GEV/C)	mb/sr/(GeV/c)	V-14	
MB/SR/(MEV/C)	mb/sr/(MeV/c)	V-14	
MB/SR/KEV	mb/sr/keV	V-14	
MB/SR/MEV	mb/sr/MeV	V-14	
MB/SR/SR	mb/sr/sr	V-14	
MB/SR/SR/MEV	mb/sr/sr/MeV	V-14	
MCPLT	Microchannel plate	V-5	
MCPLT	Microchannel plate	W	
MEHD	Method	W	
MEV	MeV (mega-electron-volt)	V-14	
MEV*B	MeVb	V-14	
MEV/A	MeV/A	V-14	
MEV/B	MeV/b	V-14	
MEV/C	MeV/c	V-14	
MEV/C**2	MeV/c**2	V-14	
MEV/FM**3	MeV/fm**3	V-14	
MEV/MB	MeV/mb	V-14	
MG	mg (milli-gram)	V-14	
MG/CM**2	mg/cm**2	V-14	
MILTST	Two-step or multi-step approximation	V-6	O
MIN	min (minute)	V-14	
MIX	Mixing	W	
MIX-RATIO	Mixing ratio	H	
MIX-RATIO	Mixing ratio	V-7	
MLT	Multiplicity	H	
MLT	Multiplicity	V-7	
MLT	Multiplicity	W	
MLTPOL	Multipole	H	
MLTPOL	Multipole	V-7	
MLTPOL	Multipole	W	
MLTPOL-MMT-2	Quadrupole moment	H	
MLTPOL-MMT-4	Hexadecapole moment	H	
MM	mm (milli-meter)	V-14	
MMT	Moment	H	
MMT	Moment	W	
MMT-CM	Momentum in c.m. system	H	O
MMT-DSTRN	Momentum distribution	V-7	O
MMT-EMT	Momentum of emitted particle	H	O
MMT-EMT-LAB	Momentum of emitted particle in lab. system	H	O
MODEL	Model	W	
MOM	Momentum	H	
MOM	Momentum	W	
MOM	Momentum	F	
MOM-CM	Momentum in c.m. system	H	
MOM-DSTRN	Momentum distribution	V-7	
MOM-EMT	Momentum of emitted particle	H	
MOM-EMT-LAB	Momentum of emitted particle in lab. system	H	
MOM-LNGTD	Momentum (longitudinal component)	H	
MOM-TRNSV	Momentum (transverse component)	H	
MONTE	Monte-Carlo	W	
MONTE-MTHD	Monte-Carlo method	V-6	
MONTR	Monitor	W	
MONTR-RCT	Monitor reactions	F	
MOST	Most	W	
MOST-PRBLE-CHRG	Most probable charge	H	

MOST-PRBLE-CHRG	Most probable charge	V-7	
MOTT	Mott	W	
MOTT-RATIO	Cross section ratio to Mott cross section	H	
MS	ms (milli-second)	V-14	O
MS	ms (milli-second)	W	O
MSEC	ms (milli-second)	V-14	
MSEC	ms (milli-second)	W	
MSR	msr (milli-steradian)	V-14	
MU	Muon	V-13	
MU	Muon	W	
MULT	Multiplicity	H	O
MULT	Multiplicity	V-7	O
MULT	Multiplicity	W	O
MULTIPOL	Multipole	H	O
MULTIPOL	Multipole	V-7	O
MULTST	Two-step or multi-step approximation	V-6	
MULTST	Two-step or multi-step approximation	W	
MUN	Muon-	V-13	
MUN	Muon-	W	
MUP	Muon+	V-13	
MUP	Muon+	W	
MUTIPOL	Multipole	W	O
MWDC	MWDC : Multiwire drift chamber	V-5	
MWDC	Multiwire drift chamber	W	
MWPC	MWPC : Multiwire proportional chamber	V-5	
MWPC	Multiwire proportional chamber	W	
MYLAR	Mylar film	V-8.4	
MYLAR	Mylar films	W	
N	Neutron	V-13	
N	Neutron	W	
NA	nA (nano-ampere)	V-14	
NA.BR.	NaBr	V-8.3	
NAI	NaI crystal	V-5	
NAI	NaI	W	
NAT	Natural target	V-8.1	
NAT	Natura ltarget (for enrichment)	W	
NB	nb (nano-barn)	V-14	
NB	nb (nano-barn)	W	
NB/SR	nb/sr	V-14	
NB/SR**2	nb/sr**2	V-14	
NB/SR**2/MEV**2	nb/sr**2/MeV*:2	V-14	
NB/SR/(MEV/C)	nb/sr/(MeV/c)	V-14	
NB/SR/MEV	nb/sr/MeV	V-14	
N-BDY	N-body reaction N=1,2,..	W	
N-COMP	Neutron number of residual nucleus	H	
N-DSTRN	Neutron number distribution of products	V-7	
N-EMT	Neutron number of emitted particle	H	
NG	ng (nano-gram)	V-14	
NILS	Nilsson	W	
NILS-MODEL	Nilsson model	V-6	
NM	nm (nano-meter)	V-14	
N-MLT	Neutron multiplicity	H	
N-MLT	Neutron multiplicity	V-7	
NNBR	Neutron number	W	
NO	No	V-9	
NO	No	W	

NODIM	Nodimension	V-14	
NODIM	No dimension	W	
NORM	Normalization	F	
NORM	Normalization	W	
N-PRJ	Neutron number of projectile	H	
NRDF	Nuclear Reaction Data File	S	
N-RESD	Neutron number of residual nucleus	H	
NSEC	ns (nano-second)	V-14	
NSEC	ns (nano-second)	W	
N-TGT	Neutron number of target nucleus	H	
N-TRNSF	N nucleon transfer reaction N=1,2,..	V-3	
NUCL	Nucleus	H	
NUCL	Nucleus	W	
OBS	Observed	W	
OBS-PARTCL	Observed particle	H	
OPT	Optical	W	
OPT-MODEL	Optical model	V-6	
OPT-POTL-PARA	Optical potential parameter	V-7	
OXD	Oxide	W	
OXD-PWD	Oxide powders	V-8.3	
P	Proton	V-13	
P	Proton	W	
PARA	Parameter	W	
PART	Partial	W	
PARTCL	Particle	W	
PARTCL-EMT	Emitted particle	H	
PART-WAVE	Partial wave	H	
PART-WDTH	Partial width	H	
PART-WDTH	Partial width	V-7	
PART-WDTH	Partial width	F	
PB	pb (pico-barn)	V-14	
PC	Proportional counter	V-5	O
PC	Proportional counter	W	
PHIC	Scattering angle phi in c.m. system	H	
PHIC-1	Scattering angle phi of emitted particle 1 in c.m. system	F	
PHIC-2	Scattering angle phi of emitted particle 2 in c.m. system	F	
PHIL	Scattering angle phi in lab. system	H	
PHIL-1	Scattering angle phi of emitted particle 1 in lab. system	F	
PHIL-2	Scattering angle phi of emitted particle 2 in lab. system	F	
PHQ	Physical quantity	W	
PHQ	Physical quantity	F	
PHQS	Physical quantitie list	F	
PHQS	Physical quantity list	W	
PHYS	Physical	W	
PHYS-FORM	Physical form of target nucleus	F	
PI	Pion	V-13	
PI	Pion	W	
PI0	Pion0	V-13	
PI0	Pion0	W	
PIN	Pion-	V-13	
PIN	Pion-	W	
PIP	Pion+	V-13	
PIP	Pion+	W	
PKUP	Pick-up reaction	V-3	
PKUP	Pick-up	W	
PLATE	Nuclear plate (Emulsion)	V-5	

PLST	Plastic	W	
PLST-SCT	PS : Plastic Scintillator	V-5	
PM	pm (pico-meter)	V-14	
PNA	pnA (particle nA)	V-14	
PNA	pnA (particle nA)	W	
POINT	Point	W	
POL	Polarization	H	
POL	Polarization	V-7	
POL	Polarization	W	
POLE	Pole	W	
POL-PRJ	Polarization of beam	F	
POL-RCT	Polarization reaction	V-3	
POL-TGT	Polarization of target	F	
POL-TRNSF	Polarization transfer	H	
POL-TRNSF	Polarization transfer	V-7	
POPLTN	Population intensity	H	
POPLTN	Population intensity	V-7	
POPLTN	Population	W	
POTL	Potential	W	
POTL-FORM	Optical potential form	F	
PPAC	PPAC: Parallel plate avalanche counter	V-5	
PPAC	PPAC: Parallel plate avalanche counter	W	
PPS	pps (particle per second)	V-14	
PPS	pps (particle per second)	W	
PRBLE	Probable	W	
PRBTY	Probability	W	
PREEQUI	Pre-equilibrium model	V-6	O
PREEQUI	Pre-equilibrium model	W	
PREEQUI-MODEL	Pre-equilibrium model	V-6	
PRJ	Projectile	W	
PRJ	Projectile	F	
PROC	Process	W	
PROMPT	Prompt	W	
PROP	Proportional	W	
PROP-CNTR	Proportional counter	V-5	
PROX	Proximity reaction	V-3	
PROX	Proximity	W	
PS	ps (pico-second)	V-14	O
PS	Position sensitive	W	
PSEC	ps (pico-second)	V-14	
PSEC	ps (pico-second)	W	
PSHIFT	Phase shift	H	
PSHIFT	Phase shift	V-7	
PSHIFT	Phase shift	W	
PSHIFT-ANL	Phase shift analysis	V-6	
PSI	G.PSI	W	
PS-IC	Position sensitive ionization chamber	V-5	
PS-PC	Position sensitive proportional counter	V-5	
PS-SI	Position sensitive Silicon detector	V-5	
PS-SSD	Position sensitive solid state detector	V-5	
PTY	Parity	H	
PTY	Parity	V-7	
PTY	Parity	W	
PURPOSE	Purpose of experiment	F	
PW	Proportional wire chamber	V-5	O
PW	Proportional wire chamber	W	

PWBA	PWBA : Plane wave Born approximation	V-6	
PWBA	Plane wave Born approximation	W	
PWD	Powder	W	
PWIA	PWIA : Plane wave impulse approximation	V-6	
PWIA	Plane wave impulse approximation	W	
QTY	Quantity	W	
QVL	Q-value	H	
QVL	Q-value	V-7	
QVL	Q-value	W	
QVL	Q-value of reaction	F	
RAD	rad (radian)	V-14	
RANGE	Range	W	
RATIO	Ratio	W	
RC	Radius of pot. of Coulomb type	V-11	
RCT	Reaction	W	
RCT	Reaction	F	
RCTS	Reaction list	F	
RCTS	Reaction list	W	
RCT-TIME	Reaction time	H	
RCT-TIME	Reaction time	V-7	
RCT-XSECTN	Reaction cross section	H	
RCT-XSECTN	Reaction cross section	V-7	
REC	Reference code	W	
RECL	Recoil	W	
RECL-DISTANCE	Recoil distance	H	
RECL-DISTANCE	Recoil distance	V-7	
REDUCED	Reduced	W	
REDUCED-WDTH	Reduced width	H	
REDUCED-WDTH	Reduced width	V-7	
REF	Reference	W	
REF	Reference	F	
REL	Relative	W	
REL-INTNSTY-GAMMA	Relative intensity of gamma	H	
REL-MOM	Relative momentum	H	
RESD	Residual	W	
RESN	Resonance reaction	V-3	
RESN	Resonance	W	
RESN-ENGY	Resonance energy	H	
RESN-ENGY	Resonance energy	V-7	
RESN-STRGTH	Resonance strength	H	
RESN-STRGTH	Resonance strength	V-7	
RESN-THEORY	Resonance theory	V-6	
RESN-WDTH	Resonance width	H	
RESN-WDTH	Resonance width	V-7	
RIA	Relativistic mpulse approximation	V-6	
RIG	Radius of imag. pot. of surface gaussian type	V-11	
RIS	Radius of imag. pot. of surface type	V-11	
RISO	Radius of imag. pot. of spin-orbit type	V-11	
RIV	Radius of imag. pot. of volume type	V-11	
RMS	Root mean square radius	H	
RMS	Root mean square radius	W	
RMTRX	R-matrix	W	
RMTRX-THEORY	R-matrix theory	V-6	
RPA	Randum phase approximation	V-6	
RR	Radius of real pot. of central type	V-11	
RRG	Rearrangement	W	

RRG-RCT	Re-arrangement reaction	V-3	
RRSO	Radius of real pot. of spin-orbit type	V-11	
RSD	Residual nucleus	H	
RSD	Residual nucleus	W	
RSD	Residual nucleus	F	
RTY	Reaction type	W	
RTY	Reaction type	F	
RUTH	Rutherford	W	
RUTH-RATIO	Cross section ratio to Rutherford cross section	H	
SBD	Silicon surface barrier detector	V-5	
SBD	Surface barrier detector	W	
SCATT	Scattering	W	
S-CMPD	Symbol of compound nucleus	H	
S-COMP	Symbol of compound nucleus	H	O
SCT	Scintillator	V-5	
SCT	Scintillator	W	
SEC	sec (second)	V-14	
SECTION	Descriptive unit composing dataset of NRDF	S	
SELF	Self-supported (Self-backing)	V-8.4	
SELF	Self-backing	W	
SEMICL	Semi-classical	W	
SEMICL-MODEL	Semi-classical model	V-6	
S-EMT	Symbol of emitted particle	H	
SEP	Separation	W	
SEP-ENGY	Separation energy	H	
SEP-ENGY	Separation energy	V-7	
SFCTR	S-factor	W	
SFLP	Spin-flip probability	H	
SFLP	Spin-flip probability	V-7	
SFLP	Spin-flip probability	W	
SHELL	Shell	W	
SHELL-MODEL	Shell model	V-6	
SI	Silicon detector	V-5	
SI	Silicon	W	
SI(LI)	Silicon-Lithium detector	V-5	
SI.O	SiO	V-8.3	
SI.O2	SiO2	V-8.3	
SIGMA	Total Cross section	H	
SIGMA	Total cross section	W	
SIGMA0	Simga0	V-13	
SIGMAN	Simga-	V-13	
SIGMAP	Sigma+	V-13	
SLD	Solid target	V-8.2	
SLD	Solid target	W	
SMTRX	S-matrix	W	
SMTRX-THEORY	S-matrix theory	V-6	
SOLID	Solid	V-8.2	O
SOLID	Solid	W	
SOLID-ANG	Solid angle	H	O
SOLID-ANGL	Solid angle	F	
SOLID-ANGL	Solid angle	H	
SP	Single particle	W	
SPAL	Spallation	V-3	
SPAL	Spallation	W	
SPEC	Spectroscopic	W	
SPEC-AMPL	Spectroscopic amplitude	H	

SPEC-AMPL	Spectroscopic amplitude	V-7	
SPEC-FCTR	Spectroscopic factor	H	
SPEC-FCTR	Spectroscopic factor	V-7	
SPEC-FCTR	Spectroscopic factor	F	
SPIN	Spin	H	
SPIN	Spin	W	
SP-INCL-SPEC	Single particle inclusive spectra	V-7	
SPIN-CORRL	Spin correlation parameters	H	O
SPIN-CORRL	Spin correlation parameters	V-7	O
SPIN-CORRL-PARA	Spin correlation parameter	H	
SPIN-CORRL-PARA	Spin correlation parameter	V-7	
SPK	Spark chamber	V-5	
SPK	Spark chamber	W	O
SPKC	Spark chamber	W	
S-PRJ	Symbol of projectile	H	
SQ	Square	W	
SQ-COS	Squared cosine	H	
SQ-COS-CM	Squared cosine in c.m. system	H	
SQ-COS-LAB	Squared cosine in lab. system	H	
SQ-MMT	Square of 4 or 3 dimensional momentum transffer	H	O
SQ-MOM	Square of 4 or 3 dimensional momentum transffer	H	
SQNTL	Sequential	W	
SQNTL-RCT	Sequantial reaction	V-3	
SQ-REDUCED-WDTH	Square of reduced width	H	
SQ-REDUCED-WDTH	Square of reduced width	V-7	
SQRT	Square-root	W	
SQRT-C2S	C**2*S (Spectroscopic factor)	H	
SR	sr (steradian)	V-14	
S-RESD	Symbol of residual nucleus	H	
SSD	Solid state detector	V-5	
SSD	Solid state detector	W	
ST	State	W	
STATIST	Statistical	W	
STATIST-ERR	Statistical error	F	
STATIST-MODEL	Statistical model	V-6	
S-TGT	Symbol of target nucleus	H	
STRGTH	Strength	W	
STRGTH-FUNCT	Strength function	H	
STRGTH-FUNCT	Strength function	V-7	
STRNGTH-FUNCT	Strength function	H	O
STRP	Stripping reaction	V-3	
STRP	Stripping	W	
SURF	Surface	W	
SURF-BARR-DET	Surface barrier detector	V-5	O
SWPC	SWPC: Single-wire proportional counter	V-5	
SWPC	SWPC: Single-wire proportional counter	W	
SYN	Synchrotron	V-4	
SYNCYC	Synchrocycrotron	V-4	
SYS	System, Systematic	W	
SYS-ERR	Systematic error	F	
T	Triton	V-13	
T	Triton	W	
TA	Ta	V-8.4	
TGT	Target	H	
TGT	Target	W	
TGT	Target nucleus	F	

THEORY	Theory	W	
THK	Thickness	W	
THK-BAC	Thickness of backing	F	
THK-TGT	Thickness of target	F	
THK-TGT	Thickness of target	H	
THTC	Scattering angle theta in c.m. system	F	
THTC	Scattering angle theta in c.m. system	H	
THTC-1	Scattering angle theta of emitted particle 1 in c.m. system	F	
THTC-2	Scattering angle theta of emitted particle 2 in c.m. system	F	
THTL	Scattering angle theta in lab. system	F	
THTL	Scattering angle theta in lab. system	H	
THTL-1	Scattering angle theta of emitted particle 1 in lab. system	F	
THTL-1	Scattering angle theta of emitted particle 1 in lab. system	H	
THTL-2	Scattering angle theta of emitted particle 2 in lab. system	F	
THTL-2	Scattering angle theta of emitted particle 2 in lab. system	H	
THTL-MAX	Scattering angle theta in lab. system (upper limit)	H	
THTL-MIN	Scattering angle theta in lab. system (lower limit)	H	
TIME	Time	H	
TIME	Time	W	
TITLE	Title of paper	F	
TLSCP	Telescope	W	
TNSR	Tensor	W	
TNSR-ANALPW	Tensor analyzing power	H	
TNSR-ANALPW	Tensor analyzing power	V-7	
TOF	ToF : Time-of-flight	V-5	
TOF	Time-of-flight	W	
TORR	Torricery?	V-14	
TOT	Total	W	
TOT-ERR	Total error	F	
TOT-KIN-ENGY	Total kinetic energy	H	
TOT-KIN-ENGY	Total kinetic energy	V-7	
TOT-RCT-XSECTN	Total reaction cross section	H	
TOT-RCT-XSECTN	Total reaction cross section	V-7	
TOT-WDTH	Total level width	H	
TOT-WDTH	Total level width	V-7	
TOT-XSECTN	Total Cross section	H	O
TOT-XSECTN	Total cross section	V-7	
TPD-MODEL	Two phase deexcitation model	V-6	
TRANSF-L	Transferred L	H	O
TRANSN	Transition	W	O
TRANSN-ENGY	Transition energy	F	O
TRANSN-STRGTH	Transition strength	V-7	O
TRK	Track detector	V-5	
TRK	Track detector	W	
TRNSF	Transfer	W	
TRNSF-ENGY	Transferred energy	H	
TRNSF-ISOSPIN	Transferred isospin	F	
TRNSF-J	Transferred spin	F	
TRNSF-L	Transferred L	H	
TRNSF-L	Transferred orbital angular momentum	F	
TRNSF-MMT	Transferred moment	H	
TRNSF-MMT-CM	Transferred momentum in c.m. system	H	O
TRNSF-MOM	Transferred momentum	F	
TRNSF-MOM	Transferred momentum	H	
TRNSF-MOM-CM	Transferred momentum in c.m. system	H	
TRNSF-SPIN	Transferred spin	H	

TRNSN	Transition	W	
TRNSN-ENGY	Transition energy	F	
TRNSN-PRBTY	Transition probability	V-7	
TRNSN-STRGTH	Transition strength	H	
TRNSN-STRGTH	Transition strength	V-7	
TRNSV	Transverse	W	
TRPP-MODEL	TRPP model	V-6	
TTY	Thick target yield	H	
TTY	Thick target yield	V-7	
TTY	Thick target yield	W	
TYPE	Type	W	
UA	uA (micro-ampere)	V-14	
UB	ub (micro-barn)	V-14	
UB	ub (micro-barn)	W	
UB/KEV	ub/keV	V-14	
UB/MEV	ub/MeV	V-14	
UB/SR	ub/sr	V-14	
UB/SR**2	ub/sr**2	V-14	
UB/SR**2/(MEV/C)	ub/sr**2/(MeV/c)	V-14	
UB/SR**2/KEV	ub/sr**2/keV	V-14	
UB/SR**2/MEV	ub/sr**2/MeV	V-14	
UB/SR**2/MEV**2	ub/sr**2/MeV**2	V-14	
UB/SR/(GEV/C)	ub/(sr*GeV/c)	V-14	
UB/SR/(GEV/C)	ub/sr/(GeV/c)	V-14	
UB/SR/(MEV/C)	ub/(sr*MeV/c)	V-14	
UB/SR/KEV	ub/sr/keV	V-14	
UB/SR/MEV	ub/sr/MeV	V-14	
UCI	micro Curie	W	
UCI/UA/HOUR	u-Curie/uA/hour	V-14	
UG	ug (micro-gram)	V-14	
UM	um (micro-meter)	V-14	
UNIT	Miscellaneous unit	V-14	
UNIT	Unit	W	
UNIT1	Miscellaneous unit 1	V-14	
UNIT10	Miscellaneous unit 10	V-14	
UNIT2	Miscellaneous unit 2	V-14	
UNIT3	Miscellaneous unit 3	V-14	
UNIT4	Miscellaneous unit 4	V-14	
UNIT5	Miscellaneous unit 5	V-14	
UNIT6	Miscellaneous unit 6	V-14	
UNIT7	Miscellaneous unit 7	V-14	
UNIT8	Miscellaneous unit 8	V-14	
UNIT9	Miscellaneous unit 9	V-14	
USEC	us (micro-seccond)	V-14	
USR	usr (micro-steradian)	V-14	
V	Depth of real pot. of central type	V-11	
VARIATN	Variational	W	
VARIATN-MTHD	Variational method	V-6	
VCT	Vector	W	O
VCT-ANALPW	Vector analyzing power	H	O
VCT-ANALPW	Vector analyzing power	V-7	O
VCTR	Vector	W	
VCTR-ANALPW	Vector analyzing power	H	
VCTR-ANALPW	Vector analyzing power	V-7	
VDG	Van de Graaff	V-4	
VDGT	Tandem Van de Graaff	V-4	

VDGT	Tandem Van de Graaff	W	
VLP	Volume and page	W	
VLP	Volume and page	F	
VYNS	VYNS film	V-8.4	
VYNS	VYNS film	W	
WAVE	Wave	W	
WDTH	Width	H	
WDTH	Width	V-7	
WDTH	Width	W	
WDTH-CM	Level width in c.m. system	H	
WDTH-RATIO	Level width ratio	H	
WDTH-RATIO	Level width ratio	V-7	
WG	Depth of imag. pot. of surface gaussian type	V-11	
WKB	WKB approxiamtion	V-6	
WKB	WKB approximation	W	
WPC	Herical wire proportional chamber	V-5	
WPC	Herical wire proportional chamber	W	
WS	Depth of imag. pot. of surface type	V-11	
WSO	Depth of imag. pot. of spin-orbit type	V-11	
WU	WU (Weisscopf unit)	V-14	
WV	Depth of imag. pot. of volume type	V-11	
X	Unknown, unidentified, or unavailable	V-10	
X	Unknown	W	
XI0	Xi0	V-13	
XIN	Xi-	V-13	
XRAY	X ray	V-13	
XRAY	X ray	W	
XSECTN	Cross section	H	
XSECTN	Cross section	V-7	
XSECTN	Cross section	W	
XSECTN-LEVEL	Cross section for individual final products	V-7	
XSECTN-MAX	Cross section (upper limit)	H	
XSECTN-RATIO	Cross section ratio	H	
XSECTN-RATIO	Cross section ratio	V-7	
XSECTN-YIELD	Cross section for overall yield	V-7	
XXXX	XXXXX	V-7	
XXXXXXX	Very small value of data error	V-10	
XXXXXXX	Very small value of data error	W	
YEAR	Year of publication	F	
YEAR	Year	V-14	
YES	Yes	V-9	
YES	Yes	W	
YIELD	Yield (Continuous quantity)	H	O
YIELD	Yield	W	O
YLD	Yield (Continuous quantity)	H	
YLD	Yield	W	
Z	Atomic number	H	
Z	Atomic number	W	
Z-COMP	Atomic number of compound nucleus	H	
Z-DSTRN	Atomic number distribution of products	V-7	
Z-EMT	Atomic number of emitted particle	H	
Z-EMT	Atomic number of emitted particle	F	
Z-PRJ	Atomic number of projectile	H	
Z-RESD	Atomic number of residual nucleus	H	
Z-TGT	Atomic number of target nucleus	H	
ZZZZZZZ	Very large value of data error	V-10	