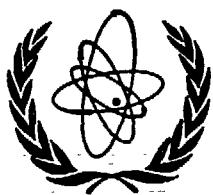


Ar : 28067

IAEA-NDS-86 (Rev.0)



International Atomic Energy Agency

(INDC(AUS)-12/G
Vers.1)

INDC

INTERNATIONAL NUCLEAR DATA COMMITTEE

The AEP¹ Barnbook

D A T L I B

Nuclear Reaction Cross Sections
and Reactivity Parameter
Library and Files ²

Rainer Feldbacher ¹

October 1987

¹⁾ Alternate Energy Physics Program
Institute for Theoretical Physics, Technical Univ. Graz
A-8010 Graz, Petersgasse 16
Tel.: (0316)7061-8171 Telex: 311265 FGJ GZ A

²⁾ Work partially supported by:
IAEA (Contract No. 4082/RB)
Fed. Ministry of Science and Research (No. 77.651/2-25/86)
Government of Styria, Dep. of Science, Graz, Austria
Office of Employment, Styria, Austria

IAEA NUCLEAR DATA SECTION, WAGRAMERSTRASSE 5, A-1400 VIENNA

T (p,n) ³He - 764.
SIG (E(p)=1000.-4100.)

/JARVIS 1950/: data taken from /JARMTR 1956/

The AEP¹ Barnbook

D A T L I B

Nuclear Reaction Cross Sections
and Reactivity Parameter
Library and Files ²

Rainer Feldbacher ¹

October 1987

¹⁾ Alternate Energy Physics Program
Institute for Theoretical Physics, Technical Univ. Graz
A-8010 Graz, Petersgasse 16
Tel.: (0316)7061-8171 Telex: 311265 FGJ GZ A

²⁾ Work partially supported by:
IAEA (Contract No. 4082/RB)
Fed. Ministry of Science and Research (No. 77.651/2-25/86)
Government of Styria, Dep. of Science, Graz, Austria
Office of Employment, Styria, Austria

ADP

ACKNOWLEDGEMENT

Thanks are given for scientific support and valuable hints:
G.H.Miley, Univ.of Illinois; N.Jarmie, Los Alamos National Lab.;
IAEA-Nuclear Data Section, Vienna.

Thanks are given for financial support:
IAEA (Contract No. 4082/RB);
Federal Ministry of Science and Research (No. 77.651/2-25/86)
Government of Styria, Dep. of Science, Graz, Austria
Office of Employment, Styria, Austria

Thanks are given for computational and editorial support
to Miss Andrea Maier, Graz, Austria.

Reproduced by the IAEA in Austria
October 1987

87-05832

CONTENT

1. Introduction	5
2. Comprehensive Reaction List	9
3. File Headers	13
4. Plots	41
5. References (reaction order) - comprehensive list	83
6. References (alphabetic) - used for compilation, available at AEP	129

ABSTRACT

Nuclear reaction data for light isotope charged particle reactions ($Z < 6$) have been compiled. This hardcopy contains file headers, plots and an extended bibliography. Numerical data files and processing routines are available on tape at IAEA-NDS.

Work partially supported by:
IAEA (Contract No. 4082/RB)

Federal Ministry of Science and Research (N0.77.651/2-25/86)
Government of Styria, Dep. of Science, Graz, Austria
Office of Employment, Styria, Austria

1. INTRODUCTION

THE AEP-BARNBOOK DATLIB

- is a compilation of cross section data and pertaining quantities taken from the literature for selected reactions out of the comprehensive reaction list for nuclear reactions between charged nuclei (Chapter 2).
 - includes one data set for each reaction which represents the "recommended cross section". This recommended data are the result of an evaluation (e.g. putting together different energy ranges, etc.) and is recommended for use to the user of this barnbook.
- In the following, this recommended data are indicated by an asterisk (*) in the file headers and plots.

The comprehensive reaction list (Chapter 2) contains a large list of nuclear reactions for charged nuclei (Target: Z<6; Projectile: Z<2 with few exceptions). Only selected reactions out of this are taken into account for the data compilation. This selection is based on

- Importance of the reaction for the advanced fuel fusion research within the Alternate Energy Physics Program;
- Availability of the data.

Note that DATLIB is subject to continued development. This version represents the present state of this development.

DATA TYPES:

DATLIB contains:

- integral reaction cross sections vs. projectile energy
 $\sigma(E)$ abbr.: SIG(E)
- Maxwell averaged reactivity parameters vs. temperature
 $\langle\sigma.v\rangle(T)$ SVM(T)
- differential cross sections vs. projectile energy and scattering angle
 $\sigma(E;\theta)$ DSE(E;theta)
 $\sigma(\theta;E)$ DST(Theta;E)

There is a difference in the representation of the various data types: SIG(E) and SVM(T) are functions of only one quantity, the projectile energy E or the plasma temperature T, resp.. Thus they are tabulated and plotted as functions f(x).

The quantities DSE and DST depend on two variables, the beam energy E and the scattering angle Theta. These data are presented as a FUNCTION OF THE FIRST VARIABLE inside the parenthesis, while the second one acts as PARAMETER. In

other words, these quantities $f(x_1, x_2)$ are tabulated and plotted as $f(x_1)$ with x_2 being a parameter. In particular, DSE is the excitation function with scattering angle being parameter, while DST is the angular distribution with E acting as parameter.

This scheme may be applied to other functions of two variables (e.g. differential cross sections) and may be generalized to more parameters.

UNITS:

particle or beam energy	keV
temperature	keV
integral cross section	barn
angular dependent cross section	barn/sr
reactivity parameter	barn.cm/s

If not explicitly noted otherwise, all data are given in the laboratory system of reference (target system). In general, the heavier reaction partner is considered as target. The corresponding energy scale for target-projectile interchange is gained by multiplying the energy scale with

$$m_{\text{target}} / m_{\text{projectile}}.$$

The center of mass energy scale is gained by:

$$E_{\text{cm}} = E_{\text{projectile}} \cdot \frac{m_{\text{target}}}{m_{\text{target}} + m_{\text{projectile}}}$$

DISPOSITION:

The hardcopy form of DATLIB consists of:

- Table of File Headers
- Plot Section
- References

In the table of contents the entries to the data sets are listed in a sequence which will be explained below. Each entry consists of 4 or 5 lines:

- 1st line: Asterisk (if recommended data); reaction symbol; informations about reaction energy.
- 2nd line: Data type (SIG, SVM, DST,...); range of variables.
- 3rd line: References (/AEP/ indicates a data set resulting from our own evaluation).
- 4th line: additional informations in free text (may be skipped).
- 5th line: name of the file where the data are stored

Example:

```
B-11(p,aa)A +8681.  
SIG (E(p)=100.-10000.)  
/MOREAU 1977/  
lower bound of resonance parameter set  
B1PAALOMO.SIG
```

Explanation:

This is a data set of the reaction B-11(p,aa)A,
reaction energy = 8681 keV;
it is an integral reaction cross section
for proton energies between 100 and 4000 keV;
it is taken from ref /MOREAU 1977/;
it is stored in the file [104,3]B1PAALOMO.SIG on the
PDP-11/23.

This entries are identical to the pertinent file headers and
are also quoted in a short version on the pertinent plot.

The plot section contains the data. The data sets are
arranged in the same sequence as they are indicated by their
entries in the table of headers.

References are given, not only to each reaction contained in
DATLIB, but also to a lot of additional reactions from the
comprehensive reaction list (chapter 2).

Those references which are available at AEP are written in
capital letters in the form e.g. /FOWLER 1975/ with full
reference given at the last section of this report in
alphabetical order.

References from the EXFOR library are quoted together with
their EXFOR- entry numbers. Additional references are in
general from three sources: /JARMIE 1956/, /ARNUSH 1980/
together with /SHUY 1979/ and /HOLDEN 1980-1986/ (see
chapter 'reference list', section 'major compilations and
bibliographies'), indicated by J,A,H, respectively. They are
basically written in the form in which they are given there.

PRINCIPLE OF ORDER:

I.) with respect to the reaction:

1. increasing Z of target
2. increasing A of target
3. increasing Z of projectile
4. increasing A of projectile
5. increasing Z of 1st outgoing particle
6. increasing A of 1st outgoing particle
- (7. increasing Z of 2nd outgoing particle)
- (8. increasing A of 2nd outgoing particle)
- (.....)

II.) with respect to the outgoing particles:

Sequence of outgoing particles: 1. increasing Z
2. increasing A
exception: gammas always at the end !

FILES:

For computer application the data are stored on disk files on the institute's PDP-11/23. The files are specified by

FILENAME.EXT

The filename (Max. 9 characters) is build up by an abbreviation of the reaction symbol, using a mnemonic code:

1. target: 1 or 2 characters
2. projectile: 1 or 2 characters
3. channel: depending on free characters available
4. reference: last 2 characters (followed by the dot).

The following abbreviations are used:

not specified	X	He-4	A
gamma	G	Li-6	L6
neutron	N	Li-7	L7
proton	P	Be-7	47
deuteron	D	Be-9	49
triton	T	B-10	B0
He-3	H3	B-11	B1

The extension (max. 3 characters following the dot) indicates the data type (.SIG, .SVM,...)

Example: B1PGGAP.SIG is the name of the file where following data are stored: target: B-11, projectile: proton, GG indicates 2 gammas, AP indicates /AEP/, .SIG indicates integral cross section. Note that this code is a mnemonic one and does not allow for computer processing of the file name.

DATA HANDLING AND PROCESSING ROUTINES

System TRANSLATE with routines RDDLL, RDDLHD, GETALT, WRDLL:
reading and writing the DATLIB format (/AEPCC-86.003/)

DIG - a code for digitizing of curves and functions
(AEP-84.021)

AEPCC-GRAFICS: Plotroutines
(AEPCC-86.004)

MAMA - a code to compute Maxwell averaged reactivity
parameters. (AEP-84.019)

SVBML - a code to compute beam-Maxwell averaged reactivity
parameters and Doppler broadened cross sections.
(AEPCC-86.001)

2. COMPREHENSIVE REACTION LIST

P (p , p) P	
D (p , g) ^3He	+ 5494 keV
D (p , np) P	- 2225 keV
D (p , p) D	
D (d , g) A	+ 23847 keV
D (d , n) ^3He	+ 3269 keV
D (d , np) D	- 2225 keV
D (d , nnp) P	- 4449 keV
D (d , p) T	+ 4033 keV
D (d , d) D	
T (p , g) A	+ 19814 keV
T (p , n) ^3He	- 764 keV
T (p , np) D	- 6257 keV
T (p , nnp) P	- 8482 keV
T (p , p) T	
T (d , n) A	+ 17589 keV
T (d , np) T	- 2225 keV
T (d , d) T	
T (t , nn) A	+ 11332 keV
T (t , t) T	
^3He (p , p) ^3He	
^3He (d , np) ^3He	- 2225 keV
^3He (d , p) A	+ 18353 keV
^3He (d , pp) T	- 1461 keV
^3He (d , d) ^3He	
^3He (t , np) A	+ 12096 keV
^3He (t , d) A	+ 14320 keV
^3He (t , x) A	
^3He (t , t) ^3He	
^3He (^3He , g) ^6Be	+ 11489 keV
^3He (^3He , pp) A	+ 12860 keV
^3He (^3He , ^3He) ^3He	
A (p , p) A	
A (d , g) ^6Li	+ 1475 keV
A (d , np) A	- 2225 keV
A (d , d) A	
A (t , g) ^7Li	+ 2468 keV
A (t , n) ^6Li	- 4782 keV
A (t , t) A	
A (^3He , g) ^7Be	+ 1588 keV
A (^3He , ^3He) A	
A (a , n) ^7Be	- 18990 keV
A (a , np) ^6Li	- 24596 keV
A (a , p) ^7Li	- 17346 keV
A (a , pp) ^6He	- 27320 keV
A (a , d) ^6Li	- 22371 keV
A (a , a) A	
^6Li (p , g) ^7Be	+ 5606 keV
^6Li (p , p) ^6Li	
^6Li (p , ^3He) A	+ 4018 keV
^6Li (d , n) ^7Be	+ 3381 keV
^6Li (d , $n^3\text{He}$) A	+ 1794 keV

6Li (d , p)	7Li	+ 5025 keV
6Li (d , pt)	A	+ 2557 keV
6Li (d , d)	6Li	
6Li (d , a)	A	+ 22371 keV
6Li (t , nn)	7Be	- 2876 keV
6Li (t , na)	A	+ 16114 keV
6Li (t , p)	8Li	+ 801 keV
6Li (t , d)	7Li	+ 993 keV
6Li (t , t)	SLi	
6Li (3He, n)	8B	- 1975 keV
6Li (3He, np)	7Be	- 2112 keV
6Li (3He, pa)	A	+ 16878 keV
6Li (3He, d)	7Be	+ 112 keV
6Li (3He, 3He)	6Li	
6Li (a , g)	10B	+ 4460 keV
6Li (a , p)	9Be	- 2126 keV
6Li (a , da)	A	- 1475 keV
6Li (a , a)	6Li	
6Li (6Li, n)	11C	+ 9450 keV
6Li (6Li, n3Hea)	A	+ 318 keV
6Li (6Li, na)	7Be	+ 1906 keV
6Li (6Li, p)	11B	+ 12215 keV
6Li (6Li, pp)	10Be	+ 986 keV
6Li (6Li, pta)	A	+ 1082 keV
6Li (6Li, pa)	7Li	+ 3550 keV
6Li (6Li, d)	10B	+ 2985 keV
6Li (6Li, 3He)	9Be	+ 1892 keV
6Li (6Li, aa)	A	+ 20896 keV
7Li (p , n)	7Be	- 1644 keV
7Li (p , p)	7Li	
7Li (p , a)	A	+ 17346 keV
7Li (d , nn)	7Be	- 3869 keV
7Li (d , ndd)	A	- 8725 keV
7Li (d , na)	A	+ 15121 keV
7Li (d , p)	8Li	- 192 keV
7Li (d , d)	7Li	
7Li (d , t)	6Li	- 993 keV
7Li (d , 3He)	6He	- 4481 keV
7Li (t , n)	9Be	+ 10438 keV
7Li (t , nnn)	7Be	- 10126 keV
7Li (t , nna)	A	+ 8864 keV
7Li (t , p)	9Li	- 2386 keV
7Li (t , d)	8Li	- 4225 keV
7Li (t , t)	7Li	
7Li (t , a)	6He	+ 9839 keV
7Li (3He, g)	10B	+ 17788 keV
7Li (3He, npa)	A	+ 9628 keV
7Li (3He, nd)	7Be	- 7138 keV
7Li (3He, p)	9Be	+ 11201 keV
7Li (3He, da)	A	+ 11852 keV
7Li (3He, t)	7Be	- 881 keV
7Li (3He, 3He)	7Li	
7Li (3He, a)	6Li	+ 13328 keV
7Li (a , g)	11B	+ 8665 keV
7Li (a , n)	10B	- 2790 keV
7Li (a , a)	7Li	

7Be (p , g)	8B	+ 138 keV
7Be (d , pa)	A	+ 16766 keV
7Be (t , npa)	A	+ 10508 keV
7Be (3He, ppa)	A	+ 11272 keV
7Be (a , g)	11C	+ 7544 keV
9Be (p , g)	10B	+ 6587 keV
9Be (p , npa)	A	- 1574 keV
9Be (p , p)	9Be	
9Be (p , da)	A	+ 651 keV
9Be (p , t)	7Be	- 12082 keV
9Be (p , a)	6Li	+ 2126 keV
9Be (d , g)	11B	+ 15816 keV
9Be (d , n)	10B	+ 4362 keV
9Be (d , nnpa)	A	- 3798 keV
9Be (d , p)	10Be	+ 4587 keV
9Be (d , d)	9Be	
9Be (d , ta)	A	+ 4684 keV
9Be (d , a)	7Li	+ 7152 keV
9Be (t , n)	11B	+ 9559 keV
9Be (t , t)	9Be	
9Be (3He, n)	11C	+ 7558 keV
9Be (3He, nn)	10C	- 5564 keV
9Be (3He, na)	7Be	+ 14 keV
9Be (3He, p)	11B	+ 10323 keV
9Be (3He, 3He)	9Be	
9Be (3He, aa)	A	+ 19004 keV
9Be (a , n)	12C	+ 5701 keV
9Be (a , n)	X	
9Be (a , nn)	11C	- 13020 keV
9Be (a , naa)	A	- 1574 keV
9Be (a , a)	9Be	
10B (p , g)	11C	+ 8690 keV
10B (p , n)	10C	- 4433 keV
10B (p , p)	10B	
10B (p , pda)	A	- 5936 keV
10B (p , 3Hea)	A	- 442 keV
10B (p , a)	7Be	+ 1146 keV
10B (d , g)	12C	+ 25186 keV
10B (d , n)	11C	+ 6465 keV
10B (d , p)	11B	+ 9230 keV
10B (d , pta)	A	- 1903 keV
10B (d , d)	10B	
10B (d , 3He)	9Be	- 1093 keV
10B (d , aa)	A	+ 17911 keV
10B (t , p)	12B	+ 6342 keV
10B (t , pa)	8Li	- 3659 keV
10B (t , d)	11B	+ 5197 keV
10B (t , t)	10B	
10B (t , a)	9Be	+ 13227 keV
10B (t , 6He)	7Be	- 6361 keV
10B (3He, g)	13N	+ 21636 keV
10B (3He, n)	12N	+ 1572 keV
10B (3He, np)	11C	+ 972 keV
10B (3He, p)	12C	+ 19692 keV
10B (3He, paa)	A	+ 12418 keV
10B (3He, d)	11C	+ 3196 keV
10B (3He, t)	10C	- 3669 keV

* 7Li (p,n) 7Be - 1644.
SIG (E(p)=1880.-20000.)
/ECPL-82/
L7PNEC.SIG

10B (3He, 3He)	10B	
10B (3He, 6Li)	7Be	- 2873 keV
10B (a , g)	14N	+ 11611 keV
10B (a , n)	13N	+ 1058 keV
10B (a , p)	13C	+ 4061 keV
10B (a , d)	12C	+ 1339 keV
10B (a , a)	10B	
11B (p , g)	12C	+ 15956 keV
11B (p , n)	11C	- 2764 keV
11B (p , p)	11B	
11B (p , aa)	A	+ 8681 keV
11B (d , g)	13C	+ 18678 keV
11B (d , n)	12C	+ 13732 keV
11B (d , nn)	11C	- 4989 keV
11B (d , p)	12B	+ 1145 keV
11B (d , d)	11B	
11B (d , t)	10B	- 5197 keV
11B (d , a)	9Be	+ 8031 keV
11B (t , p)	13B	- 233 keV
11B (t , t)	11B	
11B (t , a)	10Be	+ 8585 keV
11B (t , aa)	6He	+ 1175 keV
11B (3He, g)	14N	+ 20735 keV
11B (3He, n)	13N	+ 10182 keV
11B (3He, p)	13C	+ 13184 keV
11B (3He, d)	12C	+ 10463 keV
11B (3He, t)	11C	- 2001 keV
11B (3He, 3He)	11B	
11B (3He, a)	10B	+ 9123 keV
11B (a , g)	15N	+ 10991 keV
11B (a , n)	14N	+ 157 keV
11B (a , p)	14C	+ 783 keV
11B (a , d)	13C	- 5169 keV
11B (a , t)	12C	- 3858 keV
11B (a , a)	11B	
11B (11B, x)	X	
11B (11B, 11B)	11B	

3. FILE HEADERS

D (p,g) 3He + 5494.
SIG (E(p)=500.-1500)
/FOWLER 1949/; data taken from /JARMIE 1956/
DPGFO.SIG

D (p,g) 3He + 5494.
SIG (E(p)=162.-1835)
/GRIFFITHS 1955/; data taken from /JARMIE 1956/
DPGGR.SIG

* D (p,g) 3He + 5494.
SIG (E(p)=162.-1500)
/AEP/; from /FOWLER 1949/,/GRIFFITHS 1955/
DPGAP.SIG

D (p,g) 3He + 5494.
SVM (T=1.-1000.)
/FOWLER 1975/, computed from formula
DPGFO.SVM

* D (p,g) 3He + 5494.
SVM (T=10.-1000.)
/AEP/; computed from SIG/AEP/
DPGAP.SVM

D (p,np) P - 2225.
SIG (E(p)= 3500.-5500.)
/GIBBONS 1959/; data taken from a curve
DPNPGI.SIG

D (p,np) P - 2225.
SIG (E(p)=10000.-100000.)
/LYKASOV 1978/; data taken from /EXFOR/
DPNPPLY.SIG

* D (p,np) P - 2225.
SIG (E(p)= 3500.-100000.)
/AEP/; from /GIBBONS 1959/,/LYKASOV 1978/
DPNPAP.SIG

D (p,np) P - 2225.
SVM (T=27.-1000.)
/FOWLER 1975/; computed from formula
DPNPFO.SVM

* D (p,np) P - 2225.
SVM (T=50.-1000.)
/AEP/; computed from SIG/AEP/
DPNPAP.SVM

* D (d,n) 3He + 3269.
SIG (E(d)=1.- 20000.)
/ECPL-82/
DDNEC.SIG

D (d,n) 3He + 3269.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
DDNFO.SVM

* D (d,n) 3He + 3269.
SVM (T=0.1-1000.)
/ECPL-82/
DDNEC.SVM

* D (d,p) T + 4033.
SIG (E(d)=1.-20000.)
/ECPL-82/
DDPEC.SIG

D (d,p) T + 4033.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
DDPFO.SVM

D (d,p) T + 4033.
SVM (T=1-1000.)
/MCNALLY 1980/
DDPNA.SVM

* D (d,p) T + 4033.
SVM (T=0.1-1000)
/ECPL-82/
DDPEC.SVM

T (p,g) A + 19814.
SIG (E(p)=100.-6300.)
/PERRY 1955/; data taken from /JARMIE 1956/
4pi*sigma(theta=90)
TPGPE.SIG

* T (p,g) A + 19814.
SIG (E(p)=0.1-20000.)
/ECPL-82/
TPGEC.SIG

T (p,g) A + 19814.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
TPGFO.SVM

* T (p,g) A + 19814.
SVM (T=0.1-1000.)
/ECPL-82/
TPGEC.SVM

T (p,n) ^{3}He - 764.
SIG (E(p)=1000.-4100.)
/JARVIS 1950/; data taken from /JARMIE 1956/
TPNJS.SIG

* T (p,n) ^{3}He - 764.
SIG (E(p)=1025.-20000.)
/ECPL-82/
TPNEC.SIG

T (p,n) ^{3}He - 764.
SVM (T=8.8-1000.)
/FOWLER 1975/; computed from formula
TPNFO.SVM

T (p,n) ^{3}He - 764.
SVM (T=24.-1000.)
/MCNALLY 1980/
TPNNA.SVM

* T (p,n) ^{3}He - 764.
SVM (T=16.02-1000.)
/ECPL-82/
TPNEC.SVM

* T (d,n) A + 17589.
SIG (E(d)=1.-20000.)
/ECPL-82/
TDNEC.SIG

T (d,n) A + 17589.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
TDNFO.SVM

T (d,n) A + 17589.
SVM (T=1.,1000.)
/MCNALLY 1980/
TDNNA.SVM

* T (d,n) A + 17589.
SVM (T=0.1-1000.)
/ECPL-82/
TDNEC.SVM

* T (d,ng) A + 17589.
SIG (E(d)=1.-20000.)
/ECPL-82/
TDNGEC.SIG

* T (d,ng) A + 17589.
SVM (T=0.1-1000.)
/ECPL-82/
TDNGEC.SVM

* ^{9}Be (p,g) ^{10}B + 6587.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula

T (t,nn) A + 11332.
SIG (E(t)=1.-95000.)
/MILEY 1974/; data taken from a table
TTNNMI.SIG

T (t,nn) A + 11332.
SIG (E(t)=0.1-5000.)
/HALE 1978/; data taken from EXFOR D0019.002
R-Matrix fit
TTNNHA.SIG

T (t,nn) A + 11332.
SIG (E(t)=31.-155.)
/SEROV 1977/; data taken from EXFOR A0007.002
TTNNSE.SIG

T (t,nn) A + 11332.
SIG (E(t)=60.-1140.)
/GOVOROV 1962/; data taken from EXFOR A0027.002
TTNNGO.SIG

* T (t,nn) A + 11332.
SIG (E(t)=0.1-20000.)
/ECPL-82/
TTNNEC.SIG

T (t,nn) A + 11332.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
TTNNFO.SVM

T (t,nn) A + 11332.
SVM (T=1.-1000.)
/MCNALLY 1980/
TTNNNA.SVM

* T (t,nn) A + 11332.
SVM (T=0.1-1000.)
/ECPL-82/
TTNNEC.SVM

* ^3He (d,p) A + 18353.
SIG (E(d)=5.-20000.)
/ECPL-82/
H3DPPEC.SIG

^3He (d,p) A + 18353.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
H3DPFO.SVM

^3He (d,p) A + 18353.
SVM (T=1.-1000.)
/MCNALLY 1980/
H3DPNA.SVM

* ^3He (d,p) A + 18353.

SVM (T=0.12-1000.)

/ECPL- 82/

H3DPEC.SVM

* ^3He (d,pg) A + 18353.

SIG (E(d)=185.-1000.)

partial cross section via ^7Li

/BUSS 1968/; data taken from EXFOR C0027.

H3DPGBU.SIG

* ^3He (d,pg) A + 18353.

SVM (T=1.5-1000.)

/AEP/; computed from SIG /BUSS 1968/

H3DPGAP.SVM

^3He (t,x) A

SIG (E(t)=100.-800.)

/MOAK 1953/; data read from a curve

summed cross section for (t,np)+(t,d)+(t,p) ^5He

H3TXMO.SIG

^3He (t,x) A

SIG (E(T)=1.-95000.)

/MILEY 1974/; data taken from a table

summed cross section for (t,np)+(t,p) ^5He +(t,d)

H3TXMI.SIG

^3He (t,x) A

SIG (E(t)=150.-1000.)

/YOUN 1961/; data read from a curve

summed cross section for (t,np)+(t,p) ^5He +(t,d)

H3TXYO.SIG

^3He (t,x) A

SIG (E(t)=460.-1087.)

/KUEHN 1963/; data taken from a table

summed cross section for (t,np)+(t,p) ^5He +(t,d)

H3TXKU.SIG

^3He (t,x) A

SVM (T=10.-1000.)

/MCNALLY 1980/

sum of (t,np)+(t,p) ^5He +(t,d)

H3TXNA.SVM

^3He (t,np) A + 12096.

SIG (E(t)=100.-800.)

/MOAK 1953/; data computed from /MOAK 1953/: 51% of (t,x) A
(t,np) direct three-body breakup

H3TNPMO.SIG

* ^{10}B (p,a) ^7Be + 1146.

SIG (E(p)=100.-20000.)

/ECPL-82/

BOPAEC.SIG

3He (t,np) A + 12096.
SIG (E(t)=1.-95000.)
/MILEY 1974/; computed from /MILEY 1974/: 51% of (t,x)A
cross section for (t,np) direct three body breakup
H3TNPMI.SIG

3He (t,np) A + 12096.
SIG (E(t)=150.-1000.)
/YOUN 1961/; data read from a curve
summed cross section for (t,np)+(t,p)5He
H3TNPY0.SIG

3He (t,np) A + 12096.
SIG (E(t)=1900.)
/SMITH 1963/; data taken from text
summed cross section for (t,np)+(t,p)5He
H3TNPSM.SIG

3He (t,np) A + 12096.
SIG (E(t)=1460.-1087.)
/KUEHN 1963/; data taken from a table
cross section for (t,np) direct three-body breakup
H3TNPKU.SIG

* 3He (t,np) A + 12096.
SIG (E(t)=1.-1100.)
/AEP/; from /MILEY 1974/,/KUEHN 1963/
cross section for (t,np) direct three body breakup
H3TNPAP.SIG

3He (t,np) A + 12096.
SIG (E(t)=100.-800.)
/MOAK 1953/; data computed from /MOAK 1953/: 6% of (t,x) A
cross section for (t,p) 5He -> n+A
H3TPMO.SIG

3He (t,np) A + 12096.
SIG (E(t)=1.-95000.)
/MILEY 1974/; computed from /MILEY 1974/: 6% of (t,x)A
cross section for reaction via (t,p) 5He -> n+a
H3TPMI.SIG

3He (t,np) A + 12096.
SIG (E(t)=1460.-1087.)
/KUEHN 1963/; data taken from a table
cross section for reaction via (t,p) 5He -> n+a
H3TPKU.SIG

* 3He (t,np) A + 12096.
SIG (E(t)=1.-1100.)
/AEP/; from /MILEY 1974/,/KUEHN 1963/
cross section for reaction via (t,p) 5He -> n+a
H3TPAP.SIG

3He (t,np) A + 12096.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
H3TNPFO.SVM

^3He (t, np) A + 12096.
SVM (T=10.-1000.)
/MCNALLY 1980/; 55% of SVM (t, x)
H3TNPNA.SVM

^3He (t, np) A + 12096.
SVM (T=10.-1000.)
/MCNALLY 1980/; 4% of SVM (t, x)
H3TPNA.SVM

* ^3He (t, np) A + 12096.
SVM (T=1.-1000.)
/AEP/; computed from SIG/AEP/
(t, np) 3-body breakup
H3TNPAP.SVM

* ^3He (t, np) A + 12096.
SVM (T=1.-1000.)
/AEP/, computed from SIG/AEP/
(t, p) ^5He -channel
H3TPAP.SVM

^3He (t, d) A + 14320.
SIG (E(t)=100.-800.)
/MOAK 1953/; data computed from /MOAK 1953/: 43% of (t, x) A
H3TDMO.SIG

^3He (t, d) A + 14320.
SIG (E(t)=1.-95000.)
/MILEY 1974/; computed from /MILEY 1974/: 43% of (t, x) A
H3TDMI.SIG

^3He (t, d) A + 14320.
SIG (E(t)=1460.-1087.)
/KUEHN 1963/; data taken from a table
H3TDKU.SIG

* ^3He (t, d) A + 14320.
SIG (E(t)=1.-1080.)
/AEP/; from /MILEY 1974/, /KUEHN 1963/
H3TDAP.SIG

^3He (t, d) A + 14320.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
H3TDFO.SVM

^3He (t, d) A + 14320.
SVM (T=10.-1000.)
/MCNALLY 1980/; 41% of SVM (t, x)
H3TDNA.SVM

* ^3He (t, d) A + 14320.
SVM (T=1.-1000.)
/AEP/, computed from SIG/AEP/
H3TDAP.SVM

* ^{10}B (d, dg) ^{10}B E(g)=2150.
SIG (E(d)=6500.-12000.)
/STOCKER 1974/; data taken from a table
H3TDG10B.SVM

3He (3He,pp) A + 12860.
SIG (E(3He)=100.-735.)
/GOOD 1954/; data read from a curve
H3H3PPGO.SIG

3He (3He,pp) A + 12860.
SIG (E(3He)=160.-2200.)
/DWARAKANATH 1971/; data read from a curve
H3H3PPDW.SIG

3He (3He,pp) A + 12860.
SIG (E(3He)=6.-10000.)
/DWARAKANATH 1971/; data computed: S-function fit
H3H3PP1DW.SIG

3He (3He,pp) A + 12860.
SIG (E(3He)=3030.-30000.)
/PRITZKER 1976/; data taken from a table
H3H3PPPR.SIG

3He (3He,pp) A + 12860.
SIG (E(3He)=6.-10000.)
/KRAUSS 1987/; data computed: S-function fit
H3H3PP1KR.SIG

* 3He (3He,pp) A + 12860.
SIG (E(3He)=6.-30000.)
/AEP/; from /DWARAKANATH 1971/, /PRITZKER 1976/
H3H3PPAP.SIG

3He (3He,pp) A + 12860.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
H3H3PPFO.SVM

3He (3He,pp) A + 12860.
SVM (T=1.1=1000.)
/MCNALLY 1979/
H3H3PPNA.SVM

* 3He (3He,pp) A + 12860.
SVM (T=1.-1000.)
/AEP/; computed from SIG /AEP/
H3H3PPAP.SVM

* A (t,g) 7Li + 2468.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
ATGFO.SVM

* A (t,n) 6Li - 4782.
SVM (T=54.-1000.)
/FOWLER 1975/; computed from formula
ATNFO.SVM

* A (3He,g) 7Be + 1588.
SIG (E(3He)=290.-2200.)
/OSBORNE 1982/; data taken from EXFOR A0155
AH3GOS.SIG

* A (3He,g) 7Be + 1588.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
AH3GFO.SVM

* 6Li (p,g) 7Be + 5606.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
L6PGFO.SVM

* 6Li (p,3He) A + 4018.
SIG (E(p)=1.-20000.)
/ECPL-82/
L6PH3EC.SIG

6Li (p,3He) A + 4018.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
L6PH3FO.SVM

6Li (p,3He) A + 4018.
SVM (T=1.-1000.)
/MCNALLY 1980/
L6PH3NA.SVM

* 6Li (p,3He) A + 4018.
SVM (T=0.2-1000.)
/ECPL-82/
L6PH3EC.SVM

* 6Li (d,n) 7Be + 3381.
SIG (E(d)=1.-20000.)
/ECPL-82/
L6DNEC.SIG

6Li (d,n) 7Be + 3381.
SVM (T=1.-1000.)
/MCNALLY 1980/
L6DNNNA.SVM

11B (p,n) 11C - 2764.
SIG (E(p)=4700.-8500.)
/ANDERSON 1964/; data taken from /HOEHN 1981/
B1PNAN.SIG

* 6Li (d,n) 7Be + 3381.
SVM (T=0.3-1000.)
/ECPL-82/
L6DNEC, SVM

* 6Li (d,n3He) A + 1794.
SVM (T=1.-1000.)
/MCNALLY 1980/
L6DNH3NA.SVM

* 6Li (d,p) 7Li + 5025.
SIG (E(d)=1.-20000.)
/ECPL-82/
L6DPEC.SIG

6Li (d,p) 7Li + 5025.
SVM (T=1.-1000.)
/MCNALLY 1980/
L6DPNA.SVM

* 6Li (d,p) 7Li + 5025.
SVM (T=0.3-1000.)
/ECPL-82/
L6DPEC.SVM

* 6Li (d,pt) A + 2557.
SIG (E(d)=1.-20000.)
/ECPL-82/
L6DPTEC.SIG

6Li (d,pt) A + 2557.
SVM (T=1.-1000.)
/MCNALLY 1980/
L6DPTNA.SVM

* 6Li (d,pt) A + 2557.
SVM (T=0.32-1000.)
/ECPL-82/
L6DPTEC.SVM

* 6Li (d,a) A + 22371.
SIG (E(d)=1.-20000.)
/ECPL-82/
L6DAEC.SIG

6Li (d,a) A + 22371.
SVM (T=1.-1000.)
/MCNALLY 1980/
L6DANA.SVM

11B (p,aa) A + 8681.
SIG (E(p)=5000.-45000.)
/BUCK 1983/; data read from a curve
via 8Be ground level

* 6Li (d,a) A + 22371.
SVM (T=0.32-1000.)
/ECPL-82/
L6DAEC.SVM

* 6Li (t,nn) 7Be - 2876.
SIG (E(t)=4310.-20000.)
/ECPL-82/
L6TNNEC.SIG

* 6Li (t,nn) 7Be - 2876.
SVM (T=54.-1000.)
/ECPL-82/
L6TNNEC.SVM

6Li (3He,pa) A + 16878.
SVM (T=10.-1000.)
via 8Be ground state
/MCNALLY 1980/
L6H3P0NA.SVM

6Li (3He,pa) A + 16878.
SVM (T=10.-1000.)
via 8Be 2.94MeV excited state
/MCNALLY 1980/
L6H3P1NA.SVM

6Li (3He,pa) A + 16878.
SVM (T=10.-1000.)
via 8Be 16.63MeV excited state
/MCNALLY 1980/
L6H3P2NA.SVM

6Li (3He,pa) A + 16878.
SVM (T=10.-1000.)
via 8Be 16.92MeV excited state
/MCNALLY 1980/
L6H3P3NA.SVM

6Li (3He,pa) A + 16878.
SVM (T=10.-1000.)
3-particle break up
/MCNALLY 1980/
L6H3PANA.SVM

* 6Li (3He,d) 7Be + 112.
SIG (E(3He)=170.-20000.)
/ECPL-82/
L6H3DEC.SIG

6Li (3He,d) 7Be + 112.
SVM (T=100.-1000.)
/MCNALLY 1980/
L6H3DNA.SVM

11B (p,aa) A + 8681.
SIG (E(p)=30.-3000.)
/EXFOR/; from /DAVIDSON 1979/, /SEGEL 1965/
sum of all alpha channels

- * 6Li (3He,d) 7Be + 112.
SVM (T=3.62-1000.)
/ECPL-82/
L6H3DEC.SVM
- * 6Li (a,g) 10B + 4460.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
L6AGFO.SVM
- * 6Li (6Li,n) 11C + 9450.
SVM (T=40.-1000.)
/MCNALLY 1980/
L6L6NNA.SVM
- * 6Li (6Li,na) 7Be + 1906.
SIG (E(6Li)=1600.-5000.)
/RUBY 1977/; data taken from EXFOR B0134.002
L6L6NARU.SIG
- * 6Li (6Li,na) 7Be + 1906.
SVM (T=40.-1000.)
/MCNALLY 1980/
L6L6NANA.SVM
- * 6Li (6Li,p) 11B + 12215.
SVM (T=40.-1000.)
/MCNALLY 1980/
L6L6PNA.SVM
- * 6Li (6Li,d) 10B + 2985.
SVM (T=40.-1000.)
/MCNALLY 1980/
L6L6DNA.SVM
- * 6Li (6Li,pta) A + 1082.
SVM (T=40.-1000.)
/MCNALLY 1980/
via 9B
L6L6PTANA.SVM
- * 6Li (6Li,aa) A + 20896.
SVM (T=10.-1000.)
/MCNALLY 1980/
L6L6AANA.SVM

11B (d,p) 12B + 1145.
SIG (E(d)=500.-3000.)
/KAVANAGH 1958/; data read from a curve
B1DPKA.SIG

* 7Li (p,n) 7Be - 1644.
SIG (E(p)=1880.-20000.)
/ECPL-82/
L7PNEC.SIG

7Li (p,n) 7Be - 1644.
SVM (T=19.-1000.)
/FOWLER 1975/; computed from formula
L7PNFO.SVM

* 7Li (p,n) 7Be - 1644.
SVM (T=30.-1000.)
/ECPL-82/
L7PNEC.SVM

* 7Li (p,a) A + 17346.
SIG (E(p)=10.-20000.)
/ECPL-82/
L7PAEC.SIG

7Li (p,a) A + 17346.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
L7PAFC.SVM

7Li (p,a) A + 17346.
SVM (T=1.-1000.)
/MCNALLY 1980/
L7PANA.SVM

* 7Li (p,a) A + 17346.
SVM (T=0.12-1000.)
/ECPL-82/
L7PAEC.SVM

* 7Li (d,nn) 7Be - 3869.
SIG (E(d)=4970.-20000.)
/ECPL-82/
L7DNNEC.SIG

* 7Li (d,nn) 7Be - 3869.
SVM (T=72.-1000.)
/ECPL-82/
L7DNNEC.SVM

7Li (d,na) A + 15121.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
L7DNAFO.SVM

* 7Li (d,na) A + 15121.
SVM (T=1.-1000.)
/MCNALLY 1980/
L7DNANA.SVM

* 11B (a,p) 14C + 783.
SVM (T=10.-1000.)
/AEP/; computed from SIG /AEP/
B1APAP.SVM

7Li (d,p) 8Li - 192.
SIG (E(d)=700.-3400.)
/MINGAY 1979/; data taken from EXFOR D0021.002
L7DPMI.SIG

7Li (d,p) 8Li - 192.
SIG (E(d)=579.4-1181.6)
/FILLIPONE 1982/; data taken from EXFOR A0157.002
L7DPFI.SIG

7Li (d,p) 8Li - 192.
SIG (E(d)=602.-1510.)
/KAVANAGH 1960/; data taken from EXFOR P0080.002
L7DPKA.SIG

* 7Li (d,p) 8Li - 192.
SIG (E(d)=602.-3400.)
/AEP/ from /KAVANAGH 1960/,/MINGAY 1978/
L7DPAP.SIG

* 7Li (d,p) 8Li - 192.
SVM (T=10.-1000.)
/AEP/; computed from SIG/AEP/
L7DPAP.SVM

* 7Li (d,t) 6Li - 993.
SIG (E(d)=1280.-4140.)
/MACKLIN 1955/; data taken from EXFOR P0131.002
L7DTMA.SIG

* 7Li (d,t) 6Li - 993.
SVM (T=13.-1000.)
/AEP/; computed from SIG/MACKLIN 1956/
L7DTAP.SVM

* 7Li (t,nnn) 7Be - 10126.
SIG (E(t)=14470.-20000.)
/ECPL-82/
L7TNNEC.SIG

* 7Li (t,nnn) 7Be - 10126.
SVM (T=260.-1000.)
/ECPL-82/
L7TNNEC.SVM

7Li (t,nna) A + 8864.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
L7TNNAFO.SVM

* 7Li (t,nna) A + 8864.
SVM (T=1.-1000.)
/MCNALLY 1980/
L7TNNAFA.SVM

7Li (3He,npa) A + 9628.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
L7H3NPAFO.SVM

* 7Li (3He,npa) A + 9628.
SVM (T=1.-1000.)
/MCNALLY 1980/
L7H3NPANA.SVM

* 7Li (3He,t) 7Be - 881.
SIG (E(3He)=1250.-20000.)
/ECPL-82/
L7H3TEC.SIG

* 7Li (3He,t) 7Be - 881.
SVM (T=20.-1000.)
/ECPL-82/
L7H3TEC.SVM

* 7Li (a,g) 11B + 8665.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
L7AGFO.SVM

7Li (a,n) 10B - 2790.
SIG (E(a)=4420.-5120.)
/MACKLIN 1968/; data taken from EXFOR P0117.002
L7ANMA.SIG

* 7Li (a,n) 10B - 2790.
SIG (E(a)=4380.-8200.)
/GIBBONS 1959/; data taken from EXFOR P0001.001
L7ANGI.SIG

* 7Li (a,n) 10B - 2790.
SVM (T=32.-1000.)
/FOWLER 1975/; computed from formula
L7ANFO.SVM

7Be (p,g) 8B + 138.
SIG (E(p)=360.-360.)
/WIEZOREK 1977/; data taken from EXFOR B0091.002
47PGWI.SIG

7Be (p,g) 8B + 138.
SIG (E(p)=480.-1900.)
/PARKER 1966/; data taken from EXFOR P0020.002
47PGPA.SIG

* 7Be (p,g) 8B + 138.
SIG (E(p)=360.-1900.)
/AEP/; from /WIEZOREK 1977/, /PARKER 1966/
47PGAP.SIG

* 7Be (p,g) 8B + 138.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
47PGFO.SVM

7Be (d,npa) A + 16766.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
47DPAFO.SVM

* 7Be (d,npa) A + 16766.
SVM (T=1.-1000.)
/MCNALLY 1980/
47DPANA.SVM

7Be (t,npa) A + 10508.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
47TNPAFO.SVM

* 7Be (t,npa) A + 10508.
SVM (T=1.-1000.)
/MCNALLY 1980/
47TNPANA.SVM

7Be (3He,ppa) A + 11272.
SVM (T=1.3-1000.)
/FOWLER 1975/; computed from formula
47H3PPAFO.SVM

* 7Be (3He,ppa) A + 11272.
SVM (T=1.-1000.)
/MCNALLY 1980/
47H3PPANA.SVM

* 7Be (a,g) 11C + 7544.
SVM (T=1.6-1000.)
/FOWLER 1975/; computed from formula
47AGFO.SVM

- * 9Be (p,g) 10B + 6587.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
49PGFO.SVM
- * 9Be (p,npa) A - 1574.
SVM (T=21.-1000.)
/FOWLER 1975/; computed from formula
via 9B
49PNPAFO.SVM
- * 9Be (p,da) A + 651.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
49PDAFO.SVM
- * 9Be (p,a) 6Li + 2126.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
49PAFO.SVM
- * 9Be (a,n) 12C + 5701.
SVM (T=1.2-1000.)
/FOWLER 1975/; computed from formula
49ANFO.SVM
- * 9Be (a,naa) A - 1574.
SIG (E(a)=4200.-20000.)
/ECPL-82/
49ANAAEC.SIG

10B (p,g) 11C + 8690.
SIG (E(p)=450.-2500.)
/DAY 1954/; data from /JARMIE 1956/
BOPGDA.SIG

- * 10B (p,g) 11C + 8690. E(g)=8690.
SIG (E(p)=200.-2200.)
/WIESCHER 1983/; data read from a curve
capture via C-11 ground state
BOPGWI.SIG
- * 10B (p,gg) 11C + 8690. E(g1)=4371. E(g2)=4319.
SIG (E(p)=200.-2200.)
/WIESCHER 1983/; data read from a curve
capture to C-11 4319.keV state
BOPGG1WI.SIG
- * 10B (p,gg) 11C + 8690. E(g1)=2212. E(g2)=6478.
SIG (E(p)=200.-2200.)
/WIESCHER 1983/; data read from a curve
capture to C-11 6478.keV state
BOPGG2WI.SIG
- * 10B (p,g) 11C + 8690.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
BOPGFO.SVM

10B (p,n) 10C - 4433.
 SIG (E(p)=6850.-11700.)
 /MUMINOV 1980/; data taken from EXFOR A0085.024
 BOPNMU.SIG

* 10B (p,n) 10C - 4433.
 SIG (E(p)=4940.-10500.)
 /EARWAKER 1963/; data taken from EXFOR P0002.002
 BOPNEA.SIG

10B (p,p) 10B
 SIG (E(p)=850.-1600.)
 /BROWN 1951/; data from /JARMIE 1956/
 BOPPBR.SIG

* 10B (p,p) 10B
 SIG (E(p)=3000.-10000.)
 /BORELI 1970/; data read from a curve
 BOPPB0.SIG

* 10B (p,pg) 10B E(g)=718.
 SIG (E(p)= 1500.-2550.)
 /DAY 1954/; data from /JARMIE 1956/
 inelastic scattering via B-10 718keV state
 BOPPGDA.SIG

* 10B (p,3Hea) A - 442.
 SIG (E(p)=484.-20000.)
 /ECPL-82/
 BOPH3AEC.SIG

* 10B (p,3Hea) A - 442.
 SVM (T=12.-1000.)
 /ECPL-82/
 BOPH3AEC.SVM

10B (p,a) 7Be + 1146.
 SIG (E(p)=60.-180.)
 /SZABO 1972/; data taken from a table
 BOPASZ.SIG

10B (p,a) 7Be + 1146.
 SIG (E(p)=100.-1500.)
 /JARMIE 1956/; from /BACH 1955/, /BROWN 1951/, /BURCHAM 1950/
 BOPAJA.SIG

10B (p,a) 7Be + 1146.
 SIG (E(p)=3000.-7000.)
 /JENKIN 1964/; data taken from a curve
 via Be-7 ground state
 BOPAJE.SIG

* 10B (p,a) 7Be + 1146.
SIG (E(p)=100.-20000.)
/ECPL-82/
BOPAEC.SIG

10B (p,a) 7Be + 1146.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
BOPAFO.SVM

* 10B (p,a) 7Be + 1146.
SVM (T=2.02-1000.)
/ECPL-82/
BOPAEC.SVM

* 10B (p,ag) 7Be + 1146.
SIG (E(p)=3600.-6000.)
/JENKIN 1964/; data read from a curve
reaction via Be-7 429.keV state
BOPAGJE.SIG

10B (d,n) 11C + 6465.
SIG (E(d)=7000.-16010.)
/ANDERS 1981/; data taken from a table
BODNAN.SIG

10B (d,n) 11C + 6465.
SIG (E(d)=600.-3200.)
/WOHLLEBEN 1969/; data taken from a table
BODNW0.SIG

10B (d,n) 11C + 6465.
SIG (E(d)=3000.-9000.)
/DIN 1967/; data read from a curve
BODNDI.SIG

* 10B (d,n) 11C + 6465.
SIG (E(d)=100.-20000.)
/ECPL-82/
BODNEC.SIG

* 10B (d,n) 11C + 6465.
SVM (T=1.82-1000.)
/ECPL-82/
BODNEC.SVM

* 10B (d,ng) 11C + 6465. E(g)=4320.
SIG (E(d)=111.-159.)
/CECIL 1982/; data taken from a table
via C-11 4320.keV level
BODNGCE.SIG

10B (d,p) 11B + 9230.
SIG (E(d)=150.-700.)
/PARIS 1954/; data read from a curve
BODPPA.SIG

10B (d,p) 11B + 9230.
SIG (E(d)=150.-300.)
/HARRISON 1960/; data read from a curve
via 11B ground state
BODPHA.SIG

10B (d,p) 11B + 9230.
SIG (E(d)=1000.-3500.)
/BREUER 1964/; data read from a curve
via 11B ground state
BODPBR.SIG

* 10B (d,p) 11B + 9230.
SIG (E(d)=100.-20000.)
/ECPL-82/
BODPEC.SIG

10B (d,pg) 11B + 9230.
SIG (E(d)=150.-300.)
/HARRISON 1960/; data read from a curve
via 11B 1st state
BODPG1HA.SIG

10B (d,pg) 11B + 9230.
SIG (E(d)=150.-300.)
/HARRISON 1960/; data read from a curve
via 11B 2nd state
BODPG2HA.SIG

10B (d,pg) 11B + 9230.
SIG (E(d)=150.-300.)
/HARRISON 1960/; data read from a curve
via 11B 3rd state
BODPG3HA.SIG

10B (d,pg) 11B + 9230.
SIG (E(d)=1000.-3500.)
/BREUER 1964/; data read from a curve
via 11B 1st state
BODPG1BR.SIG

10B (d,pg) 11B + 9230.
SIG (E(d)=1000.-3500.)
/BREUER 1964/; data read from a curve
via 11B 2nd state
BODIG2BR.SIG

* 10B (d,p) 11B + 9230.
SVM (T=2.42-1000.)
/ECPL-82/
BODPEC.SVM

* 10B (d,dg) 10B E(g)=2150.
SIG (E(d)=6500.-12000.)
/STOCKER 1974/; data taken from a table
via 10B 2150.keV state
BODDGST.SIG

10B (d,aa) A + 17911.
SIG (E(d)=1000.-1750.)
/PURSER 1963/; data taken from a table
BODAAAPU.SIG

10B (d,aa) A + 17911.
SIG (E(d)=600.-2600.)
/COMSAN 1968/; data read from a curve
via 8Be ground state
BODAAOC0.SIG

10B (d,aa) A + 17911.
SIG (E(d)=600.-2600.)
/COMSAN 1968/; data read from a curve
via 8Be 1st state
BODAA1C0.SIG

* 10B (d,aa) A + 17911.
SIG (E(d)=100.-20000.)
/ECPL-82/
BODAAEC.SIG

* 10B (d,aa) A + 17911.
SVM (T=1.82-1000.)
/ECPL-82/
BODAAEC.SVM

* 10B (a,n) 13N + 1058.
SIG (E(a)=2550.-4830.)
/GIBBONS 1959/; data taken from EXFOR P0001.005
BOANGI.SIG

* 10B (a,a) 10B
SIG (E(a)=5000.-30000.)
/DAVID 1972/; data read from a curve
BOAAD.A.SIG

11B (p,g) 12C + 15956.
SIG (E(p)=360.-2000.)
/HUUS 1953/; from /TAUSSIG 1977/ from /JARMIE 1957/
B1PGH.U.SIG

11B (p,g) 12C + 15956.
SIG (E(p)=500.-4000.)
/SEGEL 1965; data read from a curve
B1PGSE.SIG

* 11B (p,g) 12C + 15956.
SIG (E(p)=360.-4000.)
/AEP/; from /SEGEL 1965/, /HUUS 1953/
B1PGAP.SIG

11B (p,g) 12C + 15956.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
B1PGFO.SVM

* 11B (p,g) 12C + 15956.
SVM (T=10.-1000.)
/AEP/; computed from SIG /AEP/
B1PGAP.SIG

11B (p,gg) 12C + 15956.; g(4000.) g(12000.)
SIG (E(p)=100.-2000.)
/HUUS/; from /TAUSSIG 1977/ from /JARMIE 1957/
B1PGGHU.SIG

11B (p,gg) 12C + 15956.; g(4000.) g(12000.)
SIG (E(p)=540.-4000.)
/SEGEL 1965/; data taken from a curve
B1PGGSE.SIG

* 11B (p,gg) 12C + 15956.; g(4000.) g(12000.)
SIG (E(p)=100.-4000.)
/AEP/; from /SEGEL 1965/, /HUUS 1953/
B1PGGAP.SIG

* 11B (p,gg) 12C + 15956.; g(4000.) g(12000.)
SVM (T=10.-1000.)
/AEP/; computed from SIG /AEP/
B1PGGAP.SIG

11B (p,n) 11C - 2764.
SIG (E(p)=2890.-5510.)
/GIBBONS 1959/; data taken from EXFOR P0001.003
B1PNGI.SIG

11B (p,n) 11C - 2764.
SIG (E(p)=4720.-15000.)
/FURUKAWA 1960/; data taken from EXFOR P0045.002
B1PNFU.SIG

11B (p,n) 11C - 2764.
SIG (E(p)=3000.-3700.)
/SEGEL 1965/; data taken from a curve
B1PNSE.SIG

11B (p,n) 11C - 2764.
SIG (E(p)=10870.-27500.)
/ANDERS 1981/; data taken from a table
B1PNAS.SIG

11B (p,n) 11C - 2764.
SIG (E(p)=4700.-8500.)
/ANDERSON 1964/; data taken from /HOEHN 1981/
B1PNAN.SIG

* 11B (p,n) 11C - 2764.
SIG (E(p)=3020.-20000.)
/ECPL-82/
B1PNEC.SIG

11B (p,n) 11C - 2764.
SVM (T=32.-1000.)
/FOWLER 1975/; computed from formula
B1PNFO.SVM

11B (p,n) 11C - 2764.
SVM (T=50.-1000.)
/ECPL-82/
B1PNEC.SVM

* 11B (p,n) 11C - 2764.
SVM (T=10.-1000.)
/AEP/; computed from SIG /ECPL-82/
B1PNAP.SVM

* 11B (p,pg) 11B
SIG (E(p)=2500.-4000.)
/SEGEL 1965/; data read from a curve
inelastic scattering via 11B 2130.keV state
B1PPGSE.SIG

11B (p,aa) A + 8681.
SIG (E(p)=300.-1800.)
/BECKMAN 1953/; data read from a curve
via 8Be ground level
B1PA0BE.SIG

11B (p,aa) A + 8681.
SIG (E(p)=780.-6010.)
/SYMONS 1963/; data taken from a table
via 8Be ground level
B1PA0SY.SIG

11B (p,aa) A + 8681.
SIG (E(p)=540.-3800.)
/SEGEL 1965/; data read from a curve
via 8Be ground level
B1PA0SE.SIG

11B (p,aa) A + 8681.
SIG (E(p)=3400.-7800.)
/BOERCHERS 1983/; data read from a curve
via 8Be ground level
B1PA0BO.SIG

11B (p,aa) A + 8681.
 SIG (E(p)=5000.-45000.)
 /BUCK 1983/; data read from a curve
 via 8Be ground level
 B1PA0BU.SIG

11B (p,aa) A + 8681.
 SIG (E(p)=300.-1800.)
 /BECKMAN 1953/; data read from a curve
 via 8Be 1st excited level
 B1PALBE.SIG

11B (p,aa) A + 8681.
 SIG (E(p)=780.-3660.)
 /SYMONS 1963/; data taken from a table
 via 8Be 1st excited level
 B1PALSY.SIG

11B (p,aa) A + 8681.
 SIG (E(p)=540.-3800.)
 /SEGEI 1965/; data read from a curve
 via 8Be 1st excited level
 B1PA1SE.SIG

11B (p,aa) A + 8681.
 SIG (E(p)=5000.-45000.)
 /BUCK 1983/; data read from a curve
 via 8Be 1st level
 B1PA1BU.SIG

11B (p,aa) A + 8681.
 SIG (E(p)=30.-1500.)
 /DAVIDSON 1979/; data read from a curve
 sum of all alpha channels
 B1PAADA.SIG

11B (p,aa) A + 8681.
 SIG (E(p)=100.-10000.)
 /MOREAU 1977/; computed: upper bound of resonance parameter set
 sum of all alpha channels
 B1PAAUPMO.SIG

11B (p,aa) A + 8681.
 SIG (E(p)=100.-10000.)
 /MOREAU 1977/; computed: lower bound of resonance parameter set
 sum of all alpha channels
 B1PAALOMO.SIG

11B (p,aa) A + 8681.
 SIG (E(p)=100.-10000.)
 /GORDON 1981/; computed: resonance parameters from unknown source
 sum of alpha channels
 B1PAAGO.SIG

11B (p,aa) A + 8681.
 SIG (E(p)=35.-2000.)
 /MILEY 1974/; analytical fit
 sum of alpha channels,
 B1PAAAMI.SIG

11B (p,aa) A + 8681.
SIG (E(p)=30.-3000.)
/EXFOR/; from /DAVIDSON 1979/, /SEGEL 1965/
sum of all alpha channels
B1PAAEX.SIG

11B (p,aa) A + 8681.
SIG (E(p)=68.-29000.)
/ECPL-82/
sum of all alpha channels
B1PAAEC.SIG

* 11B (p,aa) A + 8681.
SIG (E(p)=30.-20000.)
/AEP/; from /EXFOR/, /SEGEL 1965/, /MOREAU 1977/, /ECPL-82/
sum of all alpha channels
B1PAAAP.SIG

11B (p,aa) A + 8681.
SVM (T=1.-1000.)
/FOWLER 1975/; computed from formula
B1PAAFO.SVM

11B (p,aa) A + 8681.
SVM (T=1.-1000.)
/MCNALLY 1980/
B1PAANA.SVM

11B (p,aa) A + 8681.
SVM (T=1.42-1000.)
/ECPL-82/
B1PAAEC.SVM

* 11B (p,aa) A + 8681.
SVM (T=10.-1000.)
/AEP/; computed from SIG /AEP/
B1PAAAP.SVM

* 11B (d,n) 12C + 13732.
SIG (E(d)=100.-20000.)
/ECPL-82/
B1DNEC.SIG

* 11B (d,n) 12C + 13732.
SVM (T=1.82-1000.)
/ECPL-82/
B1DNEC.SVM

* 11B (d,nn) 11C - 4989.
SIG (E(d)=7000.-16000.)
/ANDERS 1981/; data taken from a table
B1DNNAN.SIG

11B (d,p) 12B + 1145.
SIG (E(d)=500.-3000.)
/KAVANAGH 1958/; data read from a curve
B1DPKA.SIG

* 11B (d,p) 12B + 1145.
SIG (E(d)=100.-20000.)
/ECPL-82/
B1DPEC.SIG

* 11B (d,p) 12B + 1145.
SVM (T=1.82-1000.)
/ECPL-82/
B1DPEC.SVM

11B (a,n) 14N + 157.
SIG (E(a)=400.-5000.)
/WALKER 1949/
BLANWA.SIG

11B (a,n) 14N + 157.
SIG (E(a)=3700.-7850.)
/VAN DER ZWAN 1975/
BLANVA.SIG

* 11B (a,n) 14N + 157.
SIG (E(a)=360.-7850.)
/AEP/; from /WALKER 1977/,/VAN DER ZWAN 1975/
BLANAP.SIG

* 11B (a,n) 14N + 157.
SVM (T=10.-1000.)
/AEP/; computed from SIG /AEP/
BLANAP.SVM

11B (a,p) 14C + 783.
SIG (E(a)=2500.-3600.)
/LEE 1959/
BLAPLE.SIG

11B (a,p) 14C + 783.
SIG (E(a)=1450.-2900.)
/DAYRAS 1976/
BLAPDA.SIG

11B (a,p) 14C + 783.
SIG (E(a)=4400.-6700.)
/HOU 1977/
BLAPHO.SIG

* 11B (a,p) 14C + 783.
SIG (E(a)=1450.-6700.)
/AEP/; from /LEE 1959/,/DAYRAS 1976/,/HOU 1977/
BLAPAP.SIG

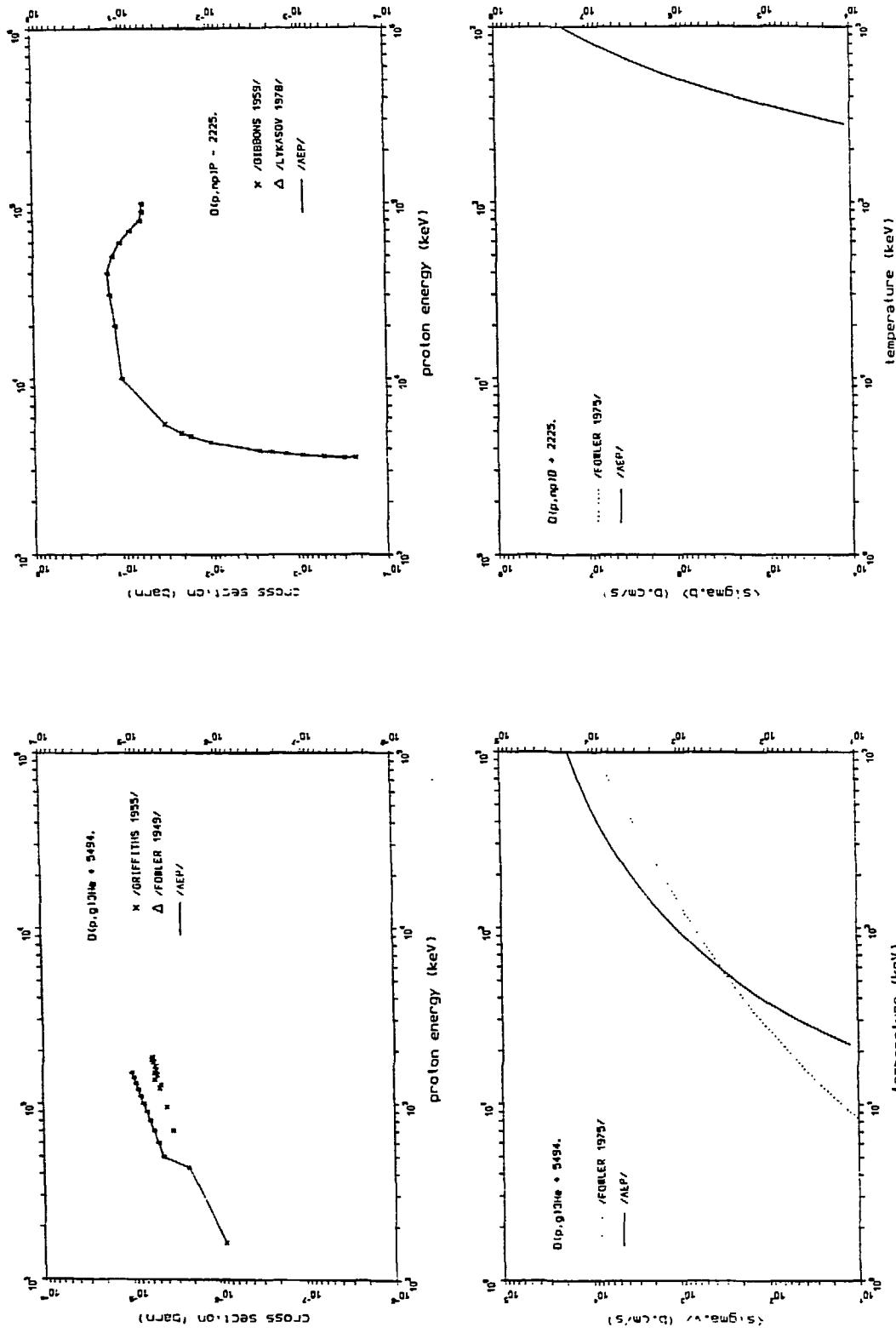
* 11B (a,p) 143 + 783.
SVM (T=10.-1000.)
/AEP/; computed from SIG /AEP/
B1APAP.SVM

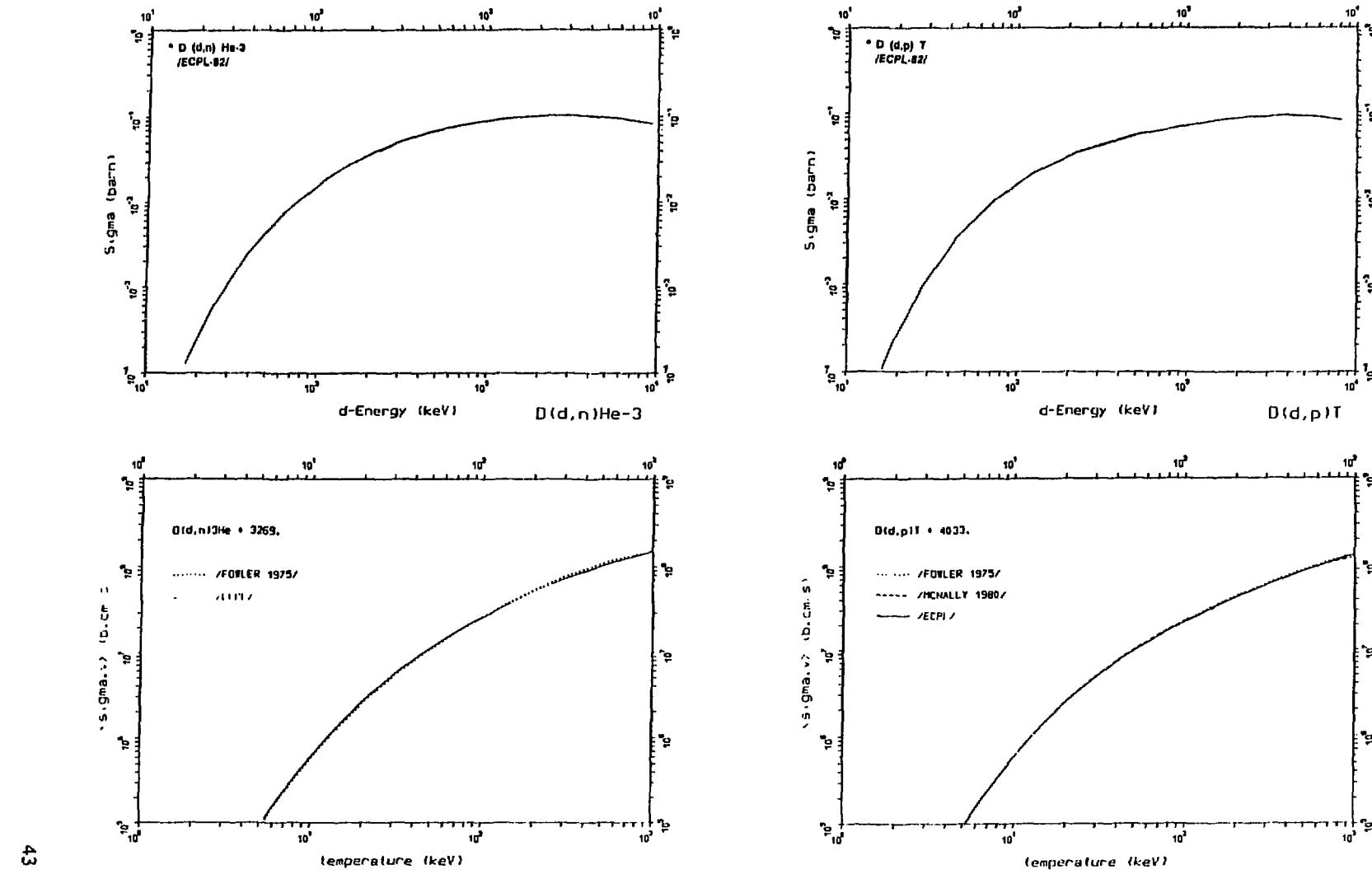
11B (11B,x) X
SIG (E(11B)=3100.-7200.)
/HIGH 1976/
sum of outgoing channels
B1B1SHI.SIG

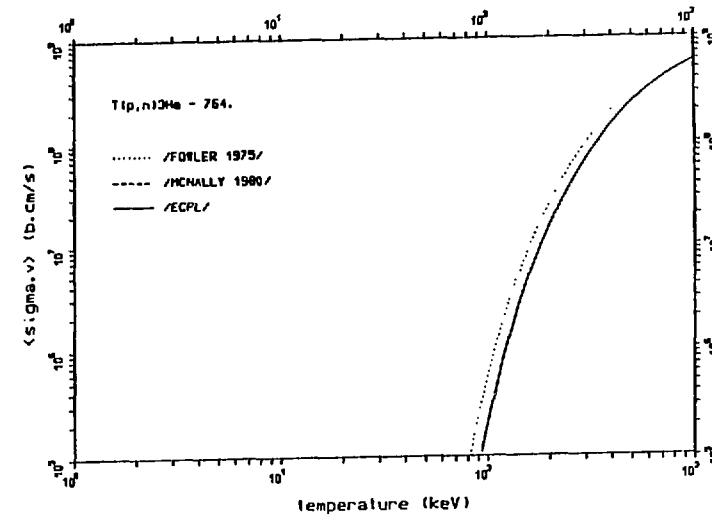
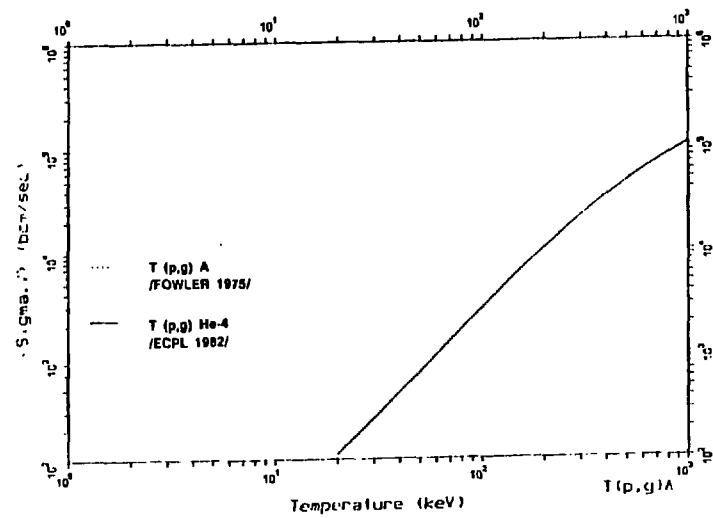
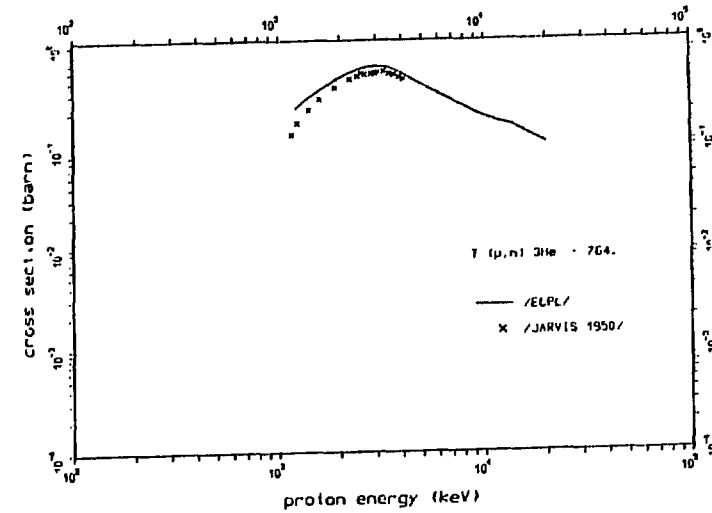
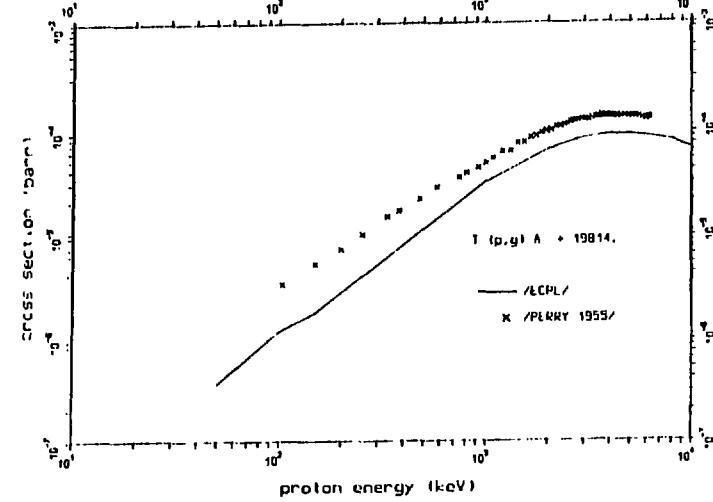
* 11B (11B,x) X
SIG (E(B-11)=2000.-20000.)
/NORBECK 1980/
sum of outgoing channels, optical model fit
B1B1SNO.SIG

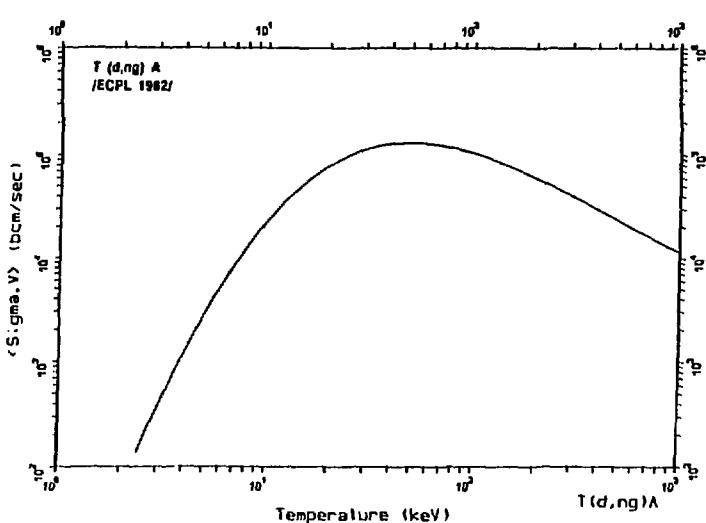
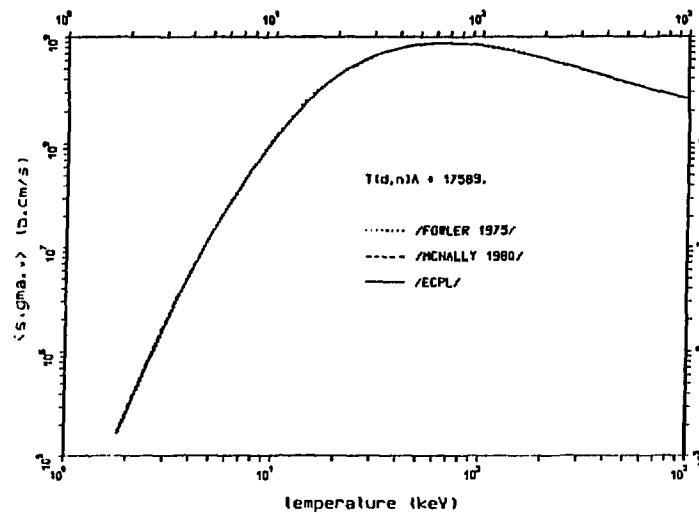
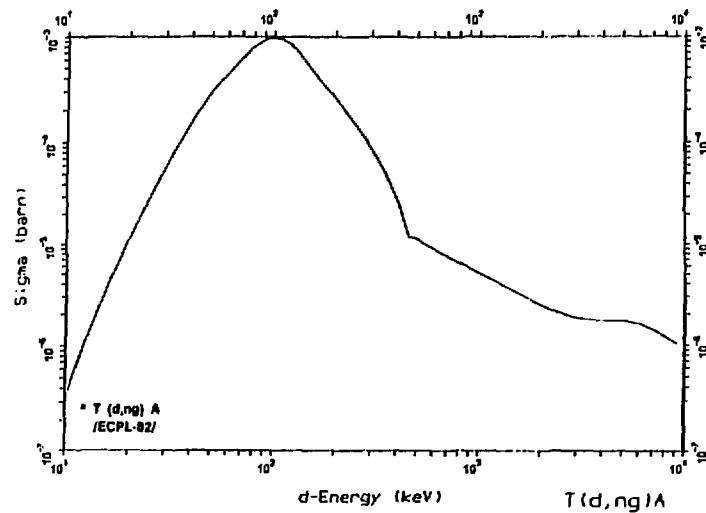
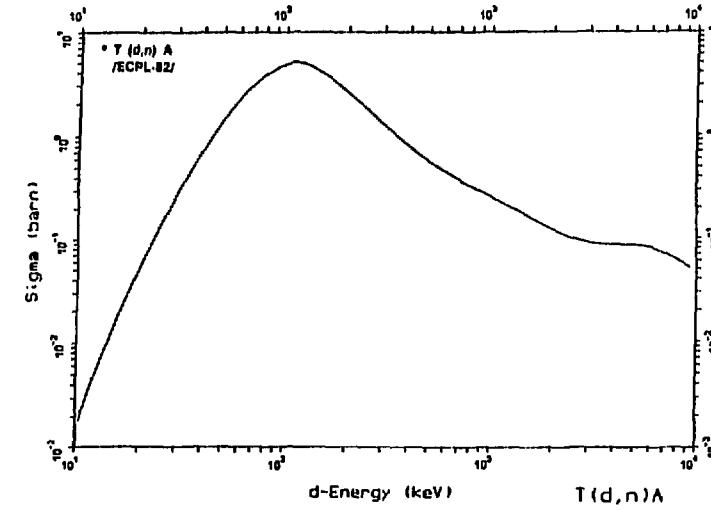
* 11B (11B,x) X
SVM (T=10.-1000.)
/AEP/; computed from SIG /NORBECK 1980/
B1B1SAP.SVM

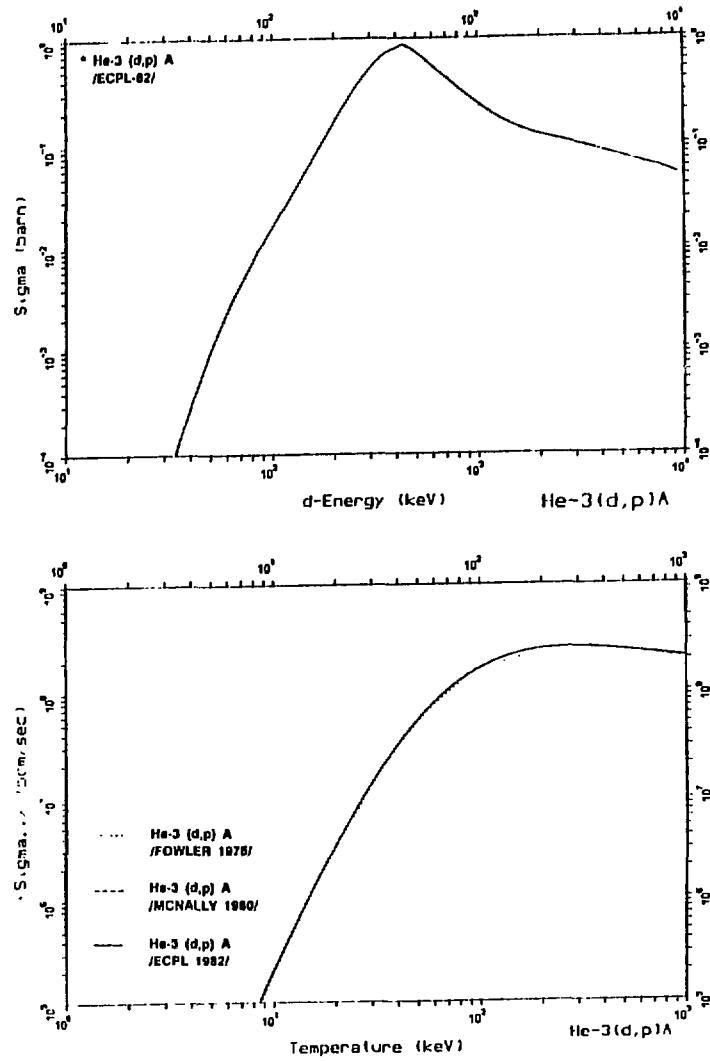
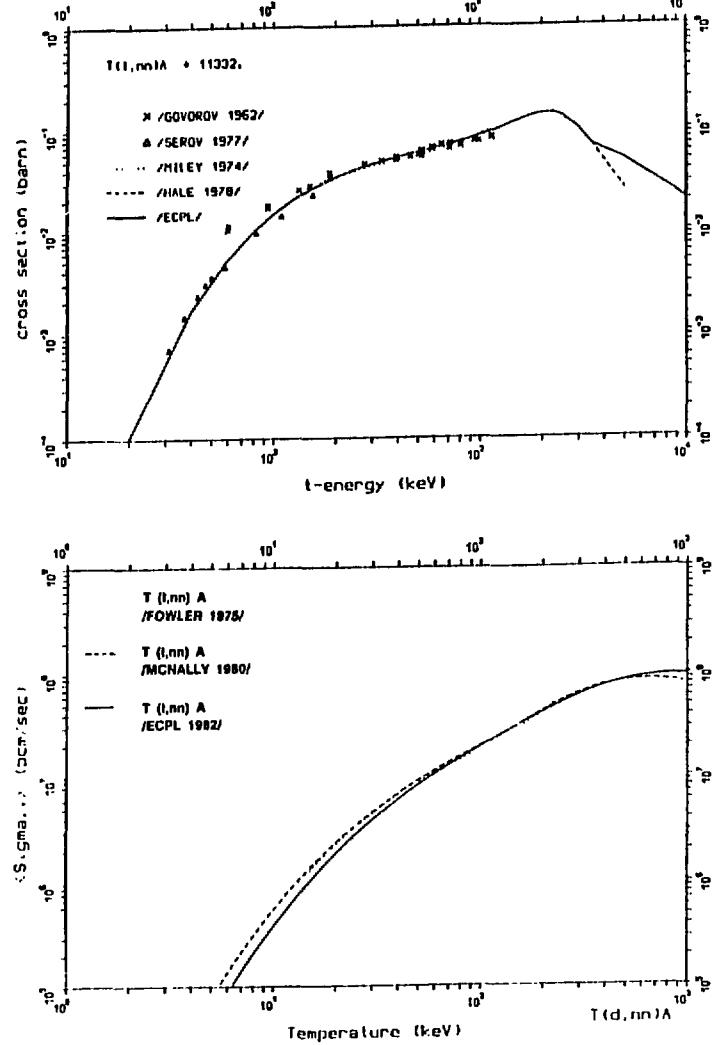
4. PLOTS

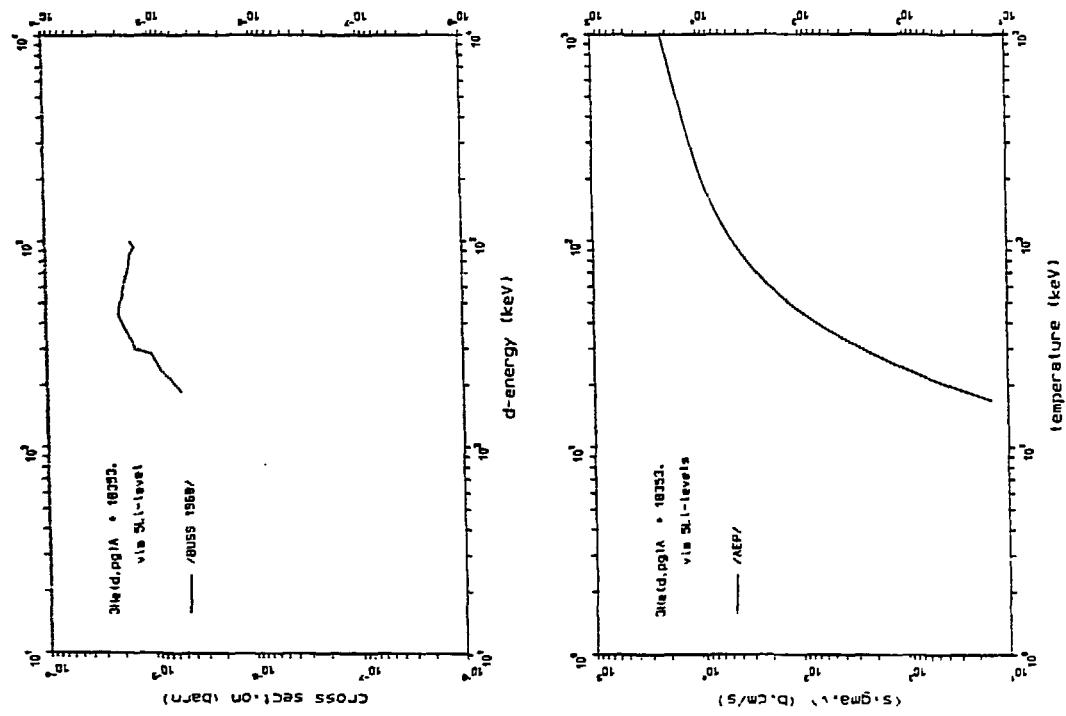
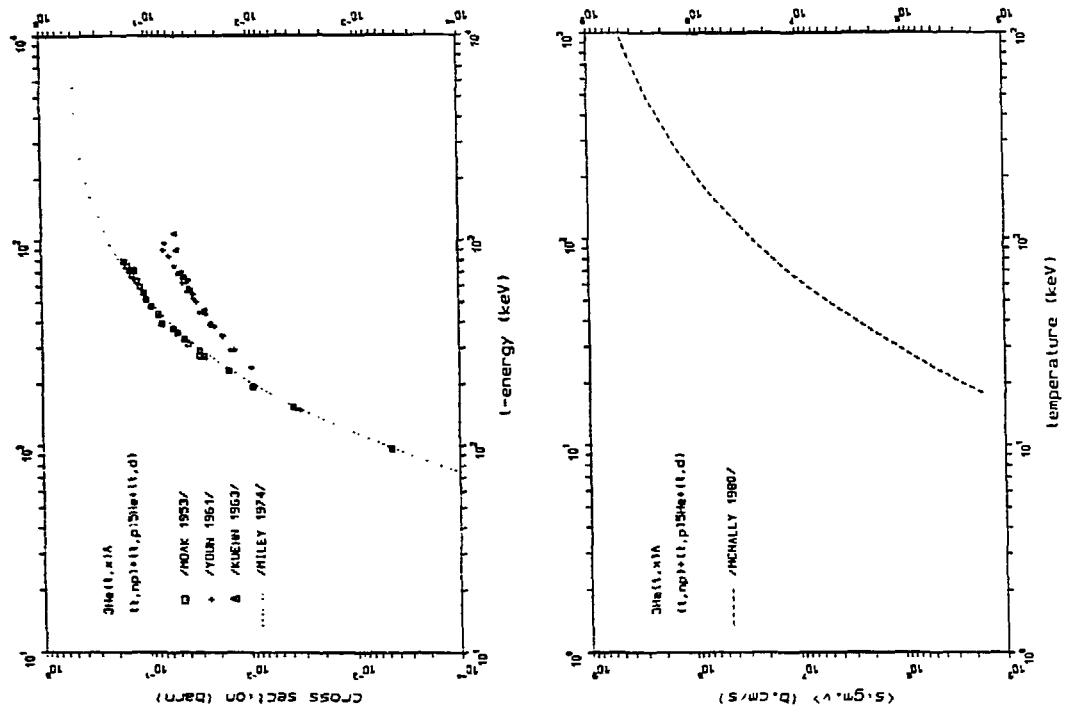


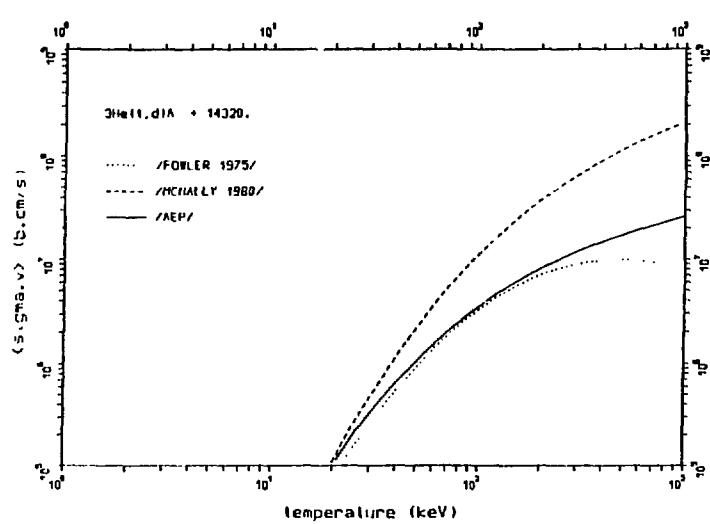
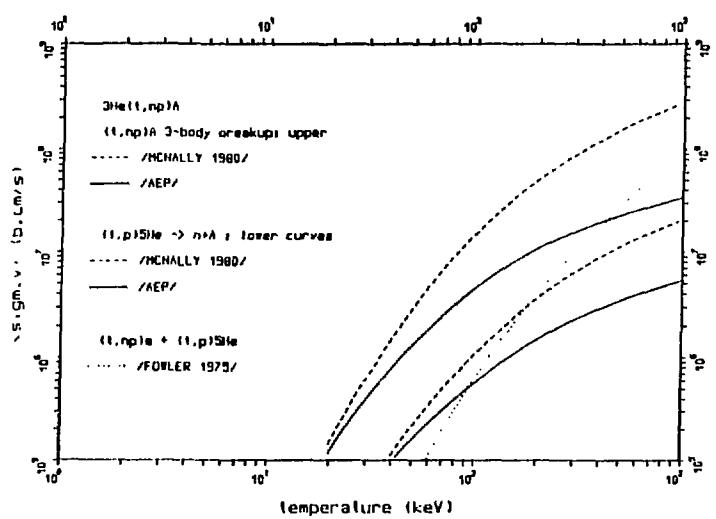
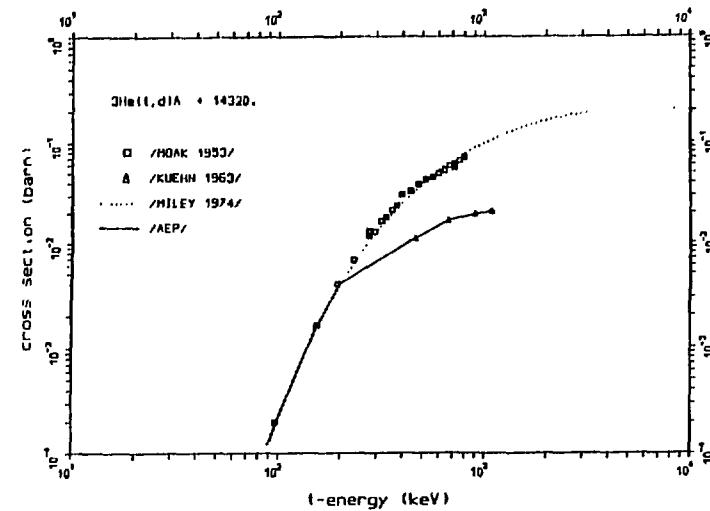
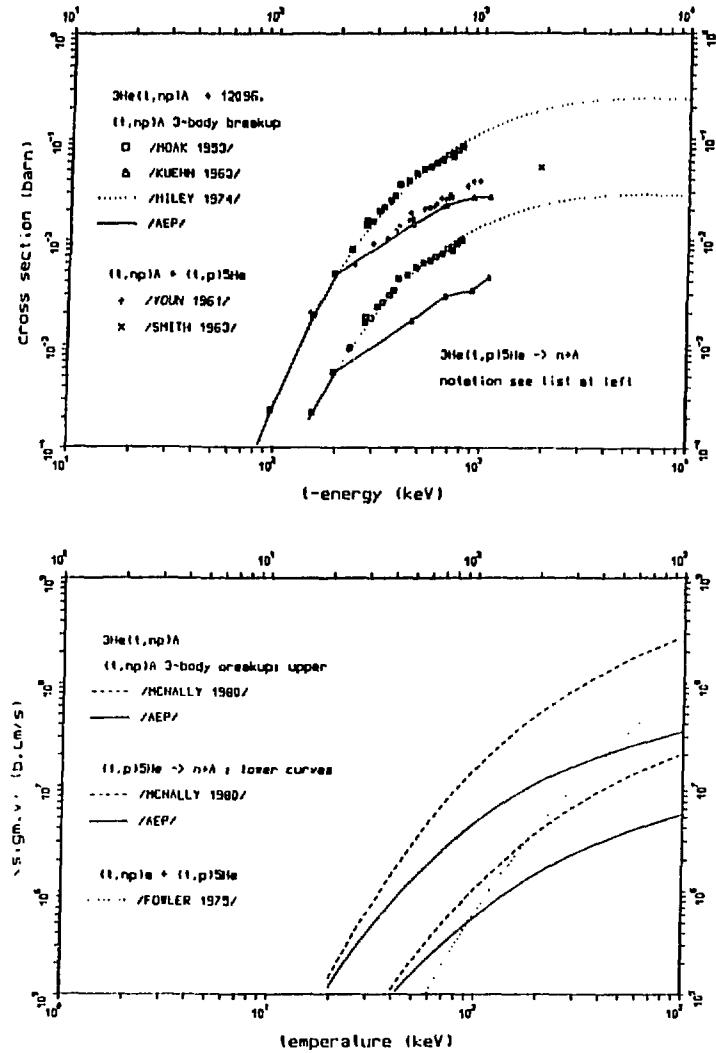


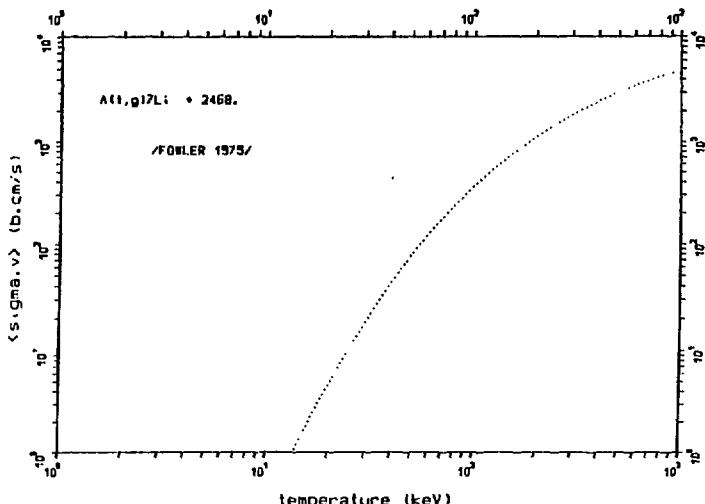
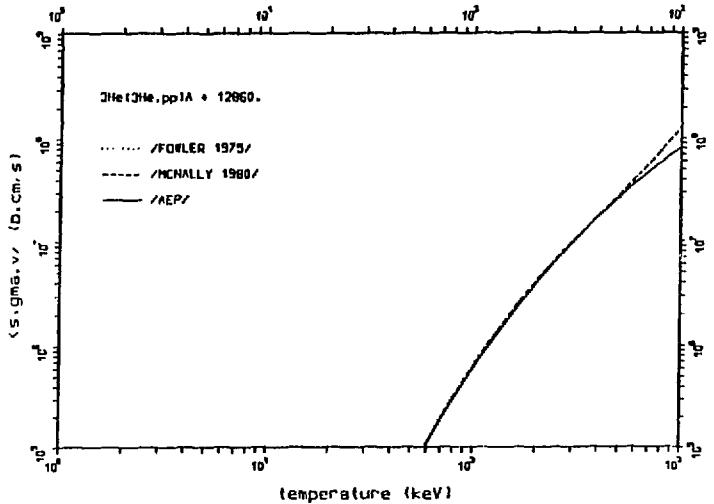
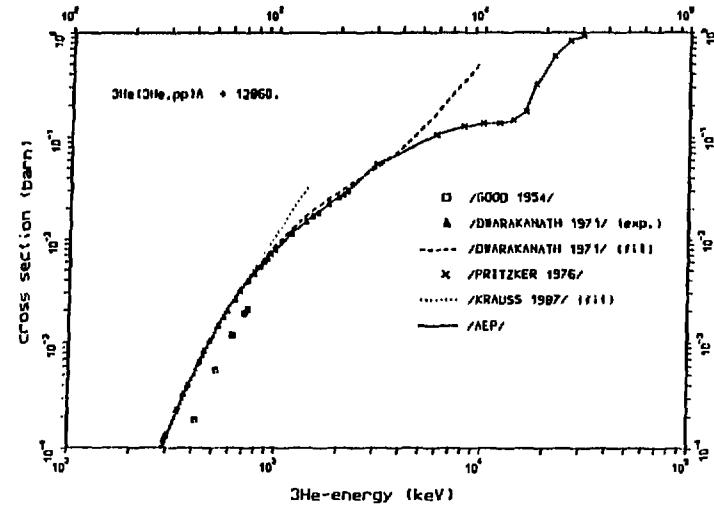




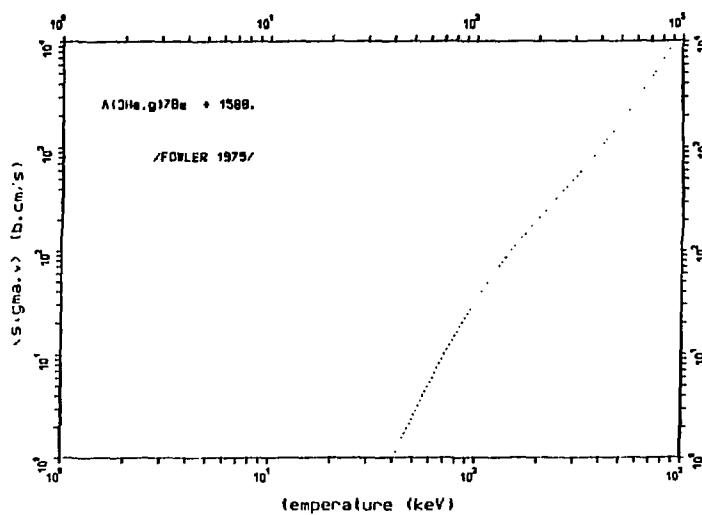
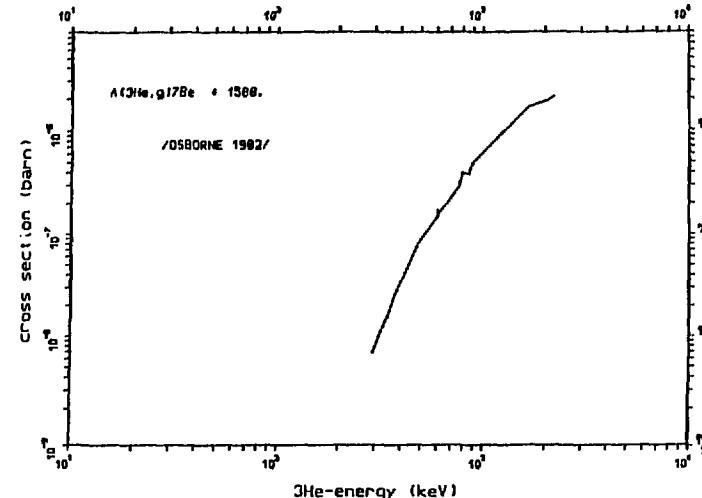
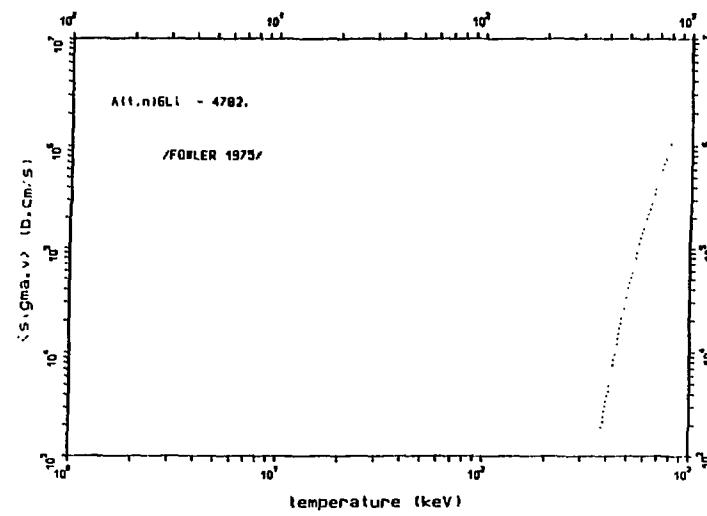




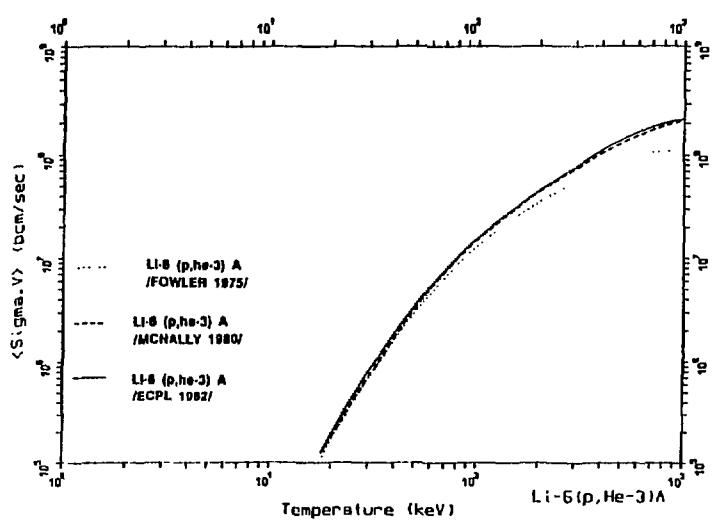
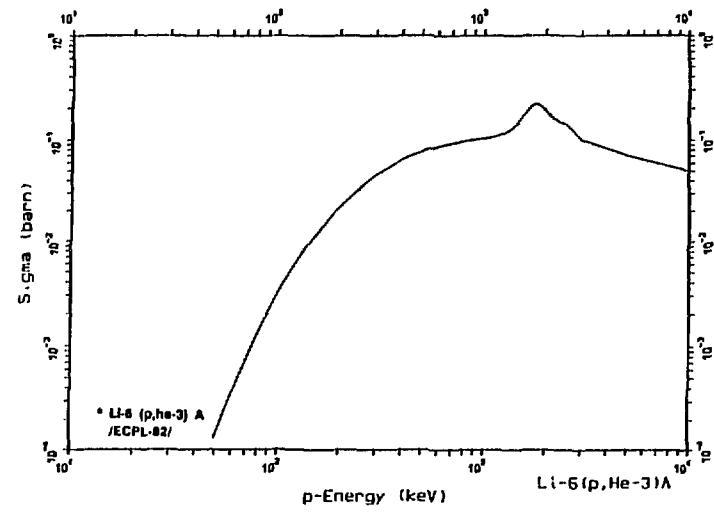
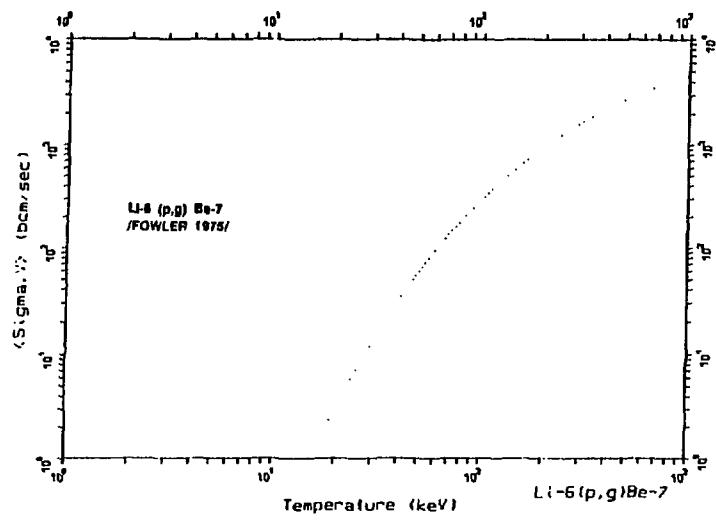




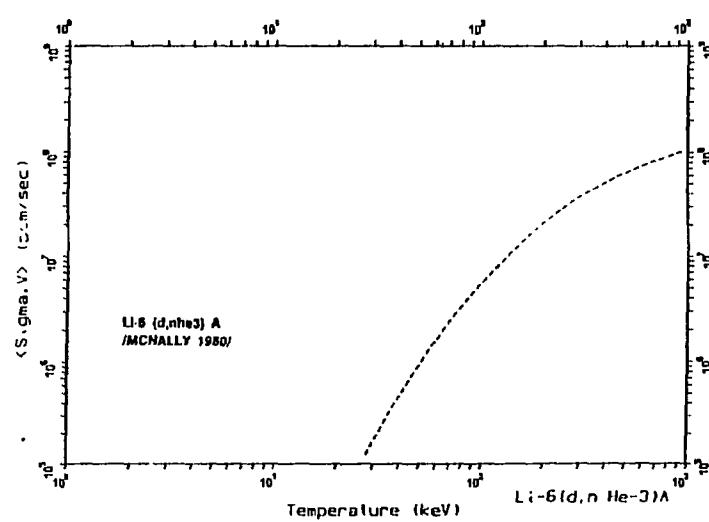
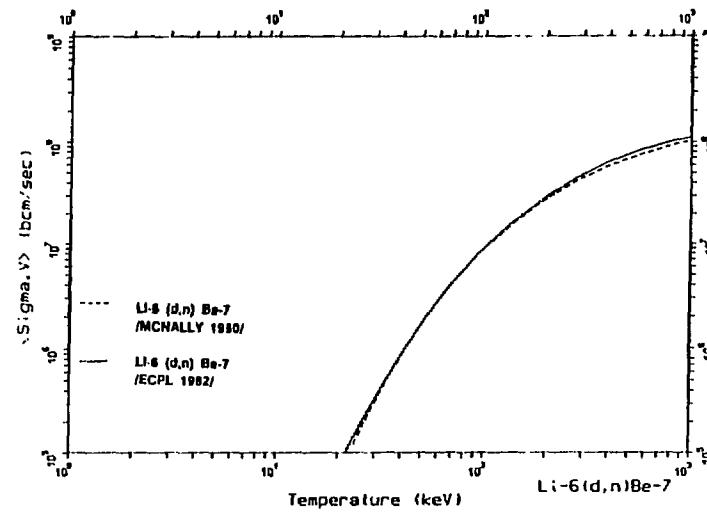
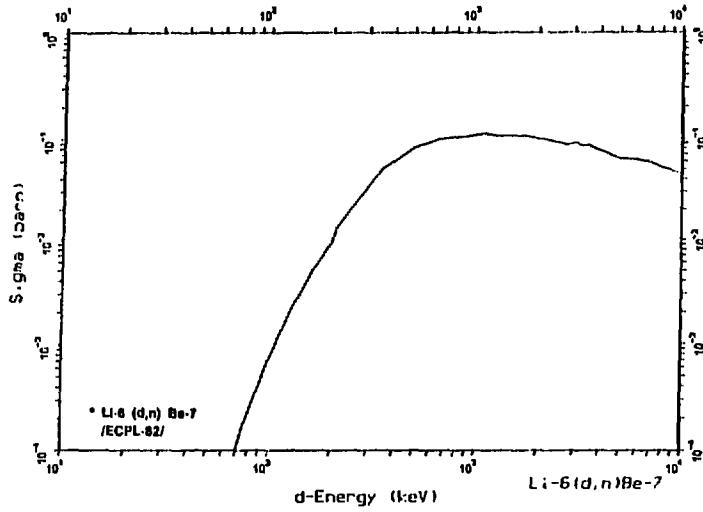
50

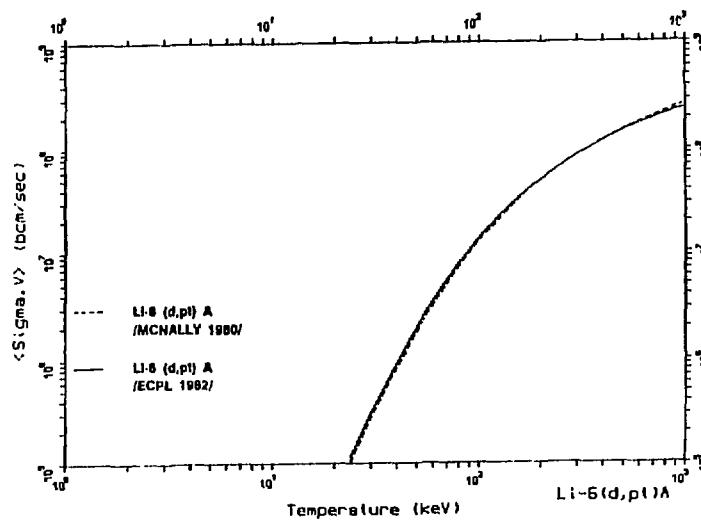
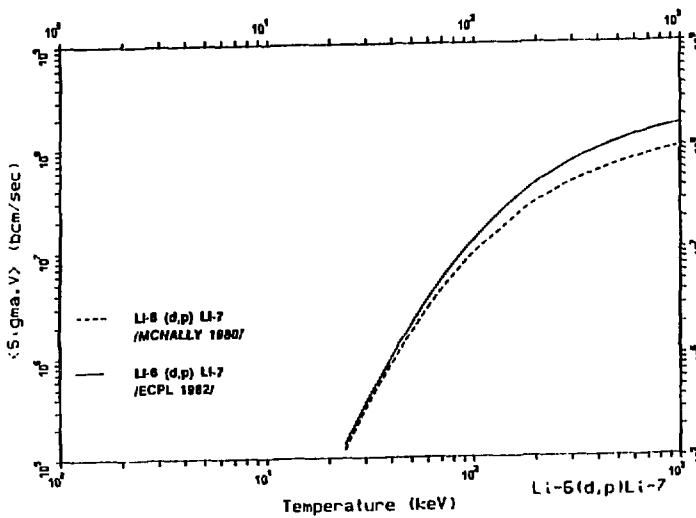
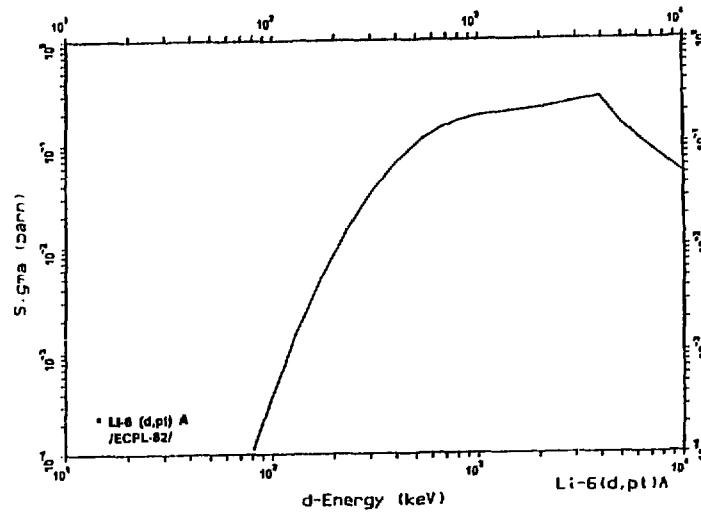
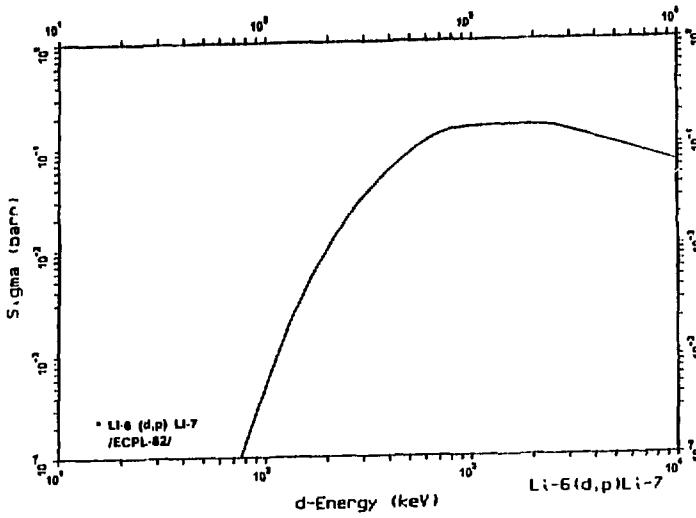


15

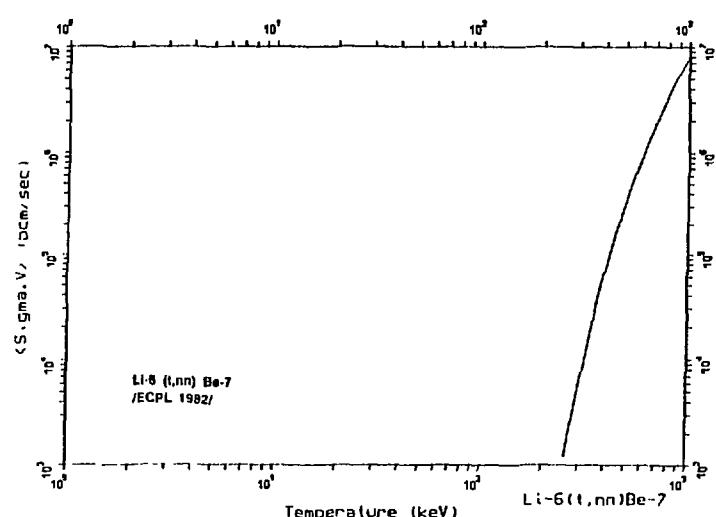
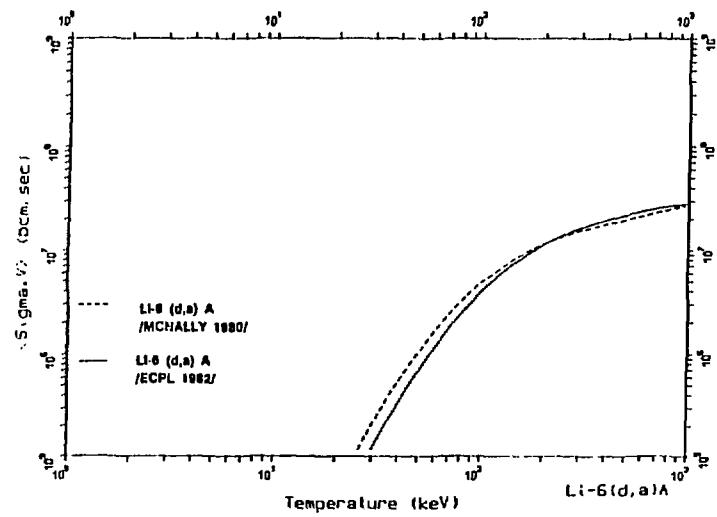
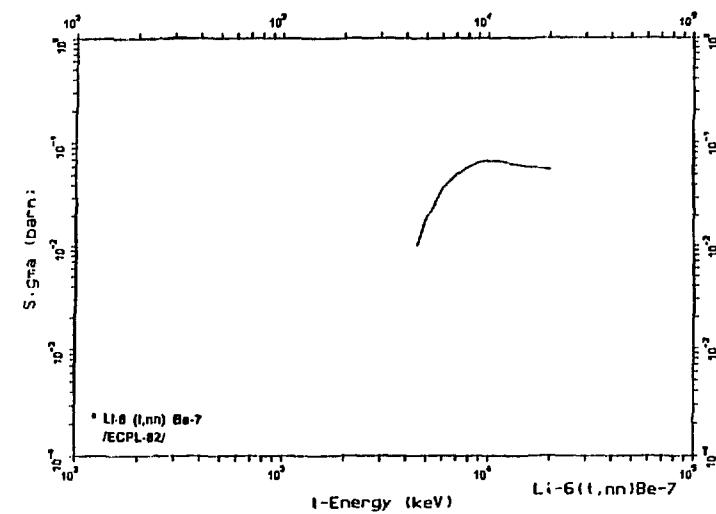
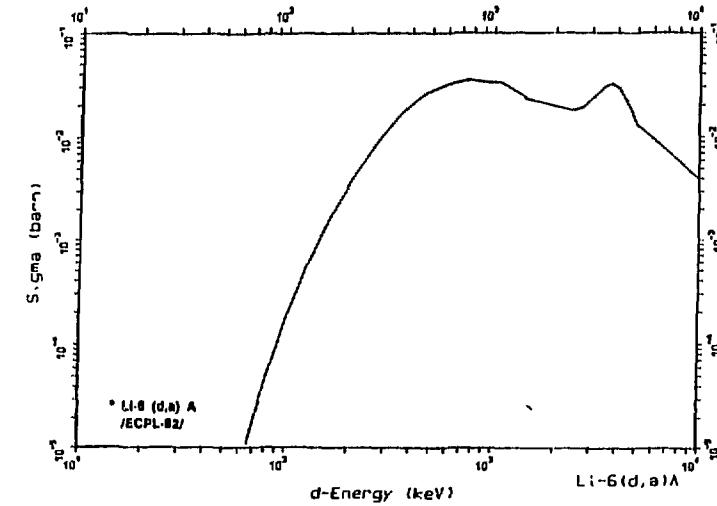


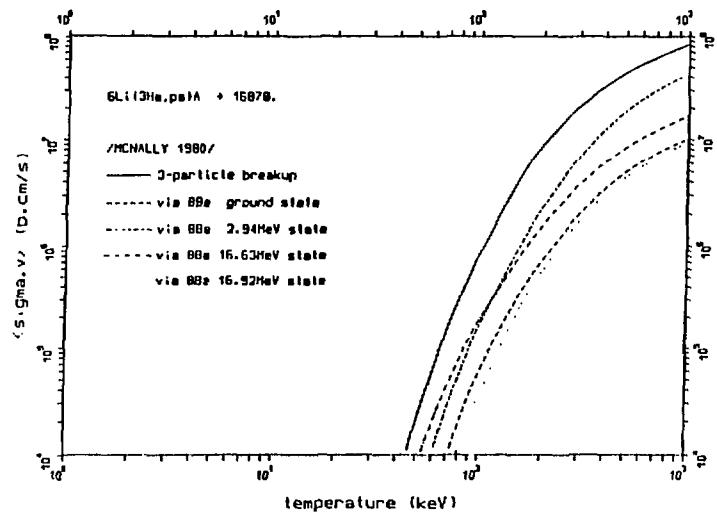
16



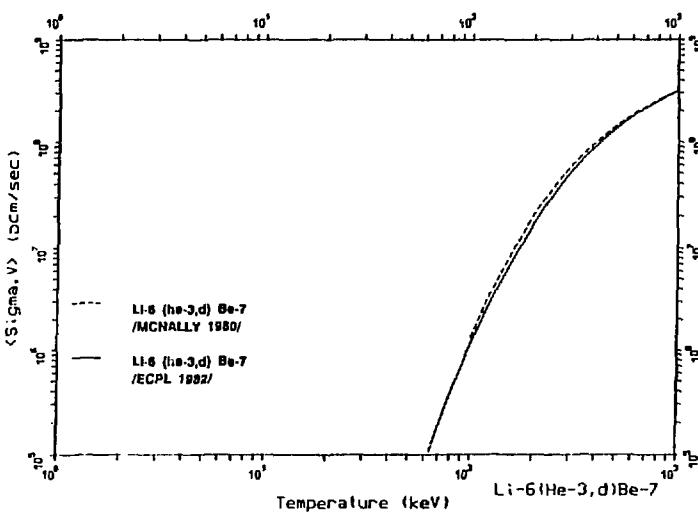
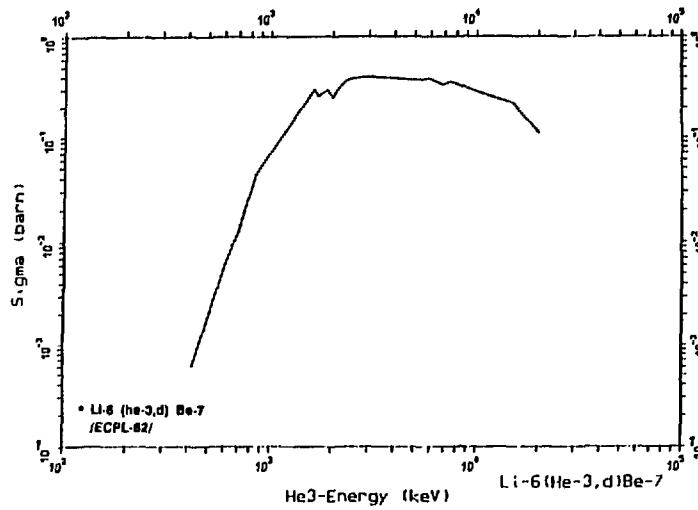


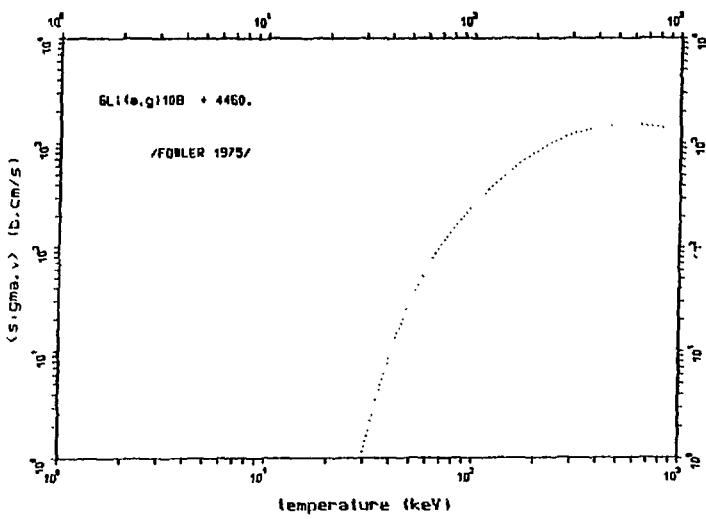
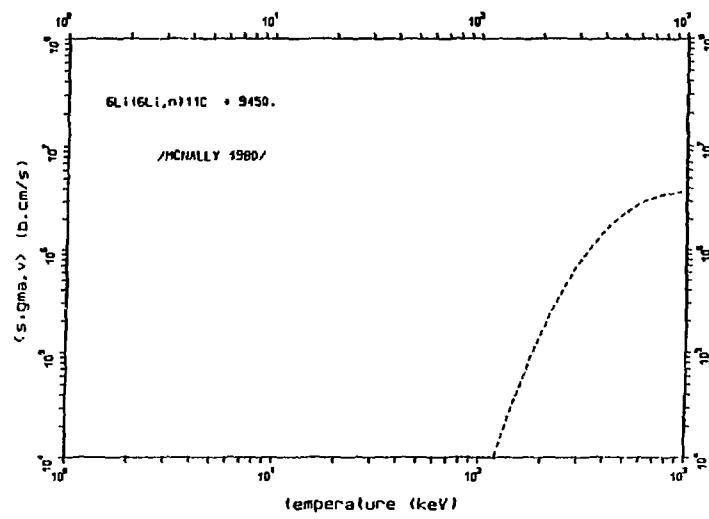
54

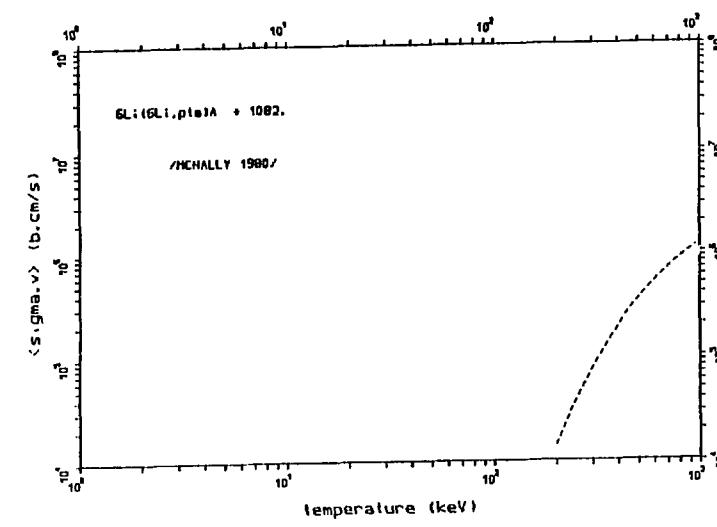
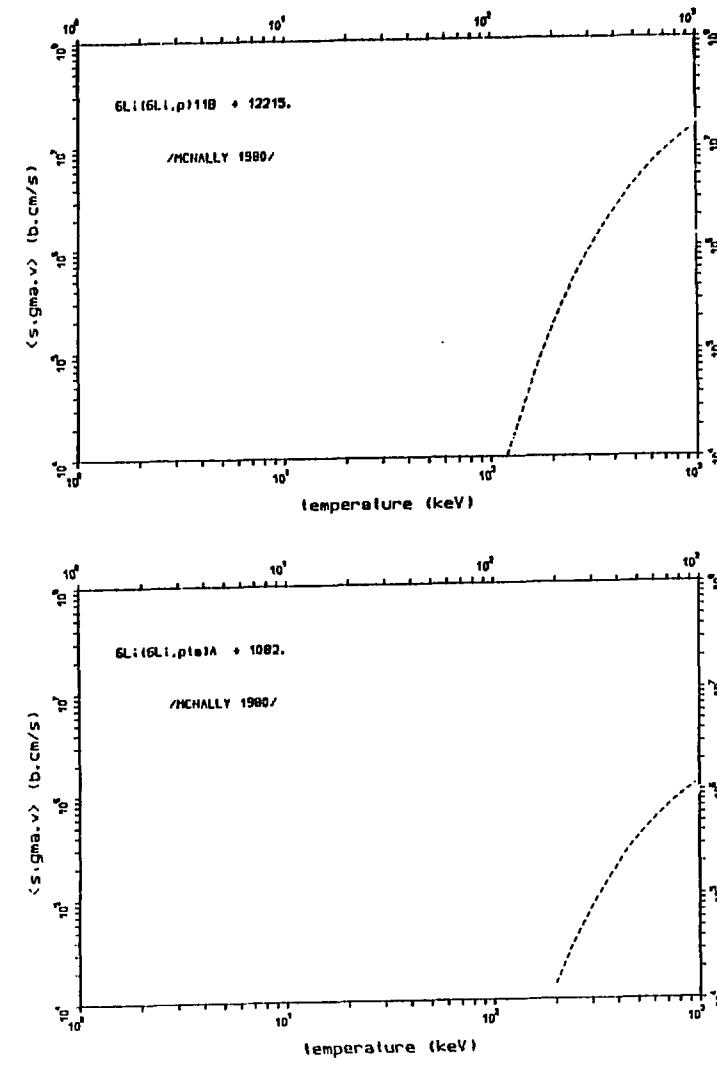
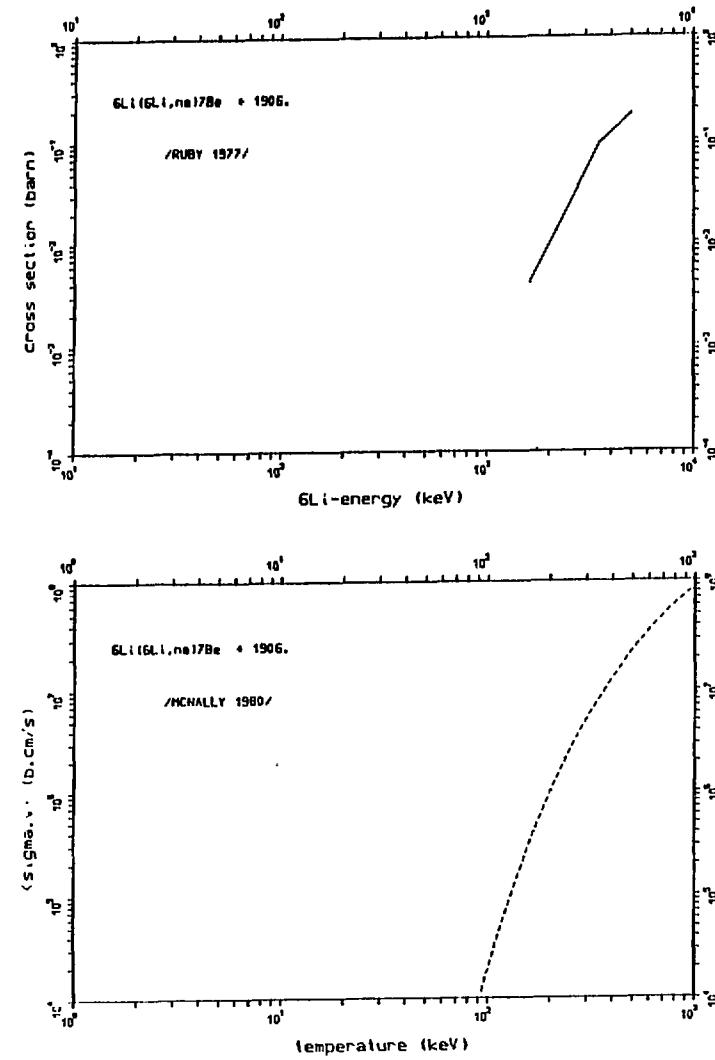


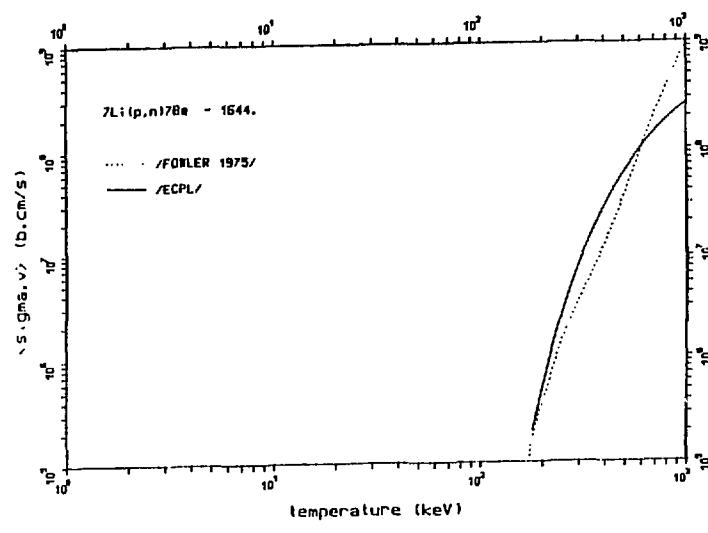
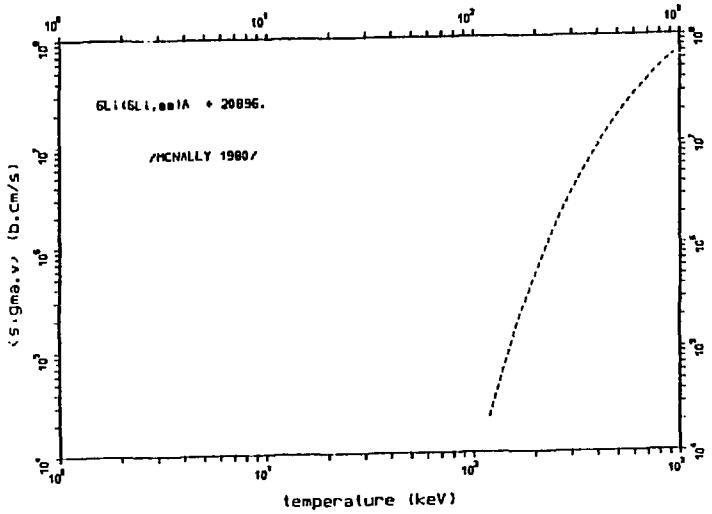
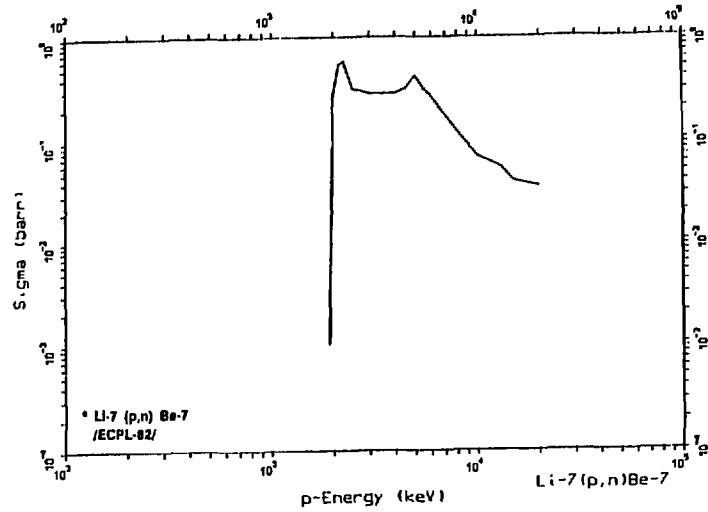
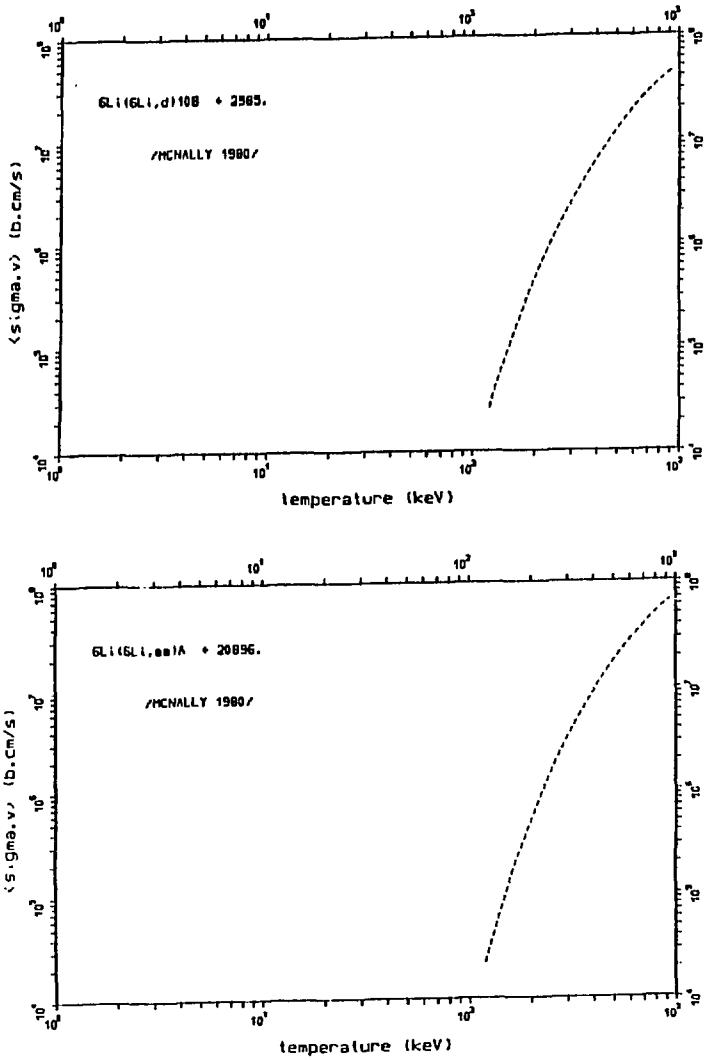


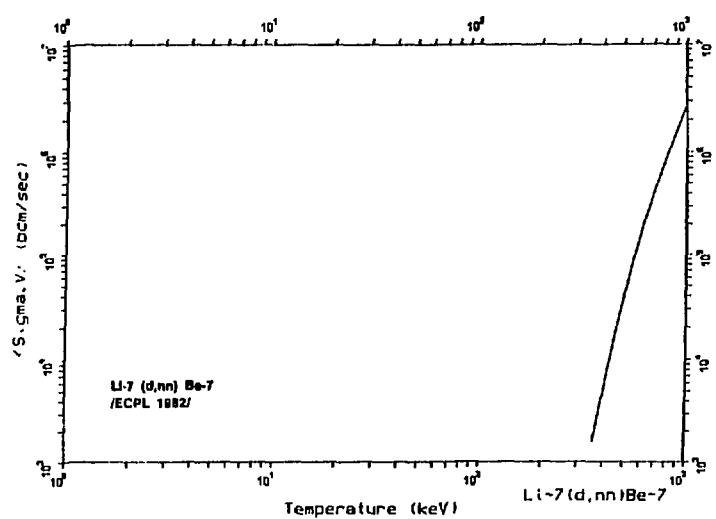
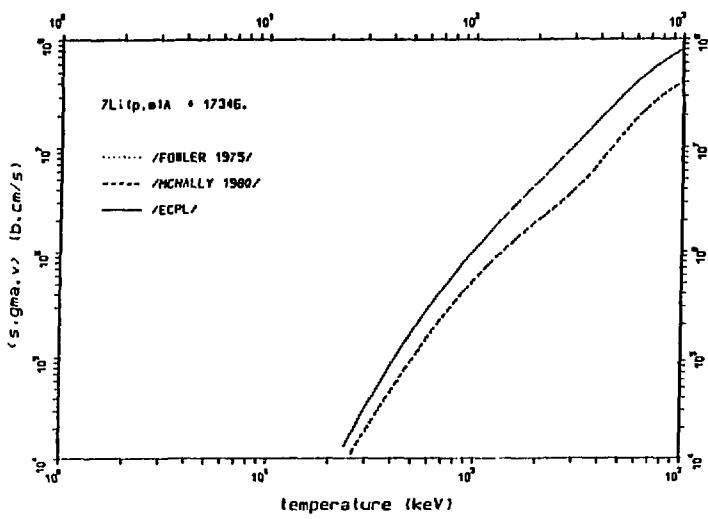
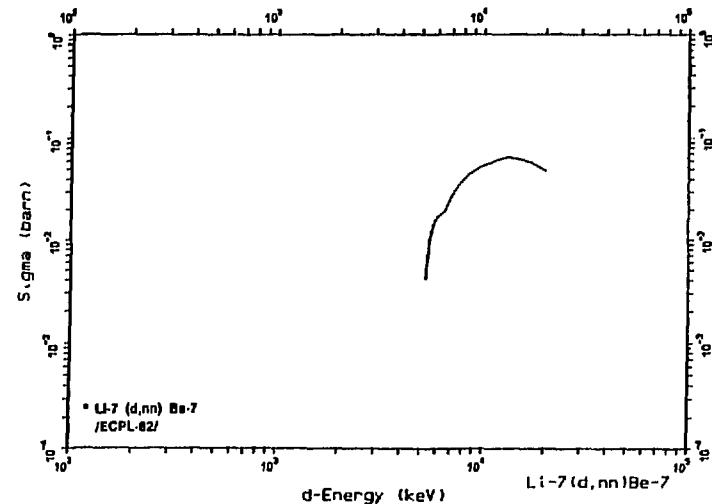
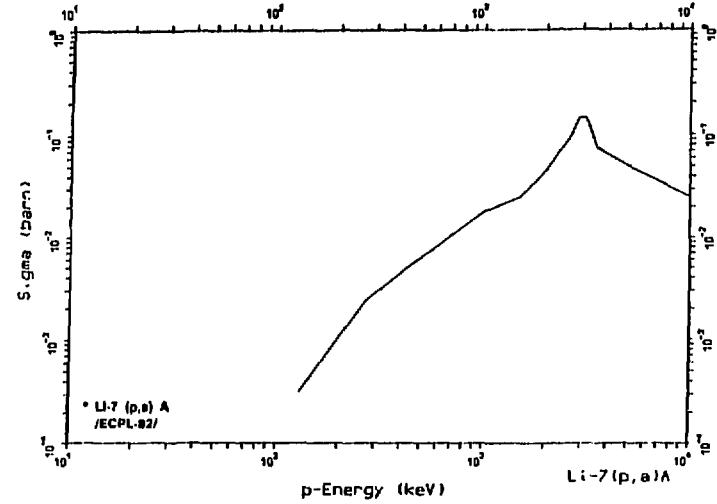
55

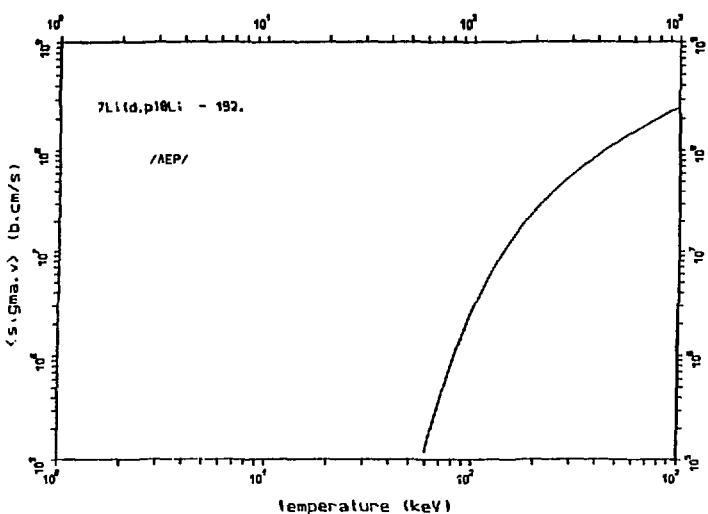
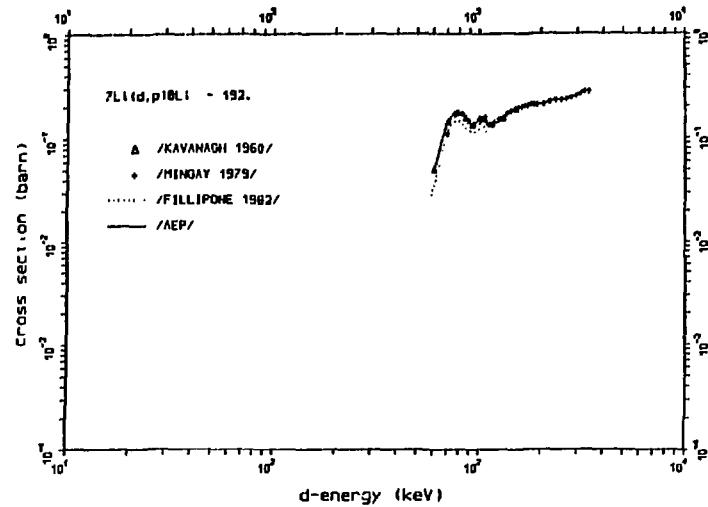
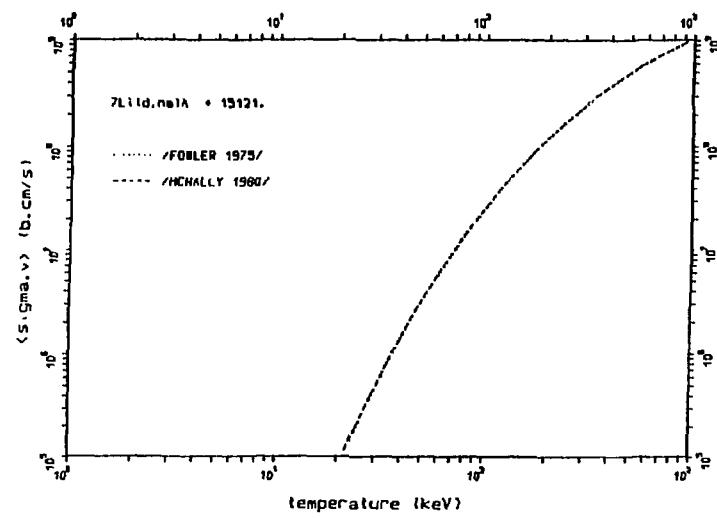


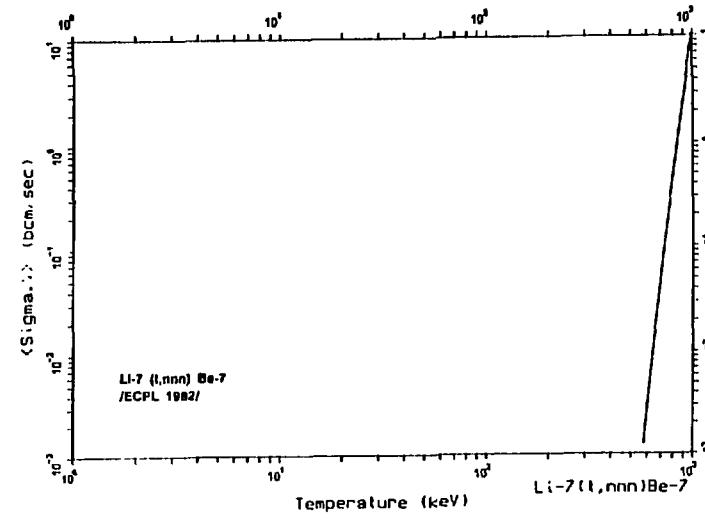
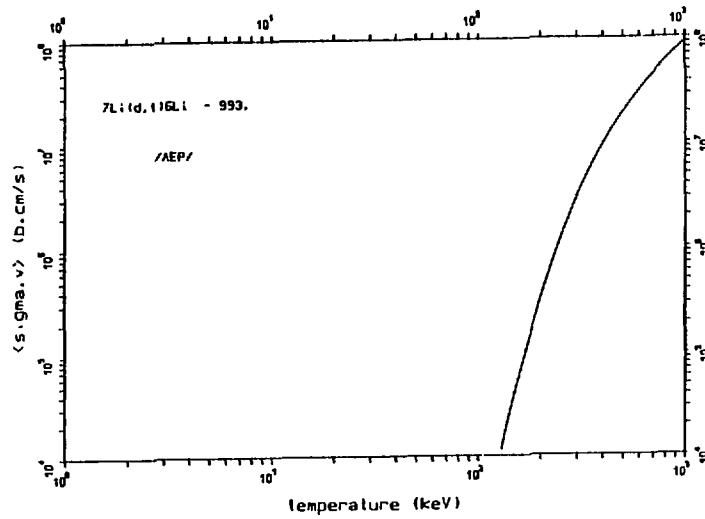
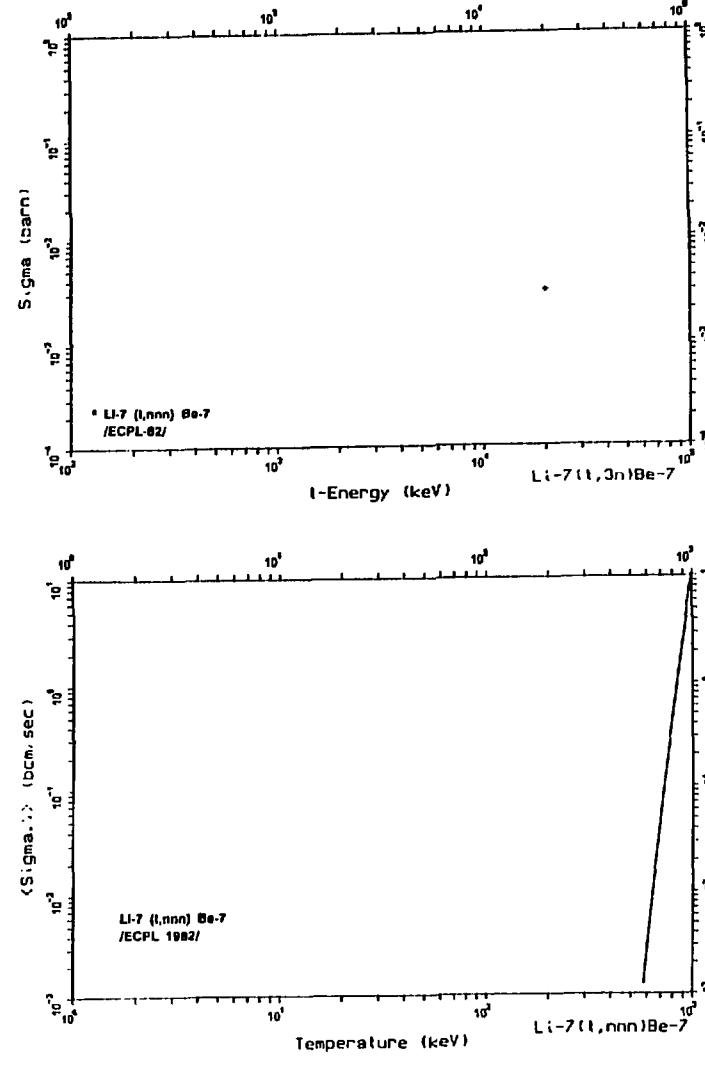
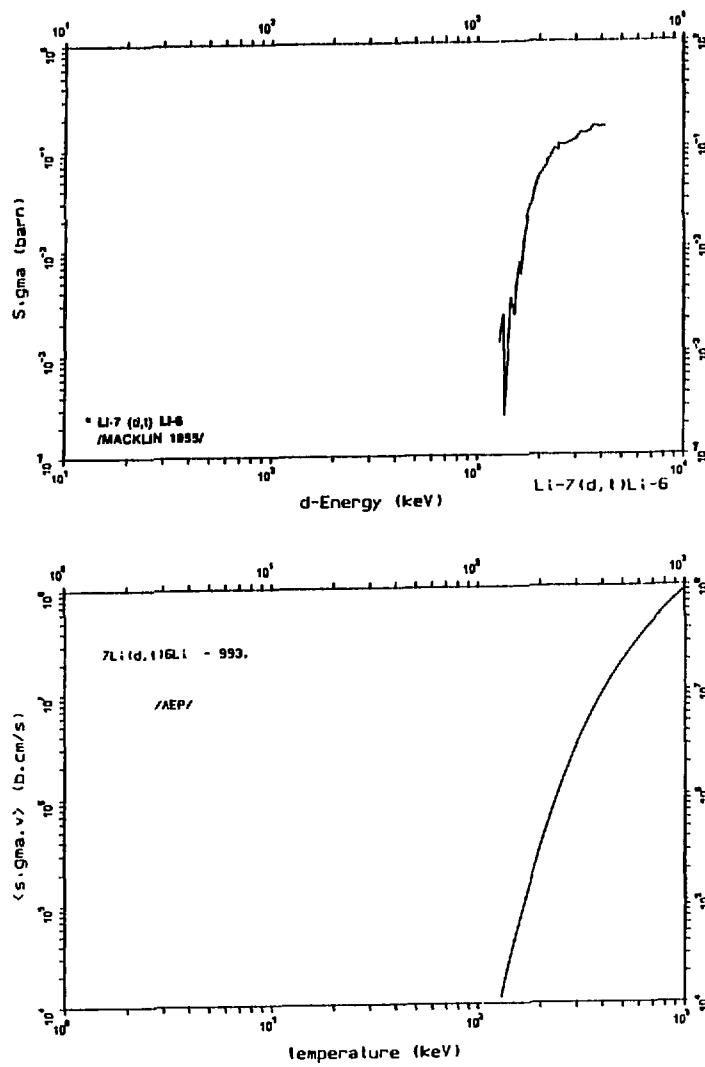


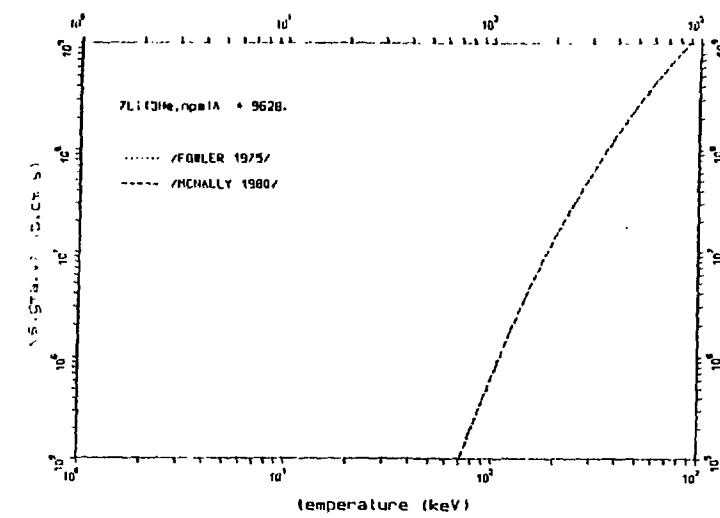
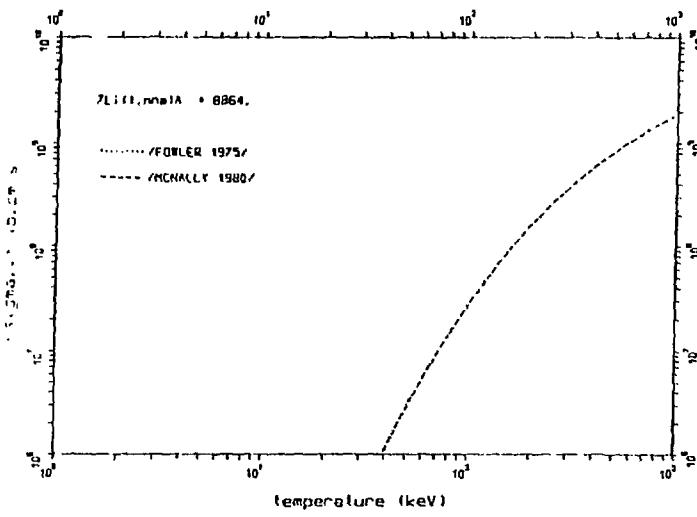


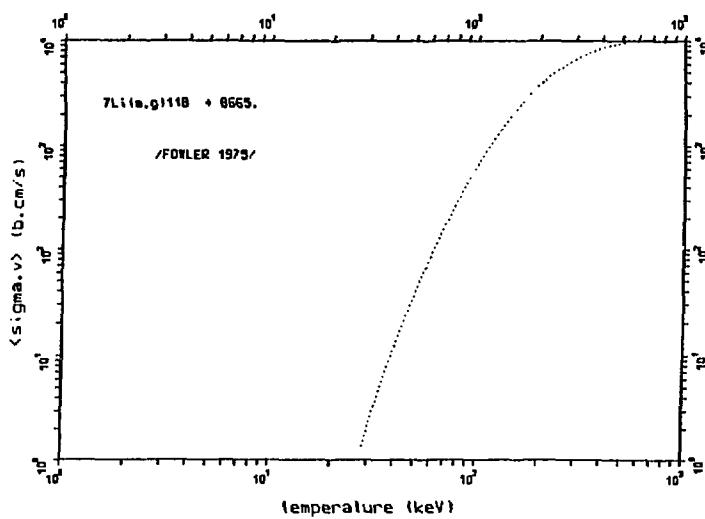
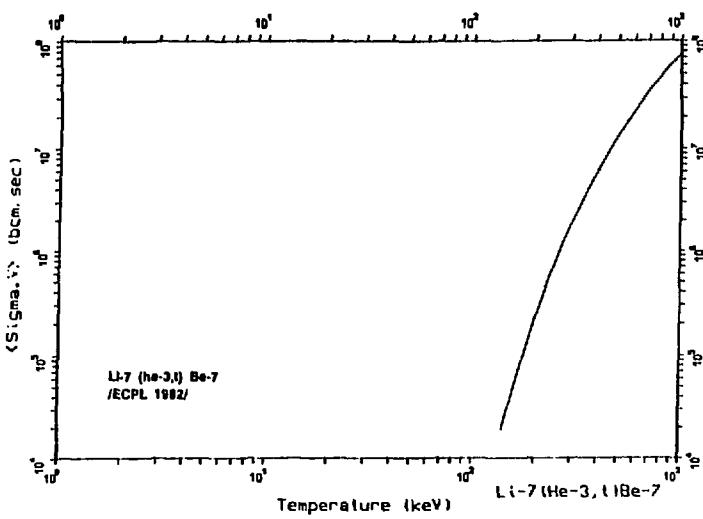
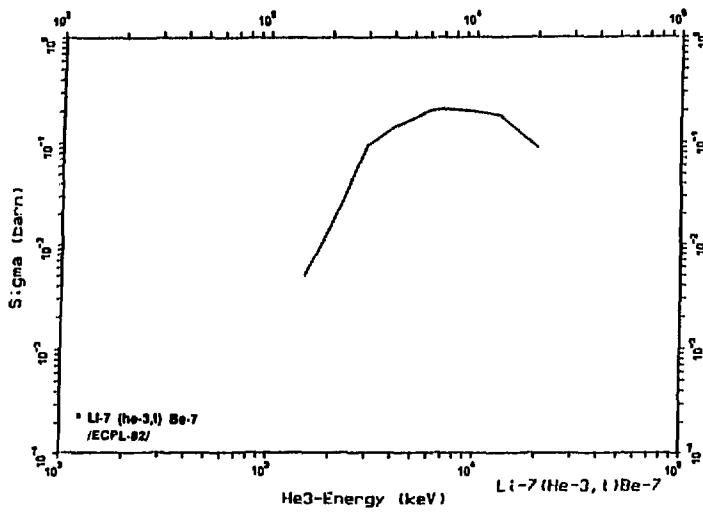


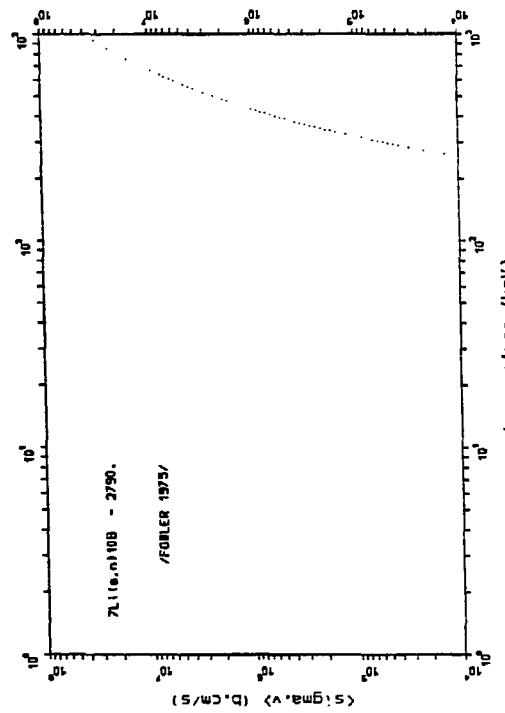
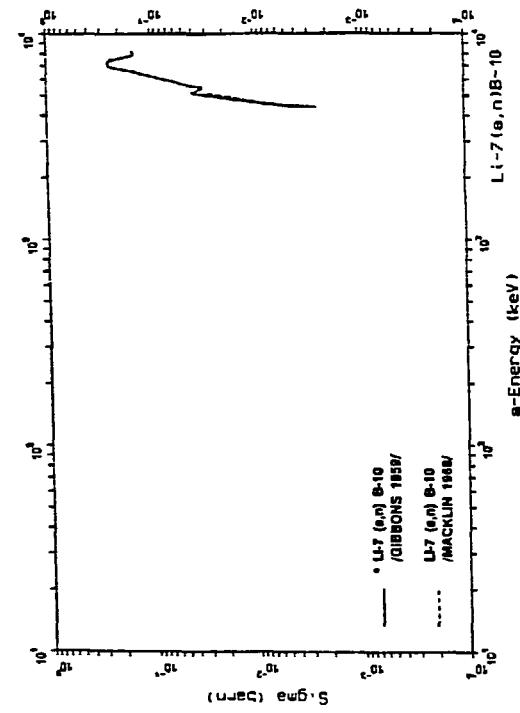
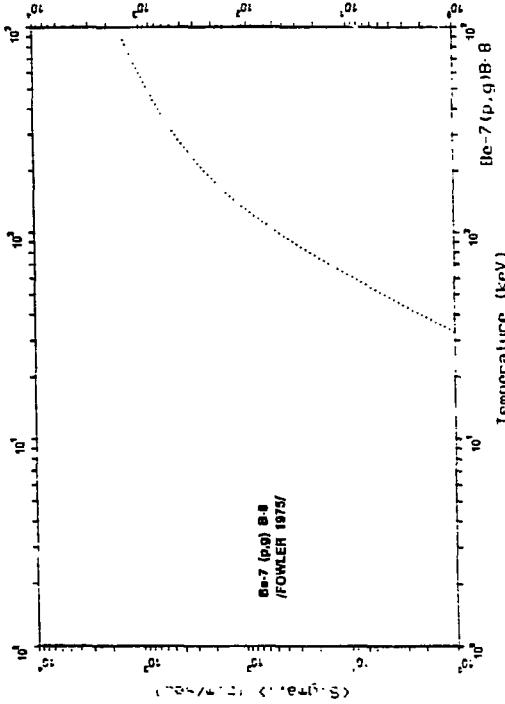
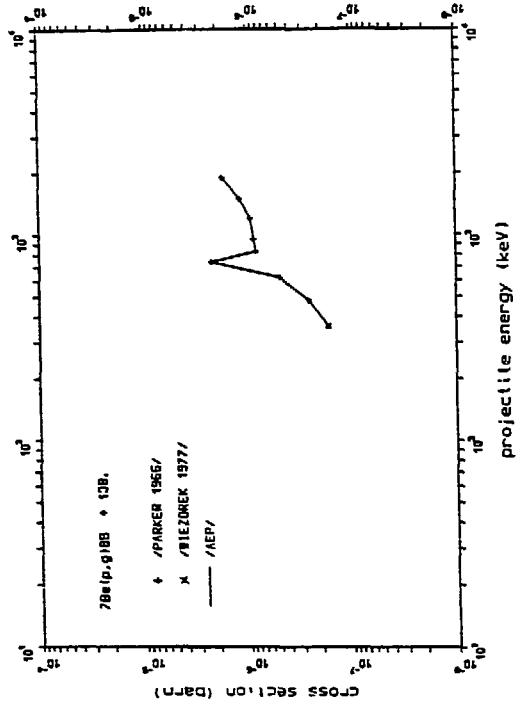


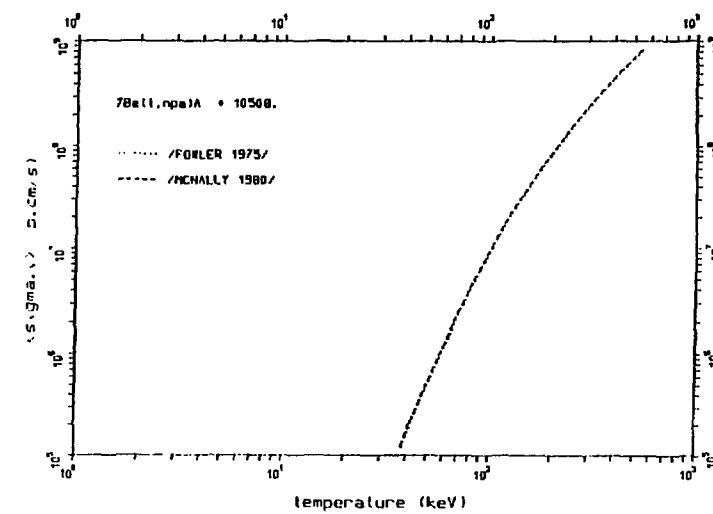
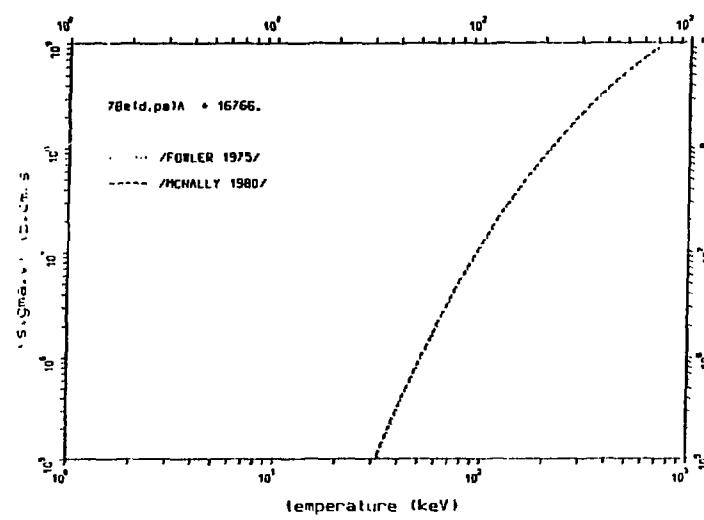




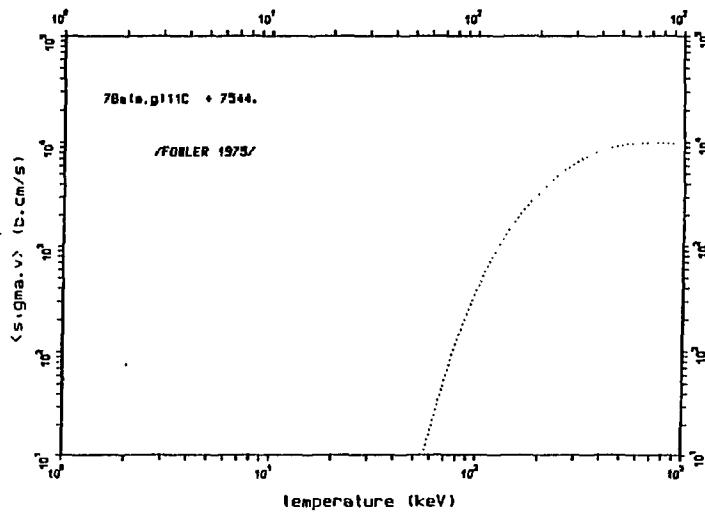
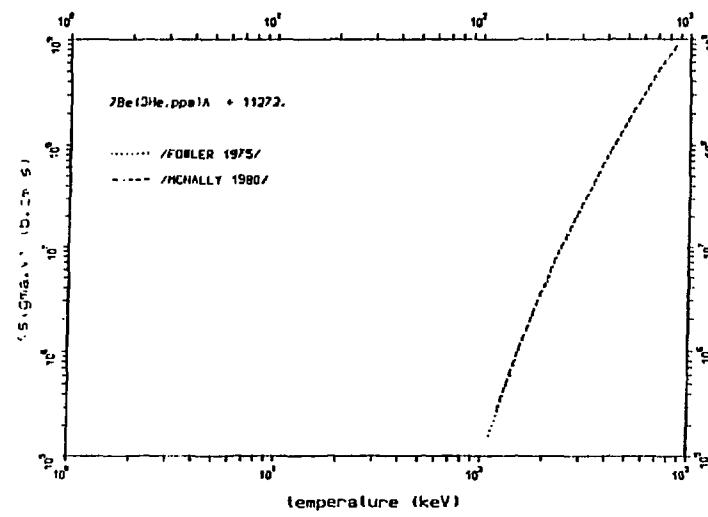




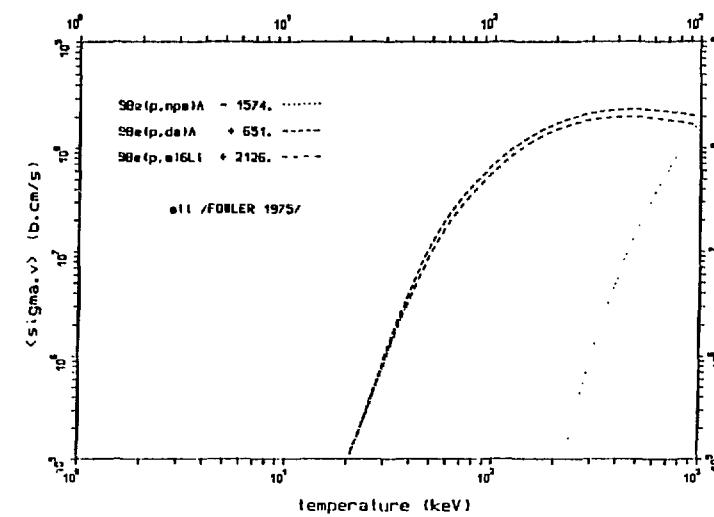
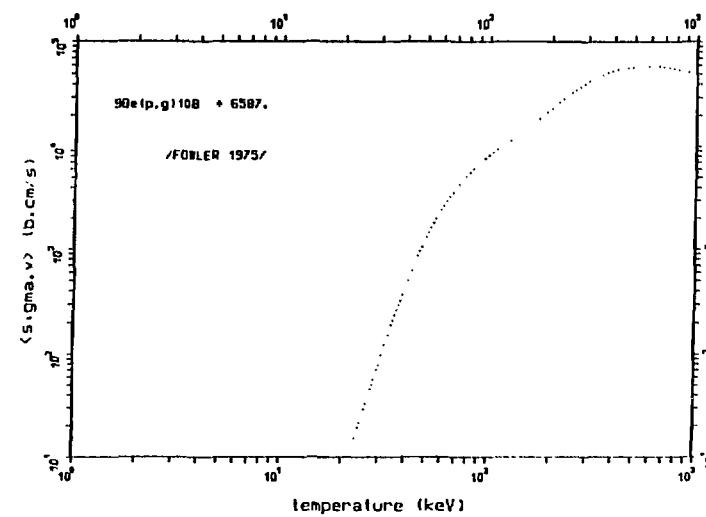




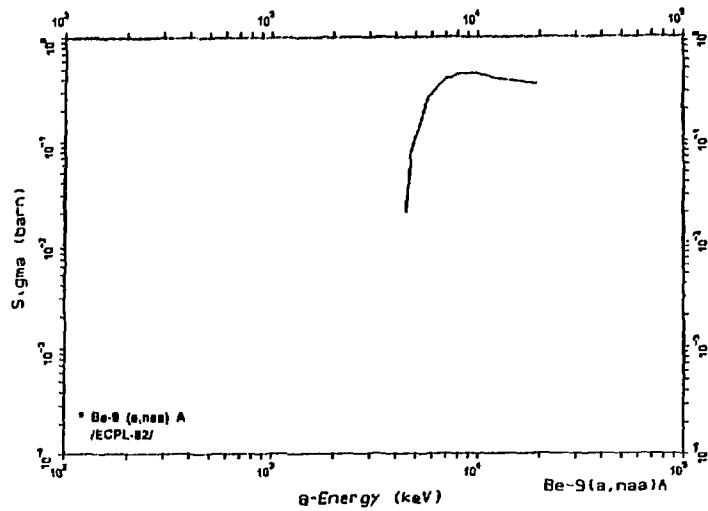
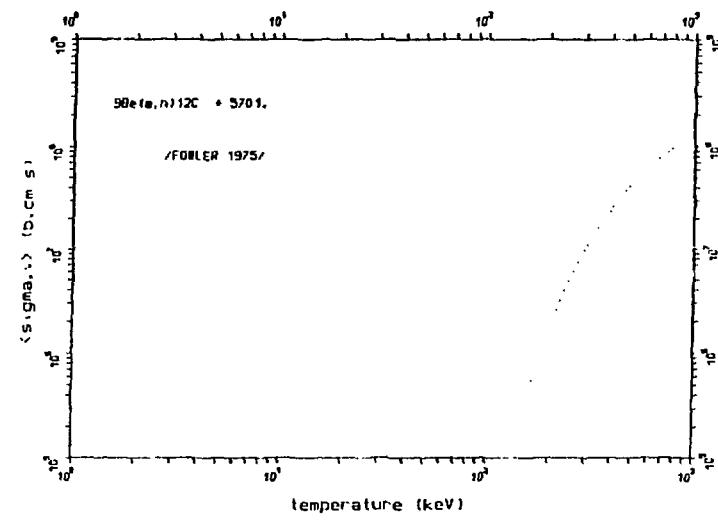
66

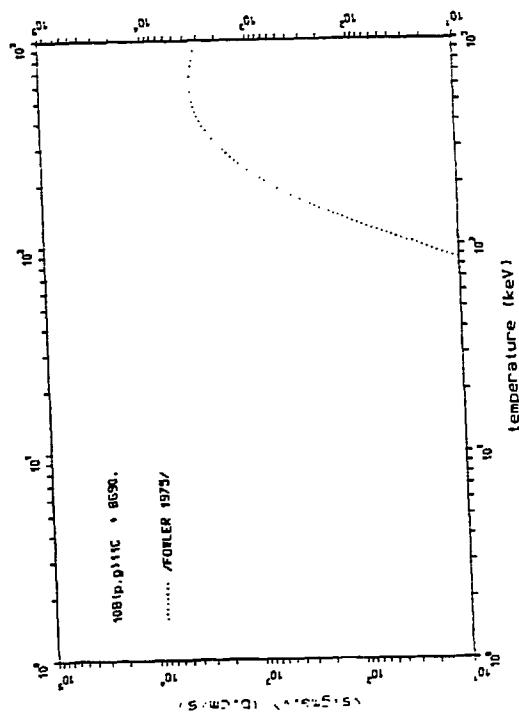
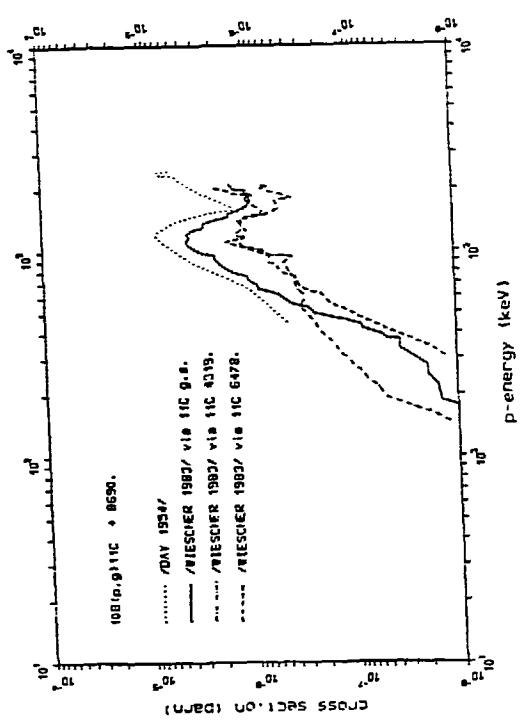
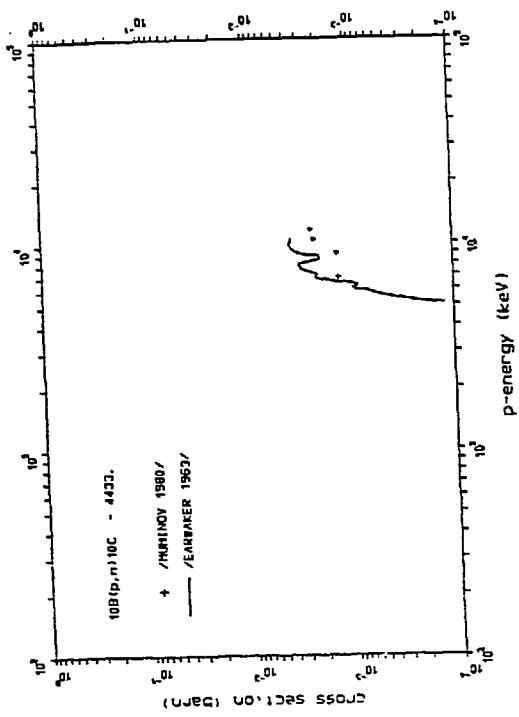


52

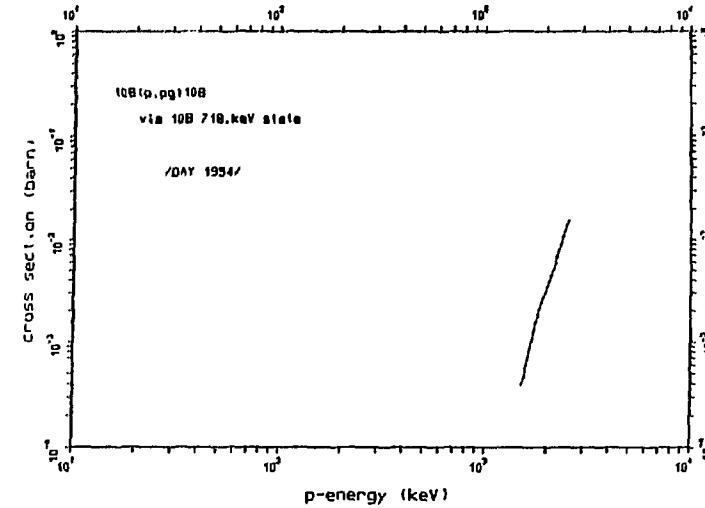
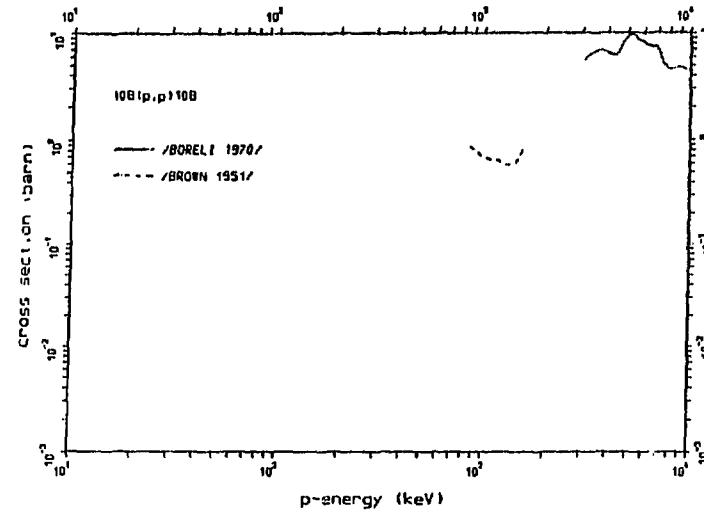


68

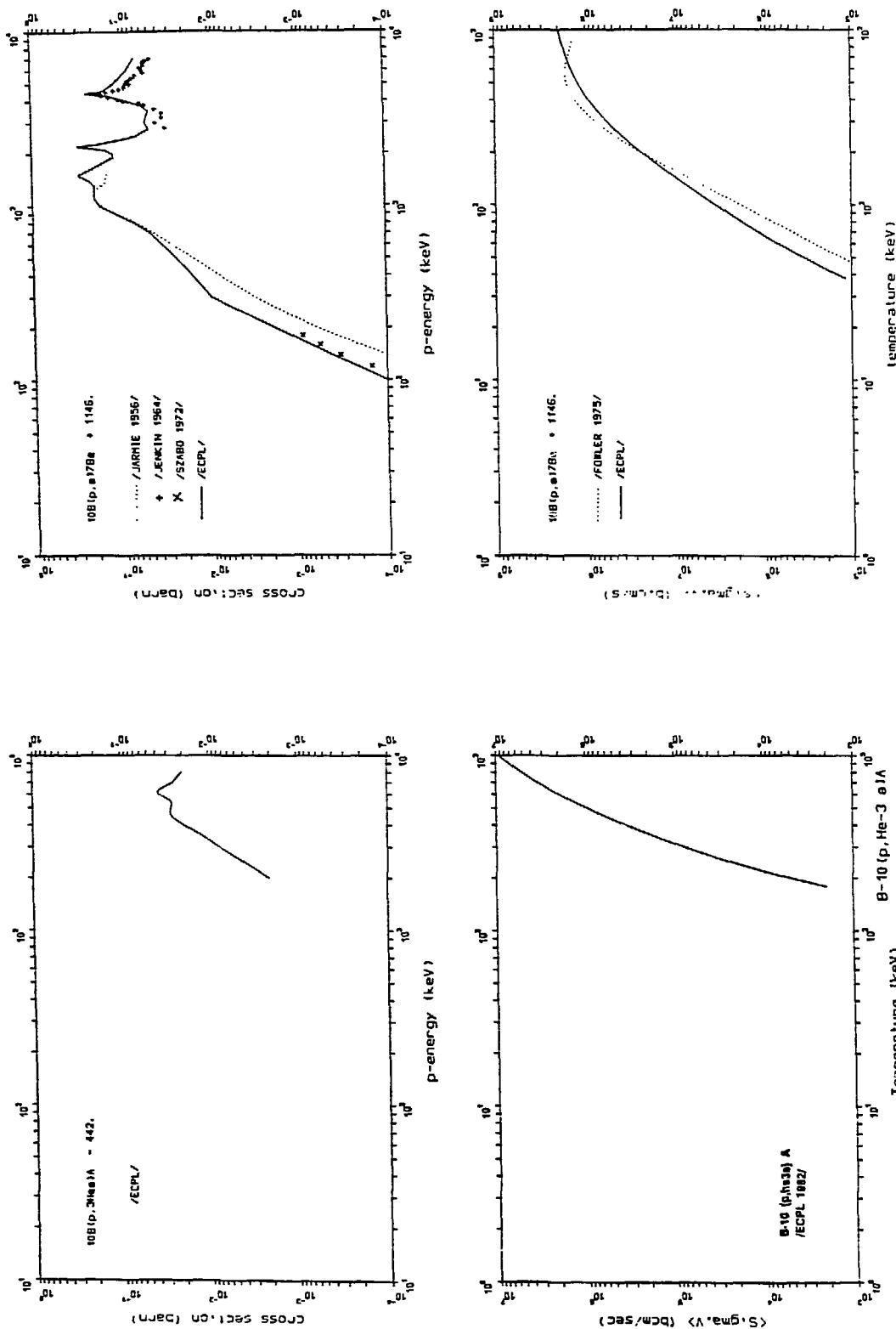


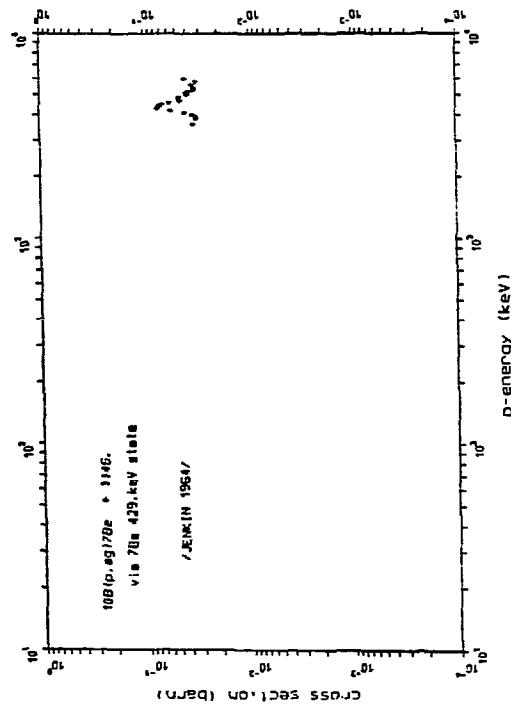
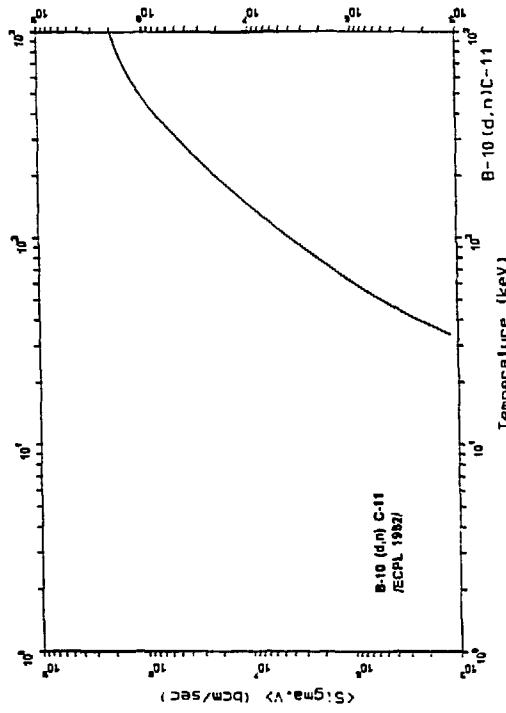
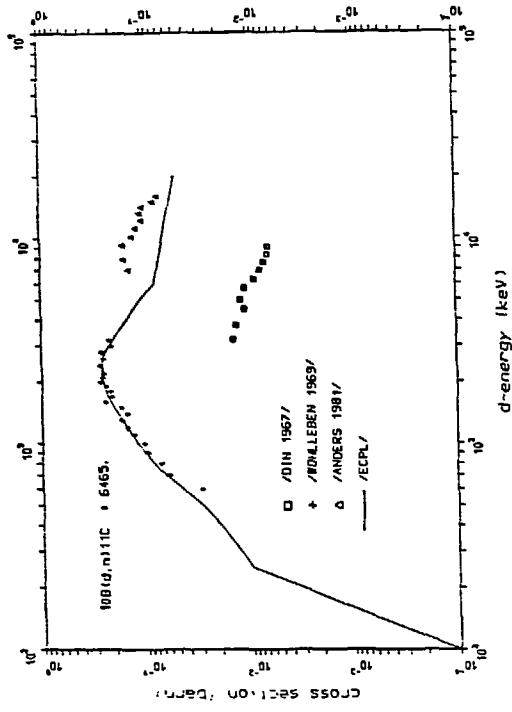


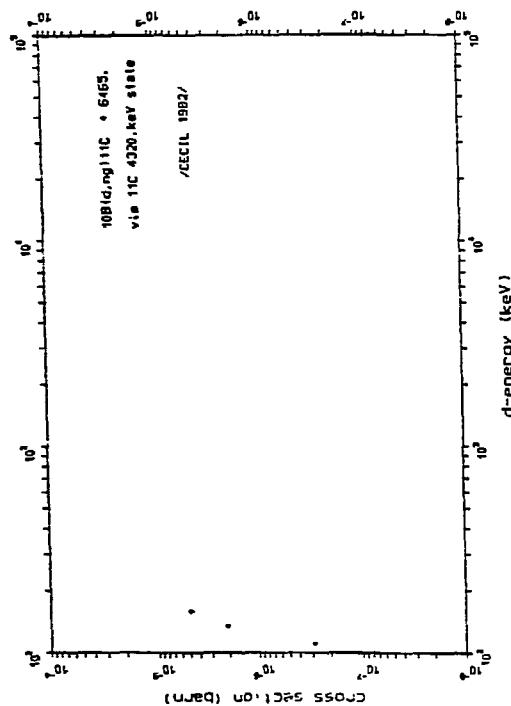
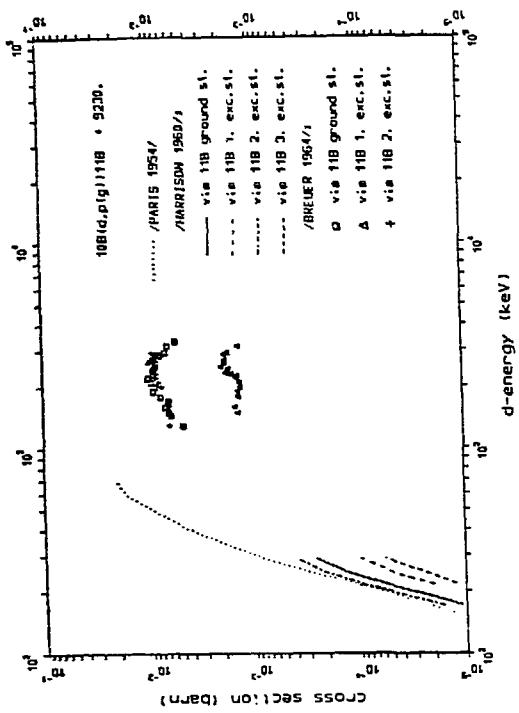
70



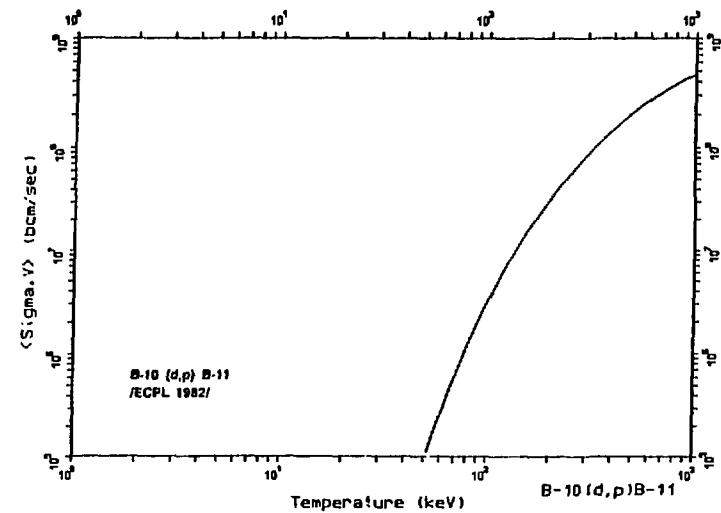
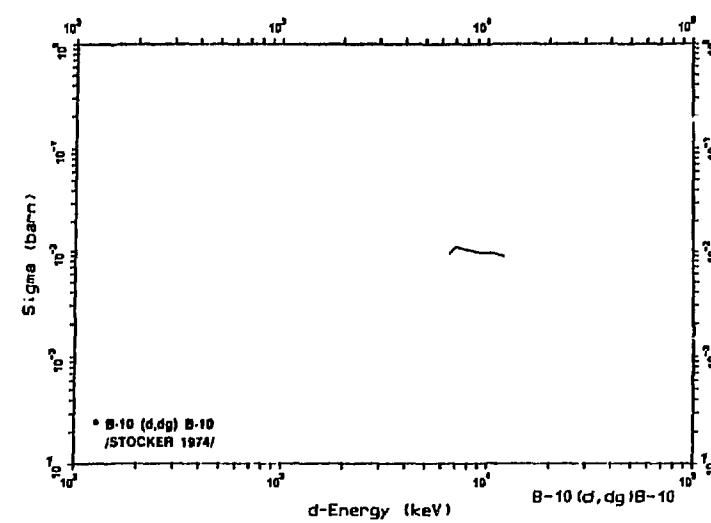
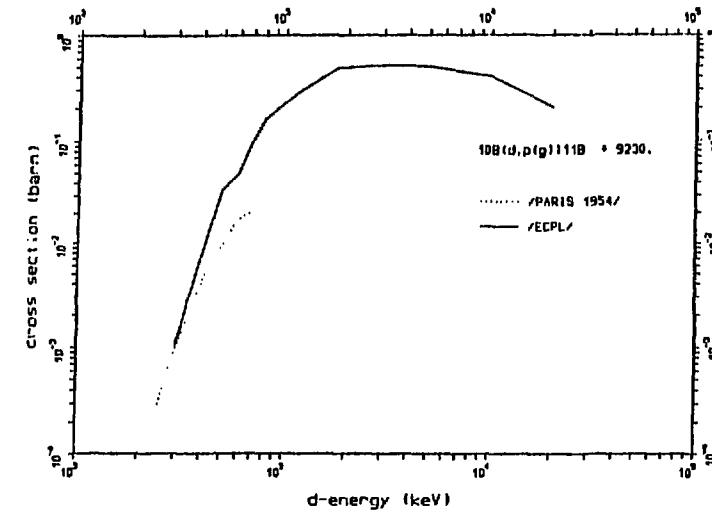
56



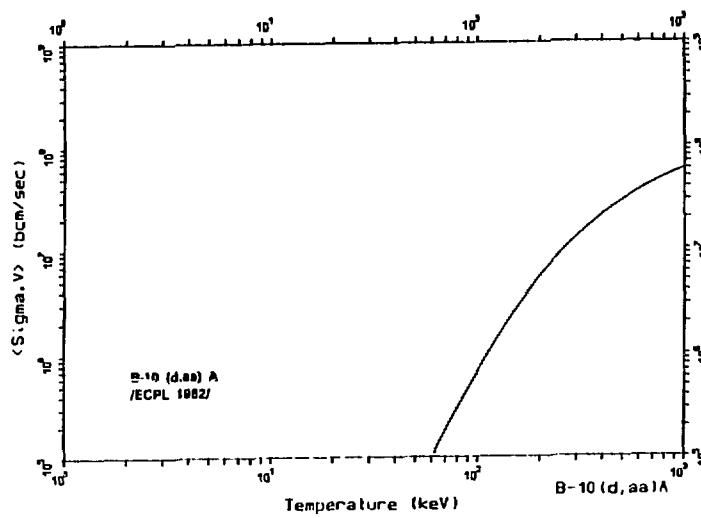
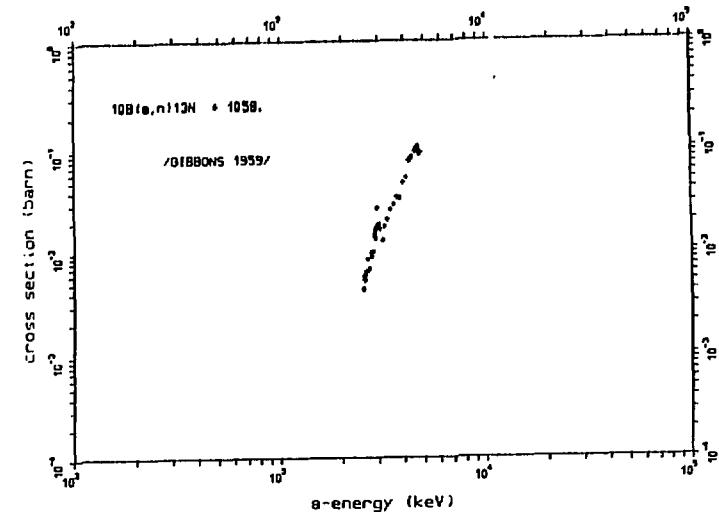
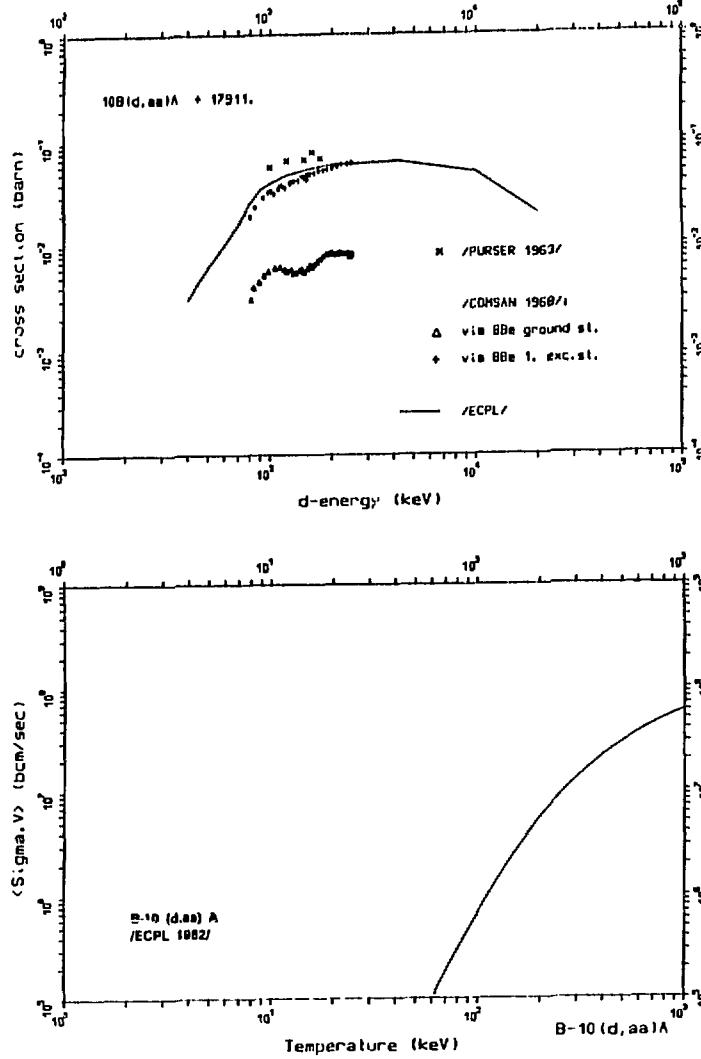


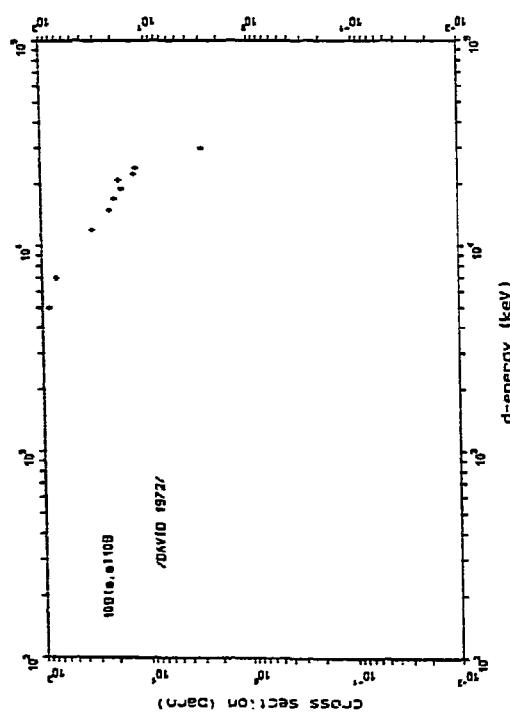
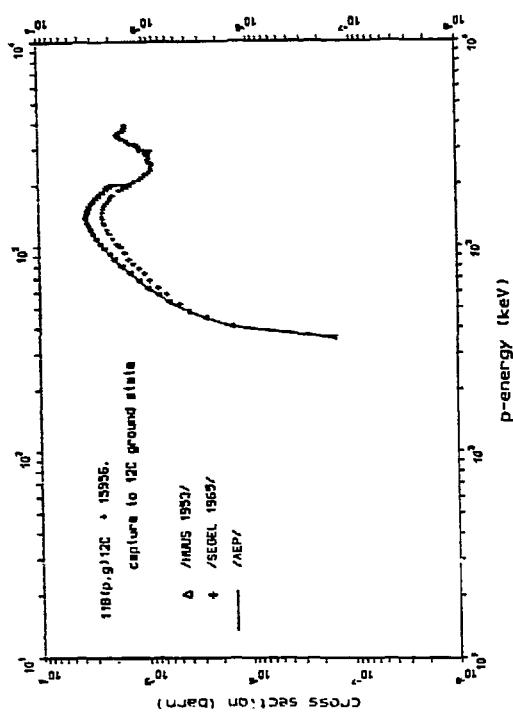


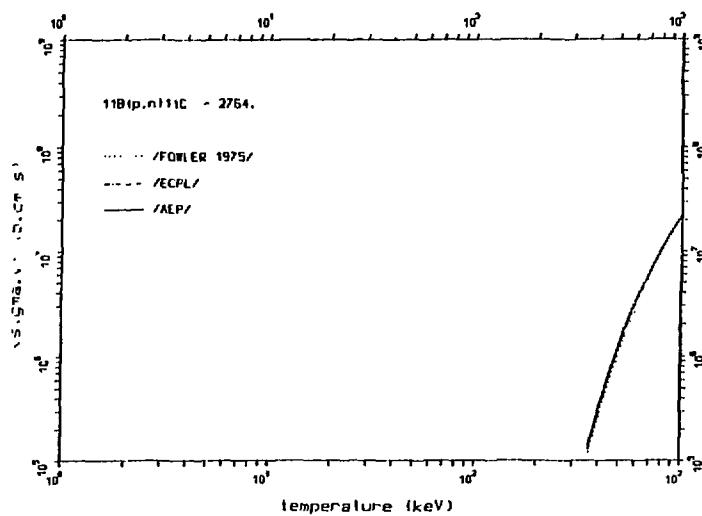
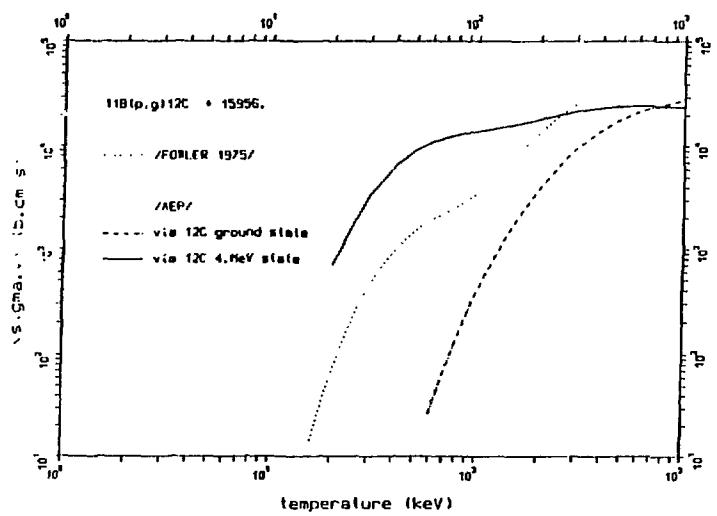
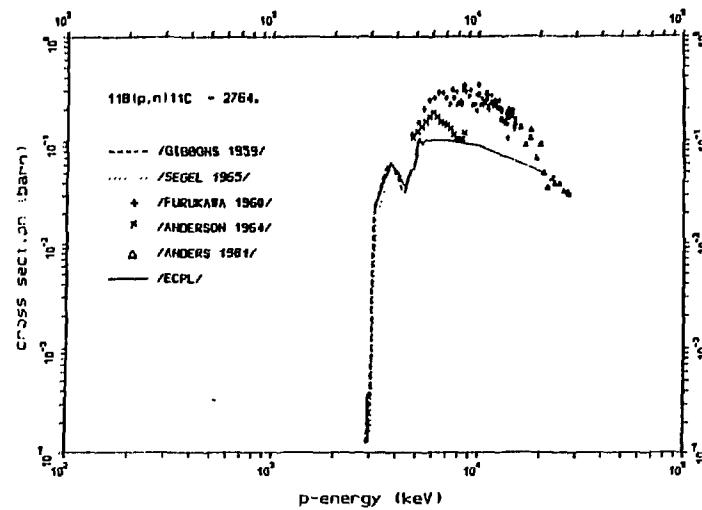
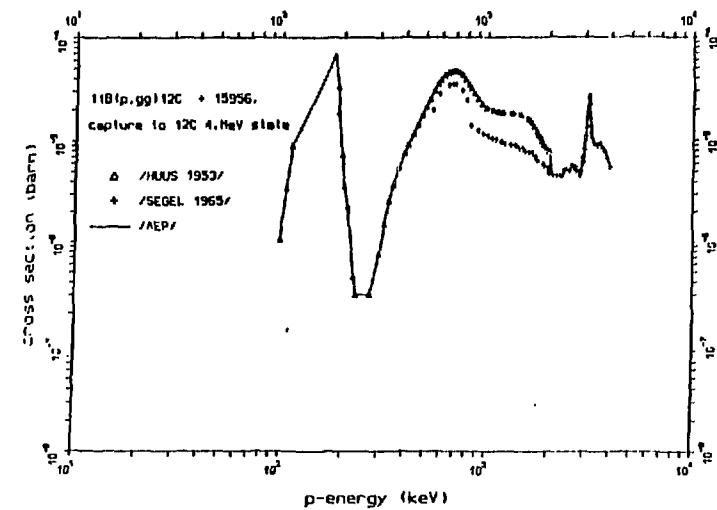
74

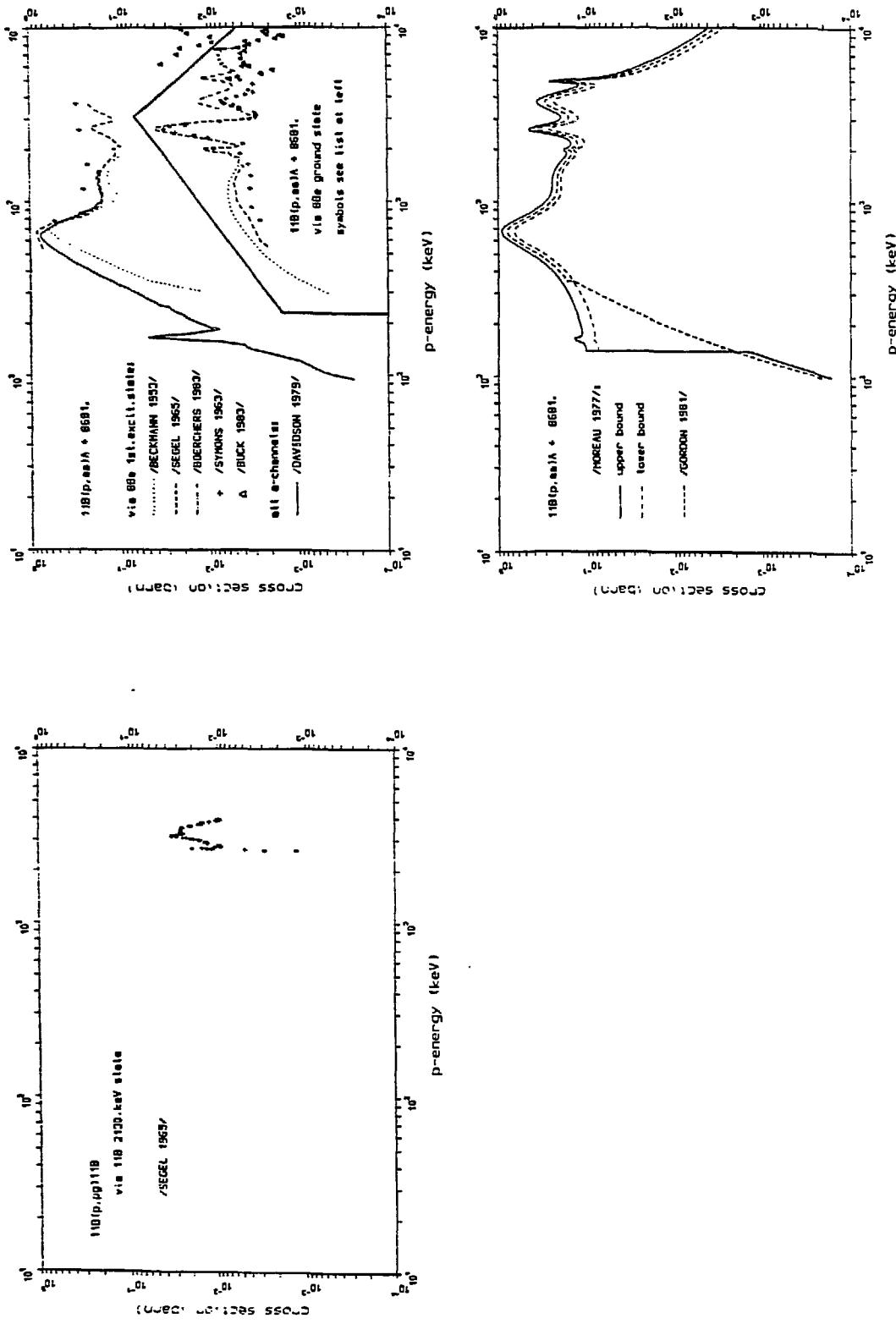


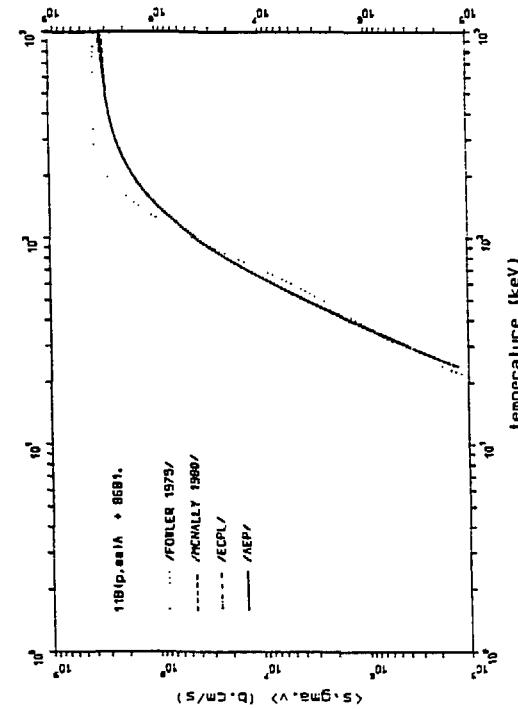
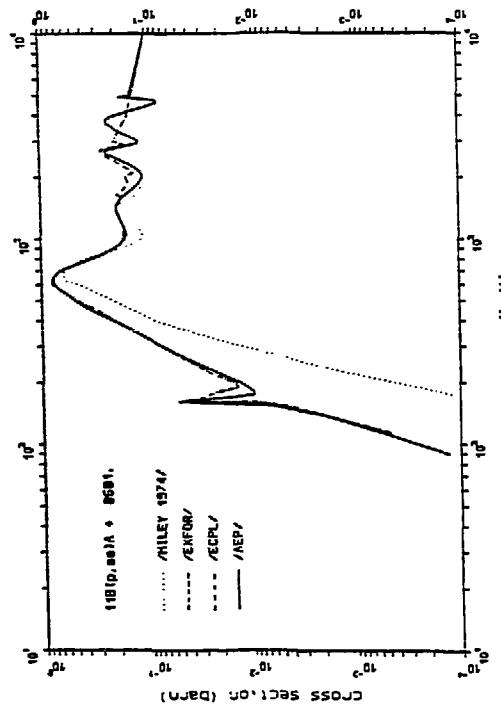
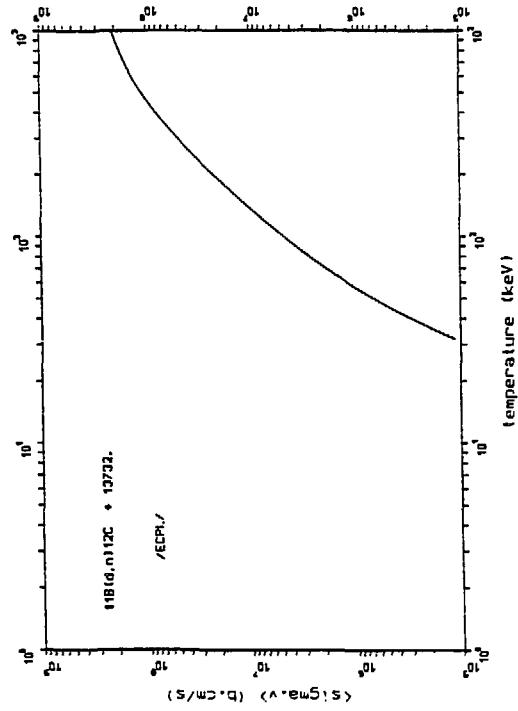
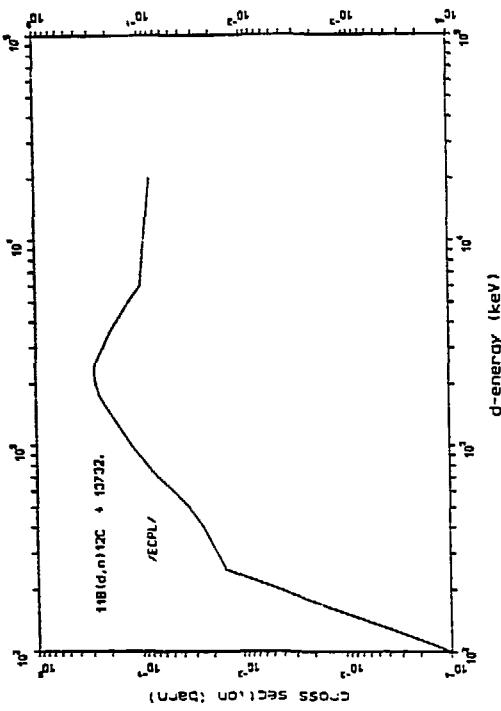
69

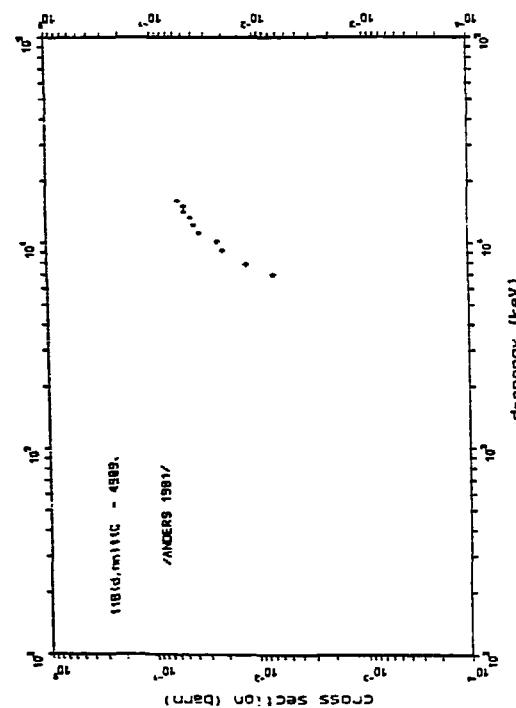
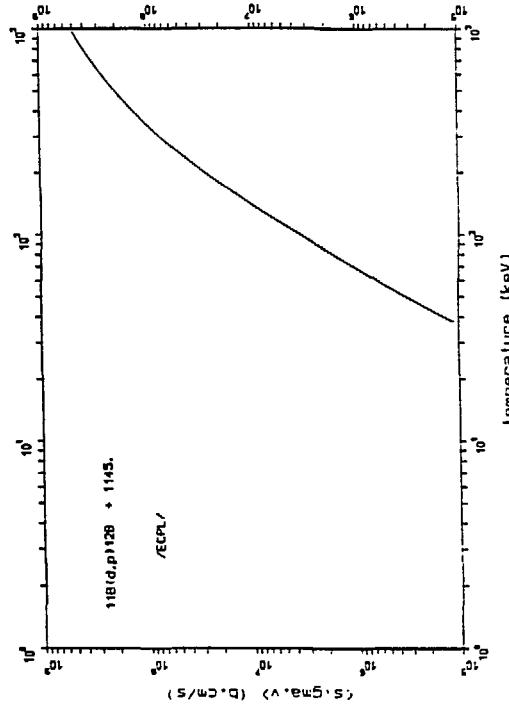
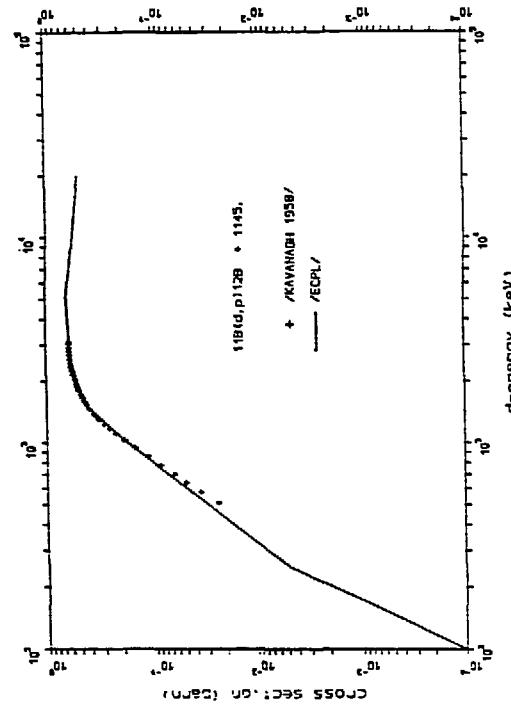


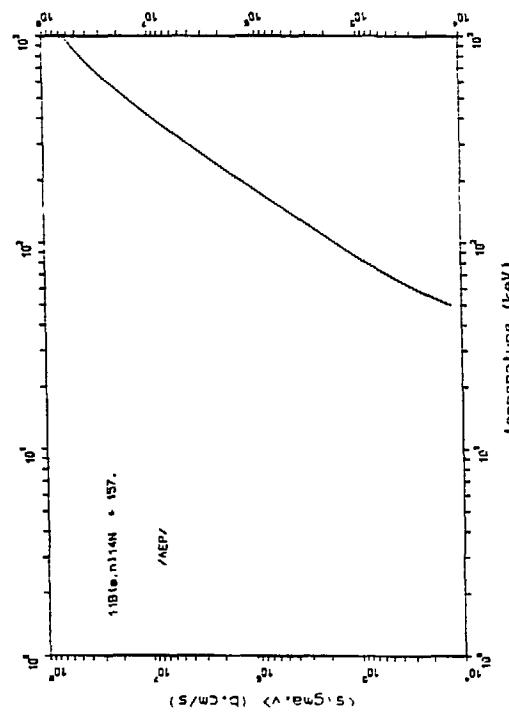
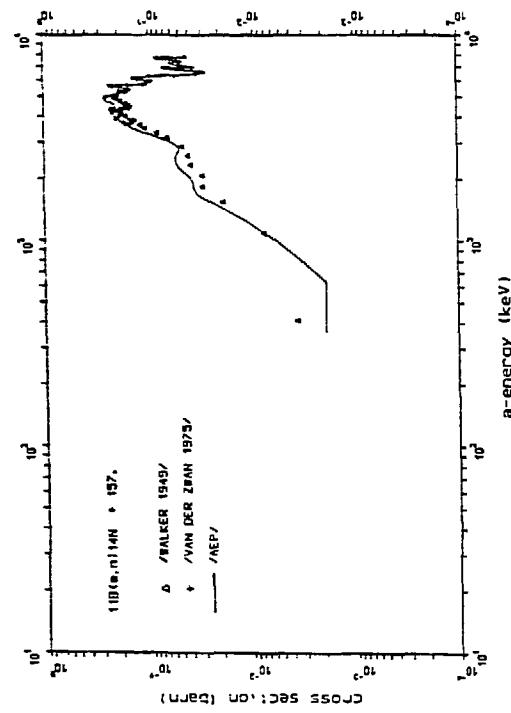
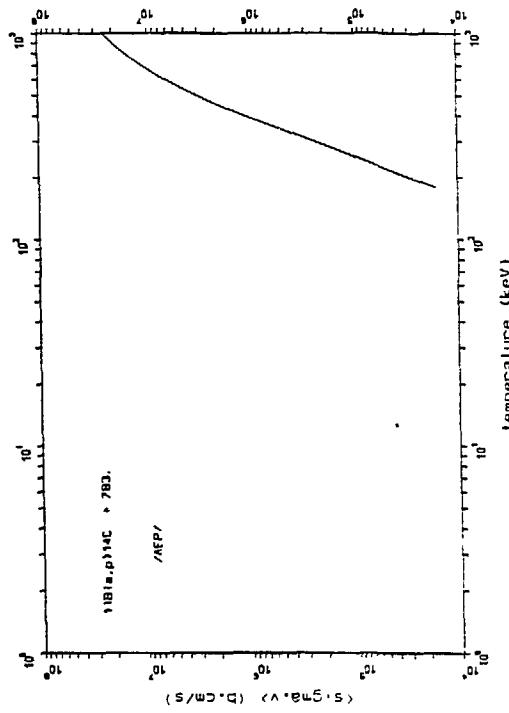
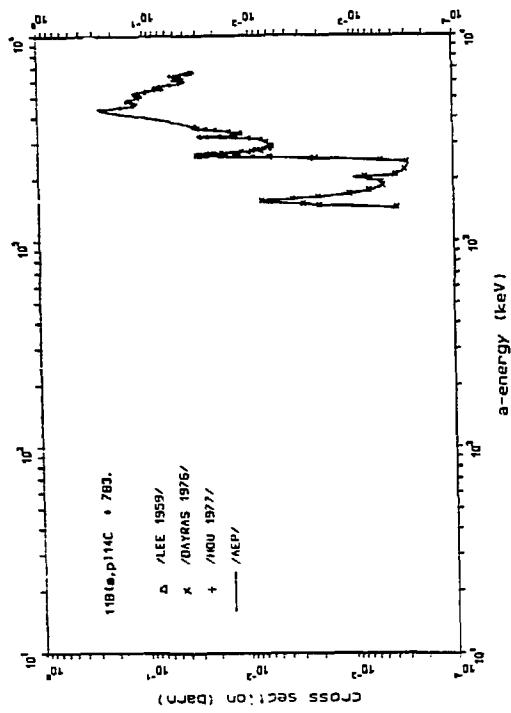


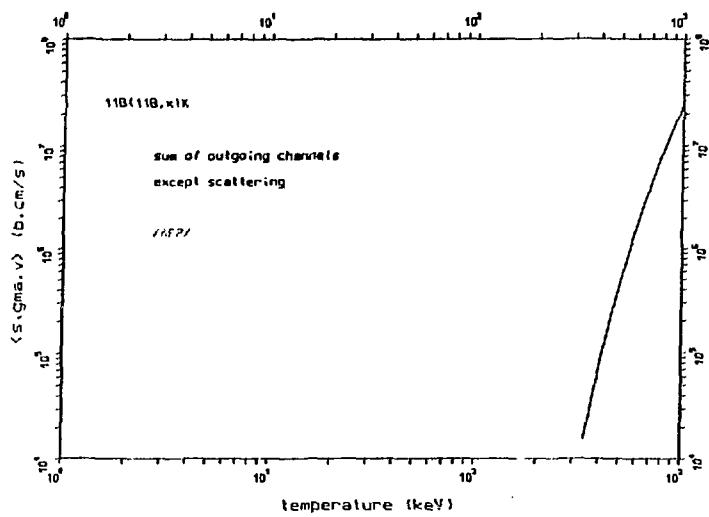
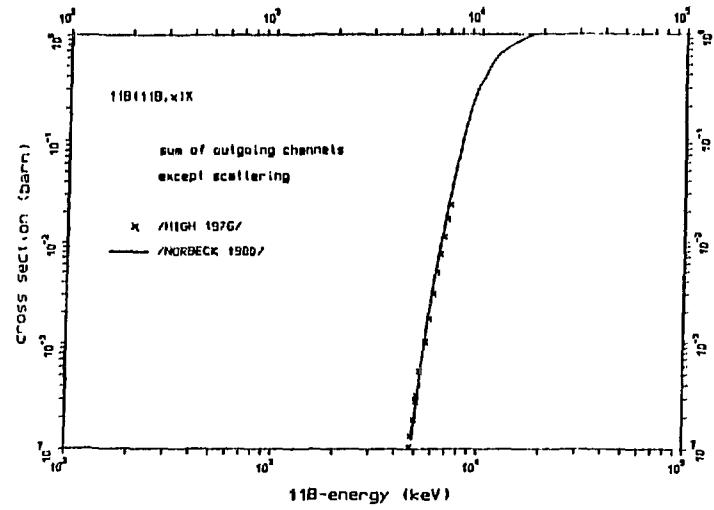












5. REFERENCES

(reaction order,
comprehensive list)

P (p , p) P

/JARMIE 1956/
/ECPL/

- AJ Herb et al., Phys.Rev. 55 (1939) 998
- AJ Wilson et al., Phys.Rev. 72 (1947) 1131
- J Cork et al., Phys.Rev. 79 (1950) 71
- AJ Harris, Wright, Phys.Rev. 79 (1950) 577
- AJ Rouvina, Phys.Rev. 81 (1951) 593
- AJ Mather, K.B., Phys.Rev. 81 (1951) 133
- J Fillmore, F.L., Phys.Rev. 83 (1951) 1252
- A Allred et al., Phys.Rev. 88 (1951) 433
- AJ Worthington et al., Phys.Rev. 90 (1953) 829
- AJ Yntema, White, Phys.Rev. 95(1954) 1226
- AJ Zimmerman et al., Phys.Rev 96 (1954) 1322
- A Johnston, Young, Phys.Rev. 116 (1959) 989
- A Knecht et al., Phys.Rev. 148 (1966) 1031
- A Sloeodrian et al., Phys.Rev. 174 (1968) 1122
- A Jarmie et al., Phys.Rev. C3 (1971) 10
- A Jarmie, Jett, Phys.Rev. C10 (1974) 54
- A Jarmie, Jett, Phys.Rev. C13 (1976) 2554
- A Imai et al., Nucl.Phys. 246 (1975) 76
- A Kikuchi et al., J.Phys.Soc.Japan 15 (1960) 9
- AJ Cork, Hartsough, UCRL-2373 (1953)
- H Lacombe et al., Phys.Rev. C23 (1981) 2405

D (p , g) 3He

/JARMIE 1956/
/FOWLER 1967/
/FOWLER 1975/

- J /FOWLER 1949/ (JARMIE 1956)
- J /GRIFFITHS 1955/ (JARMIE 1956)

D (p , np) P

/EXFOR/
/FOWLER 1975/

/GIBBONS 1959/
/LYKASOV 1978/ (EXFOR A0034.002)

- H Henkel et al., Phys.Rev. 99 (1955) 1050 (EXFOR C0039.003)
- H Steward, BNL-NCS-51363 (1981)
- H Byrd, et al., DOE-NDC-24 (1981) 175

D (p , p) D

/JARMIE 1956/

/EXFOR/

/ECPL/

- A Tuve et al., Phys. Rev. 50 (1936) 806
 AJ Taschek, R.F., Phys. Rev. 61 (1942) 13
 AJ Sherr et al., Phys. Rev. 72 (1947) 662
 A Karr et al., Phys. Rev. 78 (1950) 292
 J Rodgers et al., Phys. Rev. 78 (1950) 656
 A Allred, Rosen, Phys. Rev. 79 (1950) 227
 AJ Karr et al., Phys. Rev. 81 (1951) 37
 J Rosen, Allred, Phys. Rev. 82 (1951) 777
 AJ Brown et al., Phys. Rev. 88 (1952) 253
 AJ Allred et al., Phys. Rev. 88 (1952) 433
 AJ Mather, K.B., Phys. Rev. 88 (1952) 1408
 J Zimmerman et al., Phys. Rev. 90 (1953) 339A
 AJ Caldwell, Richardson, Phys. Rev. 98 (1955) 28
 A Kerman, Phys. Rev. 107 (1957) 200
 A Brolley Jr. et al., Phys. Rev. 117 (1960) 1307
 A Cahill et al., Phys. Rev. C4 (1971) 83
 A Bunker et al., Nucl. Phys. A113 (1968) 461
 A Wilson et al., Nucl. Phys. A130 (1969) 624
 A Kocher, Clegg, Nucl. Phys. A132 (1969) 455
 A Groetzschel et al., Nucl. Phys. A176 (1971) 261
 A Heither et al., Proc. Roy. Soc. A190 (1947) 180
 J Burrows et al., Proc. Roy. Soc. A209 (1951) 489
 A Kihuchi et al., J. Phys. Soc. Japan 15 (1960) 9
 A Kiceleva et al., Ikr. Fiz. Zh. 4 (1971) 83
 J Ashby, UCRL 2091 (1953)
 A Simpson, Thesis, Rice Univ., Houston (1965)
 H Brown et al., DOE-NDC-24 (1981) 72
 H Jarmie et al., LA-UR-84-835 (1984) 1 (EXFOR A0219.002)

D (d , x) Y

- A Rosen et al., Phys. Rev. 76 (1949) 1283
 A Allred et al., Phys. Rev. 76 (1949) 1430
 A McNeill, Keyser, Phys. Rev. 81 (1951) 602
 A Rosen, Allred, Phys. Rev. 88 (1952) 431
 A Chagnon, Owen, Phys. Rev. 101 (1956) 798
 A Cranberg et al., Phys. Rev. 104 (1956) 1639
 A Fuller et al., Phys. Rev. 108 (1957) 91
 A Daehnick, Fowler, Phys. Rev. 111 (1958) 1209
 A Brolley et al., Phys. Rev. 117 (1960) 1307
 A Sayres et al., Phys. Rev. 122 (1961) 1853
 A Jarmie, Jett, Phys. Rev. C10 (1974) 54
 A Fowler, Brolley, Rev. Mod. Phys. 28 (1956) 103
 A Kane, Nucl. Phys. 10 (1959) 429
 A Thornton, Nucl. Phys. A139 (1969) 25
 A Marlinghaus, Genz, Nucl. Phys. 255 (1975) 13
 A Wilson et al., Bull. APS 5 (1960) 410
 A Kerr, Anderson, Bull. APS 13 (1968) 564
 A Milone, Ricamo, Nuovo Cim. 22 (1916) 116 Jahr?
 A Ganeev et al., Atomnaya Energiya Suppl. 5 (1957) 21
 A Volkov et al., Atomnaya Energiya Suppl. 5 (1957) 13
 A Bame et al., Rev. Sci. Instr. 28 (1957) 997

- H Walterman et al., Phys.Med.Biology, Vol.23 (1978) 397
 H Weaver et al., Medical Phys., Vol.6 (1979) 193
 A Goldberg, Progress in Fast Neutron Physics
 (U of Chicago Press 1963)
 A Defacio, Proc.3rd Int. Symp. on Polarization Phenomena
 in Nuclear Reactions (1971) 534 (U.of Wisconsin Press)
 A Liskien, Paulsen, Rep. EANDC (E) 143 "L" (1972)
 H Jones, et al., Rep. South.U. (S. Africa) SUNI-65 (1980) 86

D (d , g) A

/FOWLER 1967/

/JARMIE 1986/

- A Arnold et al., Phys.Rev. 93 (1954) 483 (EXFOR C0018.008)
 H Wilkinson, Cecil, Phys.Rev.C, Vol.31 (1985) 2036

D (d , n) 3He

/JARMIE 1956/

/MILEY 1974/

/EXFOR/

/ECPL/

/GREENE 1967/

/FOWLER 1967/

/FOWLER 1975/

/MC NALLY 1979/

/HOWERTON 1979/

/BROWN 1985/

/DROSG 1977/

H /JARMIE 1981/

/JARMIE 1985/

/JARMIE 1986/

/KOZLOV 1962/

/KRAUSS 1987a/

A /THEUS 1966/

AJ Arnold et al., Phys.Rev. 93 (1954) 483 (EXFOR C0018.)

A Booth et al., Proc.Phys.Soc.A 69 (1956) 265 (EXFOR C0033.)

A Brolley et al., Phys.Rev. 107 (1957) 820 (EXFOR C0046.)

Pasma, Nucl.Phys. 6 (1958) 141 (EXFOR C0044)

A Goldberg et al., Phys.Rev. 119 (1960) 1992 (EXFOR C0043.)

A Brill et al., Atomnaya Energiya 16 (1964) 141 (EXFOR C0032, D0012)

Behof et al., Nucl.Phys. A108 (1968) 250 (EXFOR C0028.)

Drigo et al., Nuovo Cim.Lett. 1 (1969) 237 (EXFOR C0034.)

A Schulte et al., Nucl.Phys. A192 (1972) 609 (EXFOR C0030.)

Smith et al., Can.J.Phys. 50 (1972) 783 (EXFOR C0029.)

Jarmie et al., Phys.Rev. C16 (1977) 15 (EXFOR C0010, D0009)

Drosg, Nucl.Sci.Eng. 67 (1977) 190 (EXFOR C0011., D0003., D0006.)

Gomez-More, Nucl.Phys. A330 (1979) 269 (EXFOR C0054.)

AJ Blair et al., Phys.Rev. 74 (1948) 1599

J Erickson et al., Phys.Rev. 76 (1949) 1141

AJ Hunter, Richards, Phys.Rev. 76 (1949) 1445

AJ Steward et al., Bull.APS 1 (1956) 93

- AJ Preston et al., Proc.Roy.Soc.(London) A226 (1954) 206
 J Smith, Perry, LASL, unpublished
 J McNeil, Phil.Mag. 46 (1955) 800
 H Miley, BNL-NCS-51363 (1981)
 H Hardekopf et al., IEEE Trans.Nucl.Sci., Vol.28 (1981) 1339
 H Jarmie, LANL LA-8087 (1980)
 H Jarmie et al., Int.Conf.Nucl.Cross Sections for Technology,
 Knoxville,TN, 22-26.10.1979 (NBS Spec.Publ.594) p.733
 H Adzasevich et al., Yad.Fiz., Vol.33 (1981) 1167
 H Konig et al., Nucl.Phys.A, Vol.331 (1979) 1
 H Konig et al., IAEA INDC(SEC)-6834 (1979)
 H Konig et al., Phys.Letters B, Vol.72 (1978) 436
 H Walter, IEEE Trans.Nucl.Sci., Vol.28 (1981) 1260
 H Weller et al., IEEE Trans.Nucl.Sci., Vol.28 (1981) 1268
 H Walter, 5.Int.Symp.Polarization Phenomena in
 Nucl.Physics, Santa Fe, NM, 11-15.8.1980
 (AIP Conference Proceedings 69) p.344
 H Tornow et al., 5.Int.Symp.Polarization Phenomena in
 Nucl.Physics, Santa Fe, NM, 11-15.8.1980
 (AIP Conference Proceedings 69) p.1275

D (d , np) D

- H Jeremie et al., Bull.APS, Vol.26 (1981) 565

D (d , nnp) P

/EXFOR/

- H Drosog, Nucl.Sci.Eng. 67 (1977) 190 (EXFOR C0011., D0006.)
 H Leeman et al., Phys.Rev.C, Vol.17 (1978) 410
 H Warner, Phys.Rev.C, Vol.24 (1981) 2759

D (d , p) T

/JARMIE 1956/
 /MILEY 1974/
 /EXFOR/
 /ECPL/
 /GREENE 1967/
 /FOWLER 1967/
 /FOWLER 1975/
 /MC NALLY 1979/
 /HOWERTON 1979/

- H /BROWN 1985/
 H /JARMIE 1981/
 H /JARMIE 1985/
 H /JARMIE 1986/
 H /KOZLOV 1962/
 H /KRAUSS 1987a/
 A /THEUS 1966/

- AJ Arnold et al., Phys.Rev. 93 (1954) 483 (EXFOR C0018.)
 A Booth et al., Proc.Phys.Soc. A69 (1956) 265 (EXFOR C0033.)
 A Brolley et al., Phys.Rev. 107 (1957) 820 (EXFOR C0046.)
 A Schulte et al., Nucl.Phys. A192 (1972) 609 (EXFOR C0030.)

- AJ Blair et al., Phys.Rev. 74 (1948) 1599
 J Allred et al., Phys.Rev. 82 (1951) 782
 J Wenzel, Whaling, Phys.Rev. 88 (1952) 1149
 AJ Burrows et al., Proc.Roy.Soc. A209 (1951) 489
 AJ Eliot et al., Proc.Roy.Soc.(London) A216 (1953) 57
 J Davenport et al., Proc.Roy.Soc.(London) A216 (1953) 66
 AJ Preston et al., Proc.Roy.Soc.(London) A226 (1954) 206
 H Miley, BNL-NCS-51363 (1981)
 H Hardekopf et al., IEEE Trans.Nucl.Sci., Vol.28 (1981) 1339
 H Jarmie, LANL LA-8087 (1980)
 H Jarmie et al., Int.Conf.Nucl.Cross Sections for Technology, Knoxville, TN, 22-26.10.1979 (NBS Spec.Publ.594) p.733
 H Adzasevich et al., Yad.Fiz., Vol.33 (1981) 1167
 H Konig et al., Nucl.Phys.A, Vol.331 (1979) 1
 H Konig et al., IAEA INDC(SEC)-6834 (1979)
 H Konig et al., Phys.Letters B, Vol.72 (1978) 436
 H Gruebler et al., Nucl.Phys.A, Vol.369 (1981) 381
 H Gruebler et al., IAEA INDC(SWT)-16/L (1982) 9

D (d , d) D

/JARMIE 1956/
 /EXFOR/
 /ECPL/

- A Schulte et al., Nucl.Phys. A192 (1972) 609 (EXFOR C0030.)
 AJ Blair et al., Phys.Rev. 74 (1948) 1594
 J Rosen, Allred, Phys.Rev. 88 (1952) 431
 A Theus et al., Nucl.Phys. 80 (1966) 273
 A Bacher, Tombrello, Nucl.Phys. A113 (1968) 557
 A Wilson et al., Nucl.Phys. A126 (1969) 193
 A Niewish, Fick, Nucl.Phys. A252 (1975) 109
 A Cahill et al., CEN-Saclay Ann.Rep. CEA-N 844 (1967) 121
 H Hale et al., DOE-NDC-24 (1981) 76

T (p , x) Y

- A Coon, Phys.Rev. 80 (1950) 488
 A Willard, Phys.Rev. 90 (1953) 865
 A Seagrave et al., Phys.Rev. 119 (1960) 1981
 A Goldberg et al., Phys.Rev. 122 (1961) 1510
 A Sayres et al., Phys.Rev. 122 (1961) 1853
 A Wilson et al., Nucl.Phys. 27 (1961) 421
 A Costello et al., Nucl.Sci.Eng. 39 (1970) 409
 A Batchelor et al., Rev.Sci.Instr. 26 (1955) 1037
 A Stewart et al., Bull.APS 1 (1956) 93
 A Bogdandov et al., JETP 9 (1959) 440
 A Macklin, Gibbons, EANDC-50-S, Vol.1 (1965)
 A Liskien, Paulsen, Report EANDA(E)-152 "L" (1972)
 H Goud, IEEE Trans.Nucl.Sci., Vol.28 (1981) 1264
 H Beyerle et al., Triangle U. A-TNL-80 (1981) 15
 H Beyerle et al., DOE-NDC-24 (1981) 166

T (p , g) A

/JARMIE 1956/
 /ECPL/
 /FOWLER 1967/
 /FOWLER 1975/
 J /PERRY 1955/

T (p , n) 3He

/JARMIE 1956/
 /EXFOR/
 /ECPL/
 /FOWLER 1975/
 /MC NALLY 1979/
 /HOWERTON 1979/
 A /GIBBONS 1959/
 J /JARVIS 1950/

Macklin et al., Phys.Rev. 109 (1958) 105 (EXFOR P0039.)
 McDaniels et al., Phys.Rev. C6 (1972) 1593 (EXFOR D0008.)
 Allas et al., Phys.Rev. C9 (1974) 787 (EXFOR D0010.)
 Jarmie et al., Phys.Rev. C16 (1977) 15 (EXFOR C0010., D0009.)
 Drosdg, Nucl.Sci.Eng. 67 (1977) 190 (EXFOR C0011., D0002., D0005.)
 A Vlasov et al., JETP 1 (1955) 500 (EXFOR A0098.)
 A Seagrave, Proc.Int.Conf. Nuclear Forces and the Few Nucleon
 Problem, London (1959) Vol.II p.583 (EXFOR A0152.)
 Kuz'min et al., Proc.Conf. Nejtronnaja Fizika,
 Kiev, 28.5.-1.6.1973, Vol.4, p.315 (EXFOR A0097.)
 Drosdg, (priv.commun., 1979) (EXFOR D0013.)
 H Miley, BNL-NCS-51363 (1981)
 H Stewart, BNL-NCS-51363 (1981)
 H Fetisov et al, Instrum.Exp.Tech., Vol.23 (1980) 1340
 H Drosdg, Z.Physik A, Vol.298 (1980) 297

T (p , np) D

/EXFOR/

Drosdg, Nucl.Sci.Eng. 67 (1977) 190 (EXFOR C0011., D0005.)
 Kuz'min et al., Proc.Conf. Nejtronnaja Fizika,
 Kiev, 28.5.-1.6.1973, Vol.4, p.315 (EXFOR A0097.)

T (p , nnp) P

/EXFOR/

Drosdg, Nucl.Sci.Eng. 67 (1977) 190 (EXFOR C0011., D0005.)

T (p , p) T

/JARMIE 1956/
 /ECPL/

A Hemmendinger et al., Phys.Rev. 79 (1949) 1137
 AJ Claassen et al., Phys.Rev. 82 (1951) 589

AJ Ennis, Hemmendinger, Phys.Rev. 95 (1954) 772
 A Jarmie, Allan, Phys.Rev. 114 (1959) 176
 A Brolley et al., Phys.Rev. 117 (1960) 1307
 A Jarmie et al., Phys.Rev. 130 (1963) 1987
 A Balashko et al., JETP 9 (1959) 1378
 A Balashko et al., JETP 19 (1964) 1281
 A Baumann, J.Phys.Rad. 18 (1957) 337
 A Kurepin, Trudy of the Lebedev Phys.Inst. Vol.33 (1965) 1
 (Translation by Consultant Bureau, N.Y. 1966)

T (d , x) Y

A Bretscher, French, Phys.Rev. 75 (1949) 1154
 A Galonsky, Johnson, Phys.Rev. 104 (1956) 421
 A Bame, Perry, Phys.Rev. 107 (1957) 1616
 A Allen, Jarmie, Phys.Rev. 111 (1958) 1129
 A Brolley et al., Phys.Rev. 117 (1960) 1307
 A Stewart et al., Phys.Rev. 119 (1960) 1649
 A Goldberg et al., Phys.Rev. 122 (1961) 164
 A Paulsen, Liskien, Nucl.Phys. 56 (1964) 394
 A Simmons, Malanig, Bull.APS 13 (1968) 564
 A Allen, Poole, Proc.Roy.Soc.(London) A204 (1950) 500
 A Davidenko et al., J.Nucl.Energy 2 (1957) 258
 A Balabanov et al., Atomnaya Energiya Suppl. 5 (1957) 43
 A Brill et al., Atomnaya Energiya 16 (1964) 141
 A Kobzev et al., Sov.J.Nucl.Physics 3 (1966) 774
 A Liskien, Paulsen, Report EANDC(E) 144 "L" (1972)
 H Jones, et al., Rep. South.U. (S. Africa) SUNI-65 (1980) 86]

T (d , n) A

/JARMIE 1956/
 /MILEY 1974/
 /EXFOR/
 /ECPL/
 /FOWLER 1967/
 /FOWLER 1975/
 /MC NALLY 1979/
 /HOWERTON 1979/

 /BROWN 1985/
 /BRUNELLI 1978/
 /JARMIE 1981/
 /JARMIE 1984/
 /JARMIE 1985/
 /JARMIE 1986/
 /KOZLOV 1962/
 A /STEWART 1975/

 Coon et al., Bull.APS 4 (1959) 366 (EXFOR C0020.)
 Buss et al., Phys.Lett. 4 (1963) 198 (EXFOR C0021.)
 Kosiara et al., Phys.Lett. B32 (1970) 99 (EXFOR C0019.)

AJ Brolley et al., Phys.Rev. 82 (1951) 502
 AJ Argo et al., Phys.Rev. 87 (1952) 612
 AJ Stratton, Freier, Phys.Rev. 88 (1952) 261
 AJ Conner et al., Phys.Rev. 88 (1952) 468
 AJ Arnold et al., Phys.Rev. 93 (1954) 483

AJ Hemmendinger, Argo, Phys.Rev. 98 (1955) 70
 J Bame, Perry, Bull.APS 1 (1956) 93
 J Johnson, Galonsky, Bull.APS 30,7 (1955) 25
 H Miley, BNL-NCS-51363 (1981)

T (d , np) T

/EXFOR/

Henkel et al., Phys.Rev. 99 (1955) 1050 (EXFOR C0039.)

T (d , d) T

/JARMIE 1956/

/EXFOR/

/ECPL/

/JARMIE 1986/

AJ Stratton et al., Phys.Rev. 88 (1952) 257 (EXFOR C0015.002)
 AJ Allred et al., Phys.Rev. 88 (1952) 425 (EXFOR C0002.)
 A Brolley et al., Phys.Rev. 120 (1960) 905

T (t , x) Y

A Strelenikov et al., IZV.AKAD.NAUK.USSR Ser.Fiz. 35 (1971) 165

T (t , nn) A

/JARMIE 1956/

/MILEY 1974/

/EXFOR/

/ECPL/

/FOWLER 1967/

/FOWLER 1975/

/MC NALLY 1979/

/BROWN 1985/

/GOVOROV 1962/ (EXFOR A0027.)

/HALE 1978/ (EXFOR D0019.)

H /JARMIE 1981/

/JARMIE 1985/

/JARMIE 1986/

/SEROV 1977/ (EXFOR A0007.)

A /STEWART 1975/ (EXFOR D0014.)

A Jarmie, Allen, Phys.Rev. 111 (1958) 1121 (EXFOR D0015.)

AJ Agnew et al., Phys.Rev. 84 (1951) 862

H Miley, BNL-NCS-51363 (1981)

H Jarmie, LANL LA-8087 (1980)

H Jarmie et al., Int.Conf.Nucl.Cross Sections for Technology,
 Knoxville, TN, 22-26.10.1979 (NBS Spec.Publ.594) p.733

T (t , t) T

/JARMIE 1956/
/EXFOR/
/ECPL/

- J Allen et al., Phys.Rev. 111 (1958) 1129 (EXFOR C0003.003)
J Holm, LASL (1955) unpubl.
A Frank, Grammel, Phys.Rev. 100 (1955) 973A
A Holm, Argo, Phys.Rev. 101 (1956) 1772

3He (p , p) 3He

/JARMIE 1956/
/ECPL/

- AJ Famularo et al., Phys.Rev. 93 (1954) 928
AJ Lovberg, R.H. Phys.Rev. 103 (1956) 1393
A Brolley et al., Phys.Rev. 117 (1960) 1307
A McDonald et al., Phys.Rev. 133 (1964) B1178
A Kavanagh, Parker, Phys.Rev. 143 (1966) 779
A Igo, Leland, Phys.Rev. 154 (1967) 950
A Hutson et al., Phys.Rev. C4 (1971) 17
A Tombrello et al., Nucl.Phys. 39 (1962) 541
A Clegg et al., Nucl.Phys. 50 (1964) 621
A Drigo et al., Nuovo Cim. 42B (1966) 363
A Artemov et al., JETP 10 (1960) 474
A Vanetsian, Fedchenko, Sov.J.Atomic Energy 2 (1957) 141
A Sweetman, Phil.Mag. 46 (1955) 358
A Brolley, Fowler, Fast Neutron Physics (1960)
A Rosen, Nuclear Forces and the Few Nucleon Problem
Pergamon 1960 p.481
H McCamis et al., Bull.APS, Vol.26 (1981) 565
H Hale, BNL-NCS-51363 (1981)

3He (d , x) Y

- A Jarmie, Jett, Phys.Rev. C10 (1974) 145
A Gruebler et al., Nucl.Phys. A176 (1971) 631
A Carlton, Thesis, Univ.of Georgia (1970)
A Carlton, Phys.Abstr. 67885 (1971)
A Dodder, Hale, LA-WR 78-2515 (1978)

3He (d , np) 3He

/EXFOR/

Henkel et al., Phys.Rev. 99 (1955) 1050 (EXFOR C0039.)

3He (d , p) A

/JARMIE 1956/
/MILEY 1974/
/EXFOR/
/ECPL/
/FOWLER 1967/
/FOWLER 1975/
/MC NALLY 1979/
/HOWERTON 1979/

/BUSS 1968/ (EXFOR C0027.)

H /JARMIE 1981/
/JARMIE 1986/
/KOZLOV 1962/
/KRAUSS 1987a/

J Allred, Phys.Rev. 84 (1951) 695
AJ Bonner et al., Phys.Rev. 88 (1952) 473
AJ Yarnell et al., Phys.Rev. 90 (1953) 292
J Arnold et al., Phys.Rev. 93 (1954) 483 (EXFOR C0018.)
AJ Freier, Holmgren, Phys.Rev. 93 (1954) 825
AJ Kunz, Phys.Rev. 97 (1955) 456
A Stewart et al., Phys.Rev. 119 (1960) 1649 (EXFOR C0012.)
J Jarvis, Roaf, Proc.Roy.Soc.(London) A218 (1953) 432
Li Zhichan, Chin.J.Sci.Techn.of Atom.Energy 3 (1977) 229
(EXFOR S0001.)

H Miley, BNL-NCS-51363 (1981)
H Jarmie, LANL LA-8087 (1980)
H Jarmie et al., Int.Conf.Nucl.Cross Sections for Technology,
Knoxville, TN, 22-26.10.1979 (NBS Spec.Publ.594) p.733
H Cecil et al., Phys.Rev.C, Vol.32 (1985) 690

3He (d , pp) T

/HENLEY 1965/
/JAKOBSON 1965/

3He (d , d) 3He

/JARMIE 1956/
/EXFOR/
/ECPL/

J Allred et al., Phys.Rev. 88 (1952) 425 (EXFOR C0002.)
J Freier, Holmgren, Phys.Rev. 93 (1954) 825
AJ Brown et al., Phys.Rev. 96 (1954) 80
A Tombrello et al., Phys.Rev. 154 (1967) 935
A King, Smythe, Nucl.Phys. A183 (1972) 657
A Baker et al., Nucl.Phys. A184 (1972) 97
H Miley, BNL-NCS-51363 (1981)

3He (t , x) Y

A Kuhn, Schlenk, Joint Inst.Nucl.Res.USSR Rep. P1197 (1963)
H Miley, BNL-NCS-51363 (1981)

^3He (t , np) A

/JARMIE 1956/
/MILEY 1974/
/ECPL/
/FOWLER 1967/
/FOWLER 1975/
/MC NALLY 1979/

A /KUEHN 1963/
AJ /MOAK 1953/
A /SMITH 1963/
A /YOUN 1961/

H Miley, BNL-NCS-51363 (1981)
Almqvist, Allen, Dewan, Pepper, Phys.Rev.83 (1951) 202
Barry et al., Proc.Rutherford Jubilee Conf.Nucl.Physics,
(Berks,J.B.,ed.) (Heywood Ltd.,London 1962)

^3He (t , d) A

/JARMIE 1956/
/MILEY 1974/
/ECPL/
/FOWLER 1967/
/FOWLER 1975/
/MC NALLY 1979/

A /KUEHN 1963/
AJ /MOAK 1953/
A /SMITH 1963/
A /YOUN 1961/

P SinNam,K., Osetinskii,G.M., Yad.Fiz., Vol.10 (1969) 705
H Miley, BNL-NCS-51363 (1981)
Almqvist, Allen, Dewan, Pepper, Phys.Rev.83 (1951) 202

^3He (t , t) ^3He

/ECPL/

A /LELAND 1965/

P Haglund, Ohlsen, Phys.Rev.C15 (1977) 1613
P Barnard, Jones, Nucl.Phys. 50 (1964) 629
A Ivanovitch et al., Nucl.Phys. A110 (1968) 441
A Bacher et al., Nucl.Phys. A119 (1968) 360

^3He (^3He , x)

H Miley, BNL-NCS-51363 (1981)

^3He (^3He , g) ^6Be

P /VENTURA 1974/

^3He (^3He , pp) A

/FOWLER 1967/
/FOWLER 1975/
/MC NALLY 1979/

A /DWARAKANATH 1971/
A /DWARAKANATH 1974/
A /GOOD 1954/
/JARMIE 1986/
/PRITZKER 1976/
A /SLOBODRIAN 1972/
/KRAUSS 1987/

P Kirchner, Beckmann, Nucl.Phys. 405 (1983) 159
A Dwarakanath, Thesis Caltech (1969)
A Dwarakanath, Phys.Abstr. 39101 (1970)
H Miley, BNL-NCS-51363 (1981)
Neng-Ming et al., Sov.J.Nucl.Physics 3 (1966) 777
Bacher, Tombrello, Rev.Mod.Phys. 37 (1965) 433
Bacher, Tombrello, unpublished.
Brown, Reichstein, Tang, Nucl.Phys.A 178 (1971) 145.

^3He ($^3\text{He}, ^3\text{He}$) ^3He

/ECPL/

A /LELAND 1965/
A Tombrello, Bacher, Phys.Rev. 130 (1963) 1108
A Jenkin et al., Phys.Rev. C1 (1970) 1622
A Ivanovitch et al., Nucl.Phys. A110 (1968) 441
A Bacher et al., Nucl.Phys. A119 (1968) 360
P Vlastou, England, Nucl.Phys. 303 (1978) 368
A Bacher et al., Bull. APS 13 (1968) 1366

A (p , p) A

/JARMIE 1956/
/ECPL/

/DODDER 1976/
A /DODDER 1977/

AJ Freier et al., Phys.Rev. 75 (1949) 1345
AJ Putnam, T.M., Phys.Rev. 87 (1952) 932
AJ Kreger et al., Phys.Rev. 93 (1954) 837
AJ Williams, Rasmussen, Phys.Rev. 98 (1955) 56
A Brockman, Phys.Rev. 102 (1956) 391
A Brockman, Phys.Rev. 108 (1957) 1000
A Phillips, Phys.Rev. 112 (1958) 2043
A Bacher et al., Phys.Rev. C5 (1972) 1147

A McDonald et al., Phys.Rev. 133 (1964) B1178
A Garreta et al., Nucl.Phys. 132 (1969) 204
A Kraus, Linck, Nucl.Phys. 224 (1974) 45
A Wassmer, Muhry, Helv.Phys.Acta 46 (1973) 626
A Sanada, J.Phys.Soc.Japan 14 (1959) 1463
J Putnam,T.M., UCRL-1447

A (d , g) 6Li

H Robertson et al., Phys.Rev.Lett., Vol.47 (1981) 1867

A (d , np) A

/JARMIE 1956/
/EXFOR/
/ECPL/

J Allred et al., Phys.Rev. 82 (1951) 786 (EXFOR C0040.)
Henkel et al., Phys.Rev. 99 (1955) 1050 (EXFOR C0039.)
J Burge et al., Proc.Roy.Soc. A210 (1952) 534
H Wernitz et al., Bull.APS, Vol.26 (1981) 622

A (d , d) A

/JARMIE 1956/
/EXFOR/
/ECPL/

/JARMIE 1986/

J Blair et al., Phys.Rev. 75 (1949) 1678
AJ Allred et al., Phys.Rev. 82 (1951) 786 (EXFOR C0040.)
AJ Lauritsen et al., Phys.Rev. 92 (1953) 1501
AJ Galonsky et al., Phys.Rev. 98 (1955) 586
A Stewart et al., Phys.Rev. 128 (1962) 707
A Matons, Browne, Phys.Rev. 136 (1964) B399
A Jett et al., Phys.Rev. C3 (1971) 1769
A Ohlsen, Young, Nucl.Phys. 52 (1964) 134
A Senhouse, Tombrello, Nucl.Phys. 57 (1964) 624
A Mani, Tarratts, Nucl.Phys. A107 (1968) 624
A Guggenheim et al., Proc.Roy.Soc. A190 (1947) 196
AJ Burge et al., Proc.Roy.Soc. A210 (1952) 534
A Rothe et al., Bull.APS 8 (1963) 537
A Fukunaga et al., J.Phys.Soc.Japan 22 (1967) 28
A Artemov, Vlasov, JETP 12 (1961) 1124
AJ Freemantle et al., Phil.Mag. 45 (1954) 1090
H Bruno,M., et al., Nuovo Cim.A, Vol.68 (1982) 35

A (t , g) 7Li

/FOWLER 1967/
/FOWLER 1975/

H Williams et al., Phys.Rev.C, Vol.23 (1981) 2773
H Kajino et al., Phys.Rev.Lett., Vol.52 (1984) 739

A (t , n) 6Li

/FOWLER 1975/

A (t , t) A

/EXFOR/

/ECPL/

/JARMIE 1986/

- A Allen, Jarmie, Phys.Rev. 111 (1958) 1129 (EXFOR C0003.002)
A Tombrello, Phillips, Phys.Rev. 122 (1961) 224
A Hemmendinger, Bull. APS 1 (1956) 96
A Brolley et al., Nuclear Forces and the Few
Nucleon Problem Vol.II, p.455
H Miley, BNL-NCS-51363 (1981)

A (3He, g) 7Be

/EXFOR/

/FOWLER 1967/

/FOWLER 1975/

/OSBORNE 1982/ (EXFOR A0155.002, .003)

- H Williams, et al., Phys.Rev.C, Vol.23 (1981) 2773
H Osborne, et al., Bull.APS, Vol.26 (1981) 565
H Roberston, et al., Phys.Rev.C, Vol.27 (1983) 11
H Volk, et al., Z.Physik A, Vol.310 (1983) 91
H Kajino, et al., Phys.Rev.Lett., Vol.52 (1984) 739

A (3He,3He) A

/ECPL/

- A Miller, Phillips, Phys.Rev. 112 (1958) 2048
A Tombrello, Parker, Phys.Rev. 130 (1963) 1112
A Spiger, Tombrello, Phys.Rev. 163 (1967) 964
A Barnard et al., Nucl.Phys. 50 (1964) 629
A Dunnill et al., Nucl.Phys. A92 (1967) 201
A Ivanovich et al., Nucl.Phys. A110 (1968) 441
A Chuang, Nucl.Phys. A174 (1971) 399
A Spiger, Tombrello, Bull.APS 9 (1964) 703

A (a , n) 7Be

- H Glagola et al., Phys.Rev.C, Vol.25 (1982) 34
H Glagola et al., Phys.Rev.Lett., Vol.41 (1978) 1698
H Glagola et al., Rep. Oak Ridge ORO-5172-11 (1978) 35

A (a , np) 6Li

- H Glagola et al., Phys.Rev.C, Vol.25 (1982) 34
H Glagola et al., Phys.Rev.Lett., Vol.41 (1978) 1698
H Glagola et al., Rep. Oak Ridge ORO-5172-11 (1978) 35

A (a , p) 7Li

- H Glagola et al., Phys.Rev.C, Vol.25 (1982) 34
H King et al., Phys.Rev.Lett., Vol.35 (1975) 988
H Glagola et al., Phys.Rev.Lett., Vol.41 (1978) 1698
H Glagola et al., Rep. Oak Ridge ORO-5172-11 (1978) 35
H Slobodrian et al., Z.Physik A, Vol.308 (1982) 15

A (a , pp) 6He

- H Glagola et al., Phys.Rev.C, Vol.25 (1982) 34
H Glagola et al., Rep. Oak Ridge ORO-5172-11 (1978) 35

A (a , d) 6Li

- H Glagola et al., Phys.Rev.C, Vol.25 (1982) 34
H Glagola et al., Phys.Rev.Lett., Vol.41 (1978) 1698
H Glagola et al., Rep. Oak Ridge ORO-5172-11 (1978) 35

A (a , a) A

/JARMIE 1956/
/ECPL/

- J Mather,K.B., Phys.Rev. 82 (1951) 126
J Graves, Phys.Rev. 84 (1951) 1250
J Graves, Phys.Rev. 85 (1952) 703A
AJ Briggs et al., Phys.Rev. 91 (1953) 438A
AJ Steigert, Sampson, Phys.Rev. 92 (1953) 660
AJ Phillips et al., Phys.Rev. 100 (1955) 960A
A Chien,Brown, Phys.Rev. C10 (1974) 1767
H Drozdz, et al., Phys.Lett.B, Vol.128 (1983) 5

6Li (p , x)

- A Bowersox, Phys.Rev. 55 (1939) 323
A Marion et al., Phys.Rev. 104 (1956) 1402
A Kibler, Phys.Rev. 152 (1956) 932
A Jeronymo et al., Nucl.Phys. 43 (1963) 424
A Fiedler, Kunze, Nucl.Phys. A96 (1967) 513
A Spinka et al., Nucl.Phys. A164 (1971) 1
A Johnston, Sergood, Nucl.Phys. A224 (1974) 349
A Gould et al., Nucl.Sci.Eng. 55 (1974) 267
A Varnagy et al., Nucl.Instr.Methods 119 (1974) 451
A Beaumevielle, J.Physique 25 (1964) 933
A Gemeinhardt et al., Z.Physik 197 (1966) 58
A Hub et al., Z.Physik 252 (1972) 332
A Gould et al., Nucl.Cross Section and Technol.
NPP 425. 697.
A Beaumevielle, CEA-R-2624 (1964)
A Hooton, Ivanovich, AERE-R7761 (1974)
A Dodder, Hale, LA-UR 78-2515 (1978)
H Miley, BNL-NCS-51363 (1981)
H Elwyn et al., DOE-NDC-24 (1981) 9

^6Li (p , g) ^7Be

/FOWLER 1975/

^6Li (p , p) ^6Li

/JARMIE 1956/

/EXFOR/

Guzhovskij, IZV.AN KAZ.SSR, Ser.Fiz.-Mat. 119 (1984) 24
(EXFOR A0237.004)

- AJ Bashkin, Richards, Phys.Rev. 84 (1951) 1124
 A McCray, Phys.Rev. 130 (1963) 2034
 A Harrison, Whitehead, Phys.Rev. 132 (1963) 2607
 A Harrison, Nucl.Phys. A92 (1967) 253
 A Harrison, Nucl.Phys. A92 (1967) 260
 A Fasoli et al., Nuovo Cim. 34 (1964) 1832
 A Merchez et al., J.Physique 29 (1968) 969
 H Hale et al., Int.Conf.Nucl.Cross Sections for Technology,
 Knoxville, TN, 22-26.10.1979 (NBS Spec.Publ.594) p.650

^6Li (p , ^3He) A

/JARMIE 1956/

/EXFOR/

/ECPL/

/FOWLER 1967/

/FOWLER 1975/

/MC NALLY 1979/

/CHANNON 1983/

HA /ELWYN 1979/

H /HOLLAND 1981/

J Lin et al., Nucl.Phys. A275 (1976) 93 (EXFOR B0116.)

J Bashkin, Richards, Phys.Rev. 84 (1951) 1124

J Sawyer, Phillips, LASL-1578 (1953)

H Miley, BNL-NCS-51363 (1981)

H Jarmie, Nucl.Sci.Eng., Vol.78 (1981) 404

H Jarmie, LANL LA-8087 (1980)

^6Li (d , x)

- A Whaling et al., Phys.Rev. 75 (1949) 688
 A Slattery et al., Phys.Rev. 108 (1957) 809
 A Schier et al., Nucl.Phys. 88 (1966) 373
 A Risler et al., Nucl.Phys. A286 (1977) 115
 A Ruby et al., Nucl.Sci.Eng. 71 (1979) 280
 A Black et al., Phys.Lett. 30B (1969) 100
 A Bertrand et al., Saclay Rep. CEA-R-3428
 H Elwyn et al., DOE-NDC-24 (1981) 9

6Li (d , n) 7Be

/JARMIE 1956/
/EXFOR/
/ECPL/
/MC NALLY 1979/
/HOWERTON 1979/

AJ /BAGGETT 1952/
 /CECIL 1982/ (EXFOR A0174.)
 A /ELWYN 1977/
 A /ELWYN 1977A/ (EXFOR B0177.)
 H /HOLLAND 1981/
 A /McCLENAHAN 1975/

 H Monahan et al., Nucl.Phys.A 269 (1976) 61
 Szabo et al., Nucl.Phys.A, Vol.289 (1977) 526 (EXFOR B0137.)
 H Cecil et al., Nucl.Phys.A, Vol.441 (1985) 477
 AJ Hirst et al., Phil.Mag. 45 (1954) 762
 H Cecil et al., IEEE Trans.Nucl.Sc. 28 (1981) 1286

 LiangQich, Chin.J.Sci.Techn.of Atom.En. 1 (1977) 10
 (EXFOR S0002.)
 Guzhovskij, IZV.AKAD.NAUK SSSR, Ser.Fiz. 44 (1980) 1983
 (EXFOR A0081.)
 Guzhovskij, IZV.AN KAZ.SSR, Ser.Fiz.-Mat. 119 (1984) 24
 (EXFOR A0237.)

 H Miley, BNL-NCS-51363 (1981)
 H Elwyn et al., Argonne, ANL-76-96 (1977) 83
 H Elwyn et al., ERDA-NDC-3 (1976) 21
 H Elwyn et al., ERDA-NDC-2 (1975) 9
 H Elwyn et al., Conf.Nucl.Cross Sections for Technology,
 Washington,DC, 3.-7.3.1975 (NBS Special Publ. 425)

6Li (d , n3He) A

/JARMIE 1956/
/EXFOR/
/ECPL/
/MC NALLY 1979/

AJ /BAGGETT 1952/
A /ELWYN 1977/
/ELWYN 1977a/
HA /HOLLAND 1979/
H /HOLLAND 1981/

$6\text{Li} (\text{d}, \text{p}) 7\text{Li}$

/JARMIE 1956/

/EXFOR/

/ECPL/

/MC NALLY 1979/

/HOWERTON 1979/

A /ELWYN 1977/

A /ELWYN 1977A/ (EXFOR B0177.)

H /HOLLAND 1981/

A /McCLENAHAN 1975/

J Whaling, Bonner, Phys. Rev. 79 (1950) 258

J Nickell, Phys. Rev. 95 (1954) 426

J Levine et al., Phys. Rev. 97 (1955) 1249

H Monahan et al., Nucl. Phys. A, Vol. 269 (1976) 61

H Cecil et al., Nucl. Phys. A, Vol. 441 (1985) 477

H Cecil et al., Bull. APS, Vol. 26 (1981) 579

Yuan Rongf, Chinese J. of Nuclear Physics

(Peking) 3 (1981) 155 (EXFOR S0004.)

Guzhovskij, IZV. AN KAZ.SSR, Ser. Fiz.-Mat. 119 (1984) 24

(EXFOR A0237.)

AJ Sawyer, Phillips, LASL, LA-1578 (1953)

H Miley, BNL-NCS-51363 (1981)

H Elwyn et al., ANL-76-96 (1977) 83

H Monahan et al., ANL-76-96 (1977) 167

H Elwyn et al., ERDA-NDC-3 (1976) 21

MaoZhenli, Mao Zhenli, Conf. on Low Energy Nuclear Physics,
Lanzhou, (1972) 3 (EXFOR S0003.)

CaiDunjiu, (1970), (priv.comm. Jiang, 1985)

(EXFOR S0017.)

$6\text{Li} (\text{d}, \text{pt}) \text{A}$

/JARMIE 1956/

/EXFOR/

/ECPL/

/MC NALLY 1979/

/HOWERTON 1979/

A /ELWYN 1977/

/ELWYN 1977a/

H /HOLLAND 1979/

H /HOLLAND 1981/

AJ Macklin, Banta, Phys. Rev. 97 (1955) 753 (EXFOR P0131.)

Mao Zhenli, Conf. on Low Energy Nuclear Physics,
Lanzhou, (1972) 3 (EXFOR S0003.)

H Miley, BNL-NCS-51363 (1981)

H Holland et al., ANL-78-66 (1978) 72

$6\text{Li} (\text{d}, \text{d}) 6\text{Li}$

/EXFOR/

A Paul, Lieb, Nucl. Phys. 53 (1964) 465

A Black et al., Phys. Lett. 30B (1969) 100

- A Bruno et al., J.Physique C1 (1966) 85
 Abramovich, IZV.AKAD.NAUK SSSR, Ser.Fiz. 40 (1976) 842
 (EXFOR A0117.002)
 Yuan Rongf, Chinese J. of Nuclear Physics
 (Peking) 3 (1981) 155 (EXFOR S0004.)
 Mao Zhenli, Conf. on Low Energy Nuclear Physics,
 Lanzhou, (1972) 3 (EXFOR S0003.)

^6Li (d , a) A

- /JARMIE 1956/
 /EXFOR/
 /ECPL/
 /MC NALLY 1979/
 /HOWERTON 1979/
 A /ELWYN 1977/
 A /ELWYN 1977A/ (EXFOR B0177.)
 /HOLLAND 1981/
 A /McCLENAHAN 1975/

- J Heydenburg et al., Phys.Rev. 74 (1948) 405
 J Whaling, Bonner, Phys.Rev. 79 (1950) 258
 Clark et al., Phys.Rev. C18 (1978) 1127 (EXFOR B0162.)
 AJ Hirst et al., Phil.Mag. 45 (1954) 762
 J Dunbar, Hirst, Australian J.Sci.Res. 4A (1951) 268
 Golovkov et al., Yad.Fiz. 34 (1981) 861 (EXFOR A0114.)
 Yuan Rongf, Chinese J. of Nuclear Physics
 (Peking) 3 (1981) 155 (EXFOR S0004.)
 AJ Sawyer, Phillips, LA-1578 (1953)
 H Miley, BNL-NCS-51363 (1981)
 Mao Zhenli, Conf. on Low Energy Nuclear Physics,
 Lanzhou, (1972) 3 (EXFOR S0003.)
 CaiDunjiu, (1970), (priv.comm. Jiang, 1985)
 (EXFOR S0017.)

^6Li (t , x)

- A /HOLLAND 1981/
 A Pepper et al., Phys.Rev. 86 (1952) 155
 A Ceric et al., Fizika (YU) 4 (1972) 40
 A Ceric et al., Fizika (YU) 4 (1972) 192
 A Valter, et al., Soviet J.Atomic Energy 10 (1961) 574
 A Serov, et al., Soviet J.Atomic Energy 12 (1962) 1
 A Abramovich et al., IZV.AKAD.NAUK SSSR, Ser.Fiz. 37 (1973) 1967
 H Miley, BNL-NCS-51363 (1981)

^6Li (t , nn) ^7Be

- /EXFOR/
 /ECPL/
 /HOWERTON 1979/
 Guzhovskij, IZV.AKAD.NAUK SSSR, Ser.Fiz. 44 (1980) 1983
 (EXFOR A0081.)
 Guzhovskij, IZV.AN KAZ.SSR, Ser.Fiz.-Mat. 119 (1984) 24
 (EXFOR A0237.)

${}^6\text{Li} (t , \text{na}) \text{A}$

/JARMIE 1956/
/ECPL/

J Crews, Thesis, Oregon State Coll. (1952)
H Devaney, J.J., LA-9720-MS

${}^6\text{Li} (t , p) {}^8\text{Li}$

/EXFOR/

Guzhovskij, IZV.AN KAZ.SSR, Ser.Fiz.-Mat. 119 (1984) 24
(EXFOR A0237.)

Abramovich, Proc.35. All Union Conf.Nucl.Spectroscopy and
Nucl.Structure, Leningrad, April 1985, p.85
(EXFOR A0247.)

${}^6\text{Li} (t , d) {}^7\text{Li}$

/JARMIE 1956/
/EXFOR/
/ECPL/

Guzhovskij, IZV.AN KAZ.SSR, Ser.Fiz.-Mat. 119 (1984) 24
(EXFOR A0237.)

J Crews, Thesis, Oregon State Coll. (1952)

${}^6\text{Li} (t , t) {}^6\text{Li}$

/EXFOR/

Guzhovskij, Prob.Jad.Fiz.I Kosm.Luchej (7) (1977) 41
(EXFOR A0116.002)

${}^6\text{Li} ({}^3\text{He}, x)$

- | | | |
|---|--------------------|--|
| A | Tompson, Tripard, | Phys.Rev. C5 (1972) 1174 |
| A | Elwyn et al., | Phys.Rev. C22 (1980) 1406
(siehe Bull.APS 25) |
| A | Reimann et al., | Phys.Rev.Lett. 18 (1967) 246 |
| A | Ludecke et al., | Nucl.Phys. A109 (1968) 676 |
| A | Baker et al., | Nucl.Phys. A184 (1972) 97 |
| A | Gould, Boyce, | Nucl.Sci.Eng. 60 (1976) 477 |
| A | Gagne et al., | Bull.APS 15 (1970) 1695 |
| A | Treado et al., | Bull.APS 16 (1971) 1186 |
| A | Elwyn et al., | Bull.APS 25 (1980) 47 |
| A | Reinmann et al., | Can.J.Physics 46 (1968) 2241 |
| A | Livesey, Piluso, | Can.J.Physics 52 (1974) 1167 |
| A | Vignon et al., | J.Physique 30 (1969) 913 |
| A | Aleksic et al., | Fizika (YU) 2 (1970) 113 |
| A | Guichard et al., | Nature 272 No.5649 (1978) 155 |
| A | McCleanshan, | Thesis, Northwestern Univ. (1974) |
| A | Bromley, Almquist, | The Chalk River Report
CRP 881, AECL 950, p.266-284 |
| A | Mazari et al., | Proc.2nd.Int.Conf.on Nuclidic Masses
(1963) |

A Holmgren, Nuclear Research with Low Energy Accelerators,
p.213
A Barr, Gilmore, priv.comm. (siehe Brief v.Conn)
H Miley, BNL-NCS-51363 (1981)
H Elwyn et al., DOE-NDC-24 (1981) 9



A /McCLENAHAN 1975/
H Miley, BNL-NCS-51363 (1981)



/ECPL/
/MC NALLY 1979/

H /GOULD 1976/
H /HOLLAND 1981/
H Miley, BNL-NCS-51363 (1981)
H Elwyn et al., PR/C 22 (1980) 1406



/EXFOR/
/ECPL/
/MC NALLY 1979/
/HOWERTON 1979/

H /HOLLAND 1981/
Ruby et al., Trans.ANS 30 (1978) 623 (EXFOR B0159.)
Abramovich, Vopr.at.Nauki i Tekhn.,
Ser.Jad.Konst. (5) (1982) 21 (EXFOR A0165.)
H Miley, BNL-NCS-51363 (1981)
H Elwyn et al., Phys.Rev.C, Vol.22 (1980) 1406



A Ludecke et al., Nucl.Phys. A109 (1968) 676

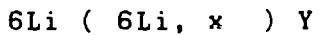
$^6\text{Li} (\ ^\alpha, \text{g}) ^{10}\text{B}$
/FOWLER 1975/

$^6\text{Li} (\ ^\alpha, \text{p}) ^9\text{Be}$
/ECPL/

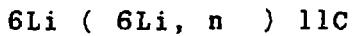
$^6\text{Li} (\ ^\alpha, \text{da}) ^8\text{A}$
/ECPL/



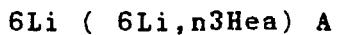
- A Dearnaley et al., Nucl.Phys. 36 (1962) 71
A Meyer et al., Nucl.Phys. A101 (1967) 114
A Barnes et al., Bull.APS 10 (1965) 111
A Singh, Gemmel, Bull.APS 10 (1965) 538
A Balakrishnan et al., Nuovo Cim. 1A (1971) 205



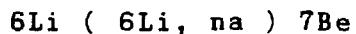
A /NORBECK 1978/



/MC NALLY 1979/



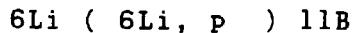
H Miley, BNL-NCS-51363 (1981)



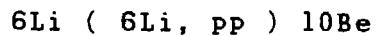
/EXFOR/

/MC NALLY 1979/

A /RUBY 1977/ (EXFOR B0134.002)
A Ruby, Lung, submitted to Nuclear Fusion (1978)



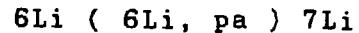
/MC NALLY 1979/



H Miley, BNL-NCS-51363 (1981)



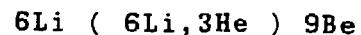
/MC NALLY 1979/



H Miley, BNL-NCS-51363 (1981)



/MC NALLY 1979/



H Miley, BNL-NCS-51363 (1981)

6Li (6Li, aa) A

A /MC NALLY 1979/
A /NORBECK 1978/

7Li (p , x)

A	Heydrenburg et al.,	Phys.Rev. 74 (1948) 405
A	Johnson et al.,	Phys.Rev. 77 (1951) 413
A	Willard, Perston,	Phys.Rev. 81 (1951) 480
A	Marion et al.,	Phys.Rev. 100 (1955) 91
A	Newson et al.,	Phys.Rev. 108 (1957) 1294
A	Macklin, Gibbons,	Phys.Rev. 109 (1958) 105
A	Bevington et al.,	Phys.Rev. 121 (1961) 871
A	Maxson,	Phys.Rev. 128 (1962) 1321
A	Borchers, Poppe,	Phys.Rev. 129 (1963) 2679
A	Carallaro et al.,	Nucl.Phys. 36 (1962) 597
A	Bair et al.,	Nucl.Phys. 53 (1964) 209
A	Buccino et al.,	Nucl.Phys. 53 (1964) 375
A	Miller et al.,	Nucl.Phys. 54 (1964) 155
A	Madsen, Vedelsby,	Nucl.Phys. 55 (1964) 477
A	Batchelor,	Proc.Phys.Soc. A68 (1955) 452
A	Batchelor, Morrison,	Proc.Phys.Soc. A68 (1955) 1081
A	Lefevre, Din,	Austr.J.Physics 22 (1969) 669
A	Hisatake et al.,	J.Phys.Soc.Japan 15 (1960) 741
A	Bogdandov et al.,	Soviet J.Atom.Energy 3 (1959) 907
A	Nilsson,	Ark.Fys. 19 (1961) 289
A	Conrad et al.,	Nature 45 (1958) 204
A	Cranberg,	LA-1654 (1954)
A	Meadows, Smith,	ANL-7938 (1972)
H	Miley,	BNL-NCS-51363 (1981)
H	Nelson et al.,	Phys.Med.Biology, Vol.23 (1978) 39
H	Nelson et al.,	77BNL (1977) 125
H	Lone et al.,	Nucl.Instr.Methods, Vol.189 (1981) 515

7Li (p , n) 7Be

/JARMIE 1956/
/EXFOR/
/ECPL/
/FOWLER 1975/
/HOWERTON 1979/

A	/GIBBONS 1959/	(EXFOR P0001.)
A	Austin, Bull.APS 7 (1962) 269	(EXFOR D0032.)
A	Bergstroem et al., Ark.Fyz. 34 (1967) 153	(EXFOR D0033.)
A	Peetermans, Thesis, Univ.of Liege (1970)	(EXFOR D0041.)
A	Presser, Bass, Nucl.Phys. A182 (1972) 321	(EXFOR D0039.)
A	Elbakr et al., Nucl.Instr.Meth. 105 (1972) 519	(EXFOR D0034.)
	Meadows, ANL-7910 (1972) 17	(EXFOR D0031.)
	Hunt et al., 1.Symp.Neutron Dosimetry, Munich-Neuherberg, May 1972 p.935	(EXFOR D0040.)
	Burke et al., Phys.Rev. C10 (1974) 1299	(EXFOR D0037.)
	Poppe et al., Phys.Rev. C14 (1976) 438	(EXFOR D0038.)

Sekharan et al., Nucl.Instr.Meth. 133 (1976) 253
 (EXFOR D0036.)
 Brandenber, Nucl.Instr.Meth. 138 (1976) 321 (EXFOR D0035.)
 Guzhovskij, IZV.AN KAZ.SSR, Ser.Fiz.-Mat. 119 (1984) 24
 (EXFOR A0237.)

AJ Taschek, Hemmendinger, Phys.Rev., Vol.74 (1948) 373
 J Bair et al., Phys.Rev., Vol.85 (1952) 946
 H Ward, et al., Phys.Rev.C, Vol.25 (1982) 762
 H Clayton, Spackman, Int.J.Appl.Radiat.Isotop., Vol.36 (1985) 13
 H Kiss, et al., J.Radioanal.Nucl.Chem., Vol. 89 (1985) 123

$^7\text{Li} (\text{p}, \text{p}) ^7\text{Li}$

/JARMIE 1956/
/EXFOR/

Guzhovskij, IZV.AN KAZ.SSR, Ser.Fiz.-Mat. 119 (1984) 24
 (EXFOR A0237.)
 Presser et al., Nucl.Phys. A182 (1972) 321
 (EXFOR D0039.002)
 J Brown et al., Phys.Rev. 82 (1951) 159
 J Bashkin, Richards, Phys.Rev. 84 (1951) 1124
 AJ Warters et al., Phys.Rev. 91 (1953) 917
 J Mozer et al., Phys.Rev. 93 (1954) 829
 J Kraus, Phys.Rev. 93 (1954) 1308
 A Malmberg Phys.Rev. 101 (1956) 114
 A Kinsey, Stone, Phys.Rev. 103 (1956) 972
 A Gogny, Jean, Compt.Rend. 260 (1965) 510
 H Antilla et al., J.Radioanal.Chem., Vol.62 (1981) 293
 H Kiss, et al., J.Radioanal.Nucl.Chem., Vol.89 (1985) 123

$^7\text{Li} (\text{p}, \text{a}) \text{\AA}$

/JARMIE 1956/
/EXFOR/
/ECPL/
/FOWLER 1967/
/FOWLER 1975/
/MC NALLY 1979/

J Mani et al., Nucl.Phys. 60 (1964) 588 (EXFOR P0017)
 J Sawyer, Phillips, LA-1578 (1953)
 H Filippone, B.W., et al., Phys.Rev.C, Vol.28 (1983) 2222

$^7\text{Li} (\text{d}, \text{x})$

A Crews, Phys.Rev. 82 (1951) 100
 A Parker, Phys.Rev. 150 (1966) 851
 A Valkovic et al., Nucl.Phys. A96 (1967) 241
 A Garnir et al., Bull.Soc.R.Sci, (Belgium) 42
 (1973) 195
 A Valter et al., Soviet J.At.En. 10 (1961) 574
 A Serov et al., Soviet J.At.En. 12 (1962) 1
 A Arnold, In Proceedings, Cluster, Winnipeg (1978)
 H Nelson et al., Phys.Med.Biology, Vol.23 (1978) 39
 H Nelson et al., Symp.Neutron Cross Sections,
 BNL, 3.-5.5.1977 (BNL-NCS-50681)p.125

${}^7\text{Li} (\text{d}, \text{nn}) {}^7\text{Be}$

/EXFOR/
/ECPL/
/HOWERTON 1979/

Guzhovskij, IZV.AKAD.NAUK SSSR, Ser.Fiz. 44 (1980) 1983
(EXFOR A0081.)

Guzhovskij, IZV.AN KAZ.SSR, Ser.Fiz.-Mat. 119 (1984) 24
(EXFOR A0237.007)

${}^7\text{Li} (\text{d}, \text{n}dd) \text{A}$

H Miley, BNL-NCS-51363 (1981)

${}^7\text{Li} (\text{d}, \text{na}) \text{A}$

/JARMIE 1956/
/EXFOR/
/ECPL/
/FOWLER 1975/
/MC NALLY 1979/

AJ /BAGGETT 1952/

Mao Zhenli, Conf. on Low Energy Nuclear Physics,
Lanzhou, (1972) 3 (EXFOR S0003.)

LiangQich, Chin.J.Sci.Techn.of Atom.En. 1 (1977) 10
(EXFOR S0002.)

J Levine et al., Phys.Rev. 97 (1955) 1249

J Sawyer, Phillips, LA-1578 (1953)

H Miley, BNL-NCS-51363 (1981)

H Chen et al., Chinese J.Nucl.Physics, Vol.2 (1980) 137

${}^7\text{Li} (\text{d}, \text{p}) {}^8\text{Li}$

/JARMIE 1956/
/EXFOR/

AJ /BAGGETT 1952/

A /CHASE 1962/

/FILLIPONE 1982/ (EXFOR A0157.002)

A /KAVANAGH 1960/ (EXFOR P0080.002)

A /McCLENAHAN 1975/

/MINGAY 1979/ (EXFOR D0021.002)

A /SELLSCHOP 1960/

A /SCHILLING 1976/

Mao Zhenli, Conf. on Low Energy Nuclear Physics,
Lanzhou, (1972) 3 (EXFOR S0003.)

Guzhovskij, IZV.AN KAZ.SSR, Ser.Fiz.-Mat. 119 (1984) 24
(EXFOR A0237.)

Abramovich, Proc.35. All Union Conf.Nucl.Spectroscopy and
Nucl.Structure, Leningrad, April 1985, p.85
(EXFOR A0247.)

AJ Bashkin, Phys.Rev. 95 (1954) 1012

J Levine et al., Phys.Rev. 97 (1955) 1249
H Elwyn, Holland, Phys.Rev.C 25 (1982) 2168
H Filippone, et al., Phys.Rev.C 28 (1983) 2222



/JARMIE 1956/
/EXFOR/

Mao Zhenli, Conf. on Low Energy Nuclear Physics,
Lanzhou, (1972) 3 (EXFOR S0003.)
Abramovich, IZV.AKAD.NAUK SSSR, Ser.Fiz. 40 (1976) 842
(EXFOR A0117.003)
Guzhovskij, IZV.AN KAZ.SSR, Ser.Fiz.-Mat. 119 (1984) 24
(EXFOR A0237.007)

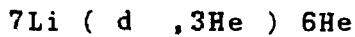
J Levine et al., Phys.Rev. 97 (1955) 1249
A Ford, Phys.Rev. 136 (1964) B953



/JARMIE 1956/
/EXFOR/

J /MACKLIN 1955/ (EXFOR P0131.002)

Mao Zhenli, Conf. on Low Energy Nuclear Physics,
Lanzhou, (1972) 3 (EXFOR S0003.)
J Levine et al., Phys.Rev. 97 (1955) 1249



/JARMIE 1956/

J Levine et al., Phys.Rev. 97 (1955) 1249



A Jolley et al., Phys.Rev. C11 (1975) 2049
A Middleton, Pullen, Nucl.Phys. 51 (1964) 50
A Hunchen et al., Nucl.Phys. 58 (1964) 417
A Hardekopf, Bull.APS 21 (1976) 551
A Valter et al., Soviet J.At.En. 10 (1961) 577
A Serov, Guzhovskij, Atomnaya Energiya 12 (1962) 5
A Ciric et al., Fizika (YU) 7 Suppl.1 (1977) 39
A Subbotic et al., Fizika (YU) 9 Suppl.1 (1977) 44
A Seltz, Magnac-Valette, Compt.Tend. 241 (1960) 2006
H Miley, BNL-NCS-51363 (1981)



/EXFOR/
/ECPL/

Abramovich, Yad.Fiz. 30,(5/11) 1276 (EXFOR A0082.)

${}^7\text{Li} (t , nnn) {}^7\text{Be}$

/ECPL/
/HOWERTON 1979/

${}^7\text{Li} (t , nna) \Lambda$

/EXFOR/
/ECPL/
/FOWLER 1975/
/MC NALLY 1979/

Abramovich, Yad.Fiz. 30,(5/11) 1276 (EXFOR A0082.)

${}^7\text{Li} (t , p) {}^9\text{Li}$

/EXFOR/

H Abramovich, Yad.Fiz. 30,(5/11) 1276 (EXFOR A0082.)
Abramovich et al., Yad.Fiz. 32 (1980) 402

${}^7\text{Li} (t , d) {}^8\text{Li}$

/EXFOR/

Guzhovskij, IZV.AN KAZ.SSR Ser. Fiz.-Mat 119 (1984) 24
(EXFOR A0237.013)

${}^7\text{Li} (t , t) {}^7\text{Li}$

/EXFOR/

Guzhovskij, Prob.Jad.Fiz.I Kosm.Luchej (7) (1977) 41
(EXFOR A0116003)
Guzhovskij, IZV.AN KAZ.SSR Ser. Fiz.-Mat 119 (1984) 24
(EXFOR A0237.013)

${}^7\text{Li} (t , \alpha) {}^6\text{He}$

/JARMIE 1956/
/EXFOR/

J Abramovich, Yad.Fiz. 30,(5/11) 1276 (EXFOR A0082.)
Crews, Thesis, Oregon State Coll. (1952)

${}^7\text{Li} (^3\text{He}, x)$

A Paul et al., Phys.Rev. 137 (1965) B493
A Duggan et al., Nucl.Physics 46 (1963) 336
A Din, Weil, Nucl.Phys. 86 (1966) 509
A Cocke, Nucl.Phys. A110 (1968) 321
A Orihara et al., Nucl.Phys. A139 (1969) 226
A Dixon, Edge, Nucl.Phys. A156 (1970) 33

A Wolicki, Meyer, Bull.APS 6 (1961) 415
A Sanada et al., J.Phys.Soc.Japan 26 (1969) 853
A Serov, Guzhovskij, Atomnaya Energiya 12 (1962) 5
A Stanojevic et al., Fizika 3 (1971) 99
A Lin, Chin, J.Physics (Taiwan) 10 (1972) 76
A Dixon, Thesis, Univ.South Carolina (1970)
H Miley, BNL-NCS-51363 (1981)

7Li (3He, g) B10

A /LING 1968/
A /LING 1971/

7Li (3He, npa) A

/ECPL/
/FOWLER 1975/
/MC NALLY 1979/

A /LING 1968/

7Li (3He, p) 9Be

/ECPL/

A /LING 1968/

7Li (3He, da) A

/ECPL/

7Li (3He, t) 7Be

/EXFOR/
/ECPL/
/HOWERTON 1979/

Ruby et al., Trans.ANS 30 (1978) 623 (EXFOR B0159.)
Abramovich, Vopr.At.Nauki i Tekhn., Ser.Jad.Konst. (5)(1982)21
(EXFOR A0165.)

7Li (3He,3He) 7Li

A Scheklinski et al., Nucl.Phys. A153 (1970) 97

7Li (3He, a) 6Li

/ECPL/

7Li (a , g) 11B

/FOWLER 1967/
/FOWLER 1975/

H Elwyn,A.J., et al., Bull.APS, Vol.28,4,(1983) 650

$7\text{Li} (\text{a}, \text{n}) 10\text{B}$

/EXFOR/
/FOWLER 1975/
/GIBBONS 1959/ (EXFOR P0001.002)
/MACKLIN 1968/ (EXFOR P0117.002)

- H Sealock et al., Nucl.Phys.A, Vol.357 (1981) 279
H Lone et al., At.En.Canada, AECL-6083 (1978)

$7\text{Li} (\text{a}, \text{a}) 7\text{Li}$

/JARMIE 1956/

- J Heydenberg, Temmer, Phys.Rev. 94 (1954) 1252
J Li, Sherr, Phys.Rev. 96 (1954) 389
A Cusson, Nucl.Phys. 86 (1966) 481
A Bingham et al., Nucl.Phys. A175 (1971) 374
A Bohler et al., Nucl.Phys. A179 (1972) 504
A Kelleter et al., Nucl.Phys. A210 (1973) 502
A Bingham, Thesis, Florida State Univ. (1970)

$7\text{Be} (\text{p}, \text{x})$

- H Miley, BNL-NCS-51363 (1981)

$7\text{Be} (\text{p}, \text{g}) 8\text{B}$

/EXFOR/
/FOWLER 1967/
/FOWLER 1975/
/KAVANAGH 1960/
/PARKER 1966/ (EXFOR P0020.002)
/WIEZOREK 1977/ (EXFOR B0091.002)

- H Williams et al., Phys.Rev.C, Vol.23 (1981) 2773
H Barker, F.C., Phys.Rev.C, Vol.28 (1983) 1407
H Filippone, B.W., et al., Phys.Rev.C, Vol.28 (1983) 2222
H Filippone, B.W., et.al., Phys.Rev.Lett., Vol.50 (1983) 412

$7\text{Be} (\text{d}, \text{x})$

- A Spear, Australian J.Physics 12 (1959) 99
H Miley, BNL-NCS-51363 (1981)

$7\text{Be} (\text{d}, \text{pa}) \text{A}$

/FOWLER 1975/
/MC NALLY 1979/
A /KAVANAGH 1960a/
H Miley, BNL-NCS-51363 (1981)

${}^7\text{Be} (t , x)$

H Miley, BNL-NCS-51363 (1981)

${}^7\text{Be} (t , npa) A$

/FOWLER 1975/
/MC NALLY 1979/

H Miley, BNL-NCS-51363 (1981)

${}^7\text{Be} ({}^3\text{He}, x)$

H Miley, BNL-NCS-51363 (1981)

${}^7\text{Be} ({}^3\text{He}, ppa) A$

/FOWLER 1975/
/MC NALLY 1979/

H Miley, BNL-NCS-51363 (1981)

${}^7\text{Be} (a , g) {}^{11}\text{C}$

/FOWLER 1967/
/FOWLER 1975/

H Elwyn, A.J., et al., Bull.APS, Vol.28,4 (1983) 650

${}^9\text{Be} (p , x)$

- A Montague et al., Nucl.Phys. A199 (1973) 457
- A Sierk, Tombrello, Nucl.Phys. 210 (1973) 341
- A TU,Hornyak, Bull.APS 14 (1969) 489
- A Bertrand et al., Comm. a. L'energie Atomique, Report CEA 3575 (1968)
- A Votava, Thesis, Univ.North Carolina (1972)
- H Lone et al., Nucl.Instr.Methods, Vol.189 (1981) 515
- H Miley, BNL-NCS-51363 (1981)
- H Antilla et al., J.Radioanal.Chem., Vol.62 (1981) 293
- H Sastri et al., Anal.Chem., Vol.53 (1981) 765
- H Lone et al., INDC(NDS)/-114 (1980)
- H Lone et al., Symp.Neutron Cross Sections, BNL, 3.-5.5.1977 (BNL-NCS-50681, p.79)
- H Graves et al., Symp.Neutron Cross Sections, BNL, 3.-5.5.1977 (BNL-NCS-50681, p.117)
- H Lone et al., Symp.Neutron Cross Sections, BNL, 12.-14.5.1980 (BNL-NCS-51245, p.147)

^{9}Be (p , g) 10B

/JARMIE 1956/
/FOWLER 1975/

- J Fowler, Lauritsen, Phys.Rev. 76 (1949) 314
 J Hunt, Phys.Rev. 87 (1952) 902
 J Hornyak, Coor, Phys.Rev. 92 (1953) 675
 J Carlson, Nelson, Phys.Rev. 95 (1954) 641A
 J Sawyer, Phillips, LA-1578 (1953)
 H Kiss, et al., J.Radiocanal.Nucl.Chem., Vol.89 (1985) 123

^{9}Be (p , npa) A

/JARMIE 1956/
/EXFOR/
/FOWLER 1975/

/ELWYN 1971/
/GIBBONS 1959/ (EXFOR P0001.)

- J Marion et al., Phys.Rev. 100 (1955) 91
 H Byrd et al., Phys.Rev.Lett., Vol.43 (1979) 260
 H Mack et al., Nucl.Phys.A, Vol.345 (1980) 241
 H Walter et al., Symp.Neutron Cross Sections, BNL,
 12.-14.5.1980 (BNL-NCS-51245, p.259)

^{9}Be (p , p) ^{9}Be

/JARMIE 1956/

- J Thomas et al., Phys.Rev. 75 (1949) 1612
 J Browne et al., Phys.Rev. 83 (1951) 179
 A Mozer, Phys.Rev. 104 (1956) 1386
 A Mo, Hornyak, Phys.Rev. 187 (1969) 1220
 A Rohrer, Brown, Nucl.Phys. A210 (1973) 465
 A Kiss et al., Nucl.Phys. A282 (1977) 44
 A Kild, Crinean, Australian J.Physics 27 (1974) 663
 A Yasue et al., J.Phys.Soc.Japan 36 (1974) 1254
 A Mashkanov et al., IZV.AKAD.NAUK.SSR
 Ser.Fiz. 37 (1973) 1729
 A Dearnaley, Phil.Mag. 1 (1956) 821
 H Byrd et al., Phys.Rev.Lett., Vol.43 (1979) 260

^{9}Be (p , da) A

/JARMIE 1956/
/FOWLER 1967/
/FOWLER 1975/
/MC NALLY 1979/

/ELWYN 1971/

- J Thomas et al., Phys.Rev. 75 (1949) 1612
 J Neuendorfer et al., Phys.Rev. 82 (1951) 75
 J Harvey, Phys.Rev. 82 (1951) 298A
 J Harvey, MIT Progress Rep. Jan.1, (1951)

9Be (p , t) 7Be

/JARMIE 1956/
/EXFOR/

J Cohen, Phys.Rev. 93 (1954) 514 (EXFOR P0038.)

9Be (p , a) 6Li

/JARMIE 1956/
/FOWLER 1967/
/FOWLER 1975/
/MC NALLY 1979/

/ELWYN 1971/

J Thomas et al., Phys.Rev. 75 (1949) 1612
J Neuendorfer et al., Phys.Rev. 82 (1951) 75
H Kiss, et al., J.Radioanal.Nucl.Chem., Vol.89 (1985) 123

9Be (d , x)

A Evans et al., Phys.Rev. 75 (1949) 1161
A Juric, Phys.Rev. 98 (1955) 85
A McCrary et al., Phys.Rev. 108 (1957) 392
A Ralph, Dunnam, Phys.Rev. 120 (1960) 249A
A Bardes, Owen, Phys.Rev. 120 (1960) 1369
A Read et al., Nucl.Phys. 23 (1961) 386
A Biggerstaff et al., Nucl.Phys. 36 (1962) 631
A Siemssen et al., Nucl.Phys. 69 (1965) 209
A Zwieglinski et al., Nucl.Phys. A250 (1975) 93
A Read, Calvert, Proc.Phys.Soc. 77 (1961) 65
A Ambrossino et al., J.Physique C1 (1966) 62
A Friedland et al., Z.Physik 267 (1974) 97
A Tanaka, J.Phys.Soc.Japan 44 (1978) 1405
A Bondouk et al., Ann.der Physik 32 (1975) 255
A Dolinov, Melikov, Vest.Mosk.Univ.Fiz.Astron.,
P116 (1966)
A Kotlay, Acta Phys.Acad.Sci.Hungaria
16 (1963) 93
A Sledzinska et al., Acta Phys.Polonica 88 (1977) 277
A Farouk et al., F.Phys. 201 (1967) 52
H Lone et al., Nucl.Instr.Methods.Vol.143 (1977) 331
H Lone et al., Nucl.Instr.Methods, Vol.189 (1981) 515
H Mountford et al., British J.Radiology, Vol.49 (1976) 630
H Sastri et al., Anal.Chem., Vol.53 (1981) 765
H Cranberg, Phys.Med.Biology, Vol.23 (1978) 335
H Mountford et al., Phys.Med.Biology, Vol.24 (1979) 647
H Heintz et al., Medical Phys., Vol.4 (1977) 250
H Weaver et al., Medical Phys., Vol.6 (1979) 193
H Waterman et al., Medical Phys., Vol.6 (1979) 432
H Plattard et al., CEA-CONF-4462 (1978)
H Lone et al., INDC(NDS)-114 (1980)
H Miley, BNL-NCS-51363 (1981)
H Lone et al., Symp.Neutron Cross Sections, BNL,
12.-14.5.1980 (BNL-NCS-51245, p.147)
H Lone et al., Symp.Neutron Cross Sections, BNL,
3.-5.5.1977 (BNL-NCS-50681, p.79)

^9Be (d , g) ^{11}B

/EXFOR/

Ziegler et al., Nuclear Physics 83 (1966) 145 (EXFOR P0114.)

^9Be (d , n) ^{10}B

/EXFOR/

H /CECIL 1981/
/CECIL 1982/ (EXFOR A0174.)
/ELWYN 1971/

H Brooke et al., South.U., S.Afr. SUNI-65 (1980) 17

^9Be (d , p) ^{10}Be

/JARMIE 1956/
/EXFOR/

H /CECIL 1981/
/ELWYN 1971/

JiangChen, Conf. on Low Energy Nuclear Physics,
Lanzhou, (1972) 3 (EXFOR S0005.)

J Resnick, Hanna, Phys.Rev. 82 (1951) 463
AJ Canavan, Phys.Rev. 87 (1952) 136
J Fulbright et al., Phys.Rev. 88 (1952) 700
J Salmon, Proc.Phys.Soc.(London) A64 (1951) 848
AJ DeJong et al., Physica 18 (1952) 676

^9Be (d , d) ^9Be

A Renken, Phys.Rev. 132 (1963) 2627
A Machali et al., Nucl.Phys. A112 (1968) 654
A Djaloeis et al., Nucl.Phys. 15 (1972) 266
A Powell et al., Nucl.Phys. A147 (1970) 65
A Lombard, Friedland, Z.Physik 249 (1972) 349

^9Be (d , ta) A

/JARMIE 1956/
/EXFOR/

/ELWYN 1971/

JiangChen, Conf. on Low Energy Nuclear Physics,
Lanzhou, (1972) 3 (EXFOR S0005.)

J Wolfgang, Libby, Phys.Rev. 85 (1952) 437
J Fulbright et al., Phys.Rev. 88 (1952) 700
AJ DeJong et al., Physica 18 (1952) 676



/EXFOR/

/ELWYN 1971/

JiangChen, Conf. on Low Energy Nuclear Physics,
Lanzhou, (1972) 3 (EXFOR S0005.)



- A Ralph, Dunnam, Phys.Rev. 120 (1960) 249A
A Bardes, Owen, Phys.Rev. 120 (1960) 1369
A Cohen, Herling, Nucl.Phys. A141 (1970) 595
A Nam, Osetinskij, Soviet J.Nucl.Physics 9 (1969) 279
H Miley, BNL-NCS-51363 (1981)



/EXFOR/

Malushin's, Acta Physica Polonica B8 (1977) 309 (EXFOR A0014.)



- A Cohen, Herling, Nucl.Pys. A141 (1970) 595
A Nam, Osetinskii, Soviet J. Nucl.Phys. 9 (1969) 279



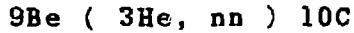
- A Moazed, Holmgren, Phys.Rev. 166 (1968) 977
A Dorenbusch, Browne, Phys.Rev. 313 (1963) 1212
A Taylor et al., Nucl.Phys. 15 (1972) 31
A Artemov et al., Yad.Fiz. 1 (1965) 1019
A Ehlers, Thesis, Washington State Univ. (1970)
H Waterman et al., Medical Phys., Vol.6 (1979) 432
H Miley, BNL-NCS-51363 (1981)



/EXFOR/

H /CHAUDHRI 1982/
/HAHN 1967/

H Anders et al., ZPhysik A, Vol.301 (1981) 353
Guzhovskij, Vopr.At.Nauki i Tekhn., Ser.Jad.Konst. (2) (1984) 5
(EXFOR A0166.)



/EXFOR/

Moss et al., Nucl.Phys. A235 (1974) 11 (EXFOR B0005.)

^9Be (^3He , na) ^7Be

/EXFOR/

Abramovich, Vopr. At. Nauki i Tekhn., Ser. Jad. Konst. (5) (1982) 21
(EXFOR A0165.)

^9Be (^3He , p) ^{11}B

/JARMIE 1956/

J Holmgren et al., Phys. Rev. 100 (1955) 436

^9Be ($^3\text{He}, ^3\text{He}$) ^9Be

A Earwaker, Nucl. Phys. A90 (1967) 56
A McEver et al., Nucl. Phys. A178 (1972) 529
A Bondouk et al., Rev. Roumaine Phys. 19 (1974) 653

^9Be (a , n) ^{12}C

/JARMIE 1956/

/EXFOR/

/ECPL/

/FOWLER 1967/

/FOWLER 1975/

/MC NALLY 1979/

/ELWYN 1971/

/GIBBONS 1959/ (EXFOR P0001.)

Gibbons et al., Phys. Rev. B137 (1965) 1508 (EXFOR P0085.)

Geiger et al., Canada, Rep. NRCC-15303 (1976) (EXFOR D0001.)

J Halpern, Phys. Rev. 76 (1949) 248

^9Be (a , n) X

/EXFOR/

Geiger et al., Canada, Rep. NRCC-15303 (1976) (EXFOR D0001.)

H Lone et al., Nucl. Instr. Methods, Vol. 189 (1981) 515

H Lone et al., INDC(NDS)-114 (1980)

H Lone et al., AECL-5966 (1977) 57

H Grant et al., DOE-NDC-24 (1981) 189

^9Be (a , nn) ^{11}C

H /CHAUDHRI 1982/

^9Be (a , nna) A

/EXFOR/

/ECPL/

Geiger et al., Canada, Rep. NRCC-15303 (1976) (EXFOR D0001.)

$^{9\text{Be}} (\text{a}, \text{a}) ^{9\text{Be}}$

- A Goss et al., Phys. Rev. C, Vol. 7 (1973) 1837
A Taylor et al., Nucl. Phys., Vol. 65 (1965) 318
A Saleh et al., Ann. der Physik 31 (1974) 76
A Goss, Thesis, Ohio State Univ. (1970)

$^{10\text{B}} (\text{p}, \text{x})$

/SEGEL 1966/

$^{10\text{B}} (\text{p}, \text{g}) ^{11\text{C}}$

/JARMIE 1956/
/EXFOR/
/FOWLER 1975/

- J /ANTTILA 1981/
/DAY 1954/ (JARMIE 1956)
/WIESCHER 1982/
/WIESCHER 1983/

Chadwick, G.B., Alexander, T.K., Wauren, J.B.,
Can. Journ. Phys., Vol. 34 (1956) 381 (EXFOR P0044.002)

$^{10\text{B}} (\text{p}, \text{n}) ^{10\text{C}}$

/EXFOR/

/EARWAKER 1963/ (EXFOR P0002.002)
/GIBBONS 1959/
/MUMINOV 1980/ (EXFOR A0085.024)
/SCHELIN 1985/

- H Miley, BNL-NCS-51363 (1981)

$^{10\text{B}} (\text{p}, \text{p}) ^{10\text{B}}$

/JARMIE 1956/
/EXFOR/

- A /BORELI 1970/
J /BROWN 1951/ (JARMIE 1956)
J /DAY 1954/ (JARMIE 1956)
/HOEHN 1981/
A /OVERLY 1962/
A /SEGEL 1966/

J Rihet et al., Phys. Rev. C20 (1979) 1583 (EXFOR R0017.)
J Craig et al., Phys. Rev. 88 (1952) 808
A Overly, Thesis, Caltech (60).

10B (p , 3He) A

/JARMIE 1956/
/ECPL/
/HOWERTON 1979/

J Craig et al., Phys. Rev. 88 (1952) 808

10B (p , a) 7Be

/JARMIE 1956/
/EXFOR/
/ECPL/
/FOWLER 1967/
/FOWLER 1975/
/HOWERTON 1979/

J /BACH 1955/ (JARMIE 1956)
J /BROWN 1951/ (JARMIE 1956)
J /BURCHAM 1950/ (JARMIE 1956)
J /DAY 1954/ (JARMIE 1956)
A /JENKIN 1964/
A /OVERLY 1962/
A /SZABO 1972/
/TAUSSIG 1977/

Chadwick, G.B., Alexander, T.K., Wauren, J.B.,
Can.Journ.Phys., Vol. 34 (1956) 381 (EXFOR P0044.002)
Rihet et al., Phys.Rev. C20 (1979) 1583 (EXFOR R0017.)
J VanPatter et al., Phys.Rev. 79 (1950) 900
J Craig et al., Phys.Rev. 88 (1952) 808
H Kiss, et al., J.Radioanal.Nucl.Chem., Vol.89 (1985) 123

10B (d , x)

A Croissiaux, Ann. der Phys., vol.5 (1960) 409
A Ahmad et al., 4th AINSE Nucl.Phys.Conf.,
Sydney (1972) 76

10B (d , g) 12C

A /BLACK 1970a/

10B (d , n) 11C

/JARMIE 1956/
/LANDOLT-BOERNSTEIN 1973/
/EXFOR/
/ECPL/
/HOWERTON 1979/

/ANDERS 1981/
/BONDARENKO 1982/
AJ /BURKE 1954/
/CECIL 1981/
/CECIL 1982/ (EXFOR A0174.004)

/CHAUDHRI 1982/
/DIN 1967/
/THORNTON 1972/
/WOHLLEBEN 1969/ (EXFOR D0026.002)

Guzhovskij, Vopr. At. Nauki i Tekhn., Ser. Jad. Konst. (2) (1984) 55
(EXFOR A0166.)

J Marion et al., Phys. Rev 100 (1955) 847
J Paris, Endt, Physica 20 (1954) 585
H Miley, BNL-NCS-51363 (1981)

10B (d , p) 11B

/JARMIE 1956/
/ECPL/
/HOWERTON 1979/
A /ARENA 1972/
A /BLACK 1970a/
A /BREUER 1964/
AJ /BURKE 1954/
/CECIL 1981/
/ELKIND 1953/
A /ENDT 1952/
A /HARRISON 1960/
A /LEE 1965/
A /MARION 1956/
AJ /PARIS 1954/
A /POORE 1967/

J VanPatter et al., Phys. Rev. 82 (1951) 248

10B (d , d) 10B

A /BUSCH 1974/
/DIN 1967/
A /LEE 1965/
A /LOMBAARD 1969/
A /STOCKER 1974/

10B (d , aa) A

/ECPL/
/HOWERTON 1979/

A /ASSIMAKOPOULOS 1968/
A /BECKER 1960/
A /BLACK 1970a/
A /BREUER 1964/
A /COMSAN 1968/
A /FRIEDLAND 1968/
A /LEGGE 1961/
A /MARION 1956/
A /PURSER 1963/
A /RENDIC 1971/

A Roy et al., Nuovo Cim. Lett., Vol. 6 (1973) 374.
A Longequeue et al., Compt. Tend., vol. 264 A/B (1967) 1032

10B (t , x)

H Miley, BNL-NCS-51363 (1981)

10B (t , p) 12B

/EXFOR/

A /HOLMGREN 1963/

Guzhovskij, IZV.AKAD.NAUK SSSR, Ser.Fiz. 49 (1985) 917
(EXFOR A0167.)

10B (t , pa) 8Li

/EXFOR/

Abramovich, Vopr.At.Nauki i Tekhn., Ser.Jad.Konst.(2) (1985) 10
(EXFOR A0270.)

10B (t , d) 11B

A /HOLMGREN 1963/

10B (t , t) 10B

A /HOLMGREN 1963/

A /HERLING 1969/

A /GERARDIN 1971/

10B (t , a) 9Be

/CIRIC 1977/

A /GERARDIN 1971/

A /HOLMGREN 1963/

10B (t , 6He) 7Be

/EXFOR/

Abramovich, Vopr.At.Nauki i Tekhn., Ser.Jad.Konst.(2) (1985) 10
(EXFOR A0270.)

10B (3He, x)

H Miley, BNL-NCS-51363 (1981)

10B (3He, g) 13N

A /BELL 1972/

10B (3He, n) 12N

/EXFOR/

A /PETERSON 1963/ (EXFOR P0082.002)
/SINGH 1970/

Abramovich, Vopr. At. Nauki i Tekhn., Ser. Jad. Konst. (2) (1985) 10
(EXFOR A0270.)

10B (3He, np) 11C

/LANDOLT-BOERNSTEIN 1973/
/CHAUDHRI 1982/

10B (3He, p) 12C

A /BELL 1972/
A /BELL 1972a/
A /KUAN 1964/
A /PATTERSON 1966/
A /SCHIFFER 1956/

10B (3He, paa) A

A /BELL 1972a/
A /PATTERSON 1965/

10B (3He, d) 11C

A /BELL 1972a/
/CHAUDHRI 1982/
/HAHN 1967/

10B (3He, t) 10C

A /EXFOR/
A /NUESSLIN 1970/
/OSGOOD 1964/ (EXFOR P0084.002)

10B (3He, 3He) 10B

A /BUFFA 1972/
A /DUGGAN 1970/
A /NUESSLIN 1970/
A /PATTERSON 1967/
A /SQUIER 1968/

10B (3He, 6Li) 7Be

/EXFOR/

Abramovich, Vopr. At. Nauki i Tekhn., Ser. Jad. Konst. (5)(1982) 21
(EXFOR A0165.)

10B (a , g) 14N

A /BONNER 1956/
A /GALLMANN 1969/

10B (a , n) 13N

/JARMIE 1956/
/EXFOR/

/BONNER 1956/
/GIBBONS 1959/ (EXFOR P0001.005)

J Shire et al., Phil.Mag. 44 (1953) 1197

10B (a , p) 13C

/JARMIE 1956/

/BONNER 1956/
A /GALLMANN 1969/

J Shire et al., Phil.Mag. 44 (1953) 1197

10B (a , d) 12C

/JARMIE 1956/

J Shire et al., Phil.Mag. 44 (1953) 1197

10B (a , a) 10B

A /DAVID 1972/
A /GALLMANN 1969/
A /MO 1973/

11B (p , x)

A Hale et al., LASL-5546 Progress Rep. 6 (1973)
A Davidson et al., CALTECH Rep. LAP-165 (1978)

11B (p , g) 12C

/JARMIE 1956/
/FOWLER 1967/
/FOWLER 1975/

A /ANDERSON 1974/
/BECKMAN 1953/
/COLLINS 1982/
/CRAIG 1956/
AJ /HUUS 1953/ (JARMIE 1956)
/LAFFERTY 1981/
/SEGEL 1961/

A /SEGEL 1965/
 /TAUSSIG 1977/

 Anghinolfi, et al., Nucl.Phys.A, Vol.339 (1983) 66
 Fitzpatrick, et al., Triangle U., A-TNL-80 (1981)
 H Kicinska,Habior, et al., Z.Physik A, Vol.322 (1985) 611
 H Ramavataram,S., Nuovo Cim.A, Vol.85 (1985) 280

11B (p , n) 11C

/JARMIE 1956/
 /LANDOLT-BOERNSTEIN 1973/
 /EXFOR/
 /ECPL/
 /FOWLER 1975/
 /HOWERTON 1979/

/ANDERS 1981/
 /ANDERSON 1964/
 /CHAUDHRI 1982/
 /FURUKAWA 1960/ (EXFOR P0045.002)
 A /GIBBONS 1959/ (EXFOR P0001.003)
 /GORDON 1981/
 J /HINTZ 1952/ (EXFOR B0076.007)
 /HOEHN 1981/
 /RAMAVATARAM 1982/
 /SCHELIN 1985/
 A /SEGEL 1965/
 /TAUSSIG 1977/

J Bair et al., Phys.Rev. 100 (1955) 21
 J Marion et al., Phys.Rev. 100 (1955) 91
 Bair, et al., Int.J.Appl.Rad.Isotopes, Vol.32, (1981) 389
 J Blaser et al., Helv.Phys.Acta 24 (1951) 465
 Byrd, et al., DOE-NDC-24 (1981) 177
 H Miley, BNL-NCS-51363 (1981)
 Murphy, et al., Triangle Univ., A-TNL-80
 H Grimes,S.M., et al., Phys.Rev.C, Vol.31 (1985) 447
 H Kuzmenko,V.A., et al., J.Radioanal.Nucl.Chem., Vol.89 (1985) 447
 H Ramavataram,S., Nuovo Cim.A, Vol.85 (1985) 280

11B (p , p) 11B

/JARMIE 1956/

 /BOERCHERS 1983/
 /DEARNALEY 1957/
 /HOEHN 1981/
 AJ /HUUS 1953/
 /RAMAVATARAM 1983/
 /SEGEL 1961/
 A /SEGEL 1965/
 A /SYMONS 1963/
 /TAUTFEST 1956/

H Ramavataram,S., Nuovo Cim.A, Vol.85 (1985) 280

11B (p , aa) A

/JARMIE 1956/
/MILEY 1974/
/EXFOR/
/ECPL/
/FOWLER 1967/
/FOWLER 1975/
/MC NALLY 1979/
/HOWERTON 1979/

- A /ANDERSON 1974/
/ARNUSH 1980/
/BECKMAN 1953/
/BOERCHERS 1983/
/BUCK 1983/
/DAVIDSON 1979/
/DEARNALEY 1957/
A /DEHNHARD 1965/
/GORDON 1981/
/HOEHN 1981/
/MOREAU 1977/
/SEGEL 1961/
A /SEGEL 1965/
A /SYMONS 1963/
/TOMBRELLO 1975/
/TOMBRELLO 1977/

Hale, priv.comm. (1979) (EXFOR D0017.002)

11B (d , g) 13C

- A /WELLER 1973/

11B (d , n) 12C

/JARMIE 1956/
/ECPL/
/HOWERTON 1979/

- A /ALMOND 1965/
A /AMES 1958/
/BURKE 1954/
A /DIN 1967/
/KUAN 1964/
A /THORNTON 1972/

J Marion et al., Phys.Rev. 100 (1955) 847
H Miley, BNL-NCS-51363 (1981)

11B (d , nn) 11C

/LANDOLT-BOERNSTEIN 1973/
/EXFOR/

/ANDERS 1981/
/CHAUDHRI 1982/

Guzhovskij, Vopr. At. Nauki i Tekhn., Ser. Jad. Konst. (2) (1984) 55
(EXFOR A0166.)

H Brooke et al., South.U., S.Africa, SUNI-65 (1980) 17

11B (d , p) 12B

/JARMIE 1956/
/LANDOLT-BOERNSTEIN 1973/
/EXFOR/
/ECPL/
/HOWERTON 1979/

A /BUECHNER 1950/
A /CHASE 1968/
A /ELKIND 1953/
A /FORTUNE 1969/
A /KAVANAGH 1958/
A /OLNESS 1968/
A /WILLIAMS 1966/

Guzhovskij, IZV. AKAD. NAUK SSSR, Ser. Fiz. 49 (1985) 917
(EXFOR A0167.)

J Hudspeth, Swann, Phys. Rev. 76 (1949) 1150
J Jelley, Thesis, Cambridge Univ. (1950)

11B (d , a) 9Be

A /BREUER 1964/
/COMSAN 1968/
A /FRIEDLAND 1969/

11B (t , x)

H Miley, BNL-NCS-51363 (1981)

11B (t , t) 11B

A /HERLING 1969/
/SILVERSTEIN 1969/

11B (t , a) 10Be

A /CIRIC 1977/
A /SILVERSTEIN 1969/

$^{11}\text{B} (\text{t} , \text{aa}) ^6\text{He}$

/EXFOR/

Abramovich, Vopr. At. Nauki i Tekhn., Ser. Jad. Konst. (2) (1985) 10
(EXFOR A0270.)

$^{11}\text{B} (^3\text{He}, \text{x})$

A Mante, et al., Paper 8B6, Asilomar (1973)
H Miley, BNL-NCS-51363 (1981)

$^{11}\text{B} (^3\text{He}, \text{g}) ^{14}\text{N}$

A /BLACK 1970/

$^{11}\text{B} (^3\text{He}, \text{n}) ^{13}\text{N}$

/LANDOLT-BOERNSTEIN 1973/

/CHAUDHRI 1982/

A /HAHN 1967/

A Brill, Soviet J. Nucl. Phys., vol.1 (1965) 55

$^{11}\text{B} (^3\text{He}, \text{p}) ^{13}\text{C}$

/LANDOLT-BOERNSTEIN 1973/

A Holmgren, et al., Phys. Rev., vol.114, (1959) 1281

$^{11}\text{B} (^3\text{He}, \text{d}) ^{12}\text{C}$

A Holmgren, et al., Phys. Rev., vol.114, (1959) 1281

$^{11}\text{B} (^3\text{He}, \text{t}) ^{11}\text{C}$

/CHAUDHRI 1982/

A /HAHN 1967/

/NUESSLIN 1970/

A Brill, Soviet J. Nucl. Phys., vol.1 (1965) 55

$^{11}\text{B} (^3\text{He}, ^3\text{He}) ^{11}\text{B}$

/BUFFA 1972/

/DUGGAN 1970/

/NUESSLIN 1970/

11B (a , n) 14N

/JARMIE 1956/

/BONNER 1956/
/MANI 1966/
/TAUSSIG 1977/
/VAN DER ZWAN 1975/
AJ /WALKER 1949/

J Shire, Edge, Phil.Mag. 46 (1955) 640

11B (a , p) 14C

/EXFOR/

/DAYRAS 1976/
/HOU 1978/ (EXFOR B0133.002)
/LEE 1959/
/MANI 1963/
/RAMIREZ 1972/

11B (a , a) 11B

/RAMIREZ 1972/
/OTT 1972/

11B (11B, x) X

/DESCOUEVEMONT 1982/
/HIGH 1976/
/NORBECK 1980/
/RYAN 1978/

11B (11B, 11B) 11B

/GUENTHER 1967/

References for major data compilations, systematic evaluations and bibliographies

/AJZENBERG-SELOVE 1959/	/HOLDEN 1982/
/AJZENBERG-SELOVE 1968/	/HOLDEN 1984/
/AJZENBERG-SELOVE 1970/	/HOLDEN 1986/
/AJZENBERG-SELOVE 1976/	/HOWERTON 1979/
/ARNUSH 1980/	/HOWERTON 1986/
/CHANNON 1983a/	/JARMIE 1956/
/ECPL/	/LANDOLT 1973/
/EXFOR/	/MC NALLY 1979/
/FOWLER 1967/	/MILEY 1974/
/FOWLER 1975/	/PERKINS 1981/
/GREENE 1967/	/PNESD/
/HOLDEN 1980/	/SHUY 1979/

6. REFERENCES

(alphabetic,
available at AEP)

6.1 Original Data Sources

/ALMOND 1965/

Almond,P.R., Risser,J.R.,
Differential Cross Sections at 0 Deg. and Angular
Distributions of Resolved Neutrons from $B^{11} + d$,
Nuclear Physics, Vol.72 (1965) 436-448

/AMES 1958/

Ames,O., Owen,G.E.,
Angular Distributions of the $B^{11}(d,n)Cl^{12}$ First Excited State
Neutrons,
Phys.Rev., Vol.109, No.5 (1958) 1639-1641

/ANDERS 1981/

Anders,B., Herges,P., Scobel,W.,
Excitation Functions of Nuclear Reactions Producing Cl^{11} ,
Z.Phys.A - Atoms and Nuclei, Vol.301 (1981) 353-361

/ANDERSON 1964/

Anderson,J.D., et al.,
Phys.Rev., Vol.136 (1964) B118

/ANDERSON 1974/

Anderson,B.D., et al.,
A New Determination of the Partial Widths of the 16.11 MeV
State in Cl^{12} ,
Nucl.Phys.A, Vol.233 (1974) 286-296

/ANTTILA 1981/

Anttila,A., Haenninen,R., Raisanen,J.,
Proton-induced thick target gamma ray yields for the
elemental analysis of the Z=3-9, 11-21 elements,
Journal of Radioanalytical Chemistry, Vol.62 (1981) 293-306

/ARENA 1972/

Arena,N., et al.,
Absolute Differential Cross-Section of the $Be^{9}(d,p)Be^{10}$ and
 $Be^{10}(d,p)B^{11}$ Reactions at Deuteron Energy $E_d < 2.5$ MeV,
Lettere al Nuovo Cimento, Vol.5, No.13 (1972) 879-882

/ASSIMAKOPOULOS 1968/

Assimakopoulos,P.A., Gangas,N.H.,
The $B^{10} + d \rightarrow \alpha + \alpha + \alpha$ Reaction,
Nucl.Phys.A, Vol.108 (1968) 497-507

/BACH 1955/

Bach, Livesey,
Phil.Mag. 46 (1955) 824
(not avail, data from /JARMIE 1956/)

/BAGGETT 1952/

Baggett,L.M., Bame,S.J.,
The Disintegration of Lithium by Deuteron Bombardment,
Phys.Rev., Vol.85, No.3 (1952) 434

/BECKER 1960/

Becker,R.L.,

Angular Distributions of $B^{10}(d,a)Be^8$ Reactions from 0.6 to 1.5 MeV,
Phys.Rev., Vol.119, No.3 (1960) 1076-1079

/BECKMAN 1953/

Beckman,O., Huus,T., Zupancic,C.,

Excitation Curves for a Particles from B^{11} Bombarded with Protons,
Phys.Rev., Vol.91, No.3 (1953) 606-609

/BELL 1972/

Bell,R.A.I., Graham,I.G., Thompson,J.V.,

Cross Sections of $B^{10}(He^3,g)N^{13}$ and $B^{10}(He^3,pg)C^{12}$ Reactions,
Nucl.Phys.A, Vol.179 (1972) 408-416

/BELL 1972a/

Bell,R.A.I., et al.,

$B^{10}(He^3,\text{particle})$ Cross Sections and the 26, 28 and 32 MeV States of N^{13} ,
Nucl.Phys.A, Vol.193 (1972) 385-400

/BLACK 1970/

Black,J.L., et al.,

A Study of the Reaction $B^{11}(He^3,g0)N^{14}$ in the Energy Range $E(He^3)=0.9-2.6$ MeV,
Nucl.Phys.A, Vol.153 (1970) 233-243

/BLACK 1970a/

Black,J.L., Caelli,W.J.,

Systematic Search for the Lowest T=2 State of C^{12} Using Deuteron- and He3-Induced Reactions,
Phys.Rev.Letters, Vol.25, No.13 (1970) 877-881

/BONDARENKO 1982/

Bondarenko,Yu.I., Rudenko,V.S.,

Use of Deuterons with 3 MeV Energy in Activation Analysis,
Soviet Atom Energy, vol.52, (1982) 193-194

/BONNER 1956/

Bonner,T.W., et al.,

Neutrons and Gamma Rays from the Alpha-Particle Bombardment of Be^9 , B^{10} , B^{11} , C^{13} , and O^{18} ,

Phys.Rev., Vol.102, No.5 (1956) 1348-1354

/BOERCHERS 1983/

Boerchers,F., et al.,

Resonant Charged Particle Emission from $^{11}B+p$ and ^{12}C States at $E_{\gamma}=20-23$ MeV,

Nuclear Physics A, Vol.405 (1983) 141

/BORELLI 1970/

Borelli,F., Little,R., Rego,A.,

Experimental Investigation of the Elastic Scattering of Protons on ^{10}B ,
Fizika, Vol.2 (1970) 19-26

/BREUER 1964/
Breuer, G.,
Untersuchungen von (d,p)- und (d-a)-Reaktionen an ^{10}B und ^{11}B ,
Zeitschrift fuer Physik, Vol.178 (1964) 268-286

/BROWN 1951/
Brown, et al.,
Phys. Rev. 82 (1951) 159
(not avail, data from /JARMIE 1956/)

/BROWN 1985/
Brown, R.E., Jarmie, N.,
Hydrogen fusion energy reactions.
Radiation Effects, Vol.92 (1986) 45; Proc. Intern. Conf. Nuclear
Data for Basic and Applied Science, Santa Fe, NM, 13.-17.5.1985
see also: Rep. Los Alamos, LA-UR-85-1677 (1985)

/BRUNELLI 1978/
Brunelli, B.,
An Empirical Formular for the (D,T) Reactivity with
Applications to Fusion Reactor Dynamics,
78.11/p (1978)

/BUCK 1983/
Buck, W., et al.,
Alpha-Cluster Break-Up and Reaction Mechanism in (p,a)
Reactions on Light Nuclei,
Nucl.Phys.A, Vol.398 (1983) 189-202

/BUECHNER 1950/
Buechner, W.W., et al.,
Proton Groups from the $\text{B}^{11}(\text{d},\text{p})\text{B}^{12}$ Reaction,
Phys. Rev., Vol.79, No.2 (1950) 262-265

/BUFFA 1972/
Buffa, A.J., Brussel, M.K.,
Elastic Scattering of He^3 from Be^9 , B^{10} , B^{11} , Mg^{24} ,
 Mg^{25} , Mg^{26} and Al^{27} ,
Nucl.Phys.A, Vol.195 (1972) 545-558

/BURCHAM 1950/
Burcham, Freeman,
Phil.Mag. 41 (1950) 337
(not avail, data from /JARMIE 1956/)

/BURKE 1954/
Burke, W.H., Risser, J.R., Phillips, G.C.,
Angular Distributions and Excitation Curves for the
 $\text{B}^{10}(\text{d},\text{p})\text{B}^{11}$ and the $\text{B}^{10}(\text{d},\text{n})$ and $\text{B}^{11}(\text{d},\text{n})$ Reactions below 2MeV
Bombarding Energy,
Phys. Rev., Vol.93, No.1 (1954) 188-192

/BUSCH 1974/
Busch, C.E., et al.,
The Cross Section and Vector Analyzing Power for the Elastic
Scattering of 15.0 MeV Deuterons from B^{10} , C^{12} , C^{13} , N^{14} , O^{16} ,
Nucl.Phys.A, Vol.223 (1974) 183-194

/BUSS 1968/

Buss, W., DelBianco, W., Waffler, H., Ziegler, B.,
Deuteron Capture in ^3He ;
Nucl.Phys.A, Vol.112 (1968) 47
(paper not avail., data from EXFOR C0027.)

/CECIL 1981/

Cecil, F.E., Fahlsing, R.F., Nelson, R.A.,
Low Energy (d,ng) and (d,p) Reactions on Li^6 , Be^9 , and B^{10} ,
Bull.APS, Vol.26 (1981) 579

/CECIL 1982/

Cecil, F.E., Fahlsing, R.F., Nelson, R.A.,
Total Cross-Section Measurements for the Production of
Nuclear Rays from Light Nuclei by Low-Energy Deuterons,
Nucl.Phys.A, Vol.376 (1982) 379-388

/CHANNON 1983/

Channon, S.R.,
A Simple Fit for the $\text{Li}^6(\text{p},\text{He}^3)\text{He}^4$ Total Cross-Section,
AEL-83-08 (1983)

/CHASE 1962/

Chase, L.F., et al.,
Endothermic Deuterons Stripping Reactions. III. The
 $\text{Cl}^{14}(\text{d},\text{pg})\text{Cl}^{15}$ and $\text{Li}^7(\text{d},\text{pg})\text{Li}^8$ Reactions,
Physic.Rev., Vol.127, No.3 (1962) 859

/CHASE 1968/

Chase, L.F., et al.,
Spin Assignments of the B^{12} 0.95-, 1.67-, and 2.62-MeV Levels,
Phys.Rev., Vol.166, No.4 (1968) 997-1003

/CHAUDHRI 1982/

Chaudhri, M.A.,
Production Yields of Cl^{11} , N^{13} , O^{15} , and F^{18} , especially with
smaller accelerators,
Journal of Labelled Compounds and Radiopharmaceuticals,
Vol.XIX, No.11-12 (1982) 1336

/CIRIC 1977/

Ciric, B., Stepancic, B., Stanojevic, D., Zakula, R.,
The Reactions (t,a) on B^{10} and B^{11} Nuclei,
Fizika, Vol.9, suppl.1, (1977) 39-40

/COLLINS 1982/

Collins, M.T., et al.,
Corrections to the $\text{B}^{11}(\text{p},\text{g}\gamma)\text{Cl}^{12}$ Cross Section and its
Implications,
Phys.Rev.C, Vol.26, No.2 (1982) 332-338

/COMSAN 1968/

Comsan, M.N.H., et al.,
Studies of the (d,a) reaction on the B^{10} and B^{11} nuclei in
the deuteron energy range (0.8 to 2.5 MeV)
Atomkernenergie/Kerntechnik, Vol.13, (1968) 415-419

/CRAIG 1956/

Craig, D.S., Cross, W.G., Jarvis, R.G.,
Angular Distribution of 16.1-MeV Gamma Rays from the 163-keV
Resonance in the Reaction $\text{B}^{11}(\text{p},\text{g})\text{Cl}^{12}$,
Phys.Rev., Vol.103, No.5 (1956), 1414-1417

/DAVID 1972/
David,P., et al.,
Elastic Scattering of α -Particles on B10 for $E(\alpha)=5-30$ MeV,
Nucl.Phys.A, Vol.182 (1972) 234-246

/DAVIDSON 1979/
Davidson,J.M., et al.,
Low Energy Cross Sections for B11(p,3a),
Nucl.Phys.A, Vol.315 (1979) 253-268

/DAY 1954/
Day, Huus,
Phys.Rev. 95 (1954) 1003
(not avail, data from /JARMIE 1956/)

/DAYRAS 1976/
Dayras,R.A., Switkowski,Z.E., Tombrello,T.A.,
C14 Production by the Reaction B11(a,p)C14,
Nucl.Phys.A, Vol.261 (1976) 365-372

/DEARNALEY 1957/
Dearnaley,G., et al.,
Study of the B11 + p Reactions,
Phys.Rev., Vol.108, No.3 (1957) 743-753

/DEHNHARD 1965/
Dehnhard,D.,
Direct Three-Body Decay C12 \rightarrow 3a in the Reaction B11(p,a)2a
at the 163 keV Resonance,
Rev.Mod.Phys., Vol.37, No.3 (1965) 450-452

/DESCOUEVEMONT 1982/
Descouvemont,P., Baye,D., Heenen,P.-H.,
A Barrier-Penetration Model for Heavy-Ion Fusion, Valid at
all Energies,
Z.Phys.A - Atoms and Nuclei, Vol.306, (1982) 79-88

/DIN 1967/
Din,G.U., Nagarajan,M.A., Pollard,R.,
The Study of B10(d,n)C11 and B11(d,n)C12 Reactions,
Nucl.Phys.A, Vol.93 (1967) 190-200

/DODDER 1976/
Dodder,D.C., Hale,G.M., Jarmie,N., Witte,K.,
Tables of Phase Shifts and Experimental Observables for
p-4He Elastic Scattering,
Los Alamos Report LA-6389-MS (1976)

/DODDER 1977/
Dodder,D.C., et al.,
Elastic Scattering of Protons by Helium-4: New Experiments and
Analysis,
Phys.Rev.C, Vol.15,2 (1977) 518

/DROSG 1977/
Drosg,M.,
On the Energy Dependence of the Total Cross Section of the
Reaction H2(d,n)He3,
Nucl.Sci.Engin., Vol.65, No.3 (1977)

/DUGGAN 1970/

Duggan,J.L., et al.,
He3 Elastic Scattering from B10 and C14 in the Range 4-18 MeV,
Nucl.Phys.A, Vol.151 (1970) 107-119

/DWARAKANATH 1971/

Dwarakanath,M.R., Winkler,H.,
He3(He3,2p)He4 Total Cross Section Measurements Below the
Coulomb Barrier,
Phys.Rev.C, Vol.4, No.5 (1971) 1532

/DWARAKANATH 1974/

Dwarakanath,M.R.,
He3(He3,2p)He4 and the Termination of the Proton-Proton Chain,
Phys.Rev.C, Vol.9, No.3 (1974) 805

/EARWAKER 1963/

Earwaker,L.G., Jenkin,J.G., Titterton,E.W.,
The B10(p,n)Cl0 Excitation Function from Threshold to 10.6MeV,
Nucl.Phys., Vol.42 (1963) 521-528

/ELKIND 1953/

Elkind,M.M.,
Excited States of B11 and B12 from the Reactions B10(d,p)B11
and B11(d,p)B12,
Phys.Rev., Vol.92, No.1 (1953) 127-133

/ELWYN 1971/

Elwyn,A.J., Monahan,J.E., Schiffer,J.P.,
Enhanced Reaction Cross-Section of Possible CTR Interest:
Be9+p,
Nucl.Fusion, Vol.11 (1971) 551

/ELWYN 1977/

Elwyn,A.J., Monahan,J.E., Serduke,F.J.D.,
Thermonuclear Reaction Rate Parameters for d + Li6 Reactions,
Nucl.Sci.Eng., Vol.63, No.3 (1977) 343

/ELWYN 1977a/

Elwyn,A.J., et al.,
Absolute Cross Sections for Deuteron-Induced Reactions on
Li6 at Energies Below 1 MeV,
Phys.Rev.C, Vol.16, (1977) 1744

/ELWYN 1979/

Elwyn,A.J., et al.,
Cross Sections for the Li6(p, He3)He4 Reaction at Energies
between 0.1 and 3.0 MeV,
Phys.Rev.C, Vol.20, No.6 (1979) 1984

/ENDT 1952/

Endt,P.M., et al.,
Angular Distributions of Four Proton Groups from the
B10(d,p)B11 Reaction,
Physica, Vol.XVIII, No.6-7 (1952) 423-428

/FILLIPONE 1982/

Fillipone, B.W., Elwin, A.J., Ray, W., Koetke, D.D.,
Absolute Cross Sections for Li-7 (d,p) Li-8 and Solar
Neutrino Capture Rates.
Phys. Rev. C., Vol. 25 (1982) 2174
(not avail.; data from EXFOR A0157.002)

/FORTUNE 1969/

Fortune, H.T., Vincent, C.M.,
Distorted-Wave Analysis of the B11(d,p) Reaction Leading to
the Lowest Unbound Level in B12,
Phys. Rev., Vol. 185, No. 4 (1969), 1401-1403

/FOWLER 1949/

Fowler, et al.,
Phys. Rev., Vol. 76 (1949) 1767
(Data from JARMIE 1956; paper not avail.)

/FRIEDLAND 1968/

Friedland, E., Verleger, H.,
Die Reaktion B10(d,a)Be8 im Energiebereich von 0.5 bis 2 MeV,
Zeitschrift fuer Physik, Vol. 211 (1968) 373-379

/FRIEDLAND 1969/

Friedland, E., Verleger, H.,
Die Reaktion B11(d,a)Be9 im Energiebereich von 0.7 bis 2.2 MeV,
Zeitschrift fuer Physik, vol. 222 (1969) 138-143

/FURUKAWA 1960/

Furukawa, M., et al.,
Excitation Function for the Reaction B11(p,n)Cl1 up to
 $E(p)=15$ MeV and Energy Levels of Cl2,
Journ. of the Phys. Soc. of Japan, Vol. 15, No. 12 (1960) 2167

/GALLMANN 1969/

Gallmann, A., Hibou, F., Fintz, P.,
Resonances dans la Reaction B10+a par l'Etude des
Rayonnements g Detectes avec un Semi-Conducteur Ge(Li),
Nucl. Phys. A, Vol. 123 (1969) 27-32

/GERARDIN 1971/

Gerardin, C., Seltz, R., Magnac-Valette, D.,
Etude Experimentale du premier Etat Excite de Be9,
Nucl. Phys. A, Vol. 169 (1971) 521-539

/GIBBONS 1959/

Gibbons, J.H., Macklin, R.L.,
Total Neutron Yields from Light Elements under Proton and
Alpha Bombardment,
Phys. Rev., Vol. 114, No. 2 (1959) 571-580

/GOOD 1954/

Good, W.M., Kunz, W.E., Moak, C.D.,
The He3 + He3 Reactions,
Phys. Rev., Vol. 94, No. 1 (1954) 87

/GORDON 1981/

Gordon, J.D., et al.,
Evaluation of Proton-Based Fuels for Fusion Power Plants,
Report TRW-FRE-007 (1981)

/GOULD 1976/

Gould, C.R.,
Cross Section Measurements for Charged Particle Fusion
Reactors: The ${}^6\text{Li}(\text{He}, \text{p}){}^2\text{a}$ Reaction,
Nucl. Sci. Eng., Vol. 60 (1976) 477

/GOVOROV 1962/

Govorov, A.M., Li Ca En, Osetinskij, G.M., Salackij, V.I.,
Total Cross Sections for the T+T Reaction in the
60-1140 keV Range,
ZH.EKSP.TEOR.FIZ., Vol. 42 (1962) 383 (JETP, Vol. 15)
(not avail.; data from EXFOR A0027.)

/GRIFFITHS 1955/

Griffiths, et al.,
Proc. Phys. Soc. A, Vol. 68 (1955) 781
(not avail.; data from JARMIE 1956)

/GUENTHER 1967/

Guenther, G., Bethge, K., Schubert, K.R.,
Elastic Scattering of B11 on B11,
Nucl. Phys. A, Vol. 101 (1967) 288-304

/HAHN 1967/

Hahn, R.L., Ricci, E.,
Interactions of He3 Particles with B, N, Na and Be,
Nucl. Phys. A, Vol. 101 (1967) 353-368

/HALE 1978/

Hale, G.M.,
LA-7722-PR (1978), LA-7596-PR (1978), Priv. Comm. (1979)
(not avail.; data from EXFOR D0019.)

/HARRISON 1960/

Harrison, G.R., Schmidt, G.D., Curtis, C.D.,
Differential and Total Cross Sections of the B10(d,p)B11
Reaction at Low-Deuteron Energies,
Phys. Rev., Vol. 117, No. 2 (1960), 532-535

/HENLEY 1965/

Henley, E.M.,
 ${}^3\text{He}(\text{d}, \text{t}){}^2\text{p}$ Reaction,
Bull. APS, Vol. 10 (1965) 51

/HERLING 1969/

Herling, G.H., Cohen, L., Silverstein, J.D.,
Triton Reactions near 2 MeV: Elastic Scattering,
Phys. Rev., Vol. 178, No. 4 (1969), 1551-1555

/HIGH 1976/

High, M.D., Cujec, B.,
Boron + Boron Sub-Coulomb Energy Total Reaction Cross
Sections,
Phys. Rev. A, Vol. 259 (1976) 513-532

/HINTZ 1952/

Hintz,N.M., Ramsey,N.F.,
Excitation Functions to 100MeV,
Phys.Rev., Vol.88, No.1 (1952), 19-27

/HOEHN 1981/

Hoehn,J., et al.,
Experimental Investigation of the B11+p Reaction and
Analysis in the Frame of the Continuum Shell Model,
J.Phys.G: Nucl.Phys., Vol.7 (1981) 803-814

/HOLLAND 1979/

Holland,R.E., et al.,
Absolut Cross Sections for Three-Body Breakup Reactions
 $\text{Li}^6(\text{d},\text{n}\text{He}^3)\text{He}^4$,
Phys.Rev.C, Vol.19, No.3 (1979) 592

/HOLLAND 1981/

Holland,R.E., et al.,
Nuclear Cross Sections for Light Ions on Li^6 ,
IEEE Trans. Nuclear Science, Vol.NS-28,2 (1981) 1344

/HOLMGREN 1963/

Holmgren,H.D., Cameron,L.M., Johnston,R.L.,
Triton Induced Reactions on B^{10} ,
Nucl.Phys., Vol.48 (1963), 1-21

/HOU 1978/

Hou,W-S., et al.,
Cross Sections for the $\text{B}^{11}(\alpha,\text{p})\text{C}^{14}$ Reaction in the Alpha
Particle Energy Range from 4.4 to 6.7 MeV,
Nucl.Sci.Eng., Vol.66 (1978) 188-192

/HUUS 1953/

Huus,T., Day,R.D.,
The Gamma Radiation from B^{11} Bombarded by Protons,
Phys.Rev., Vol.91, No.3 (1953) 599-605

/JAKOBSON 1965/

Jakobson,M., Manley,J.H., Stokes,R.H.,
 $^3\text{He}+\text{d} \rightarrow \text{T}+2\text{p}$ Reaction,
Bull.APS, Vol.10 (1965) 51

/JARMIE 1981/

Jarmie,N.,
Low-Energy Nuclear Fusion Data and Their Relation to
Magnetic and Laser Fusion,
Nucl.Sci.Eng., Vol.78 (1981) 404

/JARMIE 1984/

Jarmie,N., Brown,R.E., Hardekopf,R.A.,
Fusion-energy reaction $^2\text{H}(\text{t},\text{a})\text{n}$ from $E_t=12.5$ to 117 keV,
Phys.Rev.C, Vol.29,6 (1984) 2031

/JARMIE 1985/

Jarmie,N., Brown,R.E.,
Low-Energy Nuclear Reactions with Hydrogen Isotopes,
Nucl.Instr.Methods B, Vol.10/11 (1985) 405

- /JARMIE 1986/
Jarmie,N.,
Requirements for Charged Particle Reaction Cross Sections
in the D-T, D-D, T-T and D-³He Fuel Cycle,
Proc. AGM on Nucl.Data for Fusion Reactor Technology,
Gaussig/Dresden, GDR, 1.-5.12.1986
(see also LA-UR-86-3705)
- /JARVIS 1950/
Jarvis, et al.,
Phys.Rev., Vol.79 (1950) 929
(not avail., data from /JARMIE 1956/)
- /JENKIN 1964/
Jenkin,J.G., Earwaker,L.G., Titterton,E.W.,
The B₁₀(p,a)Be₇ Reaction between 2 and 11 MeV,
Nucl.Phys., Vo.50 (1964) 516-524
- /KAVANAGH 1958/
Kavanagh,R.W., Barnes,C.A.,
Boron Plus Deuteron Reactions,
Phys.Rev., Vol.112, No.2 (1958), 503-511
- /KAVANAGH 1960/
Kavanagh,R.W.,
Proton Capture in Be₇,
Nucl.Phys., Vol.15 (1960) 411-420
- /KAVANAGH 1960a/
Kavanagh,R.W.,
Protons from Deuteron Bombardment of Be₇,
Nucl.Phys., Vol.18 (1960) 492-501
- /KOZLOV 1962/
Kozlov,B.N.,
Rates of Thermonuclear Reactions,
Atomnaya Energiya, Vol.12,3 (1962) 238
- /KRAUSS 1987/
Krauss,A., Becker,H.W., Trautvetter,H.P., Rolfs,C.,
Astrophysical S-Factor of ³He(³He,2p)⁴He at Solar Energies,
Nucl.Phys., Vol. (1987) to be published
- /KRAUSS 1987a/
Krauss,A., Becker,H.W., Trautvetter,H.P., Rolfs,C.,
Low Energy Fusion Cross Sections of D+D and D+³He Reactions,
Nucl.Phys.A, Vol.465 (1987) 150
- /KUAN 1964/
Kuan,H.-M., et al.,
The 15.1 MeV Gamma-Ray Excitation Functions of the Reactions
B₁₀(He₃,pgl5.1)C₁₂, B₁₁(d,ngl5.1)C₁₂ and C₁₃(He₃,agl5.1)C₁₂,
Nucl.Phys., Vol.60 (1964), 509-517
- /KUEHN 1963/
Kuehn,B., Schlenk,B.,
Winkelverteilungen fuer die Reaktion ³He+T,
Nucl.Phys., Vol.48 (1963) 353

/LAFFERTY 1981/

Lafferty, J.M., Cotanch, S.R.,
Examination of Direct Radiative Capture Formalism,
Nucl.Phys.A, Vol.373 (1982), 363-376

/LATTUADA 1977/

Lattuada, M., et al.,
Search for Quasi-Free Effects in $B^{10}(d,aa)He^4$ and
 $B^{11}(p,aa)He^4$ Reactions at low Energies,
Lettere al Nuovo Cimento, Vol.20, No.6 (1977) 193-200

/LATTUADA 1981/

Lattuada, M., et al.,
Investigation of the Reaction Mechanism in the $B^{11}+p \rightarrow ^3a$
Reaction at 20 MeV,
Il Nuovo Cimento, Vol.62, No.3 (1981) 165-174

/LEE 1959/

Lee, L.L., Schiffer, J.P.,
Analysis of Angular Distributions in the Reaction $B^{11}(a,p)Cl^{14}$,
Phys.Rev., Vol.115, No.1 (1959) 160-165

/LEE 1965/

Lee, L.L., Siemsse, R.H.,
Reaction $B^{10}(d,p)B^{11}$ and the Elastic Scattering of Deuterons
from B^{10} ,
Bull.APS, Vol.10 (1965), 510

/LEGGE 1961/

Legge, G.J.F.,
A Search for Fine Structure in the Reactions $B^{10}(d,a^0)Be^8$
and $B^{10}(d,al)Be^8$,
Nucl.Phys., Vol.26 (1961) 608-615

/LELAND 1965/

Leland, W.T., Brolley, J.E., Rosen, L.,
Differential Cross Sections for He^3-He^3 and He^3-T Elastic
Scattering in the Energy Region 12-25 MeV.
Bull.APS, Vol.10 (1965) 51

/LING 1968/

Ling, S.C., Young, A.M., Blatt, S.L.,
Radiative Capture of He^3 by Li^7 from 3 to 6 MeV,
Nucl.Phys.A, Vol.108 (1968) 221-232

/LING 1971/

Ling, S.C., Blatt, S.L.,
States in B^{10} between 18 and 22 MeV,
Nucl.Phys.A, Vol.174 (1971) 375-384

/LOMBAARD 1969/

Lombaard, J.M., Friedland, E., Verleger, H.,
Elastische Streuung von Deuteronen an B^{10} bei niedrigen
Energien,
Zeitschrift fuer Physik, Vol.219 (1969) 124-130

/LYKASOV 1978/

Lykasov, G.I.,

Cross Sections of Neutron Emission in the P-D and D-D
Collisions at low Energies,

Report Dubna(USSR) JINR-P4-11794 (1978)

(data from EXFOR A0034.002; paper not avail.)

/MACKLIN 1955/

Macklin, R.L., Banta, H.E.,

Phys. Rev., Vol. 97, (1955) 753

(=EXFOR P0131.002; paper not available)

/MACKLIN 1968/

Macklin, R.L., Gibbons, J.H.,

Phys. Rev., Vol. 165, (1968) 1147

(=EXFOR P0117.002; paper not available)

/MANI 1963/

Mani, G.S., Forsyth, P.D., Perry, R.R.,

Levels in N15 from B11(a,p)Cl14 Reaction,

Nucl. Phys., Vol. 44 (1963) 625-632

/MANI 1966/

Mani, G.S., Dutt, G.C.,

Reaction Mechanism for the B11(a,n)N14 Reaction,

Nucl. Phys., Vol. 78 (1966) 613-624

/MARION 1956/

Marion, J.B., Weber, G.,

Compound Nucleus Effects in Deuteron Reactions: B10(d,p)B11

and B10(d,a)Be8,

Phys. Rev., Vol. 103, No. 5 (1956), 1408-1413

/MC CLENAHAN 1975/

McClenahan, C.R., Segel, R.E.,

Cross Sections for the Li7(d,p,)Li8, Li6(He3,n)B8,

Li6(d,a)He4, Li6(d,p)Li7, and Li6(d,n)Be7 Reactions,

Phys. Rev. C, Vol. 11, No. 2 (1975) 370

/MINGAY 1979/

Mingay, D.W.,

Measurement of the Absolute Cross Section for the Reaction

Li7(d,p)Li8 at low Energies,

South Afr. J. Phys., Vol. 2(3) (1979) 107

(=EXFOR D0021.002; paper not available)

/MO 1973/

Mo, T., Weller, H.R.,

Energy Levels of N14 from the Elastic Scattering of Alpha

Particles Particles by B10,

Phys. Rev. C., Vol. 8, No. 3 (1973), 972-977

/MOAK 1953/

Moak, C.D.,

A Study of the 3H+3He Reactions,

Phys. Rev., Vol. 92, 2 (1953) 383

/MOREAU 1977/

Moreau, D.C.,

Potentiality of the Proton-Boron Fuel For Controlled Thermonuclear Fusion,
Nuclear Fusion, Vol.17, 1 (1977) 13

/MUMINOV 1980/

Muminov, A.V., Mukhamedov, S., Vasidov, A.,
Possibilities of proton activation analysis using short-lived
radioisotopes;
Atomnaja Energija, Vol.49(2) (1980) 101
(not avail., data from EXFOR A0085.024)

/NORBECK 1978/

Norbeck, E.,

$^6\text{Li} + ^6\text{Li} \rightarrow 3\text{He}$ Cross Sections and Thermonuclear Fusion
Parameters,
Nucl. Sci. Eng., Vol. 66 (1978) 441

/NORBECK 1980/

Norbeck, E.,

Neutrons from $\text{B}^{11} + \text{B}^{11}$ Compared with other Sources of
Neutrons from an $\text{B}^{11} + p$ Burn,
Rep. U.of Iowa 80-32

/NUESSLIN 1970/

Nuesslin, F., Braun-Munzinger, P.,

Investigation of $(^3\text{He}, ^3\text{He})$ - and $(^3\text{He}, t)$ -Reactions on
 B^{10} , B^{11} and C^{13} ,
Zeitschrift fuer Physik, Vol. 240 (1970) 217-232

/OLNESS 1968/

Olness, J.W., Warburton, E.K.,

Gamma-Ray Decay of the Bound Levels of B^{12} ,
Phys. Rev., Vol. 166, No. 4 (1968), 1004-1011

/OSGOOD 1964/

Osgood, D.R., Patterson, J.R., Titterton, E.W.,

Total Cross Section of the Reaction $\text{B}^{10}(\text{He}^3, t)\text{Cl}^{10}$ between
Threshold and 10.5 MeV,
Phys. Letters, Vol. 10, No. 1 (1964) 75-76

/OTT 1972/

Ott, W.R., Weller, H.R.,

A Study of N^{15} by Means of the $\text{B}^{11}(a, a)\text{B}^{11}$ Reaction,
Nucl. Phys. A, Vol. 198 (1972) 505-514

/OVERLY 1962/

Overly, J.C., Whaling, W.,

Highly Excited States in C^{11} Elastic Scattering of Protons
by B^{10} ,
Phys. Rev., Vol. 128, No. 1 (1962), 315-324

/PARIS 1954/

Paris, C.H., Valckx, F.P.G., Endt, P.M.,

Angular Distribution and Yield of Protons from the
 $\text{B}^{10}(\text{d}, \text{p})\text{B}^{11}$ Reaction (II),
Physica, Vol. XX (1954) 573-584

/PARKER 1966/

Parker,P.D.,

Phys.Rev., Vol.150 (1966) 851

(=EXFOR P0020.002; paper not available)

/PATTERSON 1965/

Patterson,J.R., Poate,J.M., Titterton,E.W.,

A Study of the Reaction $B^{10}(He^3,a)B^{9}$,

Proc.Phys.Soc., Vol.85 (1965) 1085-1092

/PATTERSON 1966/

Patterson,J.R., Poate,J.M., Titterton,E.W.,

States of N₁₃ in the 20-30 MeV Region,

Proc.Phys.Soc., Vol.88 (1966) 641-648

/PATTERSON 1967/

Patterson,et al.,

The Elastic Scattering of He₃ by B₁₀ at 9.8 MeV,

Proc.Phys.Soc., Vol.90 (1967) 577

/PERRY 1955/

Perry,J.E., Bame,S.J.,

Phys.Rev., Vol.99 (1955) 1368

(not avail., data from /JARMIE 1956/)

/PETERSON 1963/

Peterson,R.W., Glass,N.W.,

Some N₁₂ and B₁₂ Beta-Decay Measurements,

Phys.Rev., Vol.130, No.1 (1963), 292-298

/POORE 1967/

Poore,R.V., et al.,

Differential Cross Sections of C₁₂(d,p)C₁₃ and B₁₀(d,p)B₁₁ below E(d)=3.0 MeV,

Nucl.Phys.A, Vol.92 (1967) 97-122

/PRITZKER 1976/

Pritzker,A.,

Cross Section Documentation Report 2: 3He;

Report FEC-02-76 (1976)

/PURSER 1963/

Purser,K.H., Wildenthal,B.H.,

The B₁₀(d,a)Be₈ Reaction and the 2.94 MeV State in Be₈,

Nucl.Phys., Vol.44 (1963) 22-33

/RAMAVATARAM 1982/

Ramavataram,S.,

The Multi-Configuration Shell Model in the Continuum and the Resonant States in C₁₂,

J.Physics G: Nuclear Phys., Vol.8 (1982) 949-953

/RAMAVATARAM 1983/

Ramavataram,S.,

The B₁₁(p,p')B₁₁ Reaction: An Extended Coupled-Channel Treatment,

Z.Phys.A - Atoms and Nuclei, Vol.310 (1983) 87-90

/RAMIREZ 1972/

Ramirez,J.J., Blue,R.A., Weller,H.R.,
Multilevel Multichannel Study of the Structure of N15 from
12- to 14-MeV Excitation Energy,
Phys.Rev.C, Vol.5, No.1 (1972) 17-29

/RENDIC 1971/

Rendic,D., Miljanic,D., Phillips,G.C.,
A Study of the B10(d,a)Be8 Reaction,
Bull.APS, Vol.16 (1971) 1153

/RUBY 1977/

Ruby,L., Pyle,R.V., Wong,Y.C.,
Cross Section for the Production of Beryllium-7 from
Lithium6-Lithium6 Reactions,
Nucl.Sci.Eng., Vol.63, (1977) 197

/RYAN 1978/

Ryan,C.G., Switkowski,Z.E.,
Fusion of Heavy Ions Below the Barrier,
Proc.Int.Conf. Nuclear Interactions, Canberra, Australia
(1978), Lecture Notes in Physics 92, Springer

/SCHELIN 1985/

Schelin, H.R., et al.,
The 10,11B(p,n)10,11C reactions between Ep=13.7 and 14.7MeV,
Nucl.Sci.Eng., Vol.89, (1985) 87-98

/SCHIFFER 1956/

Schiffer,J.P., et al.,
Study of the Reaction Mechanism for (He3,p) Reactions with
Li6, B10, and C13,
Phys.Rev., Vol.104, No.4 (1956), 1064-1068

/SCHILLING 1976/

Schilling,A.E., Mangelson,N.F., Nielson,K.K.,
An Accurate Measurement of the Li7(d,p)Li8 Excitation
Function from E(d)=0.6 MeV to 2.0 MeV,
Nucl.Phys.A, Vol.263 (1976) 389-396

/SEGEL 1961/

Segel,R.E., Bina,M.J.,
Partial Widths of the 16.11-MeV State in C12,
Phys.Rev., Vol.124, No.3 (1961) 814-817

/SEGEL 1965/

Segel,R.E., Hanna,S.S., Allas,R.G.,
States in C12 between 16.4 and 19.6 MeV,
Phys.Rev., Vol.139, No.4B (1965) 818-831

/SEGEL 1966/

Segel,R.E., et al.,
Gamma Rays from B10+p; Decay Schemes and Excitation
Functions,
Phys.Rev., Vol.145, No.3 (1966), 736-745

/SELLSCHOP 1960/

Sellschop, J.P.F.,

Stripping Mechanism for Reactions with Small Q Value:

The Reaction $\text{Li}^7(\text{d},\text{p})\text{Li}^8$,

Phys. Rev., Vol. 119, No. 1 (1960) 251

/SEROV 1977/

Serov, V.I., Abramovich, S.N., Morkin, L.A.,

Total Cross Section Measurement for $\text{T}(\text{T},2\text{N})\text{He-4}$ Reaction

at Low Energies,

Atomnaya Energiya, Vol. 42 (1977) 59

(not avail.; data from EXFOR A0007.)

/SILVERSTEIN 1969/

Silverstein, J.D., Herling, G.H.,

Triton Reactions near 2 MeV: $\text{B}^11(\text{t},\text{a})\text{Be}^{10}$,

Phys. Rev., Vol. 181, No. 4 (1969), 1512-1517

/SINGH 1970/

Singh, J.,

Resonances in the Interaction of He^3 Particles with C^{12} and B^{10} ,

Nucl. Phys. A, Vol. 155 (1970), 453-464

/SLOBODRIAN 1972/

Slobodrian, M.L.V.L., et al.,

The $\text{He}^3(\text{He}^3,\text{a})^2\text{p}$ Reaction at 9.11, 7.88 and 6.9 MeV,

Nucl. Phys. A, Vol. 194 (1972) 577-588

/SMITH 1963/

Smith, D.B., Jarmie, N., Lockett, A.M.,

$^3\text{He}+\text{T}$ Reactions,

Phys. Rev., Vol. 129 (1963) 785

/SQUIER 1968/

Squier, G.T.A., et al.,

Elastic and Inelastic Scattering of He^3 Particles from B^{10} at 32 MeV,

Nucl. Phys. A, Vol. 119 (1968), 369-378

/STEWART 1975/

Stewart, L., Hale, G.M.,

The $\text{T}(\text{d},\text{n})^4\text{He}$ and $\text{T}(\text{t},2\text{n})$ Cross Sections at Low Energies,

Los Alamos Report LA-5828-MS (1975)

/STOCKER 1974/

Stocker, H., Browne, C.P.,

Isobaric-Spin Violation in the Reaction $\text{B}^{10}(\text{d},\text{d}')\text{B}^{10}$,

Phys. Rev. C, Vol. 9, No. 1 (1974), 102-115

/SYMONS 1963/

Symons, G.D., Treacy, P.B.,

The $\text{B}^11(\text{p},\text{a})\text{Be}^8$ Reaction and C^{12} States between 15 and 20 MeV,

Nucl. Phys., Vol. 46 (1963) 93-107

/SZABO 1972/

Szabo, J., Csikai, J., Varnagy, M.,

Low-Energy Cross Sections for $\text{B}^{10}(\text{p},\text{a})\text{Be}^7$,

Nucl. Phys. A, Vol. 195 (1972) 527-533

/TAUSSIG 1977/

Taussig, R.T., (principal investigator),
High thermal efficiency, radiation based advanced fusion
reactors,
EPRI ER-544 (1977)

/TAUTFEST 1956/

Tautfest, G.W., Rubin, S.,
Elastic Scattering of Protons from B11 and N14,
Phys. Rev., Vol. 103, No. 1 (1956) 196-199

/THEUS 1966/

Theus, R.B., McGarry, W.I., Beach, L.A.,
Angular Distributions and Cross-Section Ratios for the
Reactions H2(d,n)He3 and H2(d,p)H2 below 500keV,
Nucl. Phys., Vol. 80 (1966) 273-288

/THORNTON 1972/

Thornton, G., Joy, T., Calvert, J.M.,
Spectroscopic Information from B10,11(d,ng) Angular
Correlation Measurements at 0 Deg.,
Nucl. Phys. A, Vol. 198 (1972) 397-416

/TOMBRELLO 1975/

Tombrello, T.A.,
Energy from Charged Particle Reactions among Light Nuclei,
Proc. APS Conference on Nuclear Cross Sections and Technology,
NBS Special Publ., Washington, D.C. (1975) 659

/TOMBRELLO 1977/

Tombrello, T.A.,
Recent B11(p,3a) Cross Section Measurements,
EPRI ER-536-SR (1977)

/VAN DER ZWAN 1975/

Van Der Zwan, L., Geiger, K.W.,
The B11(a,n)N14 Cross Section for Alpha-Energies up to 8 MeV,
Nucl. Phys. A, Vol. 246 (1975) 93-103

/VENTURA 1974/

Ventura, E., et al.,
Resonant Structure Observed in the $^3\text{He}(^3\text{He},g)^6\text{Be}$
Capture Reaction,
Nuclear Physics A, Vol. 219 (1974) 157

/WALKER 1949/

Walker, R.L.,
The (a,n) Cross Section of Boron,
Phys. Rev., Vol. 76, No. 2 (1949) 244-247

/WELLER 1973/

Weller, H.R., Blue, R.A.,
The C13(d,g0)N15 and the B11(d,g0)C13 Cross Sections in the
Region of the Giant Dipole Resonance,
Nucl. Phys. A, Vol. 211 (1973) 221-231

/WIESCHER 1982/

Wiescher, M., et al.,
The B10(p,g)C11 Reaction,
Bull. APS, Vol. 27, No. 4 (1982)

/WIESCHER 1983/

Wiescher,M., et al.,
Cl1 Level Structure via the B10(p,g) Reaction,
Phys.Rev.C, Vol.28, No.4 (1983), 1431-1442

/WIEZOREK 1977/

Wiezorek,C., Kraewinkel,H., Santo,R., Wallwk,L.,
Study of the Be-7(p,g) Reaction.
Z.Physik,A, vol.282, (1977) 121
(=EXFOR B0091.002; paper not available)

/WILLIAMS 1966/

Williams,H.H., et al.,
Excitation Energies of Bound States of O17 and B12,
Phys.Rev., Vol.144, No.3 (1966), 801-803

/WOHLLEBEN 1969/

Wohleben,K., Schuster,E.,
Der totale Wirkungsquerschnitt der Reaktionen B10(d,n)Cl1,
N14(d,n)O15, O16(d,n)F17 bis 3,2 MeV
Radiochimica Acta, Vol.12(2) (1969) 75-79

/YOUN 1961/

Youn,L.G., et al.,
Investigation of the 3He+3H Reaction,
Sov.Physics JETP, Vol.12,2 (1961) 163

6.2 Major Data Compilations, Systematic Evaluations and Bibliographies

/AJZENBERG-SELOVE 1968/

Ajzenberg-Selove,F., Lauritsen,T.,
Energy Levels of Light Nuclei (VII). A=11-12,
Nucl.Phys. A114 (1968), p.1-142

/ARNUSH 1980/

Arnush,D., Cole,A.J.,
Controlled Fusion Using Multipoles and Neutron Lean Fuels,
TRW-FRE-005 (1980)

/CHANNON 1983a/

Channon,S.R.,
Cross Sections Associated with p-11B Fuel; a Bibliography and
Evaluation,
AEL-83-9 (1983)

/ECPL-82/

ECPL-82: The LLNL Evaluated Charged-Particle Data Library,
Summary of Contents in: Documentation Series IAEA-NDS-56
(1983),
Data received from: IAEA Nuclear Data Section, Vienna,
Austria

/EXFOR/

Exchange Format Nuclear Data Library,
Dokumentation Series IAEA-NDS-1,2,3 (1983),
Data received from: IAEA Nuclear Data Section, Vienna,
Austria

/FOWLER 1967/

Fowler,W.A., Caughlan,G.R., Zimmerman,B.A.,
Thermonuclear Reaction Rates, I,
Ann. Rev. Astron. Astrophysics, Vol.5 (1967) 525

/FOWLER 1975/

Fowler,W.A., Caughlan,G.R., Zimmerman,B.A.,
Thermonuclear Reaction Rates, II,
Ann. Rev. Astron. Astrophysics, Vol.13 (1975) 69

/GREENE 1967/

Greene,S.L.,
Maxwell Averaged Cross Sections for Some Thermonuclear
Reactions on Light Isotopes,
UCRL-70522, (1967), submitted to Nucl.Phys.

/HOLDEN 1980/

Holden,N.E., et al.,
Bibliography of integral charged particle nuclear data,
BNL-NCS-50640, Pt.1, 4th ed. (1980)

/HOLDEN 1982/

Holden,N.E., et al.,
Bibliography of integral charged particle nuclear data
BNL-NCS-50640, 4th ed., suppl.2 (1982)

/HOLDEN 1984/

Holden,N.E., et al.,
Charged Particle Nuclear Data Bibliography
BNL-NCS-51771, 1st ed. (1984)

/HOLDEN 1986/

Holden,N.E., et al.,
Charged Particle Nuclear Data Bibliography
BNL-NCS-51771, 1st ed., suppl.2 (1986)

/HOWERTON 1979/

Howerton,R.J.,
An Integrated System of Production of Neutronics and
Photonics Calculational Constants, Vol.21, Pt.A:
Maxwell-Averaged Reaction Rates for Selected Reactions
between Ions with Atomic Mass <12,
UCRL-50400 Vol.21, Pt.A (1979)

/HOWERTON 1986/

Howerton,R.J., et al.,
Index to the LLNL Evaluated Charged-Particle Library (ECPL),
UCRL-50400, vol.28, (1986)

/JARMIE 1956/

Jarmie,N., Seagrave,J.D.,
Charged Particle Cross Sections,
Los Alamos, LA-2014 (1956)

/LANDOLT 1973/

Hellwege,K.H., Schopper,H., (eds.),
Landolt-Boernstein, Zahlenwerte und Funktionen aus
Naturwissenschaft und Technik,
Gruppe I, Bd.5, Teil b, Springer 1973

/MC NALLY 1979/

McNally, J.R.Jr., Rothe, K.E., Sharp, R.D.,
Fusion Reactivity Graphs and Tables for Charged Particle
Reactions,
ORNL-TM-6914 (1979), (revised 1980)

/MILEY 1974/

Miley, G.H., Towner, H., Ivich, N.,
Fusion Cross Sections and Reactivities,
Report COO-2218-17 (1974)

/PERKINS 1981/

Perkins, S.T., Cullen, D.E.,
Elastic Nuclear Plus Interference Cross Sections for
Light-Charged Particles,
Nucl. Sci. Eng., Vol. 77 (1981) 20-39

/PNESD/

Proton Nuclear Elastic Scattering Data,
IAEA Nuclear Data Section, Vienna, Austria (1984)

/SHUY 1979/

Shuy, G.W., Conn, R.W.,
Charged Particle Cross Section Requirements for Advanced
Fusion Fuel Cycles,
Proc. Int. Conf. on Nuclear Cross Sections for Technology,
Knoxville, TN, 22.-26.10.1979, NBS (1980) p.254