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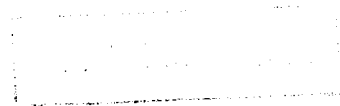
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PHOTONUCLEAR DATA INDEX 1986 - 1990

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July 1992

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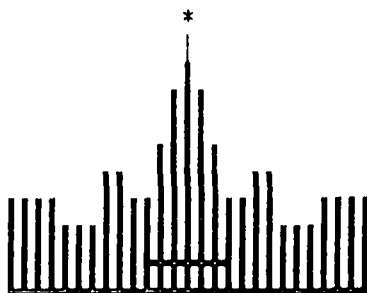
July 1992

Abstract

This issue presents a bibliographic index to experimental photonuclear data published in periodical scientific literature during the years 1986-1990. The main tabulation is sorted by nucleus and reaction. It is supplemented by a reference index, an author index, explanatory tables of terms and abbreviations used, and a table of isotopic abundances and nucleon separation energies. The index is in English with an introduction in Russian and English.

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ЦДФЭ

CDFE

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ЦДФЭ

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Настоящий выпуск подготовлен Центром данных фотоядерных экспериментов Научно-исследовательского института ядерной физики Московского государственного университета.

The present issue has been prepared in the Centre for Photonuclear Experiments Data at the Institute of Nuclear Physics of Moscow State University.

Выпуск продолжает цикл изданий ЦДФЭ по различным разделам физики электромагнитных взаимодействий. Эти издания охватывают результаты экспериментальных исследований фото- и электроядерных реакций, процессов радиационного захвата.

The issue continues the series of CDFE publications on various fields of electromagnetic interaction physics. These publications cover the results of experimental studies of photo- and electronuclear reactions, of radiative capture processes.

Информационные издания ЦДФЭ (ежегодные бюллетени, сводные указатели) содержат систематизированную информацию о самих работах, особенностях использованных экспериментальных методов, основных полученных физических результатах, библиографию и указатель авторов работ, выполненных за определенный период времени.

The information CDFE publications (annual bulletins, joint indexes) include the systematized information about the works themselves, features of experimental methods used, fundamental physical results obtained, bibliography, and index of authors of the works carried out during the signed period of time.

Тематические издания ЦДФЭ (обзоры, атласы) содержат анализ основных результатов, полученных в различных областях физики электромагнитных взаимодействий, компиляции числовых данных по фотоядерным реакциям, оцененные фотоядерные данные.

The thematic CDFE publications (reviews, atlases) include the analysis of fundamental results obtained in various fields of electromagnetic interactions the compilations of the digital photonuclear reaction data, evaluated photonuclear data.

Кроме подготовки изданий Центр данных фотоядерных экспериментов компилирует в рамках международного обменного формата EXFOR экспериментальные данные по фотоядерным реакциям. Фонд числовых данных ЦДФЭ содержит данные по выходам, сечениям, функциям возбуждения реакций, угловым, энергетическим, массовым, зарядовым распределениям продуктов и другим характеристикам реакций взаимодействия фотонов, заряженных частиц и нейтронов с атомными ядрами.

In addition to preparation of the publications, the Centre for Photonuclear Experiments Data compiles, by means of international exchange format EXFOR, the experimental photonuclear reaction data. The CDFE digital data fund contains the data on yields, cross sections, excitation functions of reactions, on angular, energy, mass, charge distributions of the products and on another features of the interactions of photons, charge particles and neutrons with atomic nuclei.

ЦДФЭ

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(CDFE)1. ПРЕДИСЛОВИЕPREFACE

Настоящий Указатель является продолжением Указателя "Фотоядерные данные 1976-1985", опубликованного ранее.

The present Index is the continuation of the Index "Photonuclear Data 1976-1985" which has been published previously.

Указатель включает в себя таблицу фотоядерных данных, в которой систематизированы результаты экспериментальных исследований, опубликованных в 1986-1990 годах, библиографию работ и авторский указатель.

Index includes the table of photonuclear data, in which the results of the experimental studies published in 1986-1990 are systematized, bibliography of papers and author index.

При подготовке Указателя были использованы указанные советские и иностранные журналы.

In the preparation of Index the following soviet and foreign journals have been used.

1. Атомная энергия
 2. Вестн. Моск. ун-та. Сер.: физика. Астрономия
 3. Изв. АН Каз. ССР. Сер. физико-математическая
 4. Изв. АН Лат. ССР. Сер. физических и технических наук
 5. Изв. АН СССР. Сер. физическая
 6. Известия высших учебных заведений. Сер. физика
 7. Письма в ЖЭТФ
 8. Сб. "Вопросы атомной науки и техники. Сер.: Общая и ядерная физика". Москва
 9. Сб. "Вопросы атомной науки и техники. Сер.: Ядерно-физические исследования (теория и эксперимент)". Москва
 10. Сб. "Вопросы атомной науки и техники. Сер.: Ядерные константы". Москва
 11. Сб. "Проблемы ядерной физики и космических лучей". Харьков
 12. Украинский физический журнал
 13. Ядерная физика
 14. Australian Journal of Physics
 15. Canadian Journal of Physics
 16. Il Nuovo Cimento
 17. Journal of Physical Society of Japan
 18. Journal of Physics G: Nuclear Physics
 19. Nuclear Instruments and Methods
 20. Nuclear Physics, A
 21. Nuclear Science and Engineering
 22. Physical Letters, B
 23. Physical Review, C
 24. Physical Review Letters
 25. Zeitschrift fur Physik, A
-
1. Atomnaya Energiya (in Russian)
 2. Vestnik Moskovskogo Universiteta. Ser.: Fizika. Astronomiya (in Russian)
 3. Izvestiya AN Kaz. SSR. Ser.: Fiziko-Matematicheskaya (in Russian)
 4. Izvestiya AN Latv. SSR. Ser. Fizicheskikh i Tekhnicheskikh Nauk (in Russian)
 5. Izvestiya AN SSSR. Ser. Fizicheskaya (in Russian)
 6. Izvestiya Vysshikh Uchebnykh Zavedenij. Ser. Fizika (in Russian)
 7. Pis'ma v ZHETF (in Russian)
 8. Sb. "Voprosy Atomnoj Nauki i Techniki. Ser.: Obshchaya i Yadernaya Fizika" (in Russian)
 9. Sb. "Voprosy Atomnoj Nauki i Techniki. Ser.: Yaderno - Fizicheskie Issledovaniya (Teoriya i Experiment)", Moskva (in Russian)
Ядерно-физические исследования
 10. Sb. "Voprosy Atomnoj Nauki i Techniki. Ser.: Yadernye Konstanty". Moskva (in Russian)

11. Sb. "Problemy Yadernoj Fiziki i Kosmicheskikh Luchej". Kharkov (in Russian)
12. Ukrainskij Fizicheskij Zhurnal (in Russian)
13. Uspekhi Fizicheskikh Nauk (in Russian)
14. Yadernaya fizika (in Russian)
15. Australian Journal of Physics
16. Canadian Journal of Physics
17. Il Nuovo Cimento
18. Journal of Physical Society of Japan
19. Journal of Physics G: Nuclear Physics
20. Nuclear Instruments and Methods
21. Nuclear Physics, A
22. Nuclear Science and Engineering
23. Physical Letters, B
24. Physical Review, C
25. Physical Review Letters
26. Zeitschrift fur Physik, A

II. ПОЯСНЕНИЯ К ТАБЛИЦЕ

В таблицу "ФОТОЯДЕРНЫЕ ДАННЫЕ" включены сведения о работах, содержащих информацию об электромагнитных возбуждениях в атомных ядрах, кроме результатов исследования процессов радиационного захвата тепловых нейтронов, имеющих весьма специфическую природу.

Включенные в таблицу экспериментальные результаты относятся, в основном, к области энергий возбуждения, заключенной между нуклонным и мезонным порогами.

Экспериментальная информация в таблице приводится, как правило, отдельно для каждого из исследованных ядер, расположенных в порядке возрастания атомного номера элемента.

Термины, обозначающие графы таблицы, имеют следующее содержание:

"NUCLEUS" - символ элемента с указанием массового числа (в случае использования мишени из естественной смеси изотопов указывается символ "0");

"REACTION" - 1 строка - символ реакции вне зависимости от способа ее исследования и исследованного канала (указано далее); реакция радиационного захвата обозначается (P,G), (A,G) и так далее, несмотря на то, что в большинстве случаев речь идет лишь о канале образования конечного ядра в основном состоянии; 2 строка - символы характеристик налетающих и вылетающих частиц; MON - (квази) монохроматичность, POL - поляризация;

"FINAL/TARGET"

FN - символ элемента с указанием заряда и массового числа конечного ядра реакции фото- и электровозбуждения; TN - в случае обратной реакции радиационного захвата указывается ядро - мишень;

EXPLANATIONS OF THE TABLE

Table "PHOTONUCLEAR DATA" contains information about the electromagnetic excitations in atomic nuclei with the exception of the results of studies of the thermal neutrons radiative capture processes, which are of highly specific nature.

The experimental results included here refer as a rule to the excitation energy region between the nucleon and meson thresholds.

Experimental information is given as a rule separately for each of the studied nuclei in the order of increasing atomic number of the element.

The terms designating the columns of the table are as follows:

"NUCLEUS" - is the element symbol with the mass number indicated, when a target made of mixture of isotopes is used, the symbol "0" is indicated;

"REACTION" - 1 line - is a symbol of reaction regardless the method of its investigation (indicated later); the radiative capture reactions are designated as (P,G), (A,G), and so forth, despite the fact that it is only the channel of formation of the final nucleus in the ground state that is discussed in most cases; 2 line - a symbols of characteristics of incident and outgoing particles; MON - (quasi) monochromativity; POL - polarization;

"FINAL/TARGET"

FN - is the element symbol with charge and mass numbers indicated the final nucleus of the photo- and electroexcitation reaction; TN - in the case of the inverse reaction of radiative capture the target nucleus is indicated;

"ENERGY"- EN - энергия или область энергий возбуждения (в MEV); для реакций с электронами и для реакций радиационного захвата в ряде случаев приводятся энергии или области энергий налетающих частиц (при этом дается символ налетающей частицы, например, в случае реакций с электронами - EN-E);

"ANGLE"- значения или диапазоны углов (в градусах), для которых проводились измерения;

"QUANTITY"- коды основных результатов выполненных измерений и изложение информации, извлекаемой и (или) обсуждаемой авторами (упоминаются лишь фактические результаты, приводимые в работах в виде рисунков, таблиц или числовых значений: M - измерено; D - получено; R - обзор);

"NUMBER"- пятисимвольный идентификатор соответствующей работы в библиографии, образованный по принципу ГТННН и определяющий год (ГТ) опубликования работы и ее порядковый номер (ННН) в соответствующем информационном бюллетене;

"E"- дополнительный условный символ, означающий наличие в фондах ЦДФЭ цифровых данных в формате EXFOR.

"ENERGY"- EN - is the excitation energy or the energy region (in MEV); for the reactions induced by electron and for radiative capture sometimes the energy or energy range of incident particles is indicated (then the incident particle is denoted by a symbol of incident particle, e.g. for reactions induced by electrons - EN-E);

"ANGLE"- are the values or range of the angles (in degrees) at which measurements were made;

"QUANTITY"- are a codes of the main results of the measurements made and the description of information extracted and (or) discussed by the authors (only the factual results given in papers as diagrams, tables, or digital values are mentioned; M - measured, D - deduced, R - reviewed;

"NUMBER"- is the five-digit number of the work in the bibliography, formed on the principle YNNNN and determining the year (YY) of publication of a work and its index number (NNN) in the corresponding information bulletin;

"E"- is an additional symbol signifying the presence in the CDFE fund of digital data in the EXFOR format.

III. СЛОВАРЬ КОДОВ

CODE DICTIONARY

Код Code	Содержание	Contents
A	альфа-частица	alfa-particle
ABI	абсолютное значение интегрального сечения	absolute integrated cross section
ABS	поглощение	absorption
ABX	абсолютное значение сечения	absolute cross section
ABY	абсолютное значение выхода	absolute yield
ANIS	анизотропия (углового распределения)	anisotropy (of angular distribution)
ASYM	асимметрия	asymmetry
AVLSP	среднее расстояние между уровнями	average level spacing

Код Code	Содержание	Contents
A-MOM	угловой момент	angular momentum
A-POW	анализирующая способность	analyzing power
BRANCH	коэффициент ветвления	branching ratio
B(EL)	приведенная вероятность перехода	reduced transition probability
CDENC	зарядовая плотность	charge density
CDIS	зарядовое распределение	charge distribution
COINC	совпадения	coincidences
CORR	корреляция (по энергии)	correlation (energy)
D	дейтрон	deuteron
D:	полученные данные	data deduced
DEF	параметр деформации	deformation parameter
DNY	выход запаздывающих нейтронов	delayed neutron yield
DST	(угловое) распределение	(angular) distribution
E	электрон	electron
E	энергия (уровня)	energy (of level)
E-AV	средняя энергия (вторичной частицы)	average energy (of secondary particle)
EN	энергия возбуждения исследуемого ядра	excitation energy of nucleus investigated
EN-A	энергия налетающей частицы (A,D,E,N,P,T)	energy of incident particle (A,D,E,N,P,T)
EN-D		
EN-E		
EN-N		
EN-P		
EN-T		
ETOP	отношение (выходов или сечений) для реакций с электронами и позитронами	electron-to-positron ratio (of yields or cross sections)
F	деление	fission
FBAR	параметр барьера деления	fission barrier parameter
FBIL	делимость	fissionability
FMF	формфактор	form factor
FN:	конечное ядро	final nucleus
FPRB	вероятность деления	fission probability
FRRNG	пробег фрагментов деления	fission fragment range

Код Code	Содержание	Contents
G	гамма-квант	gamma-quantum
G-WIDTH	радиационная ширина	radiative width
INT	интенсивность (перехода)	intensity (of transition)
INTCFC	коэффициент интерференции	interference coefficient
IRAT	изомерное отношение	isomer ratio
ISCHR	изохромата	isochromate
ISY	выход изомера	isomer yield
ITOP	отношение (выходов или сечений) изомерного и мгновенного процессов	isomer to-prompt ratio (of yields or cross sections)
IYR	отношение выходов изомеров	isomer yield ratio
J-PI	спин-четность (уровня)	spin parity (of level)
KE	кинетическая энергия	kinetic energy
KF-DN	кинетическая функция запаздывающих нейтронов	kinetic function of delayed neutrons
LDEN	параметр плотности уровней	level density parameter
LFT	время жизни (уровня)	lifetime (of level)
LOSS	спектр энергетических потерь	energy loss spectrum
M:	измеренные величины	data measured
MATR	матричный элемент (перехода)	matrix element (of transition)
MD	распределение по угловым моментам	angular momentum distribution
MDIS	массовое распределение	mass distribution
MES	спектр недостающих энергий	missing energy spectrum
MFRP	средняя длина пробега	mean free path
MIX	коэффициент смешивания	mixing ratio
MLTPL	множественность	multiplicity
MON	монохроматичность (пучка фотонов)	monochromativity (of phitin beam)
MTRN	переданный импульс	moment transfer
MULT	мультиполярность	multipolarity
N	нейтрон	neutron
N-AV	среднее число (нейтронов)	average number (of neutrons)

Код Code	Содержание	Contents
NOX	отсутствие данных о сечении	no cross section data
OSPR	вероятность заселения	occupation probability
P	протон	proton
PNY	выход мгновенных нейтронов	prompt neutron yield
POL	поляризация	polarisation
PTOA	отношение (выходов или сечений фото- и электрорасщепления) для протонов и альфа-частиц	proton-to-alfa ratio (of yields or cross sections for photo- and electrodisintegration)
PTOE	отношение (выходов или сечений) для реакций с фотонами и электронами	photon-to-electron ratio (of yields or cross sections)
PTON	отношение (выходов или сечений фото- и электрорасщепления) для протонов и нейтронов	proton-to-neutron ratio (of yields or cross sections for photo- and electrodisintegration)
Q	значение Q (реакции)	Q-value (of reaction)
QMOM	квадрупольный момент	quadrupole moment
R:	обсуждаемые данные	data reviewed
RDI	радиус (перехода)	radius (of transition)
RLI	относительное значение интегрального сечения	relative integrated cross section
RLX	относительное значение сечения	relative cross section
RLY	относительное значение выхода	relative yield
RMD	распределение по импульсам отдачи	recoil momentum distribution
RSP	функция отклика	response function
SCAM	амплитуда рассеяния	scattering amplitude
SEP	энергия отделения	separation energy
SIG	сечение (функция возбуждения)	cross section (excitation function)
SIG-0	сечение образования основного состояния	ground state cross section
SIG-1	сечение образования возбужденных состояний	excitation states cross sections
SIG-2		
SIG-3		
SIG-M	сечение образования метастабильного (изомерного) состояния	metastable (isomeric) state cross section

Код Code	Содержание	Contents
SIG-V	сечение образования различных состояний	various states cross sections
SPC	энергетический спектр	energy spectrum
SPC-A	энергетический спектр А-частиц при делении	energy spectrum of A-particles in fission
SPC-DP	энергетический спектр фотонов, снимающих возбуждение	energy spectrum of de-excitation photons
SPC-IMP	импульсное распределение	impulse distribution
SPCTF	спектроскопический фактор	spectroscopic factor
SRE	исчерпывание правила сумм	sum rule exhausten
STFUN	силовая функция	strength function
STOAS	отношение ширин для симметричного и асимметричного деления	symmetric-to-asymmetric fission width ratio
STR	сила резонанса	resonance strength
S(0)	фактор нулевой энергии	zero-energy factor
T	тритон	triton
T	изоспин	isospin
TDIS	временное распределение	time distribution
THR	порог (реакции)	threshold (of reaction)
TN:	ядро-мишень	target nucleus
TOT	полное сечение	total cross section
TTOD	отношение (выходов или сечений фото- или электро-расщепления) для тритонов и дейтронов	triton-to-deuteron ratio (of yields or cross sections for photo- and electrodisintegration)
TRDEN	плотность перехода	transition density
TRR	скорость термоядерной реакции	thermonuclear reaction rate
X	неидентифицированный продукт реакции	nonidentified reaction product
XN	некоторое число нейтронов	some number of neutrons
YP	некоторое число протонов	some number of protons

IV. ТАБЛИЦА "ФОТОЯДЕРНЫЕ ДАННЫЕ"

TABLE "PHOTONUCLEAR DATA"

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Z=1 HYDROGEN A=1,2,3						
H- 1	(G, ABS)		EN = 200.		R:SIG	90001
	(E, E')	FN: 1- H- 1	EN-E = 537.	37.1	M:SIG, FMP	87001
	(E, E')	FN: 1- H- 1	EN-E = 960.	37.5	M:SIG	89001
H- 2	(G, N)	FN: 1- H- 1	EN = 14.7	4PI	M:SIG	86006E
	G, MON		74.			
	(G, N)	FN: 1- H- 1	EN = 2.75	30.	M:SPC, DST, SIG	87006E
	G, MON			135.	D:MULT	
	(G, N)	FN: 1- H- 1	EN = 4.	45.	M:SPC, DST	87007E
	G, POL		18.	135.		
	(G, N)	FN: 1- H- 1	EN = 50.	45.	M:SIG, ASYM, COINC	88001
	G, MON		100.	90.		
	(G, N)	FN: 1- H- 1	EN = 6.	30.	M:DST, SIG	88003E
	G, MON		9.	155.		
	(G, N)	FN: 1- H- 1	EN = 4.	90.	M:ABY	89002
	G, MON		8.			
	(G, N)	FN: 1- H- 1	EN = 2.754		M:SIG	89006E
	G, MON					
	(G, N)	FN: 1- H- 1	EN = 5.97		M:DST	89008
	G, MON		8.999			
	(G, N+P)		EN = 14.7	4PI	M:SIG	86006E
	G, MON		74.			
	(G, N+P)		EN = 187.	30.	M:SPC, SPC-IMP, DST, SIG	87002
	G, MON		427.	170.	D:SEP	
	(G, N+P)		EN = 40.		R:SIG, CORR	88005
	G, POL		120.			
	(G, P)	FN: 0-NN- 1	EN = 50.	45.	M:ASYM	86001
	G, POL		100.	90.		
	(G, P)	FN: 0-NN- 1	EN = 100.	32.5	M:SIG, DST	86004
	G, MON		255.	130.		
	(G, P)	FN: 0-NN- 1	EN = 14.7	4PI	M:SIG	86006E
	G, MON		74.			
	(G, P)	FN: 0-NN- 1	EN = 300.	0.	M:POL, SIG, DST, ASYM	86007
	G, POL		500.	180.		
	(G, P)	FN: 0-NN- 1	EN = 187.	30.	M:SPC, SPC-IMP, DST, SIG	87002
	G, MON		427.	170.	D:SEP	
	(G, P)	FN: 0-NN- 1	EN = 170.	0.	M:SPC, DST, SIG	87008
	G, MON		210.	180.		
	(G, P)	FN: 0-NN- 1	EN = 50.	45.	M:SIG, ASYM, COINC	88001
	G, POL		100.	90.		
	(G, P)	FN: 0-NN- 1	EN = 800.	90.	M:SIG	88119
	G, POL		1600.			
	(G, P)	FN: 0-NN- 1	EN = ---	0.	M:SIG	89003
	G, POL		25.	10.		
	(G, P)	FN: 0-NN- 1	EN = 8.	0.	M:SPC, SIG	89004
	G, POL		18.			
	(G, P)	FN: 0-NN- 1	EN = 98.	0.	M:SPC, DST, SIG	89005
	G, MON		243.	180.		
	(G, P)	FN: 0-NN- 1	EN = 208.2	23.	M:SPC, DST, SIG	89007
	G, MON		337.9	57.7		
	(G, P)	FN: 0-NN- 1	EN = 200.	25.	M:DST, POL	89009
	P, POL		350.	75.		

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
H- 2	(G, P)	FN: 0-NN- 1	EN = 30.	90.	M:SIG	89010
	G, POL		100.			
	(G, P)	FN: 0-NN- 1	EN = 4.	90.	M:SIG, ASYM	89011
	G, POL		10.			
	(G, P)	FN: 0-NN- 1	EN = 20.	0.	R:DST, SIG	89012
	G, POL		400.	180.		
	(G, P)	FN: 0-NN- 1	EN = 30.	90.	M:SIG	89013
	G, POL		100.			
	(G, P)	FN: 0-NN- 1	EN = ---		R:ASYM	90001
	G, POL		1000.			
	(G, P)	FN: 0-NN- 1	EN = 200.	30.	M:POL	90002
	G, POL		350.	120.		
	(G, P)	FN: 0-NN- 1	EN = 4.	90.	M:SIG, ASYM	90003
	G, POL		10.			
	(G, P)	FN: 0-NN- 1	EN = 800.	90.	M:SIG	90005
	G, POL		1800.			
	(G, P)	FN: 0-NN- 1	EN = 310.	73.3	M:SPC, POL	90007
	G, POL		450.	76.4		
	(G, P)	FN: 0-NN- 1	EN = 290.	63.4	M:POL	90008
	G, POL		420.	66.6		
	(E, E)	FN: 1- H- 2	EN = 650.		M:FMP, A-POW	90004
	G, POL		850.			
	(E, E)	FN: 1- H- 2	EN-E = 2000.		M:A-POW	90010
	G, POL					
	(E, E')	FN: 1- H- 2	EN-E = 220.	180.	M:SIG	86005
	G, POL		320.			
	(E, E')	FN: 1- H- 2	EN-E = 292.8	60.	M:SPC, SIG, RSP	88002
	G, POL		444.2	134.5		
	(E, E')	FN: 1- H- 2	EN-E = 843.	180.	M:SIG, FMP	88004
	G, POL		1281.		D:MULT	
	(E, E')	FN: 1- H- 2	EN-E = 174.	60.	M:SPC, SIG, RSP	88007
	G, POL		597.	134.5		
	(E, E'+N+P)		EN = 180.	40.	M:ASYM	87005
	G, POL			50.		
	(E, E'+P)	FN: 0-NN- 1	EN = 0.		R:SPC-IMP, SIG	90006
	G, POL		20.			
	(E, E'+P)	FN: 0-NN- 1	EN-E = ---		M:SPC-IMP	90009
	G, POL		600.			
	(E, E'+D)		EN-E = 400.		M:ASYM, A-POW	86002
	G, POL			30.		
	(N, G)	TN: 1- H- 1	EN-N = 180.	0.	M:SIG, A-POW	86003
	N, POL		270.	150.		
	(N, G)	TN: 1- H- 1	EN-N = 61.	0.	M:SPC, SIG	87003
	N, POL			180.		
	(N, G)	TN: 1- H- 1	EN-N = 6.	90.	M:SPC, POL, A-POW	87004
	N, POL		13.43			
	(N, G)	TN: 1- H- 1	EN-N = 76.		M:SPC, SIG	88006
	N, POL					
	(N, G)	TN: 1- H- 1	EN-N = 25.	0.	M:DST, SIG	89003
	N, POL			10.		
H- 3	(G, N)	FN: 1- H- 2	EN = 10.		M:SIG	86008
	G, MON		15.		D:PTON	
	(E, E')	FN: 1- H- 3	EN-E = 25.		M:RSP	88120
	G, MON		200.		D:SRF	
	(N, G)	TN: 1- H- 2	EN-N = 9.	70.	M:SIG, DST, SPC, ASYM	86008
	N, POL		14.	120.	D:TOT, PTON	
	(N, G)	TN: 1- H- 2	EN-E = 9.	70.	M:SIG, DST, SPC, ASYM	86008
	N, POL		14.	120.	D:TOT, PTON	

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Z=2 HELIUM A=3,4,5						
HE- 3	(G,P)	FN: 1- H- 2	EN = 10. 15. ....	...	M:SIG	86008
	(G,P)	FN: 1- H- 2	EN = 90. 60.	60.	D:PTON	86009E
	G,POL	FN: 1- H- 2	EN = 350. 140.	140.	M:COINC,ASYM,DST	86009E
	(G,P)	FN: 1- H- 2	EN = 600. 90.	90.	M:POL	88008E
	(G,P)	FN: 1- H- 2	EN = 60. 90.	90.	M:SPC,SIG,ASYM	88009
	G,MON,POL	FN: 1- H- 2	EN = 350. 60.	60.	M:SIG,ASYM	88011
	(G,P)	FN: 1- H- 2	EN = 60. 60.	60.	M:SIG,ASYM	88011
	G,MON,POL	FN: 1- H- 2	EN = 350. 135.	135.	M:SPC,SIG,ASYM	88012
	(G,P)	FN: 1- H- 2	EN = 60. 90.	90.	M:SPC,SIG,ASYM	88012
	G,MON,POL	FN: 1- H- 2	EN = 350. 23.	23.	M:SPC,DST,SIG	89007
	(G,P)	FN: 1- H- 2	EN = 208.2 57.7	57.7	M:SPC,DST,SIG	89007
	G,MON	FN: 1- H- 2	EN = 337.9 72.	72.	M:POL	89015
	(G,P)	FN: 1- H- 2	EN = 350. 90.	90.	M:POL	89015
	(G,P)	FN: 1- H- 2	EN = 90. 290.	290.	R:ASYM	90001
	(G,P)	FN: 1- H- 2	EN = 6. 92.	92.	R:SIG,ABI	90011
	(G,2P)	FN: 0-NN- 1	EN = 231. 90.	90.	M:SIG	89014
	(G,2P)	FN: 0-NN- 1	EN = 414. 8.	8.	R:SIG,ABI	90011
	(G,P+D)		EN = 112. 90.	90.	M:COINC,ASYM,DST	86009E
	G,POL	FN: 1- H- 1	EN = 350. 140.	140.	M:COINC,ASYM,DST	86009E
	(G,D)	FN: 1- H- 1	EN = 90. 60.	60.	M:COINC,ASYM,DST	86009E
	G,POL	FN: 2-HE- 3	EN-E = 350. 140.	140.	M:SPC,SIG	87010
	(E,E')	FN: 2-HE- 3	EN-E = 538. 127.	127.	M:SPC,SIG	87013
	(E,E')	FN: 2-HE- 3	EN-E = 174. 60.	60.	D:MULT	88007
	(E,E')	FN: 2-HE- 3	EN-E = 597. 134.5	134.5	M:SPC,SIG,RSP	88007
	(E,E'+P)	FN: 1- H- 2	EN-E = 25. 200.	200.	M:RSP	88120
	(E,E'+P)	FN: 1- H- 2	EN-E = 390. 39.7	39.7	D:SRE	87011
	(E,E'+P)	FN: 1- H- 2	EN-E = 509.3 52.	52.	M:SPC-IMP,MES,SIG	87011
	(E,E'+P)	FN: 1- H- 2	EN-E = 527.9 128.	128.	M:TD1S,MES,SPC-IMP	87012
	(E,E'+P)	FN: 1- H- 2	EN-E = 560. 45.	45.	M:MES,SPC-IMP,SIG	88013
	(E,E'+P)	FN: 1- H- 2	EN-E = 142.5 142.5	142.5	M:SPC-IMP	90009
	(E,E'+D)	FN: 1- H- 1	EN-E = 600. 39.7	39.7	M:SPC-IMP,MES,SIG	87011
	(P,G)	TN: 1- H- 2	EN = 69.9 19.3	19.3	M:SPC,DST,SIG,A-POW	87009
	P,POL	TN: 1- H- 2	EN = 133.1 154.5	154.5	M:SPC,DST,SIG,A-POW	87009
	(P,G)	TN: 1- H- 2	EN-P = 800. 30.	30.	M:A-POW,ASYM	88014
	P,POL	TN: 1- H- 2	EN = 7.5 150.	150.	M:SPC,DST,SIG,A-POW	88015
	(D,G)	TN: 1- H- 1	EN-D = 29.2 90.	90.	M:SPC,DST,SIG,A-POW	86010
	D,POL	TN: 1- H- 1	EN-D = 45.3 50.	50.	M:SPC,SIG,A-POW	86010
	(D,G)	TN: 1- H- 1	EN-D = 95. 130.	130.	M:DST,SIG,A-POW	88010
	D,POL	TN: 1- H- 1	EN = 130. 30.	30.	M:SPC,DST,SIG,A-POW	88015
	(D,G)	TN: 1- H- 1	EN = 7.5 150.	150.	M:SPC,DST,SIG,A-POW	88015
	D,POL	TN: 1- H- 1	EN = 7.5 150.	150.	M:SPC,DST,SIG,A-POW	88015

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
HE- 4	(G,G)	FN: 2-HE- 4	EN = 180. 30.	30.	M:SPC,DST,SIG	86016
	(G,G)	FN: 2-HE- 4	EN = 320. 22.	22.	M:SPC,RSP,SIG	88020
	(G,N)	FN: 2-HE- 3	EN = 155. 60.	60.	M:SIG,DST	86011
	(G,N)	FN: 2-HE- 3	EN = 344. 122.6	122.6	D:PTON	86011
	(G,N)	FN: 2-HE- 3	EN = 40. 45.	45.	M:SIG,ASYM	88021
	G,MON,POL	FN: 2-HE- 3	EN = 40. 135.	135.	M:DST,SIG,ASYM	89016
	(G,N)	FN: 2-HE- 3	EN = 35. 60.	60.	M:POL	89020
	(G,N+P)	FN: 1- H- 2	EN = 45. 120.	120.	M:POL	89020
	(G,P)	FN: 1- H- 3	EN = 40. 120.	120.	R:SIG,CORR	88005
	(G,P)	FN: 1- H- 3	EN = 104. 60.	60.	M:SIG,DST	86011
	(G,P)	FN: 1- H- 3	EN = 358. 123.8	123.8	D:PTON	86011
	(G,P)	FN: 1- H- 3	EN = 187. 30.	30.	M:SPC-IMP,DST,SIG	87015
	G,MON	FN: 1- H- 3	EN = 427. 105.	105.	M:SPC-IMP,DST,SIG	87015
	(G,P)	FN: 1- H- 3	EN = 600. 90.	90.	M:POL	88008E
	(G,P)	FN: 1- H- 3	EN = 60. 90.	90.	M:POL	88009
	G,MON,POL	FN: 1- H- 3	EN = 350. 350.	350.	M:SPC,SIG,ASYM	88009
	(G,P)	FN: 1- H- 3	EN = 120. 45.	45.	M:DST,SIG,ASYM	88019
	G,POL	FN: 1- H- 3	EN = 250. 135.	135.	M:DST,SIG,ASYM	88019
	(G,P)	FN: 1- H- 3	EN = 40. 45.	45.	M:SIG,ASYM	88021
	G,MON,POL	FN: 1- H- 3	EN = 40. 135.	135.	M:SIG,ASYM	88021
	(G,P)	FN: 1- H- 3	EN = 28.6 4PI	4PI	M:SIG,ASYM	88022E
	G,MON	FN: 1- H- 3	EN = 58.1 58.1	58.1	D:PTON	88022E
	(G,P)	FN: 1- H- 3	EN = 350. 72.	72.	M:POL	89015
	(G,P)	FN: 1- H- 3	EN = 40. 45.	45.	M:POL	89015
	G,POL	FN: 1- H- 3	EN = 120. 135.	135.	M:DST,SIG,ASYM	89016
	(G,P)	FN: 1- H- 3	EN = 300. 140.	140.	M:DST,SIG,ASYM	89016
	(G,P)	FN: 1- H- 3	EN = 35. 60.	60.	M:COINC,DST,ASYM	89019
	(G,P)	FN: 1- H- 3	EN = 45. 120.	120.	M:POL	89020
	(E,E')	FN: 1- H- 3	EN = 21.3 90.	90.	M:POL	89020
	(E,E')	FN: 1- H- 3	EN = 31.1 120.	120.	M:SIG	90016
	(E,E')	FN: 2-HE- 4	EN-E = 537. 37.1	37.1	D:PTON	87001
	(E,E')	FN: 2-HE- 4	EN-E = 730. 730.	730.	M:SIG,FMF	87001
	(E,E')	FN: 2-HE- 4	EN-E = 174. 60.	60.	M:SPC,SIG,RSP	88007
	(E,E')	FN: 2-HE- 4	EN-E = 597. 134.5	134.5	M:SPC,SIG,RSP	88007
	(E,E')	FN: 2-HE- 4	EN-E = 808. 17.	17.	M:SPC,DST,SIG	88018
	(E,E')	FN: 2-HE- 4	EN = 1180. 40.	40.	M:SPC,DST,SIG	88018
	(E,E')	FN: 2-HE- 4	EN = 54. 180.	180.	M:SPC,SIG	88023
	(E,E')	FN: 2-HE- 4	EN-E = 960. 54.	54.	M:SPC,SIG	89001
	(E,E')	FN: 2-HE- 4	EN-E = 1500. 37.5	37.5	M:SIG	89001
	(E,E')	FN: 2-HE- 4	EN-E = 589. 1500.	1500.	M:SIG	89001
	(E,E')	FN: 2-HE- 4	EN-E = 1174. 60.	60.	M:SPC	90017
	(E,E'+P)	FN: 1- H- 3	EN-E = 91.4 160.	160.	M:SPC	90017
	(E,E'+P)	FN: 1- H- 3	EN-E = 126. 47.	47.	D:SRE	88016
	(E,E'+P)	FN: 1- H- 3	EN-E = 426. 68.	68.	M:SPC-IMP,SIG,COINC	88016
	(E,E'+P)	FN: 1- H- 3	EN-E = 65. 35.	35.	M:SPC,SIG	89018
	(E,E'+P)	FN: 1- H- 3	EN = 277. 119.	119.	M:SPC,SIG	89018
	(E,E'+P)	FN: 1- H- 3	EN = 0. 20.	20.	R:SPC-IMP,SIG	90006
	(E,E'+P)	FN: 1- H- 3	EN-E = 200. 200.	200.	R:SPC-IMP,SIG	90006
	(E,E'+P)	FN: 1- H- 3	EN = 200. 200.	200.	M:SIG	90009
	(E,E'+P)	FN: 1- H- 3	EN = 80. 80.	80.	M:SIG	90009
	(E,E'+P)	FN: 1- H- 3	EN = 80. 80.	80.	R:COINC,MES,SIG	90014

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
HE- 4	(E,E'+D)	FN: 1- H- 2	EN = ----	...	R:COINC,MES,SIG	90014
	(E,E'+T)	FN: 1- H- 1	EN = ----	...	R:COINC,MES,SIG	90014
	(E,E'+X)		EN-E =1174.	30.	M:SIG	90012
	(P,G)	TN: 1- H- 3	EN-P = 227.	5.	M:SPC,DST,SIG,A-POW	86015
	P,POL		375.	174.		
	(P,G)	TN: 1- H- 3	EN-P = 0.82	20.	M:DST,SIG,A-POW	89021
	P,POL		9.	155.	D:MULT,MATR,STR	
	(P,G)	TN: 1- H- 3	EN-P = 2.	90.	M:SPC,SIG	90016
	(D,G)	TN: 1- H- 2	EN-D = 15.	...		
	D,POL		10.	30.	M:SPC,SIG,DST,A-POW	86012
	(D,G)	TN: 1- H- 2	EN-D = 0.7	50.	D:MULT	
	D,POL		15.	130.	M:SPC,DST,SIG	86013
	(D,G)	TN: 1- H- 2	EN-D = 10.	30.	M:SPC,DST,SIG,A-POW	86014
	D,POL		150.	...	D:MULT	
	(D,G)	TN: 1- H- 2	EN-D = 0.1	0.	M:SPC,DST,SIG	87014
	D,POL		1.0	90.	D:S(0)	
	(D,G)	TN: 1- H- 2	EN-D = 1.2	50.	M:DST,SIG,A-POW	88017
	D,POL		130.	...	D:MULT	
	(D,G)	TN: 1- H- 2	EN-D = 0.3	130.	M:SPC,A-POW	88117
	D,POL		50.	...		
	(D,G)	TN: 1- H- 2	EN-D = 95.	55.	M:SPC,DST,A-POW	89017
	D,POL		149.	...		
	(D,G)	TN: 1- H- 2	EN-D = 0.8	30.	R:DST,A-POW,S(0)	90013
D,POL		50.	130.			
(D,G)	TN: 1- H- 2	EN-D = ----	0.	M:SPC,DST,SIG,A-POW	90015	
D,POL		14.7	130.	D:S(0),MULT		
HE- 5	(D,G)	TN: 1- H- 3	EN-D = 1.2	90.	M:SPC,SIG,BRANCH	86017
			1.43	...		

2=3	LITHIUM	A=6,7,8
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LI- 6	(G,N+G')	FN: 3-LI- 5	EN = ----	135.	M:SPC-DP,ABI	87016E
			32.	...		
	(G,N+2P)	FN: 1- H- 3	EN = 10.	...		90020
			50.	...		
	(G,2N+2P)	FN: 1- H- 2	EN = 30.	...		90020
			50.	...		
	(G,N+D)	FN: 2-HE- 3	EN = 10.	...		90020
			50.	...		
	(G,P+G')	FN: 2-HE- 5	EN = ----	135.	M:SPC-DP,ABI	87016E
			32.	...		
	(G,P)	FN: 2-HE- 5	EN = 34.5	90.	M:SPC,SIG,SIG-0,SIG-1	88024
	G,MOM		98.8	...		
	(G,P)	FN: 2-HE- 5	EN = 60.	90.	M:SIG,ASYM	88026
	G,MOM,POL		300.	...		
	(G,P)	FN: 2-HE- 5	EN = 350.	72.	M:POL	89015
				
	(G,YP)		EN = 60.	90.	M:ASYM	87017
	G,MOM,POL		300.	...		
	(G,P+2N)	FN: 2-HE- 3	EN = 15.	...		90020
			50.	...		
(G,D)	FN: 2-HE- 4	EN = 58.	90.	M:MES	90021	
G,MOM		64.	...	D:T		
(G,T)	FN: 2-HE- 3	EN = ----	80.	M:SPC,SIG	87018E	
		70.	...			

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
LI- 6	(G,T)	FN: 2-HE- 3	EN = ----	90.	M:SIG	88027
			90.	...		
	(G,T)	FN: 2-HE- 3	EN = 25.	...	M:SPC,COINC,ASYM	89023
	G,POL		70.	...		
	(G,HE3)	FN: 1- H- 3	EN = 25.	...	M:SPC,COINC,ASYM	89023
	G,POL		70.	...		
	(G,X+G')		EN = ----	135.	M:SPC-DP,ABI	87016E
			32.	...		
	(G,XP)		EN = 600.	72.	M:POL	90019
			1200.	...		
	(G,XP)		EN = 35.	...		90020
			50.	...		
	(E,E')	FN: 3-LI- 6	EN-E = 160.	90.	M:SPC	87019E
			230.	140.	...	
	(E,E')	FN: 3-LI- 6	EN-E = 90.	42.	M:SPC,SIG	88025
			260.	140.	...	
	(E,E'+P)	FN: 2-HE- 5	EN-E = 322.	...	M:POL,SIG	87020
			479.9	...		
	(E,E'+P)	FN: 2-HE- 5	EN-E = 320.	...	M:SPC,SPC-IMP,MES	89024
			480.	...	D:SRE	
(E,E'+P)	FN: 2-HE- 5	EN = 4.	...	R:SPC-IMP	90006	
		20.	...			
(E,E'+P)	FN: 2-HE- 5	EN-E = ----	...	M:SPC-IMP	90009	
		200.	...			
(E,E'+D)	FN: 2-HE- 4	EN-E = 480.	...	M:MES,SPC-IMP,SIG	86019	
				
(E,D)	FN: 2-HE- 4	EN = 10.	42.	M:DST,SIG,SIG-0	86018	
		28.	138.	D:MULT,STR		
(E,T)	FN: 2-HE- 3	EN = ----	90.	M:SIG	88027	
		90.	...			
(D,G)	TN: 2-HE- 4	EN-D = 1.	20.	M:DST,SIG,A-POW	89022	
D,POL		9.	140.	D:MULT		
LI- 7	(G,N)	FN: 3-LI- 6	EN = 5.	...	R:SIG,SIG-0,SIG-1	87021
			25.	...		
	(G,N)	FN: 3-LI- 6	EN = 7.	4PI	M:SIG,SIG-0	89026
			9.	...		
	(G,XN)		EN = 7.25	4PI	M:SIG	86021E
			19.5	...		
	(G,XN)		EN = 5.	...	R:SIG,ABI	87021
			30.	...		
	(G,2N+P+A)		EN = 10.	...	R:SIG,ABI	87021
			25.	...		
	(G,N+D+A)		EN = 5.	...	R:SIG,ABI	87021
			25.	...		
	(G,P)	FN: 2-HE- 6	EN = 10.	...	R:SIG,SIG-0,ABI	87021
			25.	...		
	(G,P+2T)		EN = ----	...	M:SPC,SIG	87023E
		27.	...			
(G,T+A)		EN = 2.	...	R:SIG,ABI	87021	
		25.	...			
(G,ABS)		EN = 0.	...	R:SIG	90086	
		50.	...			
(E,E')	FN: 3-LI- 7	EN-E = 80.	45.	M:FMP	89025	
		680.	90.	D:MULT		
(E,T+G')	FN: 2-HE- 4	EN = ----	100.	M:SIG	86020E	
		30.	...			
(E,T)	FN: 2-HE- 4	EN = ----	100.	M:SIG	86020E	
		30.	...			
(A,G)	TN: 1- H- 3	EN-A = 0.7	0.	M:SPC,SIG,SIG-0,SIG-1	87022	
		2.0	...			
LI- 8	(N,G)	TN: 3-LI- 7	EN-N = 25.	...	M:SPC,SIG	89027
			420.	...		

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Z=4 BERYLLIUM A=7,8,9						
BE- 0	(G,N)		EN = 4. 8.	90.	M:ABY	89002
BE- 7	(P,G)	TN: 3-LI- 6	EN-A = 0.5 1.	0. 135.	M:DST,SIG-0,SIG-1	87024
	(A,G)	TN: 2-HE- 3	EN = 0.195 0.686	90.	M:SPC,RSP,SIG D:S(O)	88028
BE- 8	(P,G)	TN: 3-LI- 7	EN-P = 7.5 8.	90.	M:SPC	90022
BE- 9	(G,N)	FN: 4-BE- 8	EN = 0. 28.		R:SIG	90086
	(G,N+P)	FN: 3-LI- 7	EN = 187. 427.	30. 170.	M:SPC,SPC-IMP,DST,SIG D:SEP	87002
	(G,P)	FN: 3-LI- 8	EN = 187. 427.	30. 170.	M:SPC,SPC-IMP,DST,SIG D:SEP	87002
	(G,MON)	FN: 3-LI- 8	EN = 427. 350.	170. 72.	M:POL	89015
	(G,2P)	FN: 2-HE- 7	EN = 187. 427.	30. 170.	M:SPC,SPC-IMP,DST,SIG D:SEP	87002
	(G,MON)	FN: 3-LI- 7	EN = 360. 600.	23. 130.	M:SPC,SPC-IMP,DST,SIG D:TTOD	86022
	(G,T)	FN: 3-LI- 6	EN = 360. 600.	23. 130.	M:SPC,SPC-IMP,DST,SIG D:TTOD	86022
	(G,MON)	FN: 2-HE- 6	EN = 100. 225.	78.	M:SPC,SIG	86023
	(G,HE3)	FN: 2-HE- 6	EN = 100. 225.	78.	M:SPC,SIG	86023
	(G,A)	FN: 2-HE- 5	EN = 10. 20.		M:ABY,SIG D:E,G-WIDTH,STR,RDI,Q	87025
	(G,ABS)		EN = 0. 28.		R:SIG	90086
	(G,MON)		EN = 600. 1200.	72.	M:POL	90019
	(G,XP)		EN = 537. 730.		M:SIG,PNF	87001
	(E,E')	FN: 4-BE- 9	EN-E = 1450. 2130.	16. 18.	M:SPC,DST	90024
	(E,E')	FN: 4-BE- 9	EN = 860. 1280.	80.	M:COLINC,MES	90023
	(E,E'+A)	FN: 2-HE- 5	EN = 100. 225.	78.	M:SPC,SIG	86023
	(E,HE3)	FN: 2-HE- 6	EN-E = 100. 225.	78.	M:SPC,SIG	86023
	(E,A)	FN: 2-HE- 5	EN-E = 100. 225.	78.	M:SPC,SIG	86023
	(D,G)	TN: 3-LI- 7	EN-D = 0.45	90.	M:ABY D:E,J-PI,G-WIDTH	86024

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Z=5 BORON A=10,11						
B- 10	(G,XN)		EN = 8.44 24.5	4PI	M:SIG	87027
	(G,N+P)	FN: 4-BE- 8	EN = 66. 103.	45. 90.	M:MES,SIG,DST	88029E
	(G,MON)	FN: 4-BE- 9	EN = 66. 103.	45. 90.	M:MES,SIG,DST	88029E

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
B- 10	(E,E)	FN: 5- B- 10	EN-E = 203. 416.	150. 180.	M:PNF	88030
	(E,E')	FN: 5- B- 10	EN-E = 203. 416.	150. 180.	M:PNF	88030
	(A,G)	TN: 3-LI- 6	EN-A = 1.176		M:SPC,SIG	87026
	(A,G)	TN: 3-LI- 6	EN-A = 1.085 1.175	0. 98.	M:SPC,DST,SIG,MIX D:STR,E,J-PI	89028
B- 11	(G,P+G')	FN: 4-BE- 10	EN = ---- 32.	135.	M:SPC-DP,SIG,ABI	86025E
	(G,H3+G')	FN: 4-BE- 8	EN = ---- 32.	135.	M:SPC-DP,SIG,ABI	86025E
	(G,X+G')		EN = ---- 32.	135.	M:SPC-DP,SIG,ABI	86025E
	(E,E)	FN: 5- B- 11	EN-E = 203. 416.	150. 180.	M:PNF	88030
	(E,E')	FN: 5- B- 11	EN-E = 203. 416.	150. 180.	M:PNF	88030

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Z=6 CARBON A=12,13,14						
C- 0	(E,E')	FN: 6- C- 0	EN-E = 653. 1650.	11.9 53.	M:SIG D:MULT	88031
	(E,E')	FN: 8- C- 0	EN-E = 960. 1500.	37.5	M:SIG	89001
	(P,G)		EN-P = 72.	90. 150.	M:SPC,DST	88032
C- 12	(G,G)	FN: 6- C- 12	EN = 15. 140.	60. 150.	M:SPC,SIG	90028
	(G,MON)	FN: 6- C- 12	EN = 15. 140.	60. 150.	M:SPC,SIG D:MULT,STR	90028
	(G,G')	FN: 6- C- 11	EN = 30. 100.	65.	M:SPC,DST,SIG,SIG-0	88035E
	(G,MON)	FN: 5- B- 10	EN = 187. 427.	30. 170.	M:SPC,SPC-IMP,DST,SIG D:SEP	87002
	(G,N+P)	FN: 5- B- 10	EN = 40. 120.		R:SIG,CORR	88005
	(G,MON)	FN: 5- B- 10	EN = 83. 133.	55. 127.	M:MES,SIG,SPC-IMP	88037
	(G,N+P+A)	FN: 3-LI- 6	EN = 40. 120.		R:SIG,CORR	88005
	(G,P)	FN: 5- B- 11	EN = 20. 29.	37. 143.	M:DST,SIG,SIG-0	86027E
	(G,P)	FN: 5- B- 11	EN = 60. 80.	30. 135.	M:SPC,DST,SIG,SIG-0	86029
	(G,MON)	FN: 5- B- 11	EN = 30. 100.	65.	M:SPC,SIG-0,SIG	86030
	(G,P)	FN: 5- B- 11	EN = 159. 198.	32.5 130.	M:DST,SPC,SIG	86031
	(G,MON)	FN: 5- B- 11	EN = 187. 427.	30. 170.	M:SPC,SPC-IMP,DST,SIG D:SEP	87002
	(G,MON)	FN: 5- B- 11	EN = 27. 140.		M:SIG,ABI	88038
	(G,P)	FN: 5- B- 11	EN = 41. 93.	30. 90.	M:A-POW	88039
	(G,MON,POL)	FN: 5- B- 11	EN = 60. 115.	85. 115.	M:SPC,DST,SIG,SIG-0	88040E
	(G,P)	FN: 5- B- 11	EN = 350.	72.	M:POL	89015

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
C- 12	(G,P)	FN: 5- B- 11	EN = 28.	90.	M:SPC,SIG,SIG-0,SIG-1	89032
	G,MON					
	(G,P)	FN: 5- B- 11	EN = 61.	90.	M:SPC	90029
	G,MON		77.3		D:T	
	(G,P)	FN: 5- B- 11	EN = 49.	65.	M:SPC,SPC-IMP,SIG	90030
	G,MON		78.5	115.		
	(G,2P)	FN: 4-BE- 10	EN = 187.	30.	M:SPC,SPC-IMP,DST,SIG	87002
	G,MON		427.	170.	D:SEP	
	(G,P+D)	FN: 4-BE- 9	EN = ----		M:DST,SIG	87028
			80.			
	(G,P+T)	FN: 4-BE- 8	EN = 27.		M:SIG,ABI	88038
			140.			
	(G,P+T)	FN: 4-BE- 8	EN = 27.5		M:SPC	89034
			150.			
	(G,P+T+A)	FN: 2-HE- 4	EN = ----		M:SPC	90025
			150.			
	(G,P+T+2A)		EN = ----		M:SPC,CORR(E),SIG	89029
			150.			
	(G,D)	FN: 7- N- 14	EN = 360.	23.	M:SPC,SPC-IMP,DST,SIG	86022
	G,MON		600.	130.	D:TTOD	
	(G,T)	FN: 7- N- 13	EN = 360.	23.	M:SPC,SPC-IMP,DST,SIG	86022
	G,MON		600.	130.	D:TTOD	
	(G,T)	FN: 5- B- 9	EN = 27.		M:SIG,ABI	88038
			140.			
	(G,HE3)	FN: 4-BE- 9	EN = 100.	78.	M:SPC,SIG	86023
			225.			
	(G,A)	FN: 4-BE- 8	EN = 100.	78.	M:SPC,SIG	86023
			225.			
	(G,A)	FN: 4-BE- 8	EN = 27.		M:SIG,ABI	88038
			140.			
	(G,A)	FN: 4-BE- 8	EN = 28.	90.	M:SPC,SIG,SIG-0,SIG-1	89032
	G,MON					
	(G,ABS)		EN = 15.	60.	M:SIG	90028
	G,MON		140.	150.		
	(G,XP)		EN = 600.	72.	M:POL	90019
			1200.			
	(E,E')	FN: 6- C- 12	EN-E = 537.	37.1	M:SIG,FMF	87001
			730.			
	(E,E')	FN: 6- C- 12	EN-E = 415.	140.	M:SPC,FMF,SIG	87031
			485.	160.	D:MULT	
	(E,E')	FN: 6- C- 12	EN-E = 690.	26.	M:SPC,SIG,FMF	89035
			36.			
	(E,E')	FN: 6- C- 12	EN = 1450.	16.	M:SPC,DST	90024
			2130.	18.		
	(E,E'+P)	FN: 5- B- 11	EN-E = 459.	34.	M:MES	86032
	(E,E'+P)	FN: 5- B- 11	EN-E = 312.8		M:RSP	86033
			443.3			
	(E,E'+P)	FN: 5- B- 11	EN-E = 288.1		M:RSP,MES	87029
			443.1			
	(E,E'+P)	FN: 5- B- 11	EN-E = 280.		M:MES,SPC-IMP	88033
			480.		D:SPCTF	
	(E,E'+P)	FN: 5- B- 11	EN-E = 280.		M:MES,SPC,SPC-IMP	88036
			480.		D:SPCTF,RD1,E	
	(E,E'+P)	FN: 5- B- 11	EN-E = 460.	20.8	M:SPC,MES,SIG	89031
			647.	39.5		
	(E,E'+P)	FN: 5- B- 11	EN-E = 780.	50.1	M:SPC,DST,MES,SIG	89033
				72.9		
	(E,E'+P)	FN: 5- B- 11	EN = 0.		R:SPC-IMP,STR,SPCTF	90006
			10.			
	(E,E'+P)	FN: 5- B- 11	EN = 0.		M:SPC,SPC-IMP	90009
			8.			

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
C- 12	(E,E'+P)	FN: 5- B- 11	EN-E = 505.4	90.	M:MES	90027
			686.1	100.	D:SPCTF	
	(E,E'+D)	FN: 5- B- 10	EN-E = 313.		M:SPC,SIG	89030
			481.		D:T	
	(E,E'+A)	FN: 4-BE- 8	EN = 860.	80.	M:COINC,MES	90023
			1280.			
	(E,P)	FN: 5- B- 11	EN-E = 250.	60.	M:SPC	86026
	(E,P)	FN: 5- B- 11	EN-E = 35.	55.	M:DBT,SIG	87030
				125.		
	(E,D)	FN: 5- B- 10	EN-E = 250.	60.	M:SPC	86026
					D:E,T	
	(E,HE3)	FN: 4-BE- 9	EN-E = 100.	78.	M:SPC,SIG	86023
			225.			
	(E,A)	FN: 4-BE- 8	EN-E = 100.	78.	M:SPC,SIG	86023
			225.			
	(P,G)	TN: 5- B- 11	EN-P = 1.065	0.	M:SPC,SIG	86028
			1.085			
	(P,G)	TN: 5- B- 11	EN-P = 20.	30.	M:SPC,SIG,SIG-0,DST	88034
			100.	150.		
	(P,G)	TN: 5- B- 11	EN = 0.	55.		90026
			15.11		D:E,J-PI,T	
C- 13	(E,E')	FN: 6- C- 13	EN-E = 415.	140.	M:SPC,FMF,SIG	87031
			485.	160.	D:MULT	
	(E,E')	FN: 6- C- 13	EN-E = 78.	45.	M:SPC,FMF	89036
			339.	160.	D:MATR,MULT,TRDEN	
	(N,G)	TN: 6- C- 12	EN-N = 7.	36.	M:DBT,SIG,SIG-0	86034
			19.5	135.		
	(N,G)	TN: 6- C- 12	EN-N = 6.5	90.	M:SPC,SIG,SIG-0	87032
			18.5			
	(N,G)	TN: 6- C- 12	EN-N = 8.	90.	M:SPC,SIG,SIG-0	90031
			11.			
C- 14	(E,E')	FN: 6- C- 14	EN-E = 81.9	180.	M:SPC,FMF,SIG	89037
			288.9		D:MULT,E,J-PI	
	(N,G)	TN: 6- C- 13	EN = ----	125.	M:SPC	90032
			8.5		D:Q-WIDTH,MULT,TRR	

Z=7

NITROGEN

A=13,14,16

N- 0	(P,G)		EN-P = 168.	30.	M:SPC,DST,SIG	89038
			200.	150.		
N- 13	(P,G)	TN: 6- C- 12	EN-P = 0.4	90.	M:SPC,SIG	87033
			2.5			
	(P,G)	TN: 6- C- 12	EN-P = 20.	30.	M:SPC,SIG,SIG-0,DST	88034
			100.	150.		
N- 14	(G,N)	FN: 7- N- 13	EN = 12.5	4PI	M:SIG	87036E
			15.5			
	(G,D)	FN: 5- B- 12	EN = ----	43.	M:SPC,SPC-IMP,SIG	87035
			825.	50.		
	(E,E)	FN: 7- N- 14	EN-E = 80.	150.	M:FMF	87034
			372.6	180.	D:MULT,T	
	(E,E')	FN: 7- N- 14	EN-E = 80.	150.	M:FMF	87034
			372.6	180.	D:MULT,T	
	(P,G)	TN: 6- C- 13	EN-P = 1.46		M:ABI,SIG,SIG-0	86036
					D:STR,MULT,Q-WIDTH	
N- 15	(G,G')	FN: 7- N- 15	EN = 6.6			87037
			9.4		D:E,J-PI,SPCTF	

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
N- 15	(G,N)	FN: 7- N- 14	EN = 10. 26.5 ...	4PI	M:SIG,SIG-0	89039
			..... 21.		D:MULT,T	.....
	(G,2N)	FN: 7- N- 13	EN = 21. 28.		M:SIG	88042
	(G,MON)		..... 10. 26.5 ...	4PI	D:T,G-WIDTH	.....
			..... 10. 26.5 ...		M:SIG	89039
	(G,ABS)		..... 10. 26.5 ...	4PI	M:SIG	89039
			..... 70. 430.	40.	M:FMF	88041
	(E,E)	FN: 7- N- 15	EN-E = 70. 430.	40.	D:CDENS	.....
			..... 0.25 ... 0.	0.	M:SPC,DST,SIG,BRANCH	90033
	(P,G)	TN: 6- C- 14	EN-P = 0.25 ... 0.	120.	D:STR,S(0)	.....
Z=8 OXYGEN A=14,15,16,17,18						
O- 14	(P,G)	TN: 7- N- 13	EN-P = 0.544		M:SPC	90034
O- 15	(P,G)	TN: 7- N- 14	EN-P = 0.2	0.	M:SPC,DST,ABI,SIG	87038
			..... 3.6 ... 135.		D:E,J-PI,G-WIDTH	.....
	(HE3,G)	TN: 6- C- 12	EN = 16.5	90.	M:SPC,SIG,SIG-0,SIG-1	89040
			..... 25.5 ...			.....
O- 16	(G,G)	FN: 8- O- 16	EN = 21.7	45.	M:SPC,DST,SIG,ABS	87041E
	(G,MON)		..... 27.5 ... 135.		D:MULT	.....
	(G,N)	FN: 8- O- 15	EN = 150.	49.	M:SPC,DST,MES,SIG	89041
			..... 88. ....			.....
	(G,N)	FN: 8- O- 15	EN = 150.	49.	M:SPC,DST,SIG	89042
			..... 250. 88. ....			.....
	(G,N+P)	FN: 7- N- 14	EN = 187.	30.	M:SPC,SPC-IMP,DST,SIG	87002
	(G,MON)		..... 427. 170.		D:SEP	.....
	(G,N+P)	FN: 7- N- 14	EN = 40.		R:SIG,CORR	88005
			..... 120. ....			.....
	(G,N+P)	FN: 7- N- 14	EN = 30.	0.	M:SIG,CORR(E),ABI	89043
			..... 150. 180. ....			.....
	(G,P)	FN: 7- N- 15	EN = 187.	30.	M:SPC,SPC-IMP,DST,SIG	87002
	(G,MON)		..... 427. 170.		D:SEP	.....
	(G,P)	FN: 7- N- 15	EN = ----	30.	M:DST,SIG,SIG-0	88043
			..... 25.8 ... 150. ....			.....
	(G,P)	FN: 7- N- 15	EN = 196.	20.	M:SPC,DST,SIG,SIG-0	88047
			..... 361. 150. ....			.....
	(G,P)	FN: 7- N- 15	EN = 61.	90.	M:SPC	90029
	(G,MON)		.....		D:T	.....
(G,P)	FN: 7- N- 15	EN = ----	55.	M:SPC	90035	
(G,MON)		..... 10. ....			.....
(G,2P)	FN: 6- C- 14	EN = 187.	30.	M:SPC,SPC-IMP,DST,SIG	87002	
(G,MON)		..... 427. 170.		D:SEP	.....
(G,ABS)		EN = 90.		M:SIG	88121	
		..... 400. ....			.....
(G,ABS)		EN = 10.		R:SIG	90086	
		..... 35. ....			.....
(G,I)		EN = 90.		M:SIG	88121	
		..... 400. ....			.....
(E,E')	FN: 8- O- 16	EN-E = 90.	90.	M:SPC,FMF	86036	
		..... 357. 160.		D:TRDEN	.....
(E,E')	FN: 8- O- 16	EN-E = 537.	37.1	M:SIG,FMF	87001	
		..... 730. ....			.....
(E,E')	FN: 8- O- 16	EN = 10.	90.	M:SPC,DST,FMF	87040	
		..... 23. 160.		D:MULT,T,E,J-PI	.....
(E,E')	FN: 8- O- 16	EN-E = 71.26	34.	M:SPC,DST,SIG	89044	
		.....	57.	D:B(EL),T	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
O- 16	(E,E'+P)	FN: 7- N- 15	EN-E = 130.	0.	M:SPC,DST,COINC,SIG	87043
			.....	180.		.....
	(E,E'+A)	FN: 6- C- 12	EN-E = 130.	0.	M:SPC,DST,COINC,SIG	87043
			.....	180.		.....
	(P,G)	TN: 7- N- 15	EN-P = 0.43		M:ABI,SIG,SIG-0	86035
			..... 0.9 ...		D:STR,MULT,G-WIDTH	.....
	(P,G)	TN: 7- N- 15	EN-P = 10.	56.	M:SPC,DST,SIG,SIG-0	87042
			..... 17. 131. ....			.....
	(P,G)	TN: 7- N- 15	EN-P = 20.	30.	M:SPC,SIG,SIG-0,DST	88034
			..... 100. 150. ....			.....
	(P,G)	TN: 7- N- 15	EN-P = 20.8	30.	M:SPC,SIG,SIG-0,A-POW	88045
			.....	120.		.....
	(P,G)	TN: 7- N- 15	EN = 17.8	25.	M:SPC,DST,SIG,A-POW	88046
	(P,POL)		..... 24.9 ... 155.		D:MULT	.....
	(P,G)	TN: 7- N- 15	EN-P = 20.	45.	M:SPC,DST,A-POW,SIG	89045
			..... 90. 120.		D:SPCTF	.....
	(P,G)	TN: 7- N- 15	EN = 35.	23.	M:SPC,DST,SIG,SIG-0	89046
	(A,G)		..... 39. 155.		D:MULT	.....
	(A,G)	TN: 6- C- 12	EN-A = 0.94	15.	M:SPC,DST,SIG,SIG-0	87039
			..... 2.84 ... 150.		D:MULT,TRR,S(0)	.....
		EN-A = 1.29		M:SPC,COINC,SIG	88044	
		..... 3.		D:MULT	.....
O- 17	(G,N)	FN: 8- O- 16	EN = 16.5	90.	M:SPC-DP,SIG,ABI	89047E
			..... 28. ....			.....
	(G,P)	FN: 7- N- 16	EN = 16.5	90.	M:SPC-DP,SIG,SIG-1	89047E
			..... 28. ....			.....
	(E,E)	FN: 8- O- 17	EN-E = 249.	41.7	M:FMF,SIG	88050
			..... 685.1 ... 160.		D:MULT	.....
	(E,E')	FN: 8- O- 17	EN-E = 194.3	90.	M:SPC,FMF	86037
			..... 268.8 ... 159.8 ...		D:B(EL),E,G-WIDTH	.....
	(E,E')	FN: 8- O- 17	EN-E = 119.4	90.	M:SPC,DST,SIG,FMF	87044
			..... 268.8 ...		D:E,J-PI,T,B(EL)	.....
(N,G)	TN: 8- O- 16	EN = ----	125.	M:SPC	88048	
		..... 10.		D:STR,E,J-PI,G-WIDTH	.....
(D,G)	TN: 7- N- 15	EN = 26.	35.	M:SPC,DST,SIG,SIG-0	88049	
		..... 39. 135. ....			.....
O- 18	(G,N)	FN: 8- O- 17	EN = 14.	48.	M:DST,SIG,SIG-0,SIG-1	87045
			..... 26. 139.		D:T,MULT	.....
	(E,E')	FN: 8- O- 18	EN-E = 194.3	90.	M:SPC,FMF	86037
			..... 268.8 ... 159.8 ...		D:B(EL),E,J-PI	.....
	(E,E')	FN: 8- O- 18	EN-E = 120.	90.	M:SPC,DST,SIG,FMF	90036
			..... 300. 160.		D:B(EL),MATR	.....
(A,G)	TN: 6- C- 14	EN = ----	30.	M:SPC,DST,ABY,BRANCH	87046	
		..... 8.283 ... 90.		D:E,J-PI,G-WIDTH,MULT	.....
Z=9 FLUORINE A=17,18,19						
F- 17	(P,G)	TN: 8- O- 16	EN-P = 0.4	90.	M:SPC,SIG	87033
			..... 2.6 ...			.....
	(P,G)	TN: 8- O- 16	EN-P = 20.	30.	M:SPC,SIG,SIG-0,DST	88034
			..... 100. 150. ....			.....
	(P,G)	TN: 8- O- 16	EN-P = 20.8	30.	M:SPC,SIG,SIG-0,A-POW	88045
		.....	120.		.....
(P,G)	TN: 8- O- 16	EN = 17.	35.	M:SPC,DST,SIG,SIG-0	88049	
		..... 41. 135. ....			.....
F- 18	(A,G)	TN: 7- N- 14	EN-A = 1.63	0.	M:SPC	89048
		.....		D:E	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER	
AL- 26	(P,G)	TN:12-MG- 25	EN-P = 1.025	0.	M:SPC,DST,SIG	87053	
			.....	90.	D:STR,E,J-PI,G-WIDTH	.....
	(P,G)	TN:12-MG- 25	EN-P = 1.195	0.	M:SPC,DST	87054	
			.....	136.	D:E	.....
	(P,G)	TN:12-MG- 25	EN = 6.5	.....	M:SIG	89050
			.....	8.5	D:STR,MULT,B(EL)	.....
(P,G)	TN:12-MG- 25	EN-P =	0.374	.....	D:TRR	90042
			.....	0.15	M:SPC,BRANCH	90043
			.....	0.36	D:E,J-PI,T,TRR	.....
	AL- 27	(G,G')	FN:13-AL- 27	EN = 7.66	127.	M:SPC	87055
				10.37	D:E,J-PI,G-WIDTH
		(G,N)	FN:13-AL- 26	EN =	19.5	D:IRAT	87056E
			.....	30.	R:SIG,PTON	89057
(G,N+P)		FN:12-MG- 25	EN =	30.	R:SIG,PTON	89057	
			.....	30.	M:POL	89015
(G,P)	FN:12-MG- 26	EN = 350.	72.	.....	R:SIG,PTON	89057
			.....	30.	M:SIG	89059
			.....	30.	D:MULT	.....
	(G,A)	FN:11-NA- 23	EN =	30.	M:SIG	89059	
			.....	3.	D:MULT	87057
	(G,ABS)		EN = 38.	.....	M:SIG	89059
(G,ABS)		EN = 15.	.....	D:SRE	90086	
		EN = 28.	.....	R:SIG	90086	
	(G,F)		EN = 800.	.....	M:ABY,SIG	89058
		.....	1800.	.....	M:SIG	90044
	(G,P)		EN = 800.	.....	M:SIG	90044
			.....	1800.	M:SIG	90019
(G,XP)		EN = 600.	72.	.....	R:SIG	90086
		EN = 15.	.....	28.	R:SIG	90086
	(E,E'+P)	FN:12-MG- 26	EN-E = 780.	50.1	M:SPC,DST,MES,SIG	89033	
			.....	72.9	M:SIG	89059
	(E,P)	FN:12-MG- 26	EN-E = 16.5	0.	M:SIG	89059	
			.....	30.	D:MULT	89059
(E,A)	FN:11-NA- 23	EN-E = 16.5	0.	M:SIG	89059		
			.....	30.	D:MULT	87054
	(P,G)	TN:12-MG- 26	EN-P = 2.141	0.	M:SPC,DST	87054	
			.....	2.22	D:E	88058
	(P,G)	TN:12-MG- 26	EN-P = 0.31	55.	M:SPC,DST,BRANCH,LFT	88113	
			.....	1.84	D:E,J-PI	89054
(P,G)	TN:12-MG- 26	EN = 0.	.....	R:E,J-PI,T,STR	90043	
			.....	8.1	M:SPC,ABY	90043
			.....	0.5	M:SPC,BRANCH	90043
			.....	0.15	D:E,J-PI,T,TRR	.....
			.....	0.36	D:E,J-PI,T,TRR	.....
			.....	0.36	D:E,J-PI,T,TRR	.....
Z=14 SILICON			A=27,28,29,30,31				
SI- 0	(P,G)		EN-P = 168.	50.	M:SPC,DST,SIG	89038	
			.....	200.	.....	150.

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
SI- 27	(P,G)	TN:13-AL- 26	EN = 4.139	M:SPC,DST,SIG	86042
			8.367	D:E,J-PI,TRR
SI- 28	(G,G)	FN:14-SI- 28	EN = 17.	135.	M:SPC,SIG	89055
			28.	M:SPC,SIG,SIG-0,SIG-1	89055
	(G,G')	FN:14-SI- 28	EN = 17.	136.	M:SPC,SIG,SIG-0,SIG-1	89055
			28.	D:MULT	89057
	(G,MON)	FN:14-SI- 27	EN =	30.	R:SIG,PTON	89057
			30.	R:SIG,PTON	89057
(G,N)	FN:13-AL- 26	EN =	30.	M:SPC,SIG,SIG-0,SIG-1	87058	
		.....	16.8	R:SIG,PTON	89057
(G,N+P)	FN:13-AL- 27	EN =	25.7	R:SIG,PTON	89057	
		.....	30.	M:SPC,SIG,SIG-0,ABI	87058
	(G,P)	FN:12-MG- 24	EN = 16.8	R:SIG	90086
			25.7	R:SIG	90086
	(G,MON)	FN:12-MG- 24	EN = 15.	R:SIG	90086
			28.	M:SPC,COINC,FWF	86045
(G,ABS)	FN:12-MG- 24	EN = 15.	.....	D:MULT,STR	86045
		.....	28.	M:SPC,COINC,FWF	86045
(G,XP)	FN:13-AL- 27	EN-E = 183.5	0.	D:MULT,STR	86045	
		.....	180.	M:SPC	88048
	(E,E'+A)	FN:12-MG- 24	EN-E = 183.5	0.	D:STR,E,J-PI,G-WIDTH	86043
			180.	D:E,J-PI,T	86044
	(N,G)	TN:14-SI- 27	EN =	125.	M:SIG,BRANCH	86044
			10.	D:STR,E,J-PI,G-WIDTH	86046
(P,G)	TN:13-AL- 27	EN-P =	1.911	M:ABY	86046	
		.....	2.073	D:STR	87049
(P,G)	TN:13-AL- 27	EN = 14.626	90.	M:SPC,ABY	87049	
		.....	15.04	D:STR	88034
(P,G)	TN:13-AL- 27	EN-P = 0.988	0.	M:SPC,SIG,SIG-0,DST	88034	
		.....	0.992	M:SPC,SIG,SIG-0,A-POW	88045
(P,G)	TN:13-AL- 27	EN-P = 20.	30.	M:SPC,SIG,SIG-0,A-POW	88045	
		.....	100.	M:SPC,SIG,SIG-0,A-POW	88045
	TN:13-AL- 27	EN-P = 20.8	30.	M:SPC,SIG,SIG-0,A-POW	88045	
		.....	120.	M:SPC,SIG,SIG-0,A-POW	88045
	TN:13-AL- 27	EN-P = 0.2	90.	M:SPC,ABY	88059	
		.....	0.36	D:E,J-PI,STR,TRR	88060
TN:13-AL- 27	EN-P = 0.5	0.	M:SPC,DST,SIG,SIG-0	88060		
	.....	1.8	M:SPC,ABY	89054	
(P,G)	TN:13-AL- 27	EN-P =	0.5	M:SPC,ABY	89054	
		.....	0.655	M:BRANCH,LFT	90041
	TN:13-AL- 27	EN-P = 1.317	90.	D:E,J-PI,T	90043	
		.....	0.15	M:SPC,BRANCH	90043
	(A,G)	TN:12-MG- 24	EN = 0.36	55.	D:E,J-PI,T,TRR	86047
			5.	M:SIG	86047
		.....	35.	D:SRE,MULT,T	.....
SI- 29	(G,N+G')	FN:14-SI- 28	EN =	135.	M:SPC-DP,ABI	86049
			26.	M:SPC-DP,ABI	86049
	(G,N)	FN:14-SI- 28	EN =	26.	M:SPC-DP,ABI	86049
			9.6	M:SIG	87059
	(G,MON)	FN:13-AL- 28	EN = 18.8	M:SPC-DP,ABI	86049
			26.	M:SPC-DP,ABI	86049
(G,P+G')	FN:13-AL- 28	EN =	135.	M:SPC-DP,ABI	86049	
		.....	26.	M:SPC-DP,ABI	86049
		.....	26.	M:SPC-DP,ABI	86049

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER	
SI- 29	(G,P)	FN:13-AL- 28	EN = 20. 60. ....	...	M:SIG D:MULT	90045
	(G,2P)	FN:13-AL- 27	EN = 20. 60. ....	...	M:SIG D:MULT	90045
	(G,X+G')		EN = 26.	135.	M:SPC-DP,ABI	86049	
	(N,G)	TN:14-SI- 28	EN-N = 0.485 ... 0.806... 125.	90.	M:SPC D:STR,J-PI,G-WIDTH	86048	
	(N,G)	TN:14-SI- 28	EN-N = 0.25 ... 19.0 ...	...	M:SPC,SIG D:TOT,STR,E,J-PI	87060
	SI- 30	(G,N+G')	FN:14-SI- 29	EN = 26.	135.	M:SPC-DP,ABI	86049
		(G,N)	FN:14-SI- 29	EN = 26.	M:SPC-DP,ABI	86049
		(G,2N)	FN:14-SI- 28	EN = 26.	M:SPC-DP,ABI	86049
		(G,N+P)	FN:13-AL- 28	EN = 26.	135.	M:SPC-DP,ABI	86049
		(G,P+G')	FN:13-AL- 29	EN = 26.	135.	M:SPC-DP,ABI	86049
(G,P)		FN:13-AL- 29	EN = 26. ....	...	M:SPC-DP,ABI	86049
(G,P)		FN:13-AL- 29	EN = 20. 60. ....	...	M:SIG D:MULT	90045
(G,2P)		FN:13-AL- 28	EN = 20. 60. ....	...	M:SIG D:MULT	90045
(G,A+G')		FN:12-MG- 26	EN = 26.	135.	M:SPC-DP,ABI	86049	
(G,A)		FN:12-MG- 26	EN = 26. ....	...	M:SPC-DP,ABI	86049
(G,X+G')		EN = 26.	135.	M:SPC-DP,ABI	86049		
SI- 31	(N,G)	TN:14-SI- 30	EN-N = 0.1 ... 12. ....	...	M:SIG	90046

Z=15		PHOSPHORUS		A=29,30,31		
P- 29	(P,G)	TN:14-SI- 28	EN-P = 7. 24.	30. 130.	M:SPC,DST,ABY,SIG D:STR,MULT,E,J-PI,T	86050
	(P,G)	TN:14-SI- 28	EN-P = 20.8 ... 120.	30.	M:SPC,SIG,SIG-0,A-POW	88045
	(P,G)	TN:14-SI- 28	EN-P = 0.37 ... 2.95 ... 105.	0.	M:SPC,DST,SIG,SIG-0 D:STR,SPCTF,TRR,S(0)	90047
P- 30	(P,G)	TN:14-SI- 29	EN-P = 2.777 ... 90.	0.	M:SPC,DST D:STR,MULT	88114
	(P,G)	TN:14-SI- 29	EN = 6.5 ... 8.5 ...	...	M:SIG D:STR,MULT,B(EL)	89050
P- 31	(G,N+G')	FN:15- P- 30	EN = 32.	140.	M:ABI D:E,J-PI	87061E
	(G,N+G')	FN:15- P- 30	EN = 30. ....	...	R:ABY,E,J-PI,T	88061
	(G,N)	FN:15- P- 30	EN = 32. ....	...	M:ABI	87061E
	(G,N+P+G')	FN:14-SI- 29	EN = 32.	140.	M:ABI D:E,J-PI	87061E
	(G,P+G')	FN:14-SI- 30	EN = 32.	140.	M:ABI D:E,J-PI	87061E

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
P- 31	(G,P+G')	FN:14-SI- 30	EN = 30. ....	...	R:ABY,E,J-PI,T	88061
	(G,P)	FN:14-SI- 30	EN = 32. ....	...	M:ABI	87061E
	(G,A+G')	FN:13-AL- 27	EN = 32.	140.	M:ABI D:E,J-PI	87061E
	(G,A)	FN:13-AL- 27	EN = 32. ....	...	M:ABI	87061E
	(G,X+G')		EN = 32.	140.	M:ABI D:E,J-PI	87061E
	(G,X+G')		EN = 30. ....	...	R:ABY,E,J-PI,T	88061
	(P,G)	TN:14-SI- 30	EN-P = 1.94 ... 2.11 ... 90.	0.	M:ABY,DST,MIX,BRANCH D:MULT,B(EL),E,J-PI	88062

Z=16		SULPHUR		A=32,34		
S- 32	(G,G)	FN:16- S- 32	EN = 17. 28.	135.	M:SPC,SIG	89056
	(G,G')	FN:16- S- 32	EN = 17. 28.	135.	M:SPC,SIG,SIG-0,SIG-1 D:MULT	89055
	(G,N+G')	FN:16- S- 31	EN = 32.	140.	M:SPC-DP,SIG,ABI	86051E
	(G,N)	FN:16- S- 31	EN = 32.	140.	M:SPC-DP	86051E
	(G,N)	FN:16- S- 31	EN = 18. 29. 139.	48.	M:DST,SIG,SIG-0	88063
	(G,P+G')	FN:15- P- 31	EN = 32.	140.	M:SPC-DP,SIG,ABI	86051E
	(G,P)	FN:15- P- 31	EN = 32.	140.	M:SPC-DP	86051E
	(G,X+G')		EN = 32.	140.	M:SPC-DP,ABI,SIG	86051E
	(E,E')	FN:16- S- 32	EN-E = 151. 258.	118. 180.	M:SPC,DST D:SPCTF,STR,T	90048
	(N,G)	TN:16- S- 31	EN = 10.	125.	M:SPC D:STR,E,J-PI,G-WIDTH	88048
(P,G)	TN:15- P- 31	EN-P = 1.25 ...	...	M:ABI,SIG,SIG-0 D:STR,MULT,G-WIDTH	88035	
S- 34	(G,N+P)	FN:15- P- 32	EN = 22. 26. ....	...	M:ABY,SIG D:T	86052
	(G,P)	FN:15- P- 33	EN = 13. 25. ....	...	M:ABY,SIG D:T	86052

Z=17		CHLORINE		A=35,36,38		
CL- 35	(G,N)	FN:17-CL- 34	EN = 18. ....	...	D:IRAT	87056E
	(P,G)	TN:16- S- 34	EN-P = 0.4 ... 0.7 ... 90.	0.	M:ABY,DST,MIX,BRANCH D:MULT,B(EL),E,J-PI	88062
CL- 36	(N,G)	TN:17-CL- 35	EN-N = 12. ....	...	M:SIG	90046
CL- 38	(N,G)	TN:17-CL- 37	EN-N = 12. ....	...	M:SIG	90046

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Z=18 ARGON A=40						
AR- 40	(G,G)	FN:18-AR- 40	EN = 4.7	90.	M:SPC,ASYM,BRANCH	86054
	G,POL		10.2	...	D:E,J-PI,B(EL)	...
	(G,G')	FN:18-AR- 40	EN = 8.5	90.	M:SPC,INT,DST	88065
	(G,G')	FN:18-AR- 40	EN = 11.8	127.	D:J-PI,G-WIDTH	...
	(G,G')	FN:18-AR- 40	EN = 8.	90.	M:SPC,DST	88115
	(A,G)	TN:16- S- 36	EN-A = 2.3	55.	D:E,J-PI,G-WIDTH,MULT	...
	(A,G)	TN:16- S- 36	EN-A = 3.55	90.	M:SPC,ABY,BRANCH	86053
	(A,G)	TN:16- S- 36	EN-A = 2.35	0.	D:STR,E,J-PI	...
	(A,G)	TN:16- S- 36	EN-A = 3.5	90.	M:SPC,DST,LFT	88064
	(A,G)	TN:16- S- 36	EN-A = 3.5	90.	D:E,J-PI,MULT	...
Z=19 POTASSIUM A=37,39,41						
K- 37	(P,G)	TN:18-AR- 36	EN-P = 0.9	0.	M:SPC,DST,ABY,BRANCH	88066
	(P,G)	TN:18-AR- 36	EN-P = 3.	90.	D:E,J-PI,G-WIDTH	...
K- 39	(G,G')	FN:19- K- 39	EN = 6.6	...	D:E,J-PI,SPCTF	87037
	(G,G')	FN:19- K- 39	EN = 9.4	127.	M:SPC	88067
	(G,G')	FN:19- K- 39	EN = 6.6	...	D:STR,J-PI,G-WIDTH	...
	(G,N+G')	FN:19- K- 38	EN = 9.4	140.	M:SPC,ABI	87062E
	(G,N)	FN:19- K- 38	EN = 32.	...	D:E,J-PI	...
	(G,N)	FN:19- K- 38	EN = 20.	...	D:IRAT	87056E
	(G,N)	FN:19- K- 38	EN = 32.	...	M:ABI	87062E
	(G,P+G')	FN:18-AR- 38	EN = 32.	140.	M:SPC,ABI	87062E
	(G,P)	FN:18-AR- 38	EN = 32.	...	D:E,J-PI	87062E
	(G,P)	FN:18-AR- 38	EN = 32.	...	M:ABI	87062E
	(G,A+G')	FN:17-CL- 35	EN = 32.	140.	M:SPC,ABI	87062E
	(G,A)	FN:17-CL- 35	EN = 32.	...	D:E,J-PI	87062E
	(G,A)	FN:17-CL- 35	EN = 32.	...	M:ABI	87062E
	(G,X+G')	FN:18-AR- 38	EN = 32.	140.	M:SPC,ABI	87062E
	(P,G)	TN:18-AR- 36	EN-P = 1.39	0.	D:E,J-PI	86055
	(P,G)	TN:18-AR- 36	EN-P = 1.98	90.	M:SPC,DST,ABY,LFT	...
	(P,G)	TN:18-AR- 36	EN-P = 1.98	90.	D:E,J-PI	...
K- 41	(P,G)	TN:18-AR- 40	EN-P = 2.3	0.	M:SPC,COINC,ABY,SIG	86056
	(P,G)	TN:18-AR- 40	EN-P = 2.3	90.	D:E,J-PI	...
Z=20 CALCIUM A=40,41,42,44,48						
CA- 0	(G,N)		EN = 26.	55.	M:DST,SIG,ASYM	87066
	(G,N)		EN = 40.	125.	...	...
	(G,N)		EN = 20.	55.	M:SPC,SIG,DST,ASYM	88068
	G,MON		EN = 39.	125.	...	...
CA- 40	(G,G)	FN:20-CA- 40	EN = 9.604	55.	M:SIG	87063
	G,MON	FN:20-CA- 40	EN = 9.869	...	D:E,J-PI,G-WIDTH	...
	(G,N+G')	FN:20-CA- 39	EN = 32.	140.	M:SPC-DP,SIG,SIG-0	86059E
	(G,N+G')	FN:20-CA- 39	EN = 32.	...	...	...

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
CA- 40	(G,N)	FN:20-CA- 39	EN = 13.	...	M:SIG,SIG-0,SIG-1,ABI	86059E
	(G,N)	FN:20-CA- 39	EN = 30.	...	...	...
	(G,N)	FN:20-CA- 39	EN = 18.	37.5	M:SPC,DST,ASYM,SIG	90050
	(G,N)	FN:20-CA- 39	EN = 30.	166.	...	...
	(G,P+G')	FN:19- K- 39	EN = 140.	...	M:SPC-DP,SIG,SIG-0	86059E
	(G,P+G')	FN:19- K- 39	EN = 32.	...	...	...
	(G,P+G')	FN:18-AR- 38	EN = 140.	...	M:SPC-DP,SIG,ABI	86059E
	(G,P)	FN:19- K- 39	EN = 32.	...	...	...
	(G,P)	FN:19- K- 39	EN = 100.	45.	M:SPC,DST,SIG,SIG-0	86057
	(G,P)	FN:19- K- 39	EN = 300.	135.	...	...
	(G,P)	FN:19- K- 39	EN = 13.	...	M:SIG,SIG-0,SIG-1	86059E
	(G,P)	FN:19- K-395	EN = 30.	...	...	...
	(G,MON)	FN:19- K-395	EN = 61.	90.	M:SPC	90029
	(G,T+G')	FN:18-AR- 37	EN = 140.	...	D:T	...
	(G,T+G')	FN:18-AR- 37	EN = 32.	...	M:SPC-DP,SIG,ABI	86059E
	(G,X+G')	FN:18-AR- 37	EN = 140.	...	...	...
	(G,X+G')	FN:18-AR- 37	EN = 32.	...	M:SPC-DP,SIG,ABI	86059E
	(E,E')	FN:20-CA- 40	EN-E = 100.	90.	M:SIG,RSP	86058
	(E,E'+P)	FN:20-CA- 40	EN-E = 375.	140.	...	...
	(E,E'+P)	FN:19- K- 39	EN-E = 129.	39.9	M:SPC,DST,COINC,MES	88069
	(E,E'+P)	FN:19- K- 39	EN-E = 140.1	...	...	...
	(E,E'+P)	FN:19- K- 39	EN-E = 700.	...	M:SIG	88071
	(E,E'+P)	FN:19- K- 39	EN-E = 100.	...	D:STFUN	...
	(P,G)	TN:19- K- 39	EN-P = 1.3072	76.	M:SPC-IMP,FMF	89060
	(P,G)	TN:19- K- 39	EN-P = 1.595	83.	D:SPCTF	...
	(P,G)	TN:19- K- 39	EN-P = 9.	55.	M:SPC,DST,SIG	87063
	(P,G)	TN:19- K- 39	EN-P = 10.5	...	D:E,J-PI,G-WIDTH	...
	(P,G)	TN:19- K- 39	EN-P = 0.3	90.	D:MULT,STR	...
	(P,G)	TN:19- K- 39	EN-P = 2.9	...	M:SPC,ABY,BRANCH	90049
	(P,G)	TN:19- K- 39	EN-P = 2.9	...	D:Q,STR,E,J-PI,T	...
CA- 41	(E,E)	FN:20-CA- 41	EN-E = 175.	52.	M:SPC,SIG,FMF	88072
	(E,E)	FN:20-CA- 41	EN-E = 320.	155.	D:MULT,RDI	...
	(E,E)	FN:20-CA- 41	EN-E = 85.	180.	M:SPC,SIG,FMF	90051
	(E,E)	FN:20-CA- 41	EN-E = 190.	...	D:MULT	...
CA- 42	(E,E')	FN:20-CA- 42	EN-E = 62.5	35.	M:SPC,DST,FMF	89061
	(E,E')	FN:20-CA- 42	EN-E = 250.	115.	D:MULT,B(EL),E,J-PI	...
	(P,G)	TN:19- K- 41	EN = 0.6	56.	M:SIG,AEY	86060
	(P,G)	TN:19- K- 41	EN = 4.	...	...	...
CA- 44	(G,G')	FN:20-CA- 44	EN = 4.	120.	M:SPC,DST	86061
	G,MON	FN:20-CA- 44	EN = 7.	...	D:STR,MULT,B(EL)	...
	(E,E')	FN:20-CA- 44	EN-E = 82.5	35.	M:SPC,DST,FMF	89061
	(E,E')	FN:20-CA- 44	EN-E = 250.	115.	D:MULT,B(EL),E,J-PI	...
CA- 48	(G,N)	FN:20-CA- 47	EN = 12.	...	M:SIG	87064
	(G,N)	FN:20-CA- 47	EN = 26.	...	...	...
	(G,2N)	FN:20-CA- 46	EN = 12.	...	M:SIG	87064
	(G,2N)	FN:20-CA- 46	EN = 26.	...	...	...
	(G,XN)	FN:20-CA- 46	EN = 12.	...	M:SIG	87064
	(G,XN)	FN:20-CA- 46	EN = 26.	...	D:T	...
	(G,N+P)	FN:19- K- 46	EN = 12.	...	M:SIG	87064
	(G,N+P)	FN:19- K- 46	EN = 26.	...	...	...
	(G,P)	FN:19- K- 47	EN = 15.	90.	M:SIG,SIG-0,SIG-1	87064
	(G,P)	FN:19- K- 47	EN = 29.	...	...	...
	(G,YP)	FN:19- K- 47	EN = 15.	90.	M:SIG	87064
	(G,YP)	FN:19- K- 47	EN = 29.	...	D:T	...
	(G,ABS)	FN:19- K- 47	EN = 12.	...	M:SIG	87064
	(G,ABS)	FN:19- K- 47	EN = 26.	...	...	...

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
CA- 48	(E,E')	FN:20-CA- 48	EN-E = 100.	90.	M:SIG,RSP	86058
			..... 375.	... 140.		
	(N,G)	TN:20-CA- 47	EN-N = ----		M:SIG	87065
			..... 2.	... ..	D:STR,E,J-PI,G-WIDTH	
Z=21 SCANDIUM A=41,45						
SC- 41	(P,G)	TN:20-CA- 40	EN-P = 0.64	0.	M:SPC,DST,SIG,BRANCH	87067
			..... 3.5	... 90.	D:E,J-PI,G-WIDTH	
SC- 45	(G,N)	FN:21-SC- 44	EN = ----			87056E
			..... 20.	... ..	D:IRAT	
	(G,N)	FN:21-SC- 44	EN = 11.		M:SIG,SIG-M	90052
			..... 21.	... ..	D:IRAT	
Z=22 TITANIUM A=46,48,50						
TI- 0	(G,F)		EN = 800.		M:ABY,SIG	89058
			.....1800.	... ..	
	(G,F)		EN = 800.		M:SIG	90044
			.....1800.	... ..	
TI- 46	(G,N+P)	FN:21-SC- 44	EN = ----			87056E
			..... 48.	... ..	D:IRAT	
	(E,E')	FN:22-TI- 46	EN-E = 40.	165.	R:SPC,STR	90053
				
TI- 48	(E,E')	FN:22-TI- 48	EN-E = 20.	85.	M:SPC,DST,FMF	89062
			..... 220.	... 165.	D:MULT,B(EL),E,J-PI	
	(E,E')	FN:22-TI- 48	EN-E = 40.	165.	R:SPC,STR,MULT,FMF	90053
				
TI- 50	(E,E')	FN:22-TI- 50	EN-E = 70.	40.	M:SPC,DST,SIG,FMF	88073
			..... 361.	... 154.	D:MULT,B(EL)	
Z=23 VANADIUM A=47,49,50,51						
V- 0	(G,X)		EN = ----		M:NDIS	89063
			.....4500.	... ..	
V- 47	(P,G)	TN:22-TI- 46	EN-P = 0.4	0.	M:SPC,DST,ABY,MIX	86063
			..... 1.8	... 90.	D:STR,E,J-PI,T	
V- 49	(P,G)	TN:22-TI- 48	EN-P = 1.5		M:SPC,SIG,SIG-0,SIG-V	90054
			..... 3.5	... ..	
V- 50	(P,G)	TN:22-TI- 49	EN-P = 1.5	55.	M:SPC,SIG,SIG-0,SIG-1	89064
	P,POL		..... 3.25	... ..	
V- 51	(G,A)	FN:21-SC- 47	EN = 18.		M:ABY,SIG,ABI	90055
			..... 25.	... ..	
	(E,E'+P)	FN:22-TI- 50	EN = 0.		M:SPC,SPC-IMP	86062
			..... 5.	... ..	D:SPCTF,E,J-PI,RDI	
	(E,E'+P)	FN:22-TI- 50	EN-E = 265.	31.53	M:SPC,MES	88116
			..... 410.	... 77.19	D:SPCTF,RDI	
	(E,E'+P)	FN:22-TI- 50	EN-E = 265.		M:SPC,SPC-IMP	88122
			..... 410.	... ..	D:SPCTF,RDI	

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
V- 51	(E,E'+P)	FN:22-TI- 50	EN = 0.		R:SPC-IMP,SPCTF,STR	90006
			..... 20.	... ..	
	(E,E'+P)	FN:22-TI- 50	EN = 0.		M:SPC	90009
			..... 22.	... ..	D:SPCTF,STR	
Z=24 CHROMIUM A=50,52						
CR- 50	(E,E')	FN:24-CR- 50	EN-E = 40.	165.	R:SPC	90053
				
CR- 52	(E,E')	FN:24-CR- 52	EN-E = 170.	115.	M:SPC,DST,FMF	88074
			..... 260.	... 154.	D:MULT,T	
Z=25 MANGANESE A=51,53,55						
MN- 51	(P,G)	TN:24-CR- 50	EN-P = 1.7	0.	M:SPC,ABY,DST,BRANCH	86064
			..... 2.5	... 90.	D:STR,E,J-PI	
	(P,G)	TN:24-CR- 50	EN = 7.7		M:SPC,DST	88075
			..... 8.3	... ..	D:E,J-PI,T	
	(P,G)	TN:24-CR- 50	EN-P = 1.059	0.	M:DST,BRANCH	88076
			..... 1.513	... 90.	D:E,J-PI	
MN- 53	(P,G)	TN:24-CR- 52	EN-P = 1.388	0.	M:SPC,DST,ABY,INT	86065
			..... 1.901	... 90.	D:E,J-PI	
	(P,G)	TN:24-CR- 52	EN = 7.	55.	M:SPC,SIG	88077
			..... 10.	... ..	
	(P,G)	TN:24-CR- 52	EN = 7.91	0.	M:SPC,DST,ABY,BRANCH	90056
			..... 8.19	... 90.	D:STR,E,J-PI,T	
MN- 55	(G,3N)	FN:25-MN- 52	EN = ----			87056E
			..... 49.	... ..	D:IRAT	
Z=26 IRON A=54,55,56,57,58						
FE- 0	(E,E')	FN:26-FE- 0	EN-E = 653.	11.9	M:SIG	88031
			.....1650.	... 53.	D:MULT	
	(E,E')	FN:26-FE- 0	EN-E = 960.	37.5	M:SIG	89001
			.....1500.	... ..	
FE- 54	(G,N)	FN:26-FE- 53	EN = ----	78.	M:SPC	89065
			..... 13.58	... ..	D:STFUN	
	(G,N+P)	FN:25-MN- 52	EN = ----			87056E
			..... 30.	... ..	D:IRAT	
FE- 55	(N,G)	TN:26-FE- 54	EN = ----		M:SPC,INT	87068
			..... 5.775	... ..	D:E,J-PI,G-WIDTH	
FE- 56	(G,N)	FN:26-FE- 55	EN = ----	78.	M:SPC	89065
			..... 12.5	... ..	D:STFUN	
	(G,P)	FN:25-MN- 55	EN = 30.5	0.	M:PTOA	89059
			.....	... ..	D:MULT	
	(G,A)	FN:24-CR- 52	EN = 30.5	0.	M:PTOA	89059
			.....	... ..	D:MULT	
	(E,E')	FN:26-FE- 56	EN-E = 40.	117.	M:SPC,DST,FMF	89066
			..... 68.	... 154.	D:MULT,E,J-PI	
	(E,P)	FN:25-MN- 55	EN-E = 30.5	0.	M:PTOA	89059
			.....	... ..	D:MULT	

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
FE- 56	(E,A)	FN:24-CR- 52	EN-E = 30.5	0.	M:PTOA D:MULT	89059
FE- 57	(G,N)	FN:26-FE- 56	EN = 11.	82. 131.	M:SPC,DST D:STPUN	89065
FE- 58	(G,N)	FN:26-FE- 57	EN = ---- 13.25	78.	M:SPC D:STFUN	89065

Z=27	COBALT	A=55,57,58,59
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CO- 0	(G,F)		EN = 800. 1800.		M:ABY,SIG	89058
CO- 55	(P,G)	TN:26-FE- 54	EN-P = 1.803 1.887	0. 136.	M:SPC,DST D:E	87054
	(P,G)	TN:26-FE- 54	EN-P = 4. 9.		M:SIG	87069
	(P,G)	TN:26-FE- 54	EN-P = 2.35 3.9	0. 90.	M:SPC,DST,BRANCH D:STR,E,J-PI,T	89067
CO- 57	(P,G)	TN:26-FE- 56	EN-P = 1.248 2.065	0. 90.	M:SPC,DST,ABY,INT D:E,J-PI	86065
	(P,G)	TN:26-FE- 56	EN-P = 3.76 3.84	0. 90.	M:SPC,DST,SIG,MIX D:E,J-PI,MULT,B(EL),T	86066
	(P,G)	TN:26-FE- 56	EN-P = 1.6 1.64	0. 137.	M:SPC,DST,SIG,LFT D:E,J-PI	87070
CO- 58	(G,N)	FN:27-CO- 57	EN = ---- 25.		D:E-AV	90057
CO- 59	(G,N)	FN:27-CO- 58	EN = ---- 22.		D:IRAT	87056E
	(G,N)	FN:27-CO- 58	EN = 13. 25.		M:ABY,SIG,SIG-M,ABI	87071E
	(G,F)		EN = 800. 1800.		M:SIG	90044

Z=28	NICKEL	A=58,60,64
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NI- 0	(E,E'+P)		EN = 0. 70.	0. 180.	M:SPC,DST,SIG,COINC	88078
	(E,E'+A)		EN = 0. 70.	0. 180.	M:SPC,DST,SIG,COINC	88078
NI- 58	(G,N)	FN:28-NI- 57	EN = ---- 12.8	78. 135.	M:SPC,SIG	90058
	(G,N)	FN:28-NI- 57	EN = 16. 20.		M:SPC,SIG,SIG-0,SIG-V	90059
	(G,P)	FN:27-CO- 57	EN = 30.5	0.	M:PTOA D:MULT	89059
	(G,A)	FN:26-FE- 54	EN = 30.5	0.	M:PTOA D:MULT	89059
	(E,E')	FN:28-NI- 58	EN-E = 39. 57.	93. 165.	M:SPC,DST,FMF,SIG D:MULT,STR,B(EL),E	87072
	(E,E'+P)	FN:27-CO- 57	EN = 8. 25.	10. 210.	M:SPC	88079
	(E,E'+P)	FN:27-CO- 57	EN-E = 780.	50.1 72.9	M:SPC,DST,MES,SIG	89033

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
NI- 58	(E,E'+P)	FN:27-CO- 57	EN = 25. 41.	0. 180.	M:SPC,DST D:MULT	89068
	(E,E'+A)	FN:26-FE- 54	EN = 8. 25.	10. 210.	M:SPC	88079
	(E,P)	FN:27-CO- 57	EN-E = 30.5	0.	M:PTOA D:MULT	89059
	(E,A)	FN:26-FE- 56	EN-E = 30.5	0.	M:PTOA D:MULT	89059
NI- 60	(G,N)	FN:28-NI- 59	EN = 11.5 13.	78.	M:SPC,SIG	90058
	(G,N+P)	FN:27-CO- 58	EN = ---- 48.		D:IRAT	87056E
	(G,X)	FN: 4-BE- 7	EN = 4500.		M:ABY,SIG	90060
	(E,E'+P)	FN:27-CO- 59	EN = 12. 25.	10. 210.	M:SPC	88079
	(E,E'+A)	FN:26-FE- 56	EN = 12. 25.	10. 210.	M:SPC	88079
NI- 64	(E,E)	FN:28-NI- 64	EN-E = 147.4 356.	29. 56.	M:SPC,DST D:MULT,E,J-PI	88080
	(E,E')	FN:28-NI- 64	EN-E = 147.4 356.	29. 56.	M:SPC,DST D:MULT,E,J-PI	88080

Z=29	COPPER	A=59,61,62,63,64,65
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CU- 0	(G,G)	FN:29-CU- 0	EN = 0.344 1.408	15. 45.	M:SIG	87076
	(G,MON)		EN = 60. 662.	5. 140.	M:DST,SIG,FMF	89070
	(G,C)	FN:29-CU- 0	EN = 60. 5000.		M:ABY	89069
	(G,BE7)		EN = 5000.		M:ABY	89069
	(G,NA24)		EN = 5000.		M:ABY	89069
	(N,G)		EN-N = 0.5 3.		M:SPC,MLTPL,SIG	86070
	(P,G)		EN-P = 72. 150.	90. 150.	M:SPC,DST	88032
	(P,G)		EN-P = 1.93 2.45	0. 90.	M:SPC,DST D:MULT,STR,E,J-PI	88081
	(P,G)		EN = 8.33 8.91	0. 90.	M:SPC,DST D:MULT,B(EL)	88082
	(P,G)		EN-P = 168. 200.	50. 150.	M:SPC,DST,SIG	89038
CU- 59	(S32,G)	TN:13-AL- 27	EN = 54. 77.4	90.	M:SPC,SIG D:G-WIDTH	89071
CU- 61	(P,G)	TN:28-NI- 60	EN-P = 1. 4.	55.	M:ABY,SIG D:STR,TRR	89072
CU- 62	(P,G)	TN:28-NI- 61	EN = 1.05 3.98	65.	M:SIG D:TRR	88083
CU- 63	(G,P)	FN:28-NI- 62	EN = 30.5	0.	M:PTOA D:MULT	89059
	(G,A)	FN:27-CO- 59	EN = 30.5	0.	M:PTOA D:MULT	89059
	(G,X)	FN: 4-BE- 7	EN = 4500.		M:ABY,SIG	90060

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
CU- 63	(G,X)	FN:11-NA- 24	EN =4500.		M:ABY,SIG	90060
	(E,E')	FN:29-CU- 63	EN-E = 70.	80.	M:SPC,FMF	88084
	(E,P)	FN:28-NI- 62	EN = 11.	30.	D:E,J-PI,MULT	86069
	(E,P)	FN:28-NI- 62	EN = 28.	140.	M:SPC,DST,SIG,SIG-0	86069
	(E,A)	FN:27-CO- 59	EN-E = 30.5	0.	D:MULT,T,SRE	89059
	(P,G)	TN:28-NI- 62	EN-P = 1.943	0.	M:PTOA	89059
	(P,G)	TN:28-NI- 62	EN-P = 1.15	55.	D:MULT	86067
	(P,G)	TN:28-NI- 62	EN-P = 1.7	90.	M:PTOA	89059
	(A,G)	TN:27-CO- 59	EN = 22.5	90.	D:MULT	86067
	(LI6,G)	TN:26-FE- 57	EN = 22.5	90.	M:SPC,DST,SIG,ABY	86067
	(C12,G)	TN:23- V- 51	EN = 22.5	90.	D:E,J-PI,STR,MULT	86068
	(O18,G)	TN:21-SC- 45	EN = 22.5	90.	M:SPC,DST,ABY,INT	86068
					D:STR,E,J-PI	89072
					M:ABY,SIG	89072
CU- 64	(N,G)	TN:29-CU- 63	EN-N = 0.5		D:STR,TRR	87073
			3.		M:SPC,SIG	87073
CU- 65	(G,A)	FN:27-CO- 61	EN = 18.		D:LDEN,Q	87073
	(G,X)	FN:29-CU- 60	EN = 4500.		M:SPC,SIG	87073
	(G,X)	FN:29-CU- 61	EN = 4500.		D:LDEN,Q	87073
	(G,X)	FN:29-CU- 64	EN = 4500.		M:SPC,SIG	87073
	(G,X)	FN:17-CL- 39	EN = 4500.		D:LDEN,Q	87073
	(G,X)	FN:25-MN- 56	EN = 4500.		M:SPC,SIG	87073
	(G,X)	FN:26-FE- 52	EN = 4500.		D:LDEN,Q	87073
	(G,X)	FN:27-CO- 55	EN = 4500.		M:SPC,SIG	87073
	(G,X)	FN:27-CO- 56	EN = 4500.		D:LDEN,Q	87073
	(G,X)	FN:27-CO- 57	EN = 4500.		M:SPC,SIG	87073
	(G,X)	FN:27-CO- 58	EN = 4500.		D:LDEN,Q	87073
	(G,X)	FN:27-CO- 61	EN = 4500.		M:SPC,SIG	87073
	(G,X)	FN:28-NI- 57	EN = 4500.		D:LDEN,Q	87073
	(G,X)	FN:19- K- 43	EN = 4500.		M:SPC,SIG	89073
	(G,X)	FN:17-CL- 38	EN = 4500.		D:LDEN,Q	89073
	(G,X)	FN:24-CR- 49	EN = 4500.		M:SPC,SIG	89073
	(G,X)	FN:24-CR- 51	EN = 4500.		D:LDEN,Q	89073

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
CU- 65	(G,X)	FN:25-MN- 54	EN = 4500.		M:ABY,SIG,MDIS	89073
	(G,X)	FN:18-AR- 41	EN = 4500.		M:ABY,SIG,MDIS	89073
	(G,X)	FN:19- K- 42	EN = 4500.		M:ABY,SIG,MDIS	89073
	(G,X)	FN:21-SC- 43	EN = 4500.		M:ABY,SIG,MDIS	89073
	(G,X)	FN:21-SC- 46	EN = 4500.		M:ABY,SIG,MDIS	89073
	(G,X)	FN:21-SC- 48	EN = 4500.		M:ABY,SIG,MDIS	89073
	(G,X)	FN:23- V- 48	EN = 4500.		M:ABY,SIG,MDIS	89073
	(G,X)	FN:25-MN- 52	EN = 4500.		M:ABY,MDIS,SIG,SIG-M	89073
	(G,X)	FN:27-CO- 62	EN = 4500.		M:ABY,MDIS,SIG,SIG-M	89073
	(G,X)	FN: 4-BE- 7	EN = 4500.		M:ABY,SIG,MDIS	89073
	(G,X)	FN:11-NA- 24	EN = 4500.		M:ABY,SIG,MDIS	89073
	(G,X)	FN:21-SC- 44	EN = 4500.		M:ABY,MDIS,SIG,SIG-0	89073
	(G,X)	FN:25-MN- 52	EN = 4500.		M:ABY,MDIS,SIG,SIG-0	89073
	(G,X)	FN:21-SC- 44	EN = 4500.		M:ABY,MDIS,SIG,SIG-M	89073
	(G,X)	FN:17-CL- 34	EN = 4500.		M:ABY,MDIS,SIG,SIG-M	89073
	(G,X)	FN:21-SC- 47	EN = 4500.		M:ABY,SIG,MDIS	89073
	(G,X)	FN:11-NA- 24	EN = 4500.		M:ABY,SIG	90060
	(G,X)	FN: 4-BE- 7	EN = 4500.		M:ABY,SIG	90060
	(G,X)	FN:23- V- 48	EN = 4500.		M:KE	90061
	(G,X)	FN:21-SC- 42	EN = 4500.		M:KE	90061
	(G,X)	FN:25-MN- 52	EN = 4500.		M:KE	90061
	(G,X)	FN:27-CO- 56	EN = 4500.		M:KE	90061
	(G,X)	FN:25-MN- 56	EN = 4500.		M:KE	90061
	(G,X)	FN:27-CO- 58	EN = 4500.		M:KE	90061
	(G,X)	FN:21-SC- 47	EN = 4500.		M:KE	90061
	(G,X)	FN:11-NA- 24	EN = 4500.		M:KE	90061
	(G,X)	FN:19- K- 42	EN = 4500.		M:KE	90061
	(G,X)	FN:21-SC- 44	EN = 4500.		M:KE	90061
	(G,X)	FN:29-CU- 61	EN = 4500.		M:KE	90061
	(E,E')	FN:29-CU- 65	EN-E = 150.	34.	M:SPC,DST,FMF	87074
	(E,E')	FN:29-CU- 65	EN = 225.	74.	D:E,G-WIDTH,B(FL),SRE	87075
	(E,E')	FN:29-CU- 65	EN = 1.	34.	D:E,G-WIDTH,B(EL),SRE	87075
				37.		

NUCLERUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
CU- 65	(E, E')	FN:29-CU- 65	EN-E = 70.	80.	M:SPC,FMF	88084
			..... 150.	... 140.	D:E,J-PI,MULT	.....
	(E, E'+P)	FN:28-NI- 64	EN = 13.	0.	M:COINC,MES,SIG,SIG-0	88085
			..... 18.	... 180.		.....
(E, P)	FN:28-NI- 64	EN = 11.	30.	M:SPC,DST,SIG,SIG-0	86069	
	 28.	... 140.	D:MULT,T,SRE	
CU- 66	(N, G)	TN:29-CU- 65	EN-N = 0.5		M:SPC,MLTPL,SIG	86070
		 3.

Z=30	ZINC	A=64,66,69
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ZN- 64	(E, E'+P)	FN:29-CU- 63	EN = 12.	10.	M:SPC	88079
		 25.	... 210.	
	(E, E'+A)	FN:28-NI- 60	EN = 12.	10.	M:SPC	88079
			..... 25.	... 210.		.....
(P, G)	TN:29-CU- 63	EN-P = 6.5	90.	M:SPC,SIG,SIG-0,SIG-1	86071	
		..... 11.0	...	D:SPECTP	.....
(P, G)	TN:29-CU- 63	EN-P = 1.3		M:SIG,SIG-0,SIG-V	90062	
		..... 3.2	...		.....
ZN- 66	(G, N)	FN:30-ZN- 65	EN = ----			90057
		 25.	...	D:E-AV
ZN- 69	(G, N)	FN:30-ZN- 68	EN = ----			90057
		 25.	...	D:E-AV

Z=31	GALLIUM	A=65,71
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GA- 65	(P, G)	TN:30-ZN- 64	EN-P = 1.1		M:SPC,RLY,BRANCH	87077
		 2.1	...	D:STR,E,J-PI
	(P, G)	TN:30-ZN- 64	EN-P = 1.3	55.	M:SPC,INT	87078
..... 4.3			...	D:E,J-PI,STR,STFUM	
GA- 71	(G, N+P)	FN:30-ZN- 69	EN = ----			87056E
		 70.	...	D:IRAT

Z=32	GERMANIUM	A=70,72,74,76
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GE- 70	(E, E)	FN:32-GE- 70	EN-E = 225.	30.	M:SIG	90063
		 82.	D:CDENS
	(E, E)	FN:32-GE- 70	EN-E = 225.	30.		90064
.....			... 180.	D:CDENS	.....
GE- 72	(G, N)	FN:32-GE- 71	EN = ----			90057
			..... 25.	...	D:E-AV	.....
	(E, E)	FN:32-GE- 72	EN-E = 225.	30.	M:SIG	90063
			.....	... 82.	D:CDENS	.....
(E, E)	FN:32-GE- 72	EN-E = 225.	30.		90064	
		.....	... 180.	D:CDENS	.....
GE- 74	(E, E)	FN:32-GE- 74	EN-E = 225.	30.	M:SIG	90063
			.....	... 82.	D:CDENS	.....
	(E, E)	FN:32-GE- 74	EN-E = 225.	30.		90064
.....			... 180.	D:CDENS	.....
GE- 76	(G, N)	FN:32-GE- 75	EN = ----			87056E
			..... 30.	...	D:IRAT	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
GE- 76	(G, A)	FN:30-ZN- 72	EN = 18.		M:ABY,SIG,ABI	90055
			..... 25.	...		.....
	(E, E)	FN:32-GE- 76	EN-E = 225.	30.	M:SIG	90063
		 82.	D:CDENS
(E, E)	FN:32-GE- 76	EN-E = 225.	30.		90064	
	 180.	D:CDENS	

Z=34	SELENIUM	A=74,75,76,78,80,82
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SE- 74	(G, N)	FN:34-SE- 73	EN = ----			87056E
		 14.5	...	D:IRAT
	(E, E)	FN:34-SE- 74	EN-E = 225.		M:SIG	87079
.....			... 20.	D:CDENS	
(E, E)	FN:34-SE- 74	EN-E = 225.	20.	M:DST,SIG	88086	
		.....	... 83.	D:CDENS	.....
SE- 75	(N, G)	TN:34-SE- 74	EN-N = 0.5		M:SIG	89074
		
SE- 76	(G, N)	FN:34-SE- 75	EN = ----			90057
			..... 25.	...	D:E-AV	.....
	(E, E)	FN:34-SE- 76	EN-E = 225.		M:SIG	87079
			.....	... 20.	D:CDENS	.....
(E, E)	FN:34-SE- 76	EN-E = 225.	20.	M:DST,SIG	88086	
		.....	... 83.	D:CDENS	.....
SE- 78	(E, E)	FN:34-SE- 78	EN-E = 225.		M:SIG	87079
			.....	... 20.	D:CDENS	.....
	(E, E)	FN:34-SE- 78	EN-E = 225.	20.	M:DST,SIG	88086
.....			... 83.	D:CDENS	.....
SE- 80	(E, E)	FN:34-SE- 80	EN-E = 225.		M:SIG	87079
			.....	... 20.	D:CDENS	.....
	(E, E)	FN:34-SE- 80	EN-E = 225.	20.	M:DST,SIG	88086
.....			... 83.	D:CDENS	.....
SE- 82	(G, N)	FN:34-SE- 81	EN = ----			87056E
			..... 16.	...	D:IRAT	.....
	(E, E)	FN:34-SE- 82	EN-E = 225.		M:SIG	87079
		 20.	D:CDENS
(E, E)	FN:34-SE- 82	EN-E = 225.	20.	M:DST,SIG	88086	
	 83.	D:CDENS	

Z=35	BROMINE	A=81,85
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BR- 81	(G, G')	FN:35-BR- 81	EN = 3.	90.	M:ABY,BPC	90065
		 4.2	...	D:E,J-PI
(G, N)	FN:35-BR- 80	EN = ----			87056E	
	 12.	...	D:IRAT	
BR- 85	(G, N)	FN:37-BR- 84	EN = ----			87056E
			..... 20.	...	D:IRAT	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Z=36			KRYPTON	A=83		
KR- 83	(A,G)	TN:34-SE- 79	EN-A = 11. 17.	0. ... 90.	M:SPC,DST,SIG D:E,J-PI	86072
Z=37			RUBIDIUM	A=85		
RB- 85	(G,N)	FN:37-RB- 84	EN = 12. 25.		M:SIG,SIG-0,SIG-M D:IRAT	87081E
Z=38			STRONTIUM	A=83,86,87,88		
SR- 83	(G,N)	FN:38-SR- 82	EN = ---- 25.		D:E-AV	90057
SR- 86	(G,N)	FN:38-SR- 85	EN = ---- 14.5		D:IRAT	87056E
	(G,N)	FN:38-SR- 85	EN = ---- 25.		D:E-AV	90057
	(G,N)	FN:38-SR- 85	EN = 11. 18.		M:SIG,SIG-M D:IRAT	90066
SR- 87	(G,N)	FN:38-SR- 86	EN = ---- 25.		D:E-AV	90057
SR- 88	(G,N)	FN:38-SR- 87	EN = ---- 16.5		D:IRAT	87056E
	(G,N)	FN:38-SR- 87	EN = 11. 18.		M:SIG,SIG-M D:IRAT	90066
Z=39			YTTORIUM	A=88,89,90		
Y- 0	(G,X)	FN:39- Y- 87	EN = 275.		M:SIG-0,SIG-M	87084E
	(G,X)	FN:39- Y- 88	EN = 275.		M:SIG	87084E
	(G,X)	FN:36-KR- 77	EN = 275.		M:SIG	87084E
	(G,X)	FN:37-RB- 81	EN = 275.		M:SIG-0	87084E
	(G,X)	FN:38-SR- 83	EN = 275.		M:SIG	87084E
	(G,X)	FN:39- Y- 84	EN = 275.		M:SIG	87084E
	(G,X)	FN:39- Y- 86	EN = 275.		M:SIG-0,SIG-M	87084E
Y- 88	(G,N)	FN:39- Y- 87	EN = ---- 25.		D:E-AV	90057
Y- 89	(G,N)	FN:39- Y- 88	EN = ---- 55.		D:IRAT	87056E
	(G,2N)	FN:39- Y- 87	EN = ---- 23.		D:IRAT	87056E

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Y- 89	(G,P)	FN:38-SR- 88	EN = 13. 31.	30. ... 140.	M:DST,SIG,SIG-0	87082E
	(G,X)	FN:37-RB- 81	EN = ---- 275.		M:SIG,SIG-0	89075
	(G,X)	FN:38-SR- 83	EN = ---- 275.		M:SIG	89075
	(G,X)	FN:39- Y- 88	EN = ---- 275.		M:SIG	89075
	(G,X)	FN:36-KR- 77	EN = ---- 275.		M:SIG	89075
	(G,X)	FN:39- Y- 84	EN = ---- 275.		M:SIG	89075
	(G,X)	FN:39- Y- 86	EN = ---- 275.		M:SIG,SIG-0,SIG-M	89075
	(G,X)	FN:39- Y- 87	EN = ---- 275.		M:SIG,SIG-0,SIG-M	89075
	(E,P)	FN:38-SR- 88	EN = 13. 31.	30. ... 140.	M:DST,SIG,SIG-0	87082E
	(E,X)	FN:36-KR- 77	EN-E = 275.		M:SIG	89075
	(E,X)	FN:38-SR- 83	EN-E = 275.		M:SIG	89075
	(E,X)	FN:39- Y- 87	EN-E = 275.		M:SIG,SIG-0,SIG-M	89075
	(E,X)	FN:37-RB- 81	EN-E = 275.		M:SIG,SIG-0	89075
	(E,X)	FN:39- Y- 84	EN-E = 275.		M:SIG	89075
	(E,X)	FN:39- Y- 88	EN-E = 275.		M:SIG	89075
	(E,X)	FN:39- Y- 86	EN-E = 275.		M:SIG,SIG-0,SIG-M	89075
Y- 90	(N,G)	TN:39- Y- 89	EN-N = 0.5 3.		M:SPC,MLTPL,SIG	86070
	(N,G)	TN:39- Y- 89	EN-N = 12. 27.	55. ... 125.	M:SPC,DST,SIG,ASYM D:MULT	87083
Z=40			ZIRCONIUM	A=90,97		
ZR- 0	(G,N)		EN = 12. 17.	4PI	M:SIG	87089
	(G,2N)		EN = 12. 17.	4PI	M:SIG	87089
	(G,MON)		EN = 12. 17.	4PI	M:SIG	87089
	(G,XN)		EN = 12. 17.	4PI	M:SIG	87089
	(G,MON)		EN = 17. 1800.		M:ABY,SIG	89058
	(G,F)		EN = 800. 1800.		M:SIG	90044
	(G,X)	FN:39- Y- 87	EN = 275.		M:SIG-0,SIG-M	87084E
	(G,X)	FN:40-ZR- 86	EN = 275.		M:SIG	87084E
	(G,X)	FN:40-ZR- 89	EN = 275.		M:SIG	87084E
	(G,X)	FN:39- Y- 86	EN = 275.		M:SIG	87084E
	(G,X)	FN:39- Y- 86	EN = ---- 275.		M:SIG	89075

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
ZR- 0	(G,X)	FN:39- Y- 87	EN = ---- 275.	...	M:SIG,SIG-0,SIG-M	89075
	(G,X)	FN:40-ZR- 89	EN = ---- 275.	...	M:SIG	89075
	(G,X)	FN:40-ZR- 86	EN = ---- 275.	...	M:SIG	89075
	(E,X)	FN:39- Y- 87	EN-E = 275.	...	M:SIG,SIG-0,SIG-M	89075
	(E,X)	FN:40-ZR- 89	EN-E = 275.	...	M:SIG	89075
	(E,X)	FN:39- Y- 86	EN-E = 275.	...	M:SIG	89075
	(E,X)	FN:40-ZR- 86	EN-E = 275.	...	M:SIG	89075
	(N,G)		EN-N = 0.5 3.	...	M:SPC,MLTPL,SIG	86070
ZR- 90	(G,G)	FN:40-ZR- 90	EN = 8.1 10.5	90.	M:SPC,SIG,SIG-0,SIG-I	87087
	(G,G)	FN:40-ZR- 90	EN = 8.1 10.5	90.	M:SIG,ASYM	87088
	(G,MON,POL)	FN:40-ZR- 89	EN = ---- 14.5	...	D:MULT,B(EL)	87056E
	(G,N)	FN:40-ZR- 89	EN = 21.5 24.5	...	D:IRAT	87086E
	(G,N)	FN:40-ZR- 89	EN = 21.5 24.5	...	M:SIG	88087
	(G,N)	FN:40-ZR- 89	EN = 11. 18.	...	D:IRAT,IYR	90066
	(G,2N)	FN:40-ZR- 88	EN = 21.5 24.5	...	M:SIG	87086E
	(G,2N)	FN:40-ZR- 88	EN = 21.5 24.5	...	D:IRAT	88087
	(E,E'+P)	FN:39- Y- 89	EN-E = 265. 410.	...	D:IRAT,IYR	88122
	(E,E'+P)	FN:39- Y- 89	EN = 0. 25.	...	M:MES,SPC,SPC-IMP	90006
	(E,E'+P)	FN:39- Y- 89	EN = 0. 22.	...	D:SPCTF,RDI	90009
	(P,G)	TN:39- Y- 89	EN-P = 3.7 11.5	90.	R:SPC-IMP,SPCTF	87085
ZR- 97	(N,G)	TN:40-ZR- 96	EN-N = 0.1 12.	...	M:SIG	90046
Z=41 NIOBIUM A=91,93,94						
NB- 0	(G,X)	FN:41-NB- 89	EN = 275. .....	...	M:SIG	87084E
	(G,X)	FN:41-NB- 90	EN = 275. .....	...	M:SIG	87084E
	(G,X)	FN:41-NB- 92	EN = 275. .....	...	M:SIG-M	87084E
	(G,X)	FN:39- Y- 87	EN = 275. .....	...	M:SIG-0,SIG-M	87084E
	(G,X)	FN:39- Y- 90	EN = 275. .....	...	M:SIG-M	87084E
	(G,X)	FN:40-ZR- 86	EN = 275. .....	...	M:SIG	87084E
	(G,X)	FN:40-ZR- 89	EN = 275. .....	...	M:SIG	87084E

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
NB- 0	(G,X)	FN:37-RB- 81	EN = 275. .....	...	M:SIG-0	87084E
	(G,X)	FN:39- Y- 84	EN = 275. .....	...	M:SIG	87084E
	(G,X)	FN:39- Y- 86	EN = 275. .....	...	M:SIG-0,SIG-M	87084E
NB- 91	(P,G)	TN:40-ZR- 90	EN-P = 1.9 5.7	...	M:SIG,SIG-0,SIG-1	87090
				...	D:STR,STPUN	.....
NB- 93	(G,A)	FN:39- Y- 89	EN = 18. 25.	...	M:ABY,SIG-M,ABI	90055
	(G,BE7)	FN:37-RB- 86	EN =5000. .....	...	M:ABY	89069
	(G,NA24)	FN:30-ZN- 69	EN =5000. .....	...	M:ABY	89069
	(G,F)		EN = 800. 1800.	...	M:SIG	90044
	(G,X)	FN:37-RB- 81	EN = ---- 275.	...	M:SIG,SIG-0	89075
	(G,X)	FN:39- Y- 87	EN = ---- 275.	...	M:SIG,SIG-0,SIG-M	89075
	(G,X)	FN:39- Y- 90	EN = ---- 275.	...	M:SIG,SIG-M	89075
	(G,X)	FN:41-NB- 92	EN = ---- 275.	...	M:SIG,SIG-M	89075
	(G,X)	FN:40-ZR- 89	EN = ---- 275.	...	M:SIG	89075
	(G,X)	FN:41-NB- 90	EN = ---- 275.	...	M:SIG	89075
	(G,X)	FN:39- Y- 86	EN = ---- 275.	...	M:SIG,SIG-0,SIG-M	89075
	(G,X)	FN:40-ZR- 86	EN = ---- 275.	...	M:SIG	89075
	(G,X)	FN:41-NB- 89	EN = ---- 275.	...	M:SIG	89075
	(G,X)	FN:39- Y- 84	EN = ---- 275.	...	M:SIG	89075
	(E,X)	FN:39- Y- 86	EN-E = 275. .....	...	M:SIG,SIG-0,SIG-M	89075
	(E,X)	FN:41-NB- 92	EN-E = 275. .....	...	M:SIG,SIG-M	89075
	(E,X)	FN:39- Y- 84	EN-E = 275. .....	...	M:SIG	89075
	(E,X)	FN:41-NB- 89	EN-E = 275. .....	...	M:SIG	89075
	(E,X)	FN:39- Y- 90	EN-E = 275. .....	...	M:SIG,SIG-M	89075
	(E,X)	FN:39- Y- 87	EN-E = 275. .....	...	M:SIG,SIG-0,SIG-M	89075
	(E,X)	FN:41-NB- 90	EN-E = 275. .....	...	M:SIG	89075
	(E,X)	FN:37-RB- 81	EN-E = 275. .....	...	M:SIG,SIG-0	89075
	(E,X)	FN:40-ZR- 86	EN-E = 275. .....	...	M:SIG	89075
NB- 94	(N,G)	TN:41-NB- 93	EN-N = 0.5 3.	...	M:SPC,MLTPL,SIG	86070

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Z=42			MOLIBDENUM		A=92, 94, 96, 98, 100	
MO- 0	(G,G)	FN:42-MO- 0	EN = 0.344	15.	M:SPC,DST,SIG	87091
	(G,MON)		..... 1.408...	45.		
	(G,G)	FN:42-MO- 0	EN = 60.	5.	M:DST,SIG,FMP	89070
			..... 662.	140.		
	(G,X)	FN:42-MO- 99	EN = 150.		M:SIG	87084F
			..... 275.			
	(G,X)	FN:39- Y- 86	EN = 150.		M:SIG	87084F
			..... 275.			
	(G,X)	FN:39- Y- 87	EN = 150.		M:SIG-0	87084E
			..... 275.			
	(G,X)	FN:39- Y- 87	EN = 150.		M:SIG-M	87084E
			..... 275.			
	(G,X)	FN:39- Y- 91	EN = 150.		M:SIG-M	87084E
			..... 275.			
	(G,X)	FN:40-ZR- 86	EN = 150.		M:SIG	87084E
			..... 275.			
	(G,X)	FN:40-ZR- 89	EN = 150.		M:SIG	87084E
			..... 275.			
	(G,X)	FN:41-NB- 89	EN = 150.		M:SIG	87084E
			..... 275.			
	(G,X)	FN:41-NB- 90	EN = 150.		M:SIG	87084E
			..... 275.			
	(G,X)	FN:41-NB- 96	EN = 150.		M:SIG	87084E
			..... 275.			
	(G,X)	FN:41-NB- 97	EN = 150.		M:SIG	87084E
			..... 275.			
	(G,X)	FN:42-MO- 90	EN = 150.		M:SIG	87084E
			..... 275.			
	(G,X)	FN:42-MO- 93	EN = 150.		M:SIG-M	87084E
			..... 275.			
	(G,X)	FN:41-NB- 97	EN = ----		M:SIG	89075
			..... 275.			
	(G,X)	FN:40-ZR- 89	EN = 150.		M:SIG	89075
			..... 225.			
	(G,X)	FN:39- Y- 87	EN = 150.		M:SIG,SIG-0,SIG-M	89075
			..... 225.			
	(G,X)	FN:41-NB- 89	EN = ----		M:SIG	89075
			..... 275.			
	(G,X)	FN:42-MO- 90	EN = 150.		M:SIG	89075
			..... 225.			
	(G,X)	FN:42-MO- 99	EN = 150.		M:SIG	89075
			..... 225.			
	(G,X)	FN:41-NB- 96	EN = 150.		M:SIG	89075
			..... 225.			
	(G,X)	FN:40-ZR- 86	EN = ----		M:SIG	89075
			..... 275.			
	(G,X)	FN:39- Y- 86	EN = ----		M:SIG	89075
			..... 275.			
	(G,X)	FN:42-MO- 93	EN = 150.		M:SIG,SIG-M	89075
			..... 225.			
	(G,X)	FN:41-NB- 90	EN = 150.		M:SIG	89075
			..... 225.			
	(E,X)	FN:41-NB- 96	EN-E = 150.		M:SIG	89075
			..... 225.			
	(E,X)	FN:41-NB- 97	EN-E = 275.		M:SIG	89075
					
	(E,X)	FN:40-ZR- 89	EN-E = 150.		M:SIG	89075
			..... 225.			

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
MO- 0	(E,X)	FN:42-MO- 99	EN-E = 150.		M:SIG	89075
			..... 225.			
	(E,X)	FN:39- Y- 87	EN-E = 150.		M:SIG,SIG-0,SIG-M	89075
			..... 225.			
	(E,X)	FN:39- Y- 86	EN-E = 275.		M:SIG	89075
					
	(E,X)	FN:40-ZR- 86	EN-E = 275.		M:SIG	89075
					
	(E,X)	FN:42-MO- 90	EN-E = 150.		M:SIG	89075
			..... 225.			
	(E,X)	FN:41-NB- 90	EN-E = 150.		M:SIG	89075
			..... 225.			
	(E,X)	FN:42-MO- 93	EN-E = 150.		M:SIG,SIG-M	89075
			..... 225.			
	(E,X)	FN:41-NB- 89	EN-E = 275.		M:SIG	89075
					
MO- 92	(G,N)	FN:42-MO- 91	EN = ----			87056E
			..... 14.5		D:IRAT	
	(G,N)	FN:42-MO- 91	EN = 11.		M:SIG,SIG-M	90066
			..... 18.		D:IRAT	
	(E,E)	FN:42-MO- 92	EN-E = 100.		M:SPC,FMP	90067
			..... 380.		D:CDIS	
	(E,E')	FN:42-MO- 92	EN = ----		M:SPC,FMP	90067
			..... 5.1		D:CDIS,CDENS	
MO- 94	(G,3N)	FN:42-MO- 91	EN = ----			87056E
			..... 70.		D:IRAT	
MO- 96	(G,P)	FN:41-NB- 95	EN = ----			87056E
			..... 30.		D:IRAT	
MO- 98	(G,P)	FN:41-NB- 97	EN = ----			87056E
			..... 22.		D:IRAT	
MO-100	(G,N)	FN:42-MO- 99	EN = ----			87056E
			..... 55.		D:IRAT	
Z=43			TECHNETIUM		A=93	
TC- 93	(P,G)	TN:42-MO- 92	EN-P = 3.		M:SIG-M	87092
			..... 9.		D:IRAT	
Z=44			RUTHENIUM		A=102, 104	
RU-102	(G,P)	FN:43-TC-101	EN = ----			87056E
			..... 55.		D:IRAT	
	(N,G)	TN:44-RU-101	EN-N = 0.6		M:SIG	89076
			..... 2.2			
RU-104	(N,G)	TN:44-RU-103	EN-N = 0.5		M:SIG	89076
			..... 2.2			
Z=45			RHODIUM		A=103	
RH-103	(G,N)	FN:44-RH-102	EN = ----			87056E
			..... 50.		D:IRAT	

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Z=46			PALLADIUM	A=108,110		
PD- 0	(G,ABS) G,MON		EN = 0.09	0.	M:SIG D:TOT	87096
PD-108	(G,N)	FN:46-PD-107	EN = ---- 55.	...	D:IRAT	87056E
PD-110	(G,N)	FN:46-PD-109	EN = ---- 55.	...	D:IRAT	87056E
	(E,E')	FN:46-PD-110	EN-E = 20. 63.	117. 141.	M:SPC,DST,FMF D:MULT,B(EL),E,J-PI	89077

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Z=47			SILVER	A=107,108,110		
AG- 0	(G,G)	FN:47-AG- 0	EN = 60. 662. 800. 1800.	5. 140.	M:DST,SIG,FMF M:SIG	89070 90044
	(G,X)	FN:43-TC- 95	EN = ---- 4500.	...	M:ABY,SIG-M,MDIS	88088
	(G,X)	FN:47-AG-106	EN = ---- 4500.	...	M:ABY,SIG-M,MDIS	88088
	(G,X)	FN:45-RH-102	EN = ---- 4500.	...	M:ABY,SIG,MDIS	88088
	(G,X)	FN:46-PD-100	EN = ---- 4500.	...	M:ABY,SIG,MDIS	88088
	(G,X)	FN:47-AG-105	EN = ---- 4500.	...	M:ABY,SIG,MDIS	88088
	(G,X)	FN:47-AG-104	EN = ---- 4500.	...	M:ABY,SIG,MDIS	88088
	(G,X)	FN:43-TC- 95	EN = ---- 4500.	...	M:ABY,SIG,MDIS	88088
	(G,X)	FN:44-RU-103	EN = ---- 4500.	...	M:ABY,SIG,MDIS	88088
	(G,X)	FN:47-AG-103	EN = ---- 4500.	...	M:ABY,SIG,MDIS	88088
	(G,X)	FN:41-NB- 95	EN = ---- 4500.	...	M:ABY,SIG,MDIS	88088
	(G,X)	FN:42-MO- 90	EN = ---- 4500.	...	M:ABY,SIG,MDIS	88088
	(G,X)	FN:44-RU- 97	EN = ---- 4500.	...	M:ABY,SIG,MDIS	88088
	(G,X)	FN:46-PD-101	EN = ---- 4500.	...	M:ABY,SIG,MDIS	88088
	(G,X)	FN:41-NB- 92	EN = ---- 4500.	...	M:ABY,SIG-M,MDIS	88088
	(G,X)	FN:43-TC- 96	EN = ---- 4500.	...	M:ABY,SIG,MDIS	88088
	(G,X)	FN:44-RU- 95	EN = ---- 4500.	...	M:ABY,SIG,MDIS	88088
	(G,X)	FN:45-RH-101	EN = ---- 4500.	...	M:ABY,SIG-M,MDIS	88088
	(G,X)	FN:45-RH-101	EN = ---- 4500.	...	M:ABY,SIG,MDIS	88088
	(G,X)	FN:42-MO- 93	EN = ---- 4500.	...	M:ABY,SIG-M,MDIS	88088

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
AG- 0	(P,G)		EN-P = 72.	90. 150.	M:SPC,DST	88032
AG-107	(G,N)	FN:47-AG-106	EN = ---- 18.	...	D:IRAT	87056E
AG-108	(N,G)	TN:47-AG-107	EN-N = 0.004 0.4	...	M:SIG	87093
AG-110	(N,G)	TN:47-AG-109	EN-N = 0.004 0.4	...	M:SIG	87093

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Z=48			CADMIUM	A=107,110,111,116,117		
CD- 0	(G,G)	FN:48-CD- 0	EN = 60. 662. 800. 1800.	5. 140.	M:DST,SIG,FMF M:DST,SIG,ASYM	89070 87066
	(G,N)		EN = 20. 30. 20. 30. 20. 39.	55. 125. 55. 125.	M:SPC,DST,SIG,SIG-V M:SPC,SIG,DST,ASYM	87096 88068
	(G,ABS) G,MON		EN = 0.122 0.136	0.	M:SIG D:TOT	87096
CD-107	(N,G)	TN:48-CD-106	EN-N = 0.5	...	M:SIG	89074
CD-110	(E,E')	FN:48-CD-110	EN-E = 70. 440.	...	M:FMF D:CDENS,B(EL)	90068
CD-111	(G,G)	FN:48-CD-111	EN = 1.33	...	M:SIG,SIG-M	87094
CD-116	(G,N)	FN:48-CD-115	EN = ---- 22.	...	D:IRAT	87056E
CD-117	(N,G)	TN:48-CD-116	EN-N = 0.4 2.0	...	M:SIG	86073E

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Z=49			INDIUM	A=113,114,115		
IN- 0	(G,F)		EN = 800. 1800.	...	M:SIG	90044
IN-113	(G,N)	FN:49-IN-112	EN = ---- 30.	...	D:IRAT	87056E
IN-114	(G,N)	FN:49-IN-113	EN = ---- 25.	...	D:E-AV	90057
IN-115	(G,G')	FN:49-IN-115	EN = 5. 11.	...	M:SIG	86074
	(G,G')	FN:49-IN-115	EN = 0.2 1.5	...	M:SPC,SIG-M,ABI	88089
	(G,N)	FN:49-IN-114	EN = ---- 16.	...	D:IRAT	87056E
	(P,G)	TN:48-CD-114	EN-P = 4. 9.	...	M:SIG-M	87069

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
			Z=50	TIN	A=112-125	
SN-0	(G,G)	FN:50-SN-0	EN = 0.344	15.	M:SPC,DST,SIG	87091
	G,MON		..... 1.408	45.		.....
	(G,G)	FN:50-SN-0	EN = 0.272	10.5	M:DST,SIG	87097
	G,MON		..... 0.662	59.		.....
	(G,G)	FN:50-SN-0	EN = 60.	5.	M:DST,SIG,FMF	89070
			..... 662.	140.		.....
	(N,G)		EN-N = 20.		M:SIG	89079
			..... 450.		D:STPUN	.....
SN-112	(G,N)	FN:50-SN-111	EN = ----		M:SIG	89078
			..... 4500.			.....
	(G,2N)	FN:50-SN-110	EN = ----		M:SIG	89078
			..... 4500.			.....
	(G,N+P)	FN:49-IN-110	EN = ----		M:SIG-0,SIG-M	89078
			..... 4500.			.....
	(G,P)	FN:49-IN-111	EN = ----		D:IRAT	87056E
			..... 22.		M:SIG	89078
	(G,P)	FN:49-IN-111	EN = ----			.....
			..... 4500.		M:ABY,SIG,MDIS	88090
	(G,X)		EN = ----			.....
			..... 4500.			.....
SN-113	(N,G)	TN:50-SN-112	EN-N = 20.		M:SIG	89079
			..... 450.		D:STPUN	.....
SN-114	(G,N)	FN:50-SN-113	EN = ----		M:SIG-M	89078
			..... 4500.			.....
	(G,X)		EN = ----		M:ABY,SIG,MDIS	88090
			..... 4500.			.....
	(A,G)	TN:48-CD-110	EN-A = 24.		M:SPC,ISY,COINC	88091
			.....		D:MULT,E,J-PI	.....
SN-115	(N,G)	TN:50-SN-114	EN-N = 20.		M:SIG	89079
			..... 450.		D:STPUN	.....
SN-116	(G,N+P)	FN:49-IN-114	EN = ----		M:SIG-M	89078
			..... 4500.			.....
	(G,P)	FN:49-IN-115	EN = ----		M:SIG-M	89078
			..... 4500.			.....
	(G,X)		EN = ----		M:ABY,SIG,MDIS	88090
			..... 4500.			.....
	(E,E')	FN:50-SN-116	EN-E = 360.	41.5	M:SPC,DST,FMF	86075
			.....	154.	D:E,J-PI	.....
	(E,E'+N)	FN:50-SN-115	EN = 10.	55.	M:COINC,SIG	90069
			..... 20.	71.2	D:STR,MULT	.....
	(N,G)	TN:50-SN-115	EN-N = 20.		M:SIG	89079
			..... 450.		D:STPUN	.....
SN-117	(N,G)	TN:50-SN-116	EN-N = 20.		M:SIG	89079
			..... 450.		D:STPUN	.....
SN-118	(G,N+P)	FN:49-IN-116	EN = ----		M:SIG-M	89078
			..... 4500.			.....
	(G,P)	FN:49-IN-117	EN = ----			87056E
			..... 22.		D:IRAT	.....
	(G,P)	FN:49-IN-117	EN = ----		M:SIG-0,SIG-M	89078
			..... 4500.			.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
SN-118	(G,X)	FN:11-N+-24	EN = 4500.		M:ABY,SIG	90060
		
	(G,X)	FN:4-BE-7	EN = 4500.		M:ABY,SIG	90060
		
	(N,G)	TN:50-SN-117	EN-N = 20.		M:SIG	89079
			..... 450.		D:STPUN	.....
SN-119	(G,N+P)	FN:49-IN-117	EN = ----		M:SIG-0,SIG-M	89078
			..... 4500.			.....
	(G,P)	FN:49-IN-118	EN = ----		M:SIG-M	89078
			..... 4500.			.....
	(G,2P)	FN:48-CD-117	EN = ----		M:SIG-M	89078
			..... 4500.			.....
	(G,X)		EN = ----		M:ABY,SIG,MDIS	88090
			..... 4500.			.....
	(N,G)	TN:50-SN-118	EN-N = 20.		M:SIG	89079
			..... 450.		D:STPUN	.....
SN-120	(G,G)	FN:50-SN-120	EN = 7.3		M:SIG,ASYM	89080
	G,MON,POL		..... 9.3		D:MULT,B(EL)	.....
	(G,N)	FN:50-SN-119	EN = ----		M:SIG-M	89078
			..... 4500.			.....
	(G,N+P)	FN:49-IN-118	EN = ----		M:SIG-M	89078
			..... 4500.			.....
	(G,P)	FN:49-IN-119	EN = ----			87056E
			..... 17.5		D:IRAT	.....
	(G,P)	FN:49-IN-119	EN = ----		M:SIG	89078
			..... 4500.			.....
	(G,2P)	FN:48-CD-118	EN = ----		M:SIG	89078
			..... 4500.			.....
	(G,X)		EN = ----		M:ABY,SIG,MDIS	88090
			..... 4500.			.....
	(G,X)	FN:11-NA-24	EN = 4500.		M:ABY,SIG	90060
		
	(N,G)	TN:50-SN-119	EN-N = 20.		M:SIG	89079
			..... 450.		D:STPUN	.....
SN-121	(N,G)	TN:50-SN-120	EN-N = 20.		M:SIG	89079
			..... 450.		D:STPUN	.....
SN-122	(G,X)		EN = ----		M:ABY,SIG,MDIS	88090
			..... 4500.			.....
SN-123	(N,G)	TN:50-SN-122	EN-N = 20.		M:SIG	89079
			..... 450.		D:STPUN	.....
SN-124	(G,N)	FN:50-SN-123	EN = ----			87056E
			..... 19.		D:IRAT	.....
	(G,N)	FN:50-SN-123	EN = ----		M:SIG-0,SIG-M	89078
			..... 4500.			.....
	(G,X)		EN = ----		M:ABY,SIG,MDIS	88090
			..... 4500.			.....
	(G,X)	FN:11-NA-24	EN = 4500.		M:ABY,SIG	90060
		
SN-125	(N,G)	TN:50-SN-124	EN-N = 20.		M:SIG	89079
			..... 450.		D:STPUN	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Z=51 ANTIMONY A=113,121						
SB- 0	(G,N)		EN = ---- 25.		D:E-AV	90057
SB-113	(P,G)	TN:50-SN-112	EN-P = 4. 9.		M:SIG	87069
SB-121	(G,N)	FN:51-SB-120	EN = ---- 14.5		D:IRAT	87056E
Z=52 TELLURIUM A=120,121						
TE-120	(G,N)	FN:52-TE-119	EN = ---- 30.		D:IRAT	87056E
TE-121	(N,G)	TN:52-TE-120	EN-N = 0.5		M:SIG	89074
Z=53 IODINE A=127						
I-127	(G,N)	FN:53- I-126	EN = 9.72		M:SPC,INT D:E,J-PI	86103
	(G,N)	FN:53- I-126	EN = 12.	4PI	M:SIG	87089
	(G,2N)	FN:53- I-125	EN = 12.	4PI	M:SIG	87089
	(G,MON)		EN = 17.			
	(G,2N)	FN:53- I-125	EN = 8.	4PI	M:SIG	89081
			EN = 23.			
	(G,XN)		EN = 12.	4PI	M:SIG	87089
	(G,MON)		EN = 17.			
	(G,XN)		EN = 8.	4PI	M:SIG	89081
			EN = 23.			
Z=54 XENON A=124,136						
XE-124	(G,N)	FN:54-XE-123	EN = 22. 25.		M:SIG	86076
	(G,N+X)	FN:53- I-123	EN = 22. 25.		M:SPC-DP,SIG	86076
XE-136	(G,N)	FN:54-XE-135	EN = ---- 22.		D:IRAT	87056E
Z=56 BARIUM A=138						
BA- 0	(G,G)	FN:56-BA- 0	EN = 4.5 9.	135.	M:SIG,ABS D:TOT	86077
BA-138	(G,N)	FN:56-BA-137	EN = ---- 15.3		D:IRAT	87056E

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Z=57 LANTHANUM A=140						
LA-140	(N,G)	TN:57-LA-139	EN-N = 0.5 3.		M:SPC,MLTPL,SIG	86070
Z=58 CERIUM A=138,140,142						
CE- 0	(G,G)	FN:58-CE- 0	EN = 4.5 9.	135.	M:SIG,ABS D:TOT	86077
CE-138	(G,N)	FN:58-CE-137	EN = ---- 70.		D:IRAT	87056E
CE-140	(G,G)	FN:58-CE-140	EN = 6.7 8.7	90.	M:SIG,ASYM D:MULT,B(EL)	86078
	(G,N)	FN:58-CE-139	EN = ---- 20.		D:IRAT	87056E
	(G,3N)	FN:58-CE-137	EN = ---- 30.		D:IRAT	87056E
	(E,E')	FN:58-CE-140	EN-E = 100. 370.	40.	M:SPC,SIG D:MULT	88092
	(N,G)	TN:58-CE-139	EN-N = 0.5 2.2	155.	M:SIG	89076
CE-142	(N,G)	TN:58-CE-141	EN-N = 0.5 2.2		M:SIG	89076
Z=59 PRASEODYMIUM A=140,141,143						
PR-140	(G,N)	FN:59-PR-139	EN = ---- 25.		D:E-AV	90057
PR-141	(G,N)	FN:59-PR-140	EN = 12. 17.	4PI	M:SIG	87089
	(G,2N)	FN:59-PR-139	EN = 12. 17.	4PI	M:SIG	87089
	(G,MON)		EN = 17.			
	(G,XN)		EN = 12.	4PI	M:SIG	87089
	(G,MON)		EN = 17.			
PR-142	(N,G)	TN:59-PR-141	EN-N = 0.01 0.8	125.	M:SPC,SIG	86079
Z=60 NEODYMIUM A=142,144,146,147,148,150						
ND- 0	(G,P)		EN = 800. 1800.		M:SIG	90044
ND-142	(G,G')	FN:60-ND-142	EN = ---- 4.1	100.	M:SPC,DST,BRANCH D:E,G-WIDTH,MULT	90070
	(G,N)	FN:60-ND-141	EN = ---- 55.	150.	D:IRAT	87056E
	(E,E')	FN:60-ND-142	EN-E = 112. 450.	36.	M:PMF D:CDENS,E,MULT,B(EL)	89082

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
ND-144	(G,3N)	FN:60-ND-141	EN = ---- 70. ....	...	D:IRAT	870561
ND-146	(G,G')	FN:60-ND-146	EN = ---- 4.1	100. 150.	M:SPC,DST,BRANCH D:E,G-WIDTH,MULT	90070
ND-147	(N,G)	TN:60-ND-146	EN-N = 0.1 12. ....	...	M:SIG	90046
ND-148	(G,G')	FN:60-ND-148	EN = ---- 4.1	100. 150.	M:SPC,DST,BRANCH D:E,G-WIDTH,MULT	90070
ND-150	(G,G')	FN:60-ND-150	EN = ---- 3.	90.	M:SPC,SIG,ASYM	89083
	(G,G')	FN:60-ND-150	EN = ---- 4.1	100. 150.	M:SPC,DST,BRANCH D:E,G-WIDTH,MULT	90070

Z=62 SAMARIUM A=148,150,152,154

SM- 0	(G,F)		EN = 800. 1800. ....	...	M:SIG	90044
SM-148	(G,G')	FN:62-SM-148	EN = 2.5 4.5	127.	R:SPC,MULT,STR	90053
	(G,G')	FN:62-SM-148	EN = 4.6	127.	M:SPC D:STR,MULT,DEF	90071
SM-150	(G,G')	FN:62-SM-150	EN = 2.5 4.5	127.	R:SPC,MULT,STR	90053
	(G,G')	FN:62-SM-150	EN = 4.6	127.	M:SPC D:STR,MULT,DEF	90071
SM-152	(G,G')	FN:62-SM-152	EN = 2.5 4.5	127.	R:SPC,MULT,STR	90053
	(G,G')	FN:62-SM-152	EN = 4.6	127.	M:SPC D:STR,MULT,DEF	90071
	(E,E')	FN:62-SM-152	EN-E = 80. 300.	45. 107.	M:SPC,FMF,SIG,SIG-0 D:CDENS	88093
SM-154	(G,G')	FN:62-SM-154	EN = 2.5 4.5	127.	R:SPC,MULT,STR	90053
	(G,G')	FN:62-SM-154	EN = 4.6	127.	M:SPC D:STR,MULT,DEF	90071
	(G,ABS)		EN = 8. 20. ....	...	R:SIG	90086
	(E,E')	FN:62-SM-154	EN-E = 27.	165.	R:SPC	90053

Z=63 EUROPIUM A=152,154

EU- 0	(N,G)		EN-N = 0.1 2. ....	...	M:SIG	90072
EU-152	(N,G)	TN:63-EU-151	EN-N = 0.5 2.2 ....	...	M:SPC,SIG D:IYR	88094
	(N,G)	TN:63-EU-151	EN-N = 0.1 2. ....	...	M:SIG	90072
EU-154	(N,G)	TN:63-EU-153	EN-N = 0.1 2.	M:SIG	90072

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
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Z=64 GADOLINIUM A=153,154,155,156,157,158,159,160,161

GD- 0	(N,G)		EN-N = 0.5 3.	M:SPC,MLTPL,SIG	86070
GD-153	(N,G)	TN:64-GD-152	EN-N = 0.012 2.411....	...	M:SIG D:STR,LDEN,G-WIDTH	87098
	(N,G)	TN:64-GD-152	EN-N = 0.5 .....	...	M:SIG	89074
GD-154	(E,E')	FN:64-GD-154	EN-E = 78. 380.	20. 73.	M:SPC,SIG,SIG-0,SIG-V D:TRDEN	86080
	(E,E')	FN:64-GD-154	EN-E = 25. 48.	117. 165.	M:SPC,SIG,FMF D:MULT,B(EL),E,J-PI	89084
	(N,G)	TN:64-GD-153	EN-N = 0.003 0.5 ....	...	M:SIG,BRANCH D:TRR	88095
GD-155	(N,G)	TN:64-GD-154	EN-N = 0.49 2.76 ....	...	M:SIG D:STR,LDEN,G-WIDTH	87098
	(N,G)	TN:64-GD-154	EN-N = 0.003 0.5 ....	...	M:SIG,BRANCH D:TRR	88095
GD-156	(G,G')	FN:64-GD-156	EN = 2.8 3.4	0. 150.	M:SPC,SIG D:MULT,B(EL),G-WIDTH	86081
	(G,G')	FN:64-GD-156	EN = 3.5 4.1	90. 127.	M:SPC,DST,INT D:E,J-PI,B(EL)	89085
	(E,E')	FN:64-GD-156	EN-E = 24.6 56.	165.	M:SPC,SIG,FMF D:B(EL),MULT	86081
	(N,G)	TN:64-GD-155	EN-N = 0.5 3. ....	...	M:SPC,MLTPL,SIG	86070
	(N,G)	TN:64-GD-155	EN-N = 0.003 0.5 ....	...	M:SIG,BRANCH D:TRR	88095
GD-157	(N,G)	TN:64-GD-156	EN-N = 0.5 3. ....	...	M:SPC,MLTPL,SIG	86070
GD-158	(G,G')	FN:64-GD-158	EN = 3.5 4.1	90. 127.	M:SPC,DST,INT D:E,J-PI,B(EL)	89085
	(N,G)	TN:64-GD-157	EN-N = 0.5 3. ....	...	M:SPC,MLTPL,SIG	86070
	(N,G)	TN:64-GD-157	EN-N = 0.003 D.5 ....	...	M:SIG,BRANCH D:TRR	88095
GD-159	(N,G)	TN:64-GD-158	EN-N = 0.5 3. ....	...	M:SPC,MLTPL,SIG	86070
GD-160	(G,G')	FN:64-GD-160	EN = 3.5 4.1	90. 127.	M:SPC,DST,INT D:E,J-PI,B(EL)	89085
GD-161	(N,G)	TN:64-GD-160	EN-N = 0.5 3. ....	...	M:SPC,MLTPL,SIG	86070
	(N,G)	TN:64-GD-160	EN-N = 0.46 3.05 ....	...	M:SPC,SIG	88096

Z=65 TERBIUM A=159,160

TB-159	(G,N) G,MON	FN:65-TB-158	EN = 7. 11.4	40. 150.	M:SPC,DST,SIG,SIG-0 D:MULT,INTCFC	86082
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NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
TB-159	(P,G)	TN:64-GD-158	EN-P = 168. 200.	50. ... 150.	M:SPC,DST,SIG	8903R
TB-160	(N,G)	TN:65-TB-159	EN-N = 0.5 3.		M:SPC,MLTPL,SIG	86070
	(N,G)	TN:65-TB-159	EN-N = 0.01 0.8	125.	M:SPC,SIG	86079

Z=66	DYSPROSIUM	A=156,157,160,161,162,163,164,165
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DY- 0	(N,G)		EN-N = 0.016 0.46		M:SIG	88098
DY-156	(AR40,G)	TN:48-CD-116	EN = 90.	90.	M:SPC,SIG D:MULT	89086
DY-157	(N,G)	TN:66-DY-156	EN-N = 0.5		M:SIG	89074
DY-160	(G,G')	FN:66-DY-160	EN = ---- 4.1	100. ... 150.	M:SPC,DST D:E,J-PI,B(EL)	88097
DY-161	(N,G)	TN:66-DY-160	EN-N = 0.016 0.46		M:SIG	88098
DY-162	(G,G')	FN:66-DY-162	EN = ---- 4.1	100. ... 150.	M:SPC,DST D:E,J-PI,B(EL)	88097
	(N,G)	TN:66-DY-161	EN-N = 0.016 0.46		M:SIG	88098
DY-163	(N,G)	TN:66-DY-162	EN-N = 0.016 0.46		M:SIG	88098
DY-164	(G,G')	FN:66-DY-164	EN = ---- 4.1	100. ... 150.	M:SPC,DST D:E,J-PI,B(EL)	88097
	(G,G')	FN:66-DY-164	EN = 2. 4.		R:SPC	90053
	(E,E')	FN:66-DY-164	EN-E = 24.3 139.3	154. ... 165.	M:SPC,DST,SIG,FMF D:B(EL)	87099
	(E,E')	FN:66-DY-164	EN-E = 20. 220.	85. ... 165.	M:SPC,DST,FMF D:MULT,B(EL),E,J-PI	89062
	(E,E')	FN:66-DY-164	EN-E = 24.	165.	R:SPC,FMF	90053
	(N,G)	TN:66-DY-163	EN-N = 0.016 0.46		M:SIG	88098
DY-165	(N,G)	TN:66-DY-164	EN-N = 0.016 0.46		M:SIG	88098

Z=67	HOLMIUM	A=166
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HO-166	(N,G)	TN:67-HO-165	EN-N = 0.01 0.8	125.	M:SPC,SIG	86079
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NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Z=68			ERBIUM	A=163,167,168,170		

ER- 0	(G,ABS) G,MON		EN = 0.122 0.136	0.	M:SIG D:TOT	87096
ER-163	(N,G)	TN:68-ER-162	EN-N = 0.5		M:SIG	89074
ER-167	(G,G')	FN:68-ER-167	EN = ---- 6.5		D:IRAT	87056E
	(G,G')	FN:68-ER-167	EN = 4. 12.		M:SIG,SIG-M	89087
ER-168	(G,N)	FN:68-ER-167	EN = ---- 12.		D:IRAT	87056E
	(E,E')	FN:68-ER-168	EN-E = 25.	165.	R:SPC,FMF	90053
ER-170	(G,A)	FN:66-DY-166	EN = 18. 25.		M:ABY,SIG,ABI	90055

Z=69	THULIUM	A=169
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Tm-169	(G,N) G,MON	FN:69-TM-168	EN = 8.999		M:SPC D:Q,E	86083
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Z=70	YTTERBIUM	A=169
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YB-169	(N,G)	TN:70-YB-168	EN-N = 0.5		M:SIG	89074
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Z=71	LUTETIUM	A=ECTECTB.CMEC[
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LU- 0	(N,G)		EN-N = 0.01 0.8	125.	M:SPC,SIG	86079
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Z=72	HAFNIUM	A=179,180
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HF-179	(G,G')	FN:72-HF-179	EN = ---- 6.		D:IRAT	87056E
	(G,G')	FN:72-HF-179	EN = 4. 12.		M:SIG,SIG-M	89087
HF-180	(G,N)	FN:72-HF-179	EN = ---- 11.		D:IRAT	87056E

Z=73	TANTALUM	A=180,181,182
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TA- 0	(G,F)		EN = 800. 1800.		M:SIG	90044
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NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
TA-180	(G,G')	FN:73-TA-180	EN = ---- 6.	M:AB1	88112
	(G,G')	FN:73-TA-180	EN = 6. ...	...	M:SPC,AB1	90073
	(G,N)	FN:73-TA-179	EN = ---- 25. ...	...	D:E-AV	90057
TA-181	(G,G)	FN:73-TA-181	EN = 0.344 ... 1.408... 45. ...	15. ...	M:SPC,DST,SIG	87091
	(G,G)	FN:73-TA-181	EN = 8. ... 18. ... 137. ...	62. ...	M:SPC,DST,SIG	89088
	(G,G')	FN:73-TA-181	EN = 2.8 ... 4. ...	90. ...	M:SPC,ABY,SIG	87100E
	(G,G')	FN:73-TA-181	EN = 3. ... 5.5 ...	90. ...	M:SPC-DP,ABY	90074
	(G,N)	FN:73-TA-180	EN = ---- 30. ...	...	D:IRAT	87056E
	(G,3N)	FN:73-TA-178	EN = 24. ... 32. ...	...	D:IRAT	87056E
	(G,P)	FN:72-HP-180	EN = ---- 23. ...	...	D:IRAT	87056E
	(G,A)	FN:71-LU-177	EN = 18. ... 25. ...	...	M:ABY,SIG,ABI	90055
	(G,BE7)	FN:69-TM-174	EN =5000. ...	...	M:ABY	89069
	(G,NA24)	FN:62-SM-157	EN =5000. ...	...	M:ABY	89069
	(E,E'+P)	FN:72-HP-180	EN-E = 780. ... 72.9 ...	50.1 ...	M:SPC,DST,MES,SIG	89033
TA-182	(N,G)	TN:73-TA-181	EN-N = 0.5 ... 3. ...	...	M:SPC,MLTPL,SIG	86070
	(N,G)	TN:73-TA-181	EN-N = 0.01 ... 0.8 ...	125. ...	M:SPC,SIG	86079

Z=74	TUNGSTEN	A=181,182,183,184,185,187
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W-0	(G,G)	FN:74-W-0	EN = 0.344 ... 1.408... 45. ...	15. ...	M:SIG	87076
	(G,MON)	FN:74-W-0	EN = 60. ... 662. ... 140. ...	5. ...	M:DST,SIG,FMF	89070
	(N,G)		EN-N = 0.5 ... 3. ...	...	M:SPC,MLTPL,SIG	86070
	(N,G)		EN-N = 0.005 ... 0.4 ...	...	M:SIG	86084
W-181	(E,E')	FN:74-W-181	EN-E = 960. ... 1500. ...	37.5 ...	M:SIG	89001
	(N,G)	TN:74-W-180	EN-N = 0.005 ... 0.4 ...	...	M:SIG	86084
W-182	(G,N)	FN:74-W-181	EN = ---- 12. ...	...	D:IRAT	87056E
	(G,N)	FN:74-W-181	EN = ---- 25. ...	...	D:E-AV	90057
W-183	(G,G')	FN:74-W-183	EN = ---- 6. ...	...	D:IRAT	87056E
	(G,G')	FN:74-W-183	EN = 4. ... 12. ...	...	M:SIG,SIG-M	89087

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
W-183	(N,G)	TN:74-W-182	EN-N = 0.5 ... 3. ...	...	M:SPC,MLTPL,SIG	86070
	(N,G)	TN:74-W-182	EN-N = 0.005 ... 0.4 ...	...	M:SIG	86084
W-184	(G,N)	FN:74-W-183	EN = ---- 10. ...	...	D:IRAT	87056E
	(N,G)	TN:74-W-183	EN-N = 0.5 ... 3. ...	...	M:SPC,MLTPL,SIG	86070
W-185	(N,G)	TN:74-W-183	EN-N = 0.005 ... 0.4 ...	...	M:SIG	86084
	(N,G)	TN:74-W-184	EN-N = 0.002 ... 0.024...	...	M:SPC,INT D:E,J-PI	87101
W-187	(N,G)	TN:74-W-186	EN-N = 0.5 ... 3. ...	...	M:SPC,MLTPL,SIG	86070
	(N,G)	TN:74-W-186	EN-N = 0.005 ... 0.4	M:SIG	86084
(N,G)	TN:74-W-186	EN-N = 0.002 ... 0.024...	M:SPC,INT D:E,J-PI	87101

Z=75	RHENIUM	A=185
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RE-0	(N,G)		EN-N = 0.5 ... 3.0	M:SPC,MLTPL,SIG	86070
	(N,G)		EN-N = 0.003 ... 1.9	M:SIG	87102
RE-185	(G,N)	FN:75-RE-184	EN = ---- 30.	M:SIG,SIG-M D:IRAT	89089

Z=76	OSMIUM	A=188,190,192
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OS-188	(E,E')	FN:76-OS-188	EN-E = 200. ... 500. ... 74. ...	30. ...	M:DST,SIG	87103
	(E,E')	FN:76-OS-188	EN-E = 200. ... 500. ... 74. ...	25. ...	M:SPC,DST D:TRDEN,RDI,E,J-PI	88104
OS-190	(E,E')	FN:76-OS-190	EN-E = 200. ... 500. ... 74. ...	30. ...	M:DST,SIG	87103
	(E,E')	FN:76-OS-190	EN-E = 200. ... 500. ... 74. ...	25. ...	M:SPC,DST D:TRDEN,RDI,E,J-PI	88104
OS-192	(E,E')	FN:76-OS-192	EN-E = 200. ... 500. ... 74. ...	30. ...	M:DST,SIG	87103
	(E,E')	FN:76-OS-192	EN-E = 200. ... 500. ... 74. ...	25. ...	M:SPC,DST D:TRDEN,RDI,E,J-PI	88104

Z=78	PLATINUM	A=194,195,196,197,198
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PT-0	(G,G)	FN:78-PT-0	EN = 60. ... 662. ... 140. ...	5. ...	M:DST,SIG,FMF	89070
	(G,ABS)		EN = 0.122 ... 0.136...	0. ...	M:SIG	87096
	(G,MON)		EN-N = 0.5 ... 3.0 ...	...	D:TOT M:SPC,MLTPL,SIG	86070

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
PT-194	(E,E')	FN:78-PT-194	EN-E = 200.	30.	M:DST,SIG	87103
			..... 500.	74.	.....	.....
			EN-E = 200.	25.	M:SPC,DST	88104
			..... 500.	74.	D:TRDEN,RDI,E,J-PI	.....
PT-195	(N,G)	TN:78-PT-194	EN-N = 0.1	.....	M:SIG,SIG-M	90046
			..... 12.	.....	.....	.....
PT-196	(E,E')	FN:78-PT-196	EN-E = 200.	30.	M:DST,SIG	87103
			..... 500.	74.	.....	.....
			EN-E = 200.	25.	M:SPC,DST	88104
			..... 500.	74.	D:TRDEN,RDI,E,J-PI	.....
PT-197	(N,G)	TN:78-PT-196	EN-N = 0.1	M:SIG	90046
		 12.
PT-198	(G,N)	FN:78-PT-197	EN = ----	87056E
		 30.	D:IRAT

Z=79	GOLD	A=197
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AU- 0	(N,G)		EN-N = 0.01	125.	M:SPC,SIG	86079	
		 0.8	
	(P,G)		EN-P = 72.	30.	M:SPC,DST	88032	
			150.	
AU-197	(G,N)	FN:79-AU-196	EN = ----	87056E	
			..... 12.	4PI	D:IRAT	87089	
		(G,N)		EN = 12.	.....	M:SIG	87089
		(G,2N)		EN = 17.	.....	.....	.....
		(G,MON)		EN = 12.	4PI	M:SIG	87089
		(G,XN)		EN = 17.	.....	.....	.....
		(G,MON)		EN = 12.	4PI	M:SIG	87089
		(G,F)		EN = 60.	.....	M:SIG,FBIL,FPRB	89090E
		(G,MON,POL)		EN = 64.	.....	.....	.....
		(G,F)		EN = 100.	.....	M:ABY,SIG,FPRB,FBIL	89091
		(G,MON)		EN = 300.	.....	.....	.....
		(G,F)		EN = ----	M:SPC-IMP,MDIS,FBIL	89092
				EN = 200.
		(P,G)	TN:78-PT-196	EN-P = 168.	50.	M:SPC,DST,SIG	89038
		 200.	150.	

Z=80	MERCURY	A=198
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HG-198	(G,N)	FN:80-HG-197	EN = ----	87056E
		 30.	D:IRAT

Z=81	THALLIUM	A=203,205
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TL- 0	(G,G)	FN:81-TL- 0	EN = 8.	134.	M:SPC,DST,SIG	89088
		 18.	136.	D:MULT
			EN-N = 0.5	M:SPC,MLTPL,SIG	86070
			..... 3.0	.....	.....	.....
TL-203	(G,G)	FN:81-TL-203	EN = 8.	134.	M:SPC,DST,SIG	89088
			..... 18.	136.	D:MULT	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
TL-203	(G,N)	FN:81-TL-202	EN = 11.	90.	M:SPC-DP,SIG,SIG-M	90075
			..... 23.	.....	.....	.....
			EN = 11.	90.	M:SPC-DP,SIG,SIG-M	90075
			..... 23.	.....	.....	.....
TL-205	(G,G)	FN:81-TL-205	EN = 8.	134.	M:SPC,DST,SIG	89088
			..... 18.	136.	D:MULT	.....
	(E,E)	FN:81-TL-205	EN-E = 150.	180.	M:FMP	87104
			D:MULT
	(E,E'+P)	FN:80-HG-204	EN-E = 410.	M:SPC,SIG	87105
			D:STR

Z=82	LEAD	A=206,207,208
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PB- 0	(G,G)	FN:82-PB- 0	EN = 0.847	7.7	M:SPC,DST,SIG	86088	
		 3.253	45.	D:SCAM	
		(G,G)		EN = 0.344	15.	M:SIG	87076
		(G,MON)		EN = 1.408	45.
		(G,G)	FN:82-PB- 0	EN = 0.344	15.	M:SPC,DST,SIG	87091
		(G,MON)		EN = 1.408	45.
		(G,G)	FN:82-PB- 0	EN = 0.272	10.5	M:DST,SIG	87097
		(G,MON)		EN = 0.682	59.
		(G,G)	FN:82-PB- 0	EN = 60.	5.	M:DST,SIG,FMP	89070
				EN = 662.	140.
		(G,N)		EN = 20.	55.	M:DST,SIG,ASYM	87086
				EN = 35.	125.
		(G,N)		EN = 12.	4PI	M:SIG	87089
		(G,MON)		EN = 17.
	(G,N)		EN = 20.	55.	M:SPC,DST,SIG,SIG-V	87095	
	(G,MON)		EN = 30.	125.	.....	.....
	(G,N)		EN = 20.	55.	M:SPC,SIG,DST,ASYM	88068	
	(G,MON)		EN = 39.	125.	.....	.....
	(G,2N)		EN = 12.	4PI	M:SIG	87089	
	(G,MON)		EN = 17.	.....	.....	.....
	(G,XN)		EN = 12.	4PI	M:SIG	87089	
	(G,MON)		EN = 17.	.....	.....	.....
	(G,ABS)		EN = 0.2764	0.	M:SIG	87106	
	(G,MON)		EN = 0.612	.....	D:TOT	.....
	(G,F)		EN = 60.	.....	M:SIG,FBIL,FPRB	89090E
	(G,MON,POL)		EN = 64.	.....	.....	.....
PB-206	(G,G)	FN:82-PB-206	EN = ----	90.	M:SPC,DST,ASYM	86085	
			..... 12.	127.	D:E,J-PI,MULT,G-WIDTH	.....
		(G,G)		EN = 12.	60.	M:SPC,DST,SIG,FMP,ABI	86086
		(G,MON)		EN = 30.	135.	D:TOT
		(G,ABS)		EN = 12.	M:SIG	86086
	(G,MON)		EN = 48.	.....	D:TOT	.....
	(E,E'+P)	FN:81-TL-205	EN-E = 350.	.....	M:SPC	86087
			..... 410.	.....	D:STR,SPCTF	.....
PB-207	(E,E)	FN:81-TL-205	EN-E = 150.	180.	M:FMP	87104	
			.....	.....	D:MULT	.....
PB-208	(G,G')	FN:82-PB-208	EN = 10.	30.	M:DST,SIG	88105	
			..... 100.	150.	D:TOT	.....
		(G,N)	FN:82-PB-207	EN = ----	.....	87056E
			..... 14.	.....	D:IRAT	.....
	(G,ABS)		EN = 7.	.....	R:SIG	90086
			EN = 19.	.....	.....	.....
	(G,F)		EN = 35.	.....	M:SIG	90076
			..... 250.	.....	.....	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
PB-208	(E, E'+N)	FN:82-PB-207	EN = 9.	90.	M:SPC, COINC, RSP	88123
			..... 16.	...	D:STFUN, MULT	.....
	(E, E'+P)	FN:81-TL-207	EN-E = 350.		M:SPC	86087
			..... 410.	...	D:STR, SPCTF	.....
	(E, E'+P)	FN:81-TL-207	EN-E = 410.		M:SPC, SIG	87105
			.....	...	D:STR	.....
	(E, E'+P)	FN:81-TL-207	EN = 0.		E:ESP, SPC-IMP	90006
			..... 10.	...		.....
(E, E'+P)	FN:81-TL-207	EN = 0.		M:SPC, SPC-IMP	90009	
		..... 30.	...	D:SPCTF, STR	.....
(E, F)		EN-E = 35.	20.	M:DST, ANIS	89093	
		.....	80.		.....
(E, F)		EN = 35.		M:SIG	90076	
		..... 250.	...		.....

Z=83 BISMUTH A=208, 209, 210

BI-208	(G, N)	FN:83-BI-207	EN = ----			90057
			..... 25.	...	D:E-AV	.....
BI-209	(G, G)	FN:83-BI-209	EN = 8.	60.	M:SPC, DST, SIG	89088
			..... 18.	135.	D:MULT	.....
	(G, N)	FN:83-BI-208	EN = 7.	40.	M:SPC, DST, SIG, SIG-0	86082
			..... 11.4	150.	D:MULT, INTCP	.....
	(G, F)		EN = 43.		M:SIG, FPRB	86089
			..... 250.	...		.....
	(G, F)		EN = 100.		M:ABY, SIG, FPRB	87107
			..... 300.	...		.....
	(G, F)		EN = 60.		M:SIG, FBIL, FPRB	89090E
			..... 64.	...		.....
(G, F)		EN = 100.		M:ABY, SIG, FPRB, FBIL	89091	
		..... 300.	...		.....
(G, F)		EN = ----		M:SPC-IMP, MDIS, FBIL	89092	
		..... 200.	...		.....
(E, F)		EN-E = 43.		M:SIG, FPRB	86089	
		..... 250.	...		.....
BI-210	(N, G)	TN:83-BI-209	EN-N = 0.5		M:SPC, MULTPL, SIG	86070
			..... 3.	...		.....
(N, G)	TN:83-BI-209	EN-N = 17.7	55.	M:SPC, SIG, ASYM	90077	
		..... 22.	125.	D:MULT	.....

Z=90 THORIUM A=232, 233, 235, 238

TH-232	(G, G')	FN:90-TH-232	EN = 2.9	117.	M:SPC, DST, FMF	88107
			..... 4.1	165.	D:B(EL), PTOE	.....
	(G, XN)		EN = 5.		M:SIG	87110
			..... 11.	...		.....
	(G, NA24)	FN:80-HG-208	EN = 18.	0.	M:SPC-DP, ABY, SIG	86090E
			..... 28.	...		.....
	(G, F)		EN = 5.5		M:SIG, N-AV	86091
			..... 7.	...		.....
	(G, F)		EN = 5.8	90.	M:SIG, FPRB	86092E
			..... 12.	...	D:FBAR	.....
(G, F)		EN = 20.		M:SIG, FPRB	87108E	
		..... 110.	...		.....
(G, F)		EN-E = 5.		M:SIG, FPRB	87109	
		..... 35.	...	D:MULT	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
TH-232	(G, F)	G, MON	EN = 5.		M:SIG	87110
			..... 11.	...		.....
	(G, F)		EN = 6.		M:DST, ANIS	88099E
			..... 10.	...		.....
	(G, F)		EN = 6.		M:SIG, PNY	89094
			..... 20.	...	D:MULT	.....
	(G, F)	G, POL	EN = 5.5	90.	M:SPC, ASYM	89095
			..... 20.	...		.....
	(E, E')	FN:90-TH-232	EN-E = 20.2	117.	M:SPC, DST, FMF	88107
			..... 55.9	165.	D:B(EL), PTOE	.....
(E, E')	FN:90-TH-232	EN-E = 20.	85.	M:SPC, DST, FMF	89062	
		..... 220.	165.	D:MULT, B(EL), E, J-P1	.....
(E, F)		EN-E = 5.		M:SIG, FPRB	87109	
		..... 35.	...	D:MULT	.....
(E, F)		EN-E = 4.54	14.	M:DST, SIG	90078	
		..... 6.64	110.		.....

TH-233	(N, G)	TN:90-TH-232	EN-N = 3.		M:SIG	88106
TH-235	(N, G)	TN:90-TH-234	EN-N = 3.		M:SIG	88106
TH-238	(N, G)		EN-N = 3.		M:SIG	88106

Z=91 PROTACTINIUM A=231, 233

PA-231	(G, F)		EN = 4.8		M:ABY, SIG	87111
PA-233	(P, G)	TN:90-TH-232	EN-P = 7.		M:SIG	86093
			..... 20.	...		.....

Z=92 URANIUM A=233, 234, 235, 236, 237, 238, 239

U-0	(G, G)	FN:92-U-0	EN = 0.344	15.	M:SPC, DST, SIG	87091
			..... 1.408	45.	D:TOT	.....
	(G, G)	FN:92-U-0	EN = 60.	5.	M:DST, SIG, FMF	89070
			..... 662.	140.		.....
	(G, G)	FN:92-U-0	EN = 0.465	1.02	M:SPC, SIG	89100
			..... 2.842	1.8		.....
	(G, F)		EN = 100.		M:ABY, SIG, FPRB, FBIL	89091
			..... 300.	...		.....
	(G, F)		EN = ----		M:SPC-IMP, MDIS, FBIL	89092
			..... 200.	...		.....
U-233	(G, N)	FN:92-U-232	EN = 5.	4PI	M:SIG, ABI	86094E
			..... 18.	...	D:TOT	.....
	(G, F)		EN = 5.	4PI	M:SIG, ABI, N-AV	86094E
			..... 18.	...		.....
	(G, F)		EN = 5.43		M:SIG, FBIL	89096E
			..... 9.72	...	D:FBAR	.....
(G, F)		EN = 5.		M:ABY, SIG	90079	
		..... 11.	...		.....
(E, E'+F)		EN = 150.		M:SPC, COINC, SIG, FPRB	90080	
		..... 550.	...		.....
U-234	(G, N)	FN:92-U-233	EN = 7.	4PI	M:SIG, ABI	86094E
			..... 18.	...	D:TOT	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER	
U-234	(G,F)		EN = 5.	4PI	M:SIG,ABI,N-AV	86094E	
	G,MON		..... 18.	...	.....	.....
	(G,F)		EN = 6.4	...	M:DST	87112E	
			..... 9.	...	.....	.....
	(G,F)		EN = 6.	...	M:DST,ANIS	88099E	
			..... 10.	...	.....	.....
	(G,F)		EN = 5.5	...	M:DST	88108	
			..... 6.5	...	.....	.....
	(G,F)		EN = 5.5	0.	M:DST,SIG	90081	
			..... 7.	180.	D:MULT	.....
U-235	(G,F)		EN = ----	...	M:RLY,FBIL,FPRB	86096E	
			..... 11.5	...	.....	.....
	(G,F)		EN = 20.	...	M:SIG,FPRB	87108E	
	G,MON		..... 110.	...	.....	.....
	(G,F)		EN = ----	...	M:ABY	89097	
			..... 4320.	...	.....	.....
	(G,F)		EN = 5.	...	M:ABY,SIG	90079	
			..... 11.	...	.....	.....
	(G,F)		EN = 300.	...	M:SIG	90083	
	G,MON		..... 3500.	...	.....	.....
U-236	(E,E'+F)		EN-E = 185.	...	M:MDIS,ASYN,SIG	89098	
			.....	...	D:MULT	.....
	(E,E'+F)		EN-E = 185.	...	M:COINC	89099	
			.....	...	D:MULT,STOAS	.....
	(E,E'+F)		EN-E = 78.	0.	M:COINC,SPC,DST,SIG	90084	
			..... 183.	180.	D:MULT,SRE,STR	.....
	(E,F)		EN-E = 1330.	...	M:SIG	89097	
			..... 4320.	...	.....	.....
	U-237	(G,F)		EN = ----	...	M:RLY,FBIL,FPRB	86096E
			 11.5
(N,G)		TN:92- U-236	EN = 0.96	...	M:SIG	86097E	
			..... 3.3	...	.....	.....
(N,G)		TN:92- U-236	EN-N = 0.001	...	R:SIG	86098	
U-238	(N,G)	TN:92- U-236	EN-N = 0.3	...	M:SIG	88109	
			..... 2.2	...	.....	.....
	(G,G)	FN:92- U-238	EN = 4.8	0.	M:SPC,DST,SIG	87114E	
	G,MON		..... 6.4	135.	.....	.....
	(G,G)	FN:92- U-238	EN = ----	...	M:SIG	88110	
U-239	(G,G)	FN:92- U-238	EN = 10.	...	D:MULT	.....
	G,MON		..... 8.	60.	M:SPC,DST,SIG	89088
	(G,G')	FN:92- U-238	EN = 18.	90.	D:MULT	.....
			..... 2.9	117.	M:SPC,DST,FMF	88107
	(G,N)	FN:92- U-237	EN = 4.1	165.	D:B(EL),PTOE	.....
		..... 8.	90.	M:ABY	89002	

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
U-238	(G,IM)		EN = 5.	...	M:SIG	87110
	G,MON		..... 11.	...	.....	.....
	(G,ABS)		EN = 10.	...	M:SIG	88111
			..... 20.	...	.....	.....
	(G,F)		EN = 20.	...	M:SIG,FPRB	87108E
	G,MON		..... 110.	...	.....	.....
	(G,F)		EN = 5.	...	M:SIG	87110
	G,MON		..... 11.	...	.....	.....
	(G,F)		EN = 6.4	...	M:DST	87112E
			..... 9.	...	.....	.....
	(G,F)		EN = 6.	...	M:DST,ANIS	88099E
			..... 10.	...	.....	.....
	(G,F)		EN = 46.4	...	M:SIG,ABX	88101E
	G,MON,POL		..... 71.9	...	.....	.....
	(G,F)		EN = 5.5	...	M:DST	88108
			..... 6.5	...	.....	.....
	(G,F)		EN = 6.	...	M:SIG,PNY	89094
			..... 20.	...	D:MULT	.....
	(G,F)		EN = ----	...	M:ABY	89097
			..... 4320.	...	.....	.....
U-239	(G,F)		EN = 5.	...	M:ABY,SIG	90079
			..... 11.	...	.....	.....
	(G,F)		EN = 5.5	0.	M:DST,SIG	90081
			..... 7.	180.	D:MULT	.....
	(G,F)		EN = 300.	...	M:SIG	90083
	G,MON		..... 3500.	...	.....	.....
	(G,F)		EN = 11.	15.	M:SIG,MDIS,DST,ANIS	90085
	G,MON		..... 16.	165.	.....	.....
	(E,E')	FN:92- U-238	EN-E = 100.	60.	M:RSP	86099
			..... 690.	180.	.....	.....
	(E,E')	FN:92- U-238	EN-E = 20.2	117.	M:SPC,DST,FMF	88107
			..... 55.9	165.	D:B(EL),PTOE	.....
	(E,E')	FN:92- U-238	EN-E = 20.	85.	M:SPC,DST,FMF	89062
			..... 220.	165.	D:MULT,B(EL),E,J-PI	.....
	(E,E'+F)		EN-E = 80.3	55.	M:SPC,DST,COINC,FMF	86100
			..... 163.8	174.	D:MULT	.....
	(E,E'+F)		EN-E = 78.	...	M:SPC,SIG,FMF	87113
			..... 183.	...	D:MULT,STR	.....
	(E,E'+F)		EN = 5.5	0.	M:DST,COINC,SIG	88118
			..... 15.	180.	D:MULT,E,J-PI	.....
(E,E'+F)		EN-E = 185.	...	M:MDIS,ASYN,SIG	89098	
		.....	...	D:MULT	.....
(E,E'+F)		EN-E = 185.	...	M:COINC	89099	
		.....	...	D:MULT,STOAS	.....
(E,E'+F)		EN = 150.	...	M:SPC,COINC,SIG,FPRB	90080	
		..... 650.	...	.....	.....
(E,E'+F)		EN-E = 78.	0.	M:COINC,SPC,DST,SIG	90084	
		..... 183.	180.	D:MULT,SRE,STR	.....
(E,F)		EN-E = 5.	...	M:SIG	86095	
		..... 7.	...	D:MULT,B(EL)	.....
(E,F)		EN-E = 1330.	...	M:SIG	89097	
		..... 4320.	...	.....	.....
U-239	(N,G)	TN:92- U-238	EN-N = 0.001	...	R:SIG	86098
			..... 14.	...	.....	.....
	(N,G)	TN:92- U-238	EN-N = 0.004	...	M:SIG	86101E
			..... 0.46	...	.....	.....
(N,G)	TN:92- U-238	EN-N = 0.1	...	M:SIG	90046	
		..... 12.	...	.....	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
Z=93 NEPTUNIUM A=237,238						
NP-237	(G,N)	FN:93-NP-236	EN = 5.	4PI	M:SIG,ABI	86094E
	G,MON		..... 18.	...	D:TOT	.....
	(G,2N)	FN:93-NP-235	EN = 12.	4PI	M:SIG,ABI	86094E
	G,MON		..... 18.	...	.....	.....
	(G,F)		EN = 5.	4PI	M:SIG,ABI,N-AV	86094E
	G,MON		..... 18.	...	.....	.....
	(G,F)		EN = 11.5	...	M:RLY,FBIL,PPRB	86096E
	G,MON		..... 5.58	0.	M:DST	86102
	(G,F)		..... 8.99	90.	.....	.....
	(G,F)		EN = 6.	10.	M:SIG	88102
	(E,F)		..... 60.	100.	D:MULT	.....
	(E,F)		EN-E = 6.	10.	M:SIG	88102
	(E,F)		..... 60.	100.	D:MULT	.....
NP-238	(N,G)	TN:93-NP-237	EN-N = 0.001		R:SIG	86098
			..... 14.	...	.....	.....
Z=94 PLUTONIUM A=239						
PU-239	(G,N)	FN:94-PU-238	EN = 5.	4PI	M:SIG,ABI	86094E
	G,MON		..... 18.	...	D:TOT	.....
	(G,2N)	FN:94-PU-237	EN = 5.	4PI	M:SIG,ABI	86094E
	G,MON		..... 18.	...	.....	.....
	(G,F)		EN = 5.	4PI	M:SIG,ABI,N-AV	86094E
	G,MON		..... 18.	...	.....	.....
	(G,F)		EN = 11.5	...	M:BLY,FBIL,PPRB	86096E
	(G,F)		EN = 5.43	...	M:SIG,FBIL	89096E
	G,MON		..... 9.72	...	D:FBAR	.....
Z=95 AMERICIUM A=241,243						
AM-241	(G,F)		EN = 11.5	...	M:RLY,FBIL,PPRB	86096E
AM-243	(G,N)	FN:95-AM-242	EN = 450.	...	M:SIG	88103
	(G,F)		..... 950.	...	D:PTOE,ITOP	.....
	(G,F)		EN = 450.	...	M:RLY,FBIL,PPRB	86096E
	(E,N)	FN:95-AM-242	EN = 450.	...	M:SIG,ISY	88103
	(E,F)	 950.	...	D:IRAT,PTOE
	(E,F)		EN = 450.	...	M:SIG	88103
	(E,F)	 950.	...	D:PTOE,ITOP
	(E,F)		EN = 450.	...	M:SIG	88103
	(E,F)	 950.	...	D:PTOE

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B BABA K. 86022
BABICHEV E.O. 87079 88086
BABUSCI D. 90001
BACHER A.D. 86075 87009 88034 88045 89045 89046
BAER H. 89037
BAGAZI S.A. 90056
BAGDASARJAN A.R. 90083
BAGDASARJAN A.S. 90007 90008 90024
BAGHAEI H. 86032 87029 88050 89031 90027 90051
BAJATJAN G.L. 89097 90083
BAKHSHECJAN R.R. 90007
BAKKUM E.L. 89051
BALABANDY N.P. 90055
BALABEKJAN A.R. 88090 89073 89078 90060 90061
BALAMUTH D.P. 87042
BALANDA A. 88091
BALBES M.J. 90016
BAMBER C. 88015
BANGERT K. 86054
BAR-TOUV J. 88065 88115
BARAN D.T. 88031
BARANNIK V.P. 86007
BARHOUMI S. 89048
BARNEOUD D. 88032 89038
BARNES C.A. 87014 88044 89052 90033
BARNETT B.W. 87105
BASAK A.K. 89028
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BATIJ V.G. 87069 87084E 87092 89075
BAUMANN A. 89088
BAUMEISTER H. 89054
BAUNGARTNER M. 86010
BAYE D. 88053
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BECK B. 86029 88037 90030
BECKER H.W. 87038 87039 87049 88028 88059 89054 89056 90033
BEER H. 88095
BEHR J.A. 87073
BEISE E.J. 89033 89041 89042
BELJAEV A.A. 86009E
BELLENBERG B. 86024
BELLI P. 88022E 90011
BELLICARD J.B. 86080
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BENTON D. 88004
BERANT Z. 86061 86082 88003E 89008
BERG U.E.P. 86054 86081 86085 88097 88107 89085
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BERGQVIST I. 86034 87083
BERKVEN S. 86027E 87058 88043 89032
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BEUERMANN T. 88121
BHUIOKA REDDY S. 87096
BIANCHI N. 86031 87008 89005 89012 89092
BIGAN Z.M. 89087 90066
BIKIT I. 87094

BINI M. 86056
BIRENBAUM Y. 86082 87114E 88003E 89008
BIZZETI P.G. 86056
BLAND L.C. 89010 89017
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BLASI N. 86075
BLASING C. 86054 86085
BLATCHLEY C.C. 86099
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BLOMGREN J. 86032 87001 87029 88002 88007 88120 89031 90021 90029
BLOMQVIST K.F. 30080
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BOBERG P. 87112E 88108
BOCHAROVA I.F. 90022
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BOEGLIN W. 86033 87020 88071
BOFFI S. 87038 89048
BOGAERT G. 87081 87099 88107 89062 89077 89084
BOHLE E. 87100E 90065 90074
BOIKOVA E.A. 90024
BOJADZHJAN M.K. 90007
BOJAKHCHJAN E.M. 86084 86101E 87093 88098 89079
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BOLME G.O. 88077
BONDARENKO V.I. 90034
BONNET L. 90049
BOOTEN J.G.L. 86016 88020
BOOTH E.C. 89071
BORTIGNON P.F. 88004 88119 90005
BOSTED P.E. 87108E 88024
BOURGEOIS PH. 88119 90005
BOYD G. 87097
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BRAUNSTEIN M.R. 89083
BRENTANO P.V. 88072
BRICAULT P. 86019 89030
BRISCOE W.J. 87046
BROMLEY D.A. 87070
BROOKES E.D. 87006E
BROOKS F.D. 89052 90039
BROWN B.A. 87009 88010 89017
BROWN J.D. 87042
BROWN K.D. 86017
BROWN R.E. 86042 90039 90042
BROWNE C.P. 87101
BRUCE A.M. 87012 87055 88013 89018
BRUSSEL M.K. 86023 87018E 87019E 87079 87080 88025 88086 89011 90003
BUKI A.JU. 90018 90063 90064
89060
BULTEN H.J. 86043
BURKARD A. 89023
BURKOVA N.A. 90050
BURNS D.T. 90048
BURT P.E. 86010 87022
BURZYNSKI S. 86036 86080 87040 87044 90036
BUTI T.N. 89083
BUTLER P.A. 87031 88030
BUTTON-SHAFFER J.

BYRD M.J.	90073								
BYRD R.C.	88010	89017							
C									
CALAPRICE F.P.	87026								
CALARCO J.R.	86032	86100	87029	88054	89031	90027	90080		
CALDWELL J.T.	86094E								
CAMERON J.A.	86064	88075	88076	89067	90056				
CAMERON J.M.	86003	86015							
CAMPBELL C.	87038	87047							
CAPITANI G.P.	86004	86031	87008	87012	88013	88071	89005	89018	
CAPLAN H.	88120								
CARCHON R.	89088								
CARDMAN L.S.	87104	88092	88093	88123	89035	90069	90085		
CARLOS P.J.	87108E	88024							
CARLTON R.F.	87065								
CARR J.A.	87040	90048							
CARROLL J.J.	90073								
CASANO L.	86006E	88022E	90001						
CASTEL B.	87065								
CAVEDON J.M.	87103	88072	88093	88104					
CENTALOVICH E.P.	86002	87005	87043	90010					
CESAR M.T.F.	89096E								
CHAMPAGNE A.E.	90038	90043							
CHANG C.C.	90027								
CHANG K.H.	87014	87050	88044	88052					
CHANT N.S.	89033								
CHAPURAN T.E.	87042								
CHATTERJEE M.B.	86044								
CHEN J.-P.	89001								
CHENLIN WEN	88079								
CHERNJAEV A.P.	87021	90020							
CHISHOLM A.	88022E								
CHITWATTANAGORN W.	87076								
CHIZHOV V.P.	86020E	89059							
CHOPOROV JU.M.	88108								
CHRISTIAN D.G.	89001								
CHRISTOU C.T.	86019	89024							
CHUVAEV S.V.	88106								
CICHOCKI A.	90051								
CLAUSEN B.L.	90048								
CLEFF B.	89054								
CLEMENT H.	87105								
CLEMENTS J.-C.	88093								
CLICKMAN J.	90027								
CLOGHER L.	88004								
COLBY P.	86008	86013							
COLE P.L.	86086	90069							
COLLINS C.B.	88089	88112	90073						
COLLINS D.	88119	90005							
COMUZZI J.J.	87001								
CONNELLY J.P.	88092	90067	90080						
CORVISIERO P.	86004	86031	87008	88049	89005	89071			
COTTMAN B.H.	86032	87001	87029	89031	90027				
COUNTRYMAN P.J.	86100								
CRANNELL H.	89036								
CRAWFORD G.I.	86029	88037	90050						
CRESPO R.	89022								
CRONA S.	87083								
CSEH J.	88064								
CUPPS V.R.	87009								
CURRAN A.R.	90050								
CZERSKI K.	87022								

D									
D'ANGELO A.	90001								
D'ANGELO S.	86006E	88022E	88101E	89090E	90011				
D'HOSE N.	89007								
DALE D.S.	89080								
DALLAKJAN K.R.	90007								
DANAGULJAN A.S.	88090	89073	89078	90060	90061				
DANAGULJAN S.S.	90007								
DANCER S.N.	88037								
DAVIDSON W.F.	87057	88063	89049						
DAVINSON T.	90030								
DAVIS N.	88015								
DAVLETSHIN A.N.	86097E								
DAVYDOV M.G.	87056E	87071E	87081E	87086E	88087				
DAY D.B.	88120	89001							
DE BARROS S.	89070								
DE BOTTON N.	89007								
DE CLERCQ A.	90082								
DE ESCH H.P.L.	86063	86068	88066						
DE FOREST T.	86033	87020							
DE FRENNE D.	90078	90082							
DE GRAEVE A.	86027E	88043	89004	89032					
DE JAGER C.W.	86075	87099	88030	88041	89057	88074	89035	89062	89066
	89082	90048	90068						
DE JONG M.	88033								
DE LEO R.	90068								
DE LIMA D.A.	89058	90044							
DE MINIAC A.	88024								
DE MORAES M.A.P.V.	89096E								
DE OLIVEIRA V.C.	88101E								
DE PASCALE M.P.	86006E	88022E	88101E	89090E	90011				
DE SANCTIS E.	86004	86031	87008	87012	87107	88013	88071	89005	89012
	89018	89091	89092						
DE SANCTIS M.	90011								
DE SOUSA E.V.	89058								
DE VOIGT M.J.A.	89086								
DE VRIES C.	88073								
DE VRIES H.	86075	87099	88057	88074	88080	89035	89062	89066	89082
	90048	90068							
DE VRIES J.W.	88041								
DE WIT P.	86040	86041	88058	88113					
DE WITT HUBERTS P.K.A.	86019	86033	86062	86087	87011	87020	87105	88016	88033
	88036	88072	88073	88116	88122	89024	89030	89060	89062
	90006	90009							
DEADY M.	86058	86099	88120	89033	89042				
DEBEBE B.	88004	88030							
DEBEVEC P.T.	86086	87066	87095	88068	90085				
DECHAMBRIER G.	88004								
DEININGER J.R.	90069								
DEL BIANCO W.	88111	89040							
DELLI CARPINI D.	88020								
DEMEXHINA N.A.	88088	89063	89069						
DEMENTIJ S.V.	88018								
DEMOS P.	88120								
DEN HEIJER P.	86075								
DEN HERDER J.W.A.	86019	86033	86062	86087	87011	87020	87105	88116	88122
DENJAK V.V.	89011	89095	90003						
DENNIS L.C.	89001								
DEOM C.	88006								
DESCOUEMONT P.	88053								
DEVIS C.A.	86003	86015							
DHUGA K.S.	90048								
DI GIACOMO P.	86004	86031							
DIAS J.F.	90045								
DIETRICH F.S.	86034	88004							
DIETRICH S.S.	86094E	87089							

DIN G.U. 86064 88075 88076 89067 90056
DIXIT S. 88050
DJUKOV S.N. 88027
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DOLFINI S.M. 90069
DONNE A.J.H. 87048
DONOGHUE T.R. 86042 87014 87039 87050 88034 88045
DOORNHOF D. 88041
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DOWDY E.J. 86094E
DOWELL D.H. 86047 87066 87095 88068
DOZONO Y. 90032
DRAKE D.M. 86017 86034 90031
DREUX P. 88072
DREXLER J. 86081
DRISSI S. 88032 89038
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DUBENSKIJ A.P. 87100E 90065 90074
DUBENSKIJ V.P. 87100E 90065 90074
DUBUC J. 86072
DUNN P.C. 88013
DUPONT C. 87003 88006
DYTLEWSKI H. 86021E
DYTMAN S.A. 88002 88007 88120
DZILAVJAN L. 89071

E EBBING H. 89054
EBERHARD C.D. 88089 88112
EBISAWA K. 86050
EDEN J. 88029E 88039
EGANOV V.S. 90007
EGELHOF P. 86010 87103 88104
EICHLER J. 89070
EIRO A.M. 86013 89022
EL-KATEB S. 86066
ELBAKJAN G.M. 90007
ELWYN A.J. 88060
EMERY G.T. 86075
EMMA V. 87107 89091
ENRICH H.J. 86045 87113 89035 89098 89099 90084
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ENT R. 86019 87020 87105 88016 89024 89030 89060
EPSTEIN M.B. 89031 90027
ERAMZHJAN R.A. 87021 89023 90086
ERAN L.V. 89020
ERLANDSSON B. 87078
ERMAK V.P. 88021 89016
ESAULOV A.S. 87010 87013
ESKOLA K. 87078
EVANS H.C. 87054 88044
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89095 90003 90023

F FABENE R. 86056
FACCI M.J. 87036E

FAGG L.W. 88074 89036 90048
FAGOT J. 87108E 88024
FALLOU J.L. 87108E 88024
FARKHONDEH M. 88120 90048
FARTUSHNYJ V.A. 86023 87018E 87074 87075 88027
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FELDMAN G. 86047 87073 88017 90016
FERDINANDE H. 86027E 87058 88043 89004 89032 90029
FETTWEIS P. 89088
FIELDING H. 86003
FILATENKOV A.A. 88106
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FISHER G.A. 88054
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FLYNN D. 87090
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FORNAL B. 89071
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FUJII Y. 86030 87015 88035E
FUKUMA H. 86022

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GERARD A. 89007 89011 90027
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GHEDIRA L. 88049
GHOSE A.M. 89041
GIANNINI M.M.
GILAD S.

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ILIADIS CH.	90043								
IMANISHI A.	87035								
INCICCHITTI A.	86006E	88022E	90011						
INOUE K.	86022								
IORGENSTERN J.	88013								
IRGASHEV K.M.	86025E	86038E	87051E	87061E	87062E	88056			
ISAKOV A.G.	89079								
ISAKSSON L.	90021	90029	90035						
ISHKHANOV B.S.	86038E	86051E	86059E	87021	87051E	87061E	87062E	88056	88061
	89057	90020	90086						
ITOH K.	89061								
IVANOV D.I.	88103								
IVRI J.	86061								
IZOSIMOV I.N.	88081	88082							
J									
JACKSON H.E.	88031	88071	88119	89018	90005				
JACOBS E.	90078	90082							
JAKOVLEV M.P.	89002								
JAMMES L.	89007	89014							
JANS E.	86019	86033	86062	86087	87011	87012	87020	87105	88016
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JANSEN F.P.	90026								
JANZEN V.P.	86064								
JARASRANGSICHOL J.	87076								
JARMIE N.	86017								
JENNEWAIN P.	86029	88040E	90030						
JIANFENG L.	90072								
JOHNSON C.H.	87065								
JOLY S.	86070								
JONES K.	88014								
JONES R.T.	90085								
JONES W.P.	86075								
JOURDAN J.	86010	88031	88119	90005					
JOZSA M.	86053	88064							
JUDIN N.P.	90086								
JUHASZ S.	88099E								
JUKHAS SH.	87112E								
JULIEN J.	89038								
JUNG A.	86085								
JUR'EV B.A.	86026								
JURY J.W.	87045	87059	87089	87108E	88024	88063	89049		
K									
KACHAN A.S.	87053	88114	89050						
KAHANE S.	86082	88003E	89008	89100					
KAILAS S.	88096								
KAJRYS G.	86072	89040							
KALANTAR-NAYESTANAKI N.	86032	87029	88050	89031	89035	90027	90048		
KALEN J.D.	88034	88045	89045						
KALININ B.N.	86001								
KAMMERAAD J.	87014								
KANAZAWA M.	87002								
KAPITONOV I.M.	86038E	86051E	86059E	87051E	87061E	87062E	88056	88061	89057
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KAPPELER F.	89027								
KARAPETJAN A.P.	90007								
KARASEV S.P.	86007	88008E							
KARASEV V.I.	90046								
KARATAGLIDIS S.	89026								
KARBAN O.	88074								
KARNAUKHOV I.M.	86009E								
KARWOWSKI H.J.	86075	87009	88010	89017					
KASATKIN JU.A.	88019	89010	89011	89013	89019	89020	90003		

KASILOV V.I.	89011	89095	90003						
KASTEN B.	86088	89083							
KATO S.	87035								
KATRAMATOU A.T.	88004								
KAVANAGH R.W.	86046	90037	90040						
KAWAHARA H.	88069	88085	89093	90076					
KAWAMOTO T.	86022								
KAWAZOE Y.	86018	86069	87082E	88069	88085				
KAZAKOV L.E.	86084	86101E	87093	88098	89079				
KAZARJAN G.B.	90024								
KECHJAN K.P.-A.	90024								
KEDDY R.J.	87046	88070							
KEINONEN J.	86053	88064	89053						
KEJZER P.H.M.	86019	86033	86062	86087	*7011	88116	88122		
KELLIE J.D.	88037	90030	90050						
KELLOGG S.E.	89052	90037							
KELLY J.J.	86032	86036	86037	86080	*7029	87040	87044	88050	90036
KEMPER K.W.	89001								
KENNETT T.J.	86083	86103	89006E						
KERKHOVE E.	86027E	87058	88043	89032					
KERN J.	88032								
KERN TH.	86043								
KEROPJAN I.A.	90007	90008							
KHAMRAEV F.SH.	86025E	87071E	87081E	87086E	88087				
KHAN SH.	88079								
KHATUN S.	86065								
KHIMICH I.V.	90075								
KHODJACHIKH A.P.	87028	88038	89029	89043					
KHOMICH A.A.	87079	87080	88025	88086	90018	90063	90064		
KHOMJAKOV G.K.	87053								
KHRISTOV KH.G.	86090E	90055							
KHUDAVERDJAN A.G.	88090	89073	89078	90060	90061				
KHVAROSTJAN V.M.	88021								
KHVASTUNOV V.M.	86023	87018E	88027	89011	89023	89095	90003		
KIAM TH.	88079								
KICINSKA-HABIOR M.	86071	87073							
KIHM TH.	86045	87113	89098	89099	90084				
KIKSTRA S.W.	87025	90043	90049						
KILGUS G.	87099	88107	89062						
KIM J.C.	88029E	89040							
KIM T.	88118								
KIM W.	88034	88045	89045	90042	90080				
KING J.	90047								
KING J.O.	87024	87038	87047						
KINNEY E.R.	88047	88119	90005	90010					
KIOUS M.	89048								
KIRICHENKO I.K.	89011	90003							
KIRICHENKO V.V.	87028	88038	89029	89034	89043	90025			
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KISSEL L.	86088								
KITAEV V.JA.	89065	90058							
KITAZAWA H.	86048	86079	88048	90032					
KITCHING P.	86003	86015							
KITWANGA S.W.	88006								
KIZOGJAN O.S.	90007								
KLAPDOR H.V.	86071	87085							
KLEIN A.	86010								
KLEIN F.	86029								
KLEIN S.	86087								
KNEISSL U.	86081	87108E	87113	88097	88100	88107	88118	89083	89085
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KNILL E.	88120								
KNJAZJAN S.G.	89097	90083							
KNOPFLE K.T.	86045	86100	87113	88079	88118	89068	89098	89099	90084
KNUTSON L.D.	87004								

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 SCHMALBROCK P. 87054
 SCHMEING N.

SCHMIDT G.	89003				
SCHNEIDER R.K.M.	86045				
SCHROCH B.	86029	88037	88040E	90030	
SCHRODER B.	87001	90021	90029	90080	
SCHRODER F.	89088				
SCHRODER U.	87038	88059	89056	90040	90043
SCHUBANK R.B.	86064				
SCHUHL C.	89007	89014			
SCHULTE W.H.	89054	90040			
SCHULZ H.J.	88079				
SCHULZE M.E.	86032	87029			
SCHUMACHER M.	86088	88105	88121	89083	89088 90028
SCHUMACHER R.A.	86011				
SCHUSSLER F.	88032	89038			
SCHWANDT P.	88010	89017			
SCHWEITZER J.S.	87049	89054			
SCHWENKER O.	87104				
SCOTT A.F.	88083	89072			
SEALOCK R.M.	89001				
SEDOV A.S.	86096E				
SEEMANN U.	88097	89083	89099	90070	
SEGEL R.E.	88031	88060	88119	89033	90005
SEIDL P.	88031				
SELIG A.M.	88073				
SELLSCHOP J.P.F.	88070				
SELLYEV W.C.	87037	87055	88065	88067	88115
SEN GUPTA H.M.	86065				
SENE M.R.	86029	86091			
SEPP W.D.	88121				
SERDAREVIC A.	90069				
SERGIENKO V.P.	87079	88086			
SETH K.K.	88057				
SEUTHE S.	90040				
SEVIOR M.E.	86060				
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SHAHAL O.	89100				
SHARDANOV A.KH.	86026				
SHATUNOV JU.M.	86002	87005			
SHCHERBAK S.F.	89011	89095	90003		
SHEBEKO A.V.	86009E	88011	90012		
SHEBEKO K.V.	88077	89064	90054	90062	
SHEPARD J.R.	87052				
SHERMAN N.K.	87057	88063	88111	89049	
SHEVCHENKO N.G.	87079	87080	88025	88086	90018 90063 90064
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SHIMING W.	90072				
SHIMIZU M.	86048	86079			
SHIN Y.M.	89061				
SHODA K.	86018	86039	87064		
SHOWURODOV E.M.	87071E	87081E			
SHOSTAK V.B.	86023	87018E	90023		
SHOTTER A.C.	86029	88037	88040E	90030	
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SIDDIQUI S.A.	86021E	87027			
SIEFERT J.	86043				
SIGALOV V.M.	86067	88081			
SIKORA D.I.	88108	89094	90081		
SILK J.D.	89033				
SIMONATTO S.	89093	90076			
SINGH R.K.Y.	88096				
SINGHAL R.P.	86005	88023	88030	88041	
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SINOR T.W.	90073				
SIZOV I.V.	86067	87033	88081	88082	
SKAKUN E.A.	87069	87084E	87092	89075	

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SKOPIK D.	88120				
SLIVKA J.	87094				
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SMEND F.	86088				
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SMIT F.D.	87006E				
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SNOVER K.A.	86047	87073			
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SODERSTRUM J.P.	87004				
SOGA F.	87002				
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SOMORJAI E.	86053	88064	89053	90040	90043
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	88026	89009	89010	89013	89015 89016 89019 89023 90002
	90019				
SORVIN V.M.	86025E				
SOUKUP J.	86003	86015			
SOUNDANAYAGAM R.	88057				
SOWINSKI J.	88010	89017			
SPAMER E.	89066				
SPANIER L.	87078				
SPECHT J.R.	87007E				
SPIELER C.	90071	90073			
SPOROV E.A.	86009E	87010	87013		
SPRINGHAM S.V.	88037	88040E	90030		
ST-PIERRE C.	86044				
STARCEV V.I.	90017				
STARODUB G.J.A.	86076				
STEININGER R.	89027				
STEIPER F.	88100	89099			
STEPANENKO V.A.	87018E				
STEPHENSON K.E.	87007E				
STETZ A.W.	86003	86016			
STIBUNOV V.N.	86001	87005	88001		
STOCK R.	86054	86081	86085	88097	89085 90070
STOLK W.	87072				
STOLER P.	89007	89014			
STOLK A.	88091	89086			
STORIZHKO V.E.	88077	88114	89050		
STORM D.W.	87066	87095	88068		
STORozHENKO JU.O.	86007	88008E	89009	89015	90002 90019
STROHER H.	87108E	88100	89099	90085	
SUDA T.	86030	88029E	88035E	88039	
SUDO M.	87015				
SUDOV A.S.	88103				
SUGAWARA M.	86089	88069	88085	89093	90076
SUJKOWSKI Z.	89086				
SUKIASJAN YU.Z.	90007				
SUMI Y.	86022				
SUN C.	89014				
SURGUTANOV V.V.	87021				
SUTTON D.C.	88065	88067	88115		
SUTTON R.A.	86039				
SUZUKI T.	88029E	88039	90051		
SYCHOV S.I.	89094				
SZALATA Z.M.	88004				
SZCZUREK A.	90022				
SZEFLINSKA G.	86071	87085			
SZEFLINSKI Z.	86071	87085			

VII. ТАБЛИЦА "РАСПРОСТРАНЕННОСТИ ИЗОТОПОВ И ЭНЕРГИИ ОТДЕЛЕНИЯ НУКЛЕОНОВ" TABLE "ABUNDANCES OF ISOTOPES AND NUCLEON SEPARATION ENERGIES"

Использованы данные работы "Photonuclear Data Index, 1973-1981", NBSIR 82-2543-1, 1983 The data used of publication

NUCLEUS	ABUNDANCE (%)	SEPARATION ENERGIES (MEV)							
		G,N	G,P	G,T	G,HE3	G,A	G,2N	G,NP	G,2P
1-H - 1	99.99	*	*	*	*	*	*	*	*
2	1.5(-2)	2.2	2.2	*	*	*	*	2.2	*
3	*	6.3	8.5	*	*	*	8.5	8.5	*
2-HE- 3	1.4(-4)	7.7	5.5	*	*	*	*	7.7	7.7
4	99.99	20.6	19.8	19.8	20.6	*	28.3	26.1	28.3
3-LI- 6	7.50	5.7	4.6	15.8	15.8	1.5	27.2	3.7	26.4
7	92.50	7.3	10.0	2.5	25.9	2.5	12.9	11.8	33.5
4-BE- 9	100.00	1.7	16.9	17.7	21.2	2.5	20.6	18.9	29.3
5-B - 10	20.00	8.4	6.6	18.7	17.8	4.5	27.0	8.3	23.5
	80.00	11.5	11.2	11.2	27.2	8.7	19.9	18.0	30.9
6-C - 12	98.89	18.7	16.0	27.4	26.3	7.4	31.8	27.4	27.2
13	1.11	4.9	17.5	23.9	24.4	10.6	23.7	20.9	31.6
7-N - 14	99.63	10.6	7.6	22.7	20.7	11.6	30.6	12.5	25.1
15	0.37	10.8	10.2	14.8	28.2	11.0	21.4	18.4	31.0
8-O - 16	99.76	15.7	12.1	25.0	22.8	7.2	28.9	23.0	22.3
17	0.04	4.1	13.8	18.6	18.8	6.4	19.8	16.3	25.3
18	0.20	8.0	15.9	15.8	25.6	6.2	12.2	21.8	29.1
9-F - 19	100.00	10.4	8.0	11.7	22.1	4.0	19.6	16.0	23.9
10-NE- 20	90.51	16.9	12.8	23.9	21.2	4.7	28.5	23.3	20.8
21	0.27	6.3	13.0	21.6	19.9	7.3	23.6	19.6	23.6
22	9.22	10.4	15.3	21.5	26.3	9.7	17.1	23.4	26.4
11-NA- 23	100.00	12.4	8.8	17.4	24.4	10.5	23.5	19.2	24.1
12-MG- 24	78.99	16.5	11.7	26.7	23.1	9.3	29.7	24.1	20.5
25	10.00	7.3	12.1	23.0	20.1	9.9	23.9	19.0	22.6
26	11.01	11.1	14.1	21.6	26.0	10.6	18.4	23.2	24.8
13-AL- 27	100.00	13.1	8.3	18.2	23.7	10.1	24.4	19.4	22.4
14-SI- 28	92.23	17.2	11.6	27.5	23.2	10.0	30.5	24.6	19.9
29	4.67	8.5	12.3	24.6	20.6	11.1	25.7	20.1	21.9
30	3.10	10.6	13.5	22.2	24.8	10.6	19.1	22.9	24.0
15-P - 31	100.00	12.3	7.3	17.9	22.5	9.7	23.6	17.9	20.8
16-S - 32	95.02	15.0	8.9	24.0	19.1	6.9	28.1	21.2	16.2
33	0.75	8.6	9.6	21.3	17.1	7.1	23.7	17.5	18.2
34	4.21	11.4	10.9	20.4	21.9	7.9	20.1	21.0	20.4
36	0.02	9.9	13.0	19.3	25.0	9.0	16.9	21.5	25.0
17-CL- 35	75.77	12.6	6.4	17.9	19.6	7.0	24.2	17.8	17.3
37	24.23	10.3	8.4	16.8	22.1	7.8	18.9	18.3	21.4

NUCLEUS	ABUNDANCE (%)	SEPARATION ENERGIES (MEV)							
		G,N	G,P	G,T	G,HE3	G,A	G,2N	G,NP	G,2P
18-AR- 36	0.34	15.3	8.5	24.2	18.6	6.6	28.0	21.2	14.9
38	0.06	11.8	10.2	20.7	20.8	7.2	20.6	20.6	18.6
40	99.60	9.9	12.5	18.2	23.1	6.8	16.5	20.6	22.8
19-K - 39	93.26	13.1	6.4	18.5	19.2	7.2	25.2	18.2	16.6
40	0.01	7.8	7.6	17.5	18.7	6.4	20.9	14.2	18.3
41	6.73	10.1	7.8	15.8	20.7	6.2	17.9	17.7	20.3
20-CA- 40	96.94	15.6	8.3	25.0	18.8	7.0	29.0	21.4	14.7
42	0.65	11.5	10.3	19.7	20.2	6.2	19.8	20.4	18.1
43	0.14	7.9	10.7	19.8	18.3	7.6	19.4	18.2	19.9
44	2.09	11.1	12.2	20.9	23.3	8.8	19.1	21.8	21.6
46	0.00	10.4	13.8	21.5	26.1	11.1	17.8	22.7	*
48	0.19	9.9	15.8	22.6	29.4	14.4	17.2	24.2	29.1
21-SC- 45	100.00	11.3	6.9	17.5	21.0	7.9	21.0	18.0	19.1
22-TI- 46	8.10	13.2	10.3	22.9	20.6	8.0	22.7	21.7	17.2
47	7.40	8.9	10.5	22.1	18.4	9.0	22.1	19.2	18.7
48	73.80	11.6	11.4	22.4	22.6	9.4	20.5	22.1	19.9
49	5.40	8.1	11.4	21.7	20.4	10.2	19.8	19.6	20.8
50	5.30	10.9	12.2	22.1	24.0	10.7	19.1	22.3	21.8
23-V - 50	0.25	9.3	7.9	19.2	19.8	9.9	20.9	16.1	19.3
51	99.75	11.1	8.1	18.7	22.6	10.3	20.4	19.0	20.2
24-CR- 50	4.35	13.0	9.6	23.2	20.3	8.6	23.6	21.1	16.3
52	83.79	12.0	10.5	22.4	21.8	9.4	21.3	21.6	18.6
53	9.50	7.9	11.1	21.0	18.8	9.1	20.0	18.4	20.1
54	2.36	9.7	12.4	19.7	22.1	7.9	17.7	20.9	22.0
25-MN- 55	100.00	10.2	8.1	17.2	21.2	7.9	19.2	17.8	20.4
26-FE- 54	5.80	13.4	8.9	23.0	19.7	8.4	24.1	20.9	15.4
56	91.80	11.2	10.2	20.9	20.3	7.6	20.5	20.4	18.3
57	2.10	7.6	10.6	19.6	18.2	7.3	18.8	17.8	19.6
58	0.30	10.0	11.9	19.4	22.0	7.6	17.7	20.6	21.5
27-CO- 59	100.00	10.5	7.4	16.6	20.3	7.0	19.0	17.4	19.3
28-NI- 58	68.27	12.2	8.2	21.2	17.7	6.4	22.5	19.6	14.2
60	26.10	11.4	9.5	20.1	19.2	6.3	20.4	20.0	16.9
61	1.13	7.8	9.9	19.3	17.0	6.5	19.2	17.4	18.1
62	3.59	10.6	11.1	19.5	21.0	7.0	18.4	20.5	19.9
64	0.91	9.7	12.5	19.1	23.0	8.1	16.5	20.9	22.7
29-CU- 63	69.17	10.9	6.1	16.1	18.9	5.8	19.7	16.7	17.2
65	30.83	9.9	7.4	15.5	20.7	6.8	17.8	17.1	20.0
30-ZN- 64	48.60	11.9	7.7	19.0	16.7	4.0	21.0	18.6	13.8
66	27.90	11.1	8.9	18.3	18.3	4.6	19.0	18.8	16.4
67	4.10	7.1	8.9	17.4	15.7	4.8	18.1	16.0	17.3
68	18.80	10.2	10.0	17.7	19.8	5.3	17.3	19.1	18.5
70	0.60	9.2	10.9	17.2	21.0	6.0	15.7	19.5	*
31-GA- 69	60.10	10.3	6.6	15.4	18.0	4.5	16.8	16.6	
71	39.90	9.3	7.9	15.1	19.7	5.3	17.0	17.1	18.8

NUCLEUS	ABUNDANCE (X)	SEPARATION ENERGIES (MEV)							
		G,N	G,P	G,T	G,HE3	G,A	G,2N	G,NP	G,2P
32-GE-70	20.50	11.5	8.5	18.6	17.6	4.1	19.7	18.8	15.1
72	27.40	10.7	9.7	18.2	19.1	5.0	18.2	19.0	17.6
73	7.80	6.8	10.0	17.3	16.7	5.3	17.5	16.5	18.5
74	36.50	10.2	11.0	18.2	21.0	6.3	17.0	20.2	19.9
76	7.80	9.4	12.0	18.4	23.1	7.5	15.9	20.6	22.1
33-AS-75	100.00	10.2	6.9	15.4	19.4	5.3	18.2	17.1	17.9
34-SE-74	0.90	12.1	8.5	19.3	17.2	4.1	20.7	19.3	14.2
76	9.00	11.2	9.5	19.3	18.9	5.1	19.2	19.8	16.4
77	7.60	7.4	9.6	18.7	16.1	5.7	18.6	16.9	17.3
78	23.50	10.5	10.4	18.9	20.1	6.0	17.9	20.1	18.4
80	49.60	9.9	11.3	18.8	21.5	7.0	16.9	20.4	20.6
82	9.40	9.3	12.2	18.8	23.0	8.2	16.0	20.2	22.7
35-BR-79	50.69	10.7	6.3	15.8	18.7	5.5	19.0	16.8	16.7
81	49.31	10.2	7.5	15.9	20.2	6.5	18.0	17.4	18.9
36-KR-78	0.35	12.0	8.2	19.9	16.9	4.4	21.2	19.4	13.5
80	2.25	11.5	9.1	19.6	18.2	5.1	19.9	19.8	15.4
82	11.60	11.0	9.9	19.5	19.6	6.0	18.8	20.1	17.4
83	11.50	7.5	9.8	19.1	17.2	6.5	18.4	17.4	18.2
84	57.00	10.5	10.7	19.4	21.0	7.1	18.0	20.3	19.4
86	17.30	9.9	11.9	19.2	22.8	8.1	17.0	20.9	21.9
37-RB-85	72.17	10.5	7.0	16.5	19.6	6.6	19.4	17.5	17.7
87	27.83	9.9	8.6	17.1	21.8	8.0	18.6	18.5	20.5
38-SR-84	0.50	12.0	9.0	20.2	17.9	5.2	21.2	19.8	14.6
86	9.90	11.5	9.6	20.5	19.5	6.3	20.0	20.1	16.7
87	7.00	8.4	9.4	20.1	17.4	7.3	19.9	18.1	18.0
88	81.60	11.1	10.6	20.7	21.4	7.9	19.5	20.5	19.2
39-Y-89	100.00	11.5	7.1	18.1	19.9	8.0	20.8	18.2	17.7
40-ZR-90	51.50	12.0	8.4	20.7	18.8	6.7	21.3	19.8	15.4
91	11.20	7.2	8.7	18.6	14.9	5.5	19.2	15.6	16.3
92	17.10	8.6	9.4	15.7	17.2	3.0	15.8	17.3	17.1
94	17.40	8.2	10.3	15.9	18.5	3.8	14.9	17.8	18.9
96	2.80	7.8	11.5	16.1	20.4	4.9	14.3	18.5	21.3
41-NB-93	100.00	8.8	6.0	13.4	15.7	1.9	16.7	14.7	15.4
42-MO-92	14.84	12.7	7.5	20.8	16.9	5.6	22.8	19.5	12.6
94	9.25	9.7	8.5	16.7	15.4	2.1	17.7	17.3	14.5
95	15.92	7.4	8.6	16.2	14.2	2.2	17.0	15.9	15.1
96	16.88	9.2	9.3	16.5	16.6	2.8	16.5	17.8	16.1
97	9.55	6.8	9.2	16.1	15.2	2.8	16.0	16.1	16.5
98	24.13	8.6	9.8	16.3	17.4	3.3	15.5	17.9	17.3
100	9.63	8.3	10.6	15.5	18.2	3.2	14.2	18.0	19.5
44-RU-96	5.50	10.7	7.4	17.4	14.2	1.7	19.6	17.3	12.2
98	1.90	10.3	8.3	17.2	15.4	2.2	18.3	17.7	14.0
99	12.70	7.5	8.4	16.7	13.8	2.3	17.7	15.8	14.7
100	12.60	9.7	9.2	17.0	16.6	2.9	17.1	18.1	15.7
101	17.00	6.8	9.4	16.4	14.8	2.8	16.5	16.0	16.6
102	31.60	9.2	10.1	16.7	18.1	3.4	16.0	18.6	17.5
104	18.70	8.9	10.5	16.7	19.5	4.3	15.1	18.9	19.1
45-RH-103	100.00	8.1	5.3	14.5	13.3	2.2	18.6	12.7	13.7

NUCLEUS	ABUNDANCE (X)	SEPARATION ENERGIES (MEV)							
		G,N	G,P	G,T	G,HE3	G,A	G,2N	G,NP	G,2P
46-PD-102	1.00	10.6	7.8	17.3	15.2	2.1	18.9	17.7	13.3
104	11.00	10.0	8.7	17.0	16.4	2.6	17.6	18.0	14.9
105	22.20	7.1	8.8	16.6	14.2	2.9	17.1	15.8	15.7
106	27.30	9.6	9.3	16.8	17.6	3.2	16.6	18.3	16.4
108	26.70	9.2	10.0	16.6	18.5	3.9	15.8	18.5	17.8
110	11.80	8.8	10.5	16.4	19.6	4.4	15.0	18.7	19.2
47-AG-107	51.83	9.6	5.8	13.9	16.4	2.8	17.5	15.4	15.1
109	48.17	9.2	6.5	13.8	17.3	3.3	16.5	15.7	16.4
48-CD-106	1.30	10.9	7.3	17.3	14.6	1.6	19.3	17.2	12.3
108	0.90	10.3	8.1	17.1	15.8	2.3	18.3	17.7	13.9
110	12.50	9.9	8.9	16.9	16.9	2.9	17.2	18.1	15.4
111	12.80	7.0	9.1	16.6	14.7	3.3	16.9	15.9	16.2
112	24.10	9.4	9.6	16.8	17.9	3.5	16.4	18.5	16.8
113	12.20	6.5	9.8	16.5	15.6	3.9	15.9	16.2	17.6
114	28.70	9.0	10.3	16.7	18.9	4.1	15.6	18.8	18.3
116	7.50	8.7	11.1	16.6	16.6	4.9	14.8	19.1	*
49-IT-113	4.30	9.4	6.1	13.9	16.8	3.0	17.1	15.5	15.7
115	95.70	9.0	6.8	13.9	17.9	3.7	16.3	15.9	17.1
50-SN-112	1.00	10.8	7.5	17.1	15.0	1.8	19.0	17.6	12.9
114	0.70	10.3	8.5	17.1	16.2	2.6	18.1	17.9	14.6
115	0.40	7.5	8.7	17.0	14.4	3.2	17.9	16.0	15.6
116	14.70	9.6	9.3	17.1	17.4	3.4	17.1	18.3	16.1
117	7.70	6.9	9.4	16.8	15.3	3.8	16.5	16.2	16.9
118	24.30	9.3	10.0	17.1	18.5	4.1	16.3	18.8	17.5
119	8.60	6.5	9.9	16.8	16.3	4.4	15.8	16.5	18.2
120	32.40	9.1	10.7	17.1	19.6	4.8	15.6	19.0	19.0
122	4.60	8.8	11.4	17.2	20.7	5.7	15.0	19.8	*
124	5.60	8.5	12.1	17.4	*	6.7	14.4	20.0	20.5
51-SB-121	57.30	9.2	5.8	12.9	17.1	3.1	16.3	14.9	16.5
123	42.70	9.0	6.6	13.1	18.7	3.9	15.8	15.4	18.0
52-TE-120	0.10	10.3	7.2	15.7	13.9	0.3	17.9	16.8	12.3
122	2.50	9.8	8.0	15.8	15.2	1.1	17.0	17.3	13.8
123	0.90	6.9	8.1	15.7	13.0	1.5	16.7	14.9	14.5
124	4.60	9.4	8.6	15.9	16.2	1.8	16.4	17.5	15.2
125	7.00	6.6	8.7	15.7	14.0	2.2	16.0	15.2	15.8
126	18.70	9.1	9.1	15.8	17.2	2.6	15.7	17.8	16.4
128	31.70	8.8	9.6	15.7	18.0	3.2	15.1	18.0	17.6
130	34.50	8.4	10.0	15.6	18.8	3.8	14.5	18.0	18.5
53-I-127	100.00	9.1	6.2	13.4	16.3	2.2	16.2	15.3	15.3
54-XE-124	0.10	10.2	6.8	16.2	13.8	0.5	18.5	16.6	11.7
126	0.10	10.1	7.6	16.2	14.9	1.3	17.9	17.2	13.2
128	1.90	9.6	8.2	15.9	15.8	1.8	16.8	17.3	14.4
129	26.40	6.9	8.2	15.7	13.6	2.1	16.5	15.1	15.0
130	4.10	9.3	8.7	15.8	16.5	2.2	16.2	17.5	15.5
131	21.20	6.6	8.8	15.6	14.4	2.6	15.9	16.3	16.0
132	26.90	8.9	9.1	15.7	17.2	2.7	15.5	17.8	16.5
134	10.40	8.5	9.6	15.6	17.9	3.2	15.0	17.8	17.5
136	8.90	8.0	9.9	15.5	18.5	3.7	14.4	17.8	18.4
55-CS-133	100.00	9.0	6.1	13.2	16.1	2.0	16.2	15.0	15.2

NUCLEUS	ABUNDANCE (%)	SEPARATION ENERGIES (MEV)							
		G,N	G,P	G,T	G,HE3	G,A	G,2N	G,NP	G,2P
56-BA-130	0.10	10.2	7.0	16.0	13.9	0.6	18.2	16.7	12.0
132	0.10	9.8	7.7	15.8	14.7	1.0	17.3	17.0	13.1
134	2.40	9.5	8.2	15.9	15.5	1.5	16.7	17.1	14.3
135	6.60	7.0	8.3	15.6	13.5	1.9	16.4	15.1	14.8
136	7.90	9.1	8.5	15.8	16.2	2.1	16.1	17.4	15.4
137	11.20	6.9	8.7	15.8	14.5	2.5	16.0	15.4	15.8
138	71.70	8.6	9.0	15.6	16.7	2.6	15.5	17.3	16.4
57-LA-138	0.09	7.3	6.0	13.6	13.8	2.0	16.6	12.9	14.7
139	99.91	8.8	6.2	13.2	15.8	2.0	16.1	14.8	15.2
58-CE-136	0.20	10.0	6.9	15.7	13.8	0.4	17.9	16.6	12.1
138	0.30	9.6	7.6	15.7	14.6	1.0	17.2	16.9	13.2
140	88.40	9.2	8.1	15.8	15.2	1.6	16.7	16.9	14.3
142	11.10	7.2	8.8	12.3	14.5	-1.4	12.6	15.6	15.8
59-PR-141	100.00	9.4	5.2	13.4	14.4	1.2	17.3	14.4	13.4
60-ND-142	27.16	9.8	7.2	16.1	13.9	0.8	17.9	16.6	12.5
143	12.18	6.1	7.5	14.3	10.9	-0.5	15.9	13.4	13.1
144	23.80	7.8	8.0	12.7	13.2	-1.9	13.9	15.3	13.8
145	8.29	5.8	8.0	12.6	11.8	-1.6	13.6	13.7	14.4
146	17.19	7.6	8.6	12.8	14.2	-1.2	13.3	15.5	15.1
148	5.75	7.3	9.2	12.7	15.2	-0.6	12.6	15.9	16.2
150	5.63	7.4	9.6	13.2	16.4	0.4	12.4	16.5	17.6
62-SM-144	3.10	10.6	6.3	16.4	12.7	-0.1	19.0	16.2	10.6
147	15.10	6.4	7.1	12.9	10.5	-2.3	14.8	13.4	12.4
148	11.30	8.1	7.6	13.0	12.8	-2.0	14.5	15.3	13.0
149	13.90	5.9	7.6	12.6	11.2	-1.9	14.0	13.5	13.6
150	7.40	8.0	8.3	13.0	13.8	-1.4	13.9	15.5	14.2
152	26.60	8.3	8.7	13.7	15.3	-0.2	13.9	16.6	15.7
154	22.60	8.0	9.0	14.0	16.5	1.2	13.8	16.5	16.9
63-EU-151	47.90	8.0	4.9	10.3	12.7	-2.0	14.4	12.9	13.2
153	52.10	8.6	5.9	11.3	14.8	-0.3	14.9	14.2	14.6
64-GD-152	0.20	8.6	7.4	13.3	12.5	-2.2	15.1	15.3	12.2
154	2.10	8.7	7.6	14.0	14.1	-0.9	15.1	16.2	13.5
155	14.80	6.4	7.6	14.2	12.2	-0.1	15.1	14.1	14.1
156	20.60	8.5	8.0	14.1	14.9	0.2	15.0	16.2	14.7
157	15.70	6.4	8.0	14.1	13.3	0.7	14.9	14.4	15.2
158	24.80	7.9	8.5	13.8	15.4	0.7	14.3	16.0	15.9
160	21.80	7.5	9.3	13.4	16.0	1.0	13.4	16.0	*
65-TB-159	100.00	8.1	6.1	11.9	14.4	0.1	14.9	14.0	14.6
66-DY-156	0.06	9.4	6.6	14.1	12.3	-1.8	16.3	15.6	11.4
158	0.10	9.1	6.9	14.1	13.3	-0.9	16.0	15.5	12.4
160	2.34	8.6	7.4	13.8	13.8	-0.5	15.4	15.6	13.5
161	19.00	6.5	7.5	13.5	12.3	-0.4	15.0	13.9	14.1
162	25.50	8.2	8.0	13.6	14.5	-0.1	14.6	15.7	14.8
163	24.90	6.3	8.0	13.5	13.3	0.2	14.5	14.3	15.4
164	28.10	7.7	8.6	13.4	15.4	0.4	13.9	15.6	16.2
67-HO-165	100.00	8.0	6.2	11.7	14.1	-0.1	14.7	13.9	14.8
68-ER-162	0.10	9.2	6.4	13.8	12.1	-1.7	16.5	14.9	11.2
164	1.60	8.9	6.9	13.7	12.8	-1.3	15.8	15.3	12.3
166	33.40	8.5	7.3	13.5	13.5	-0.8	15.1	15.3	13.5
167	22.90	6.4	7.5	13.3	12.3	-0.7	14.9	13.8	14.3
168	27.10	7.8	8.0	13.0	14.3	-0.5	14.2	15.3	15.0
170	14.90	7.3	8.6	12.7	*	0.0	13.3	15.3	*

NUCLEUS	ABUNDANCE (%)	SEPARATION ENERGIES (MEV)							
		G,N	G,P	G,T	G,HE3	O,A	O,2N	G,NP	G,2P
69-TM-169	100.00	8.1	5.6	11.3	13.1	-1.2	14.9	13.3	13.5
70-YB-168	0.10	9.1	6.3	13.6	12.0	-1.9	16.1	15.0	11.2
170	3.10	8.5	6.8	13.2	12.4	-1.7	16.3	14.8	12.4
171	14.40	6.6	6.8	13.0	11.3	-1.6	15.1	13.4	13.0
172	21.90	8.0	7.3	12.9	13.3	-1.3	14.6	14.8	13.7
173	16.20	6.4	7.5	12.7	12.4	-0.9	14.4	13.7	14.4
174	31.70	7.5	8.0	12.7	14.2	-0.7	13.8	14.9	15.0
176	12.60	6.9	8.5	12.7	15.0	-0.6	12.7	15.0	*
71-LU-175	97.39	7.7	5.5	10.9	12.7	-1.6	14.4	13.0	13.5
176	2.61	6.3	6.0	10.8	12.1	-1.6	14.0	11.8	14.1
72-HF-174	0.20	8.6	6.2	12.8	11.4	-2.6	15.6	14.4	11.1
176	5.20	8.1	6.7	12.7	12.0	-2.3	14.9	14.4	12.2
177	18.60	6.4	6.8	12.3	10.9	-2.2	14.5	13.1	12.8
178	27.10	7.6	7.3	12.2	12.7	-2.1	14.0	14.4	13.5
179	13.70	6.1	7.6	12.0	11.9	-1.8	13.7	13.4	14.1
180	35.20	7.4	8.0	12.3	13.7	-1.3	13.5	15.0	14.9
73-TA-180	0.012	6.6	5.7	10.9	11.4	-2.1	14.5	11.8	13.3
181	99.988	7.6	5.9	10.9	13.2	-1.5	14.2	13.3	13.9
74-W-180	0.10	8.5	6.6	12.9	11.7	-2.5	15.4	14.5	11.8
182	26.30	8.1	7.1	12.8	12.7	-1.8	14.7	14.7	13.0
183	14.30	6.2	7.2	12.4	11.5	-1.7	14.2	13.3	13.5
184	30.70	7.4	7.7	12.2	13.2	-1.7	13.6	14.6	14.3
186	28.60	7.2	8.4	12.2	14.2	-1.0	13.0	15.2	15.6
75-RE-185	37.40	7.8	5.4	10.5	12.3	-2.2	14.1	12.8	13.1
187	62.60	7.4	6.0	10.5	13.5	-1.7	13.6	13.2	14.4
76-OS-184	0.02	8.9	5.7	12.7	10.9	-3.1	16.1	14.2	10.5
186	1.58	8.3	6.5	12.1	11.6	-2.8	14.9	14.3	11.9
187	1.60	6.3	6.6	12.1	10.4	-2.7	14.6	12.8	12.4
188	13.30	8.0	7.2	12.3	12.7	-2.1	14.3	14.6	13.2
189	16.10	5.9	7.3	12.0	11.4	-2.0	13.9	13.1	13.7
190	26.40	7.8	8.0	12.4	13.7	-1.4	13.7	15.1	14.6
192	41.00	7.6	8.8	12.9	15.3	-0.4	13.3	15.7	16.2
77-IR-191	37.30	8.1	5.3	10.5	12.6	-2.1	14.4	13.1	13.3
193	62.70	7.8	5.9	10.8	13.9	-1.0	14.0	13.5	14.6
78-PT-190	0.01	8.8	6.1	12.6	11.0	-3.2	15.7	14.4	10.8
192	0.79	8.7	6.9	12.8	12.2	-2.4	15.1	15.0	12.2
194	32.90	8.4	7.5	13.0	13.3	-1.5	14.6	15.3	13.5
195	33.80	6.1	7.6	12.9	11.9	-1.2	14.5	13.6	14.0
196	25.30	7.9	8.1	13.1	14.2	-0.8	14.0	15.5	14.8
198	7.20	7.6	8.8	13.0	15.0	-0.1	13.4	15.8	*
79-AU-197	100.00	8.1	5.8	11.4	13.6	-0.9	14.8	13.7	13.9
80-HG-196	0.20	8.8	6.6	13.4	12.3	-2.0	15.8	15.0	11.7
198	10.10	8.3	7.1	13.4	13.1	-1.3	15.3	15.2	12.9
199	17.00	6.6	7.2	13.3	11.8	-0.8	14.9	13.8	13.7
200	23.10	8.0	7.7	13.3	14.0	-0.7	14.7	15.3	14.2
201	13.20	6.2	7.6	13.0	12.7	-0.3	14.3	13.9	14.8
202	29.60	7.8	8.5	13.2	14.9	-0.1	14.0	15.4	15.3
204	6.80	7.5	9.0	13.2	15.9	0.5	13.5	16.2	*
81-TL-203	29.50	7.7	5.7	11.2	13.4	-0.9	14.7	13.5	14.2
205	70.50	7.5	6.4	11.4	14.9	0.1	14.2	13.9	15.6

NUCLEUS	ABUNDANCE (%)	SEPARATION ENERGIES (MEV)							
		G,N	G,P	G,T	G,HE3	G,A	G,2N	G,NP	G,2P
82-PB-204	1.40	8.4	6.6	12.8	12.4	-2.0	15.2	14.4	12.3
206	24.10	8.1	7.3	13.0	13.4	-1.1	14.8	14.8	13.7
207	22.10	6.7	7.5	13.1	12.7	-0.4	14.8	14.0	14.7
208	52.40	7.4	8.0	12.9	14.4	-0.5	14.1	14.9	15.4
83-BI-209	100.00	7.5	3.8	9.4	10.9	-3.1	14.4	11.2	0.8
88-RA-226	-----	6.4	7.4	9.7	*	-4.9	11.3	13.4	*
89-AC-227	-----	6.7	4.5	9.4	7.9	-5.0	11.9	11.5	12.5
90-TH-232	100.00	6.4	7.8	10.2	12.2	-4.1	11.6	13.7	13.7
92-U-234	0.005	6.8	6.6	10.2	10.6	-4.9	12.6	13.1	11.9
235	0.720	5.3	6.7	10.0	9.5	-4.7	12.1	11.9	12.4
238	99.275	6.1	7.6	10.0	11.8	-4.3	11.3	13.6	*
93-NP-237	-----	6.6	4.9	8.2	10.4	-5.0	12.3	11.4	12.0
94-PU-238	-----	7.0	6.0	9.8	9.7	-5.6	12.9	12.6	10.9
239	-----	5.7	6.2	9.8	8.8	-5.2	12.7	11.6	11.4
240	-----	6.5	6.5	9.7	10.2	-5.3	12.2	12.7	11.8
242	-----	6.3	6.9	9.5	10.8	-5.0	11.5	12.9	12.6
95-AM-241	-----	6.7	4.5	8.2	9.5	-5.6	12.6	11.0	11.0