INDC(CCP)-317/G

ЦЕНТР ДАННЫХ ФОТОЯДЕРНЫХ ЭКСПЕРИМЕНТОВ

ФОТОЯДЕРНЫЕ ДАННЫЕ

PHOTONUCLEAR DATA

№12 1988

ИЗДАТЕЛЬСТВО МОСКОВСКОГО УНИВЕРСИТЕТА

1989

МОСКОВСКИЙ ОРДЕНА ЛЕНИНА,ОРДЕНА ОКТЯБРЬСКОЙ РЕВОЛЮЦИИ
И ОРДЕНА ТРУДОВОГО КРАСНОГО ЗНАМЕНИ
ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ имени М.В.ЛОМОНОСОВА

НАУЧНО-ИССЛЕДОВАТЕЛЬСКИЙ ИНСТИТУТ ЯДЕРНОЙ ФИЗИКИ
ЦЕНТР ДАННЫХ ФОТОЯДЕРНЫХ ЭКСПЕРИМЕНТОВ

И.Н.Бобошин, В.В.Варламов, В.И.Мокеев,
М.Е.Степанов, В.В.Сургутанов

ФОТОЯДЕРНЫЕ ДАННЫЕ - 1988

Информационный бюллетень
N 12

Издательство Московского университета
1989

УДК 539.173

Бобошин И.Н. и др.

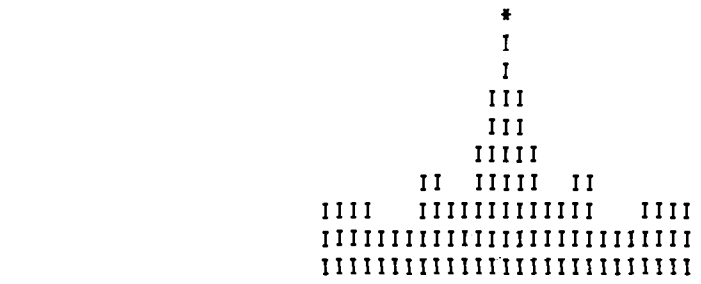
Фотоядерные данные - 1988
И.Н.Бобошин , В.В.Варламов , В.И.Мокеев , М.Е.Степанов,
В.В.Сургутанов - М. : Изд-во Моск. ун-та, 1989. -75 .

Настоящий информационный бюллетень включает в себя сведения об экспериментальных работах, посвященных исследованию фотоядерных процессов в атомных ядрах и опубликованных в 1988 году в периодической научной литературе.

Рецензенты:
В.И.Шведунов, кандидат физ.-мат. наук,
А.В.Шумаков, кандидат физ.-мат. наук.

Печатается по постановлению редакционно-издательского совета Московского университета

077(02)-89-заказное
ISBN 5-211-01913-X



* * * * * * ЦДФЭ * CDFE * * * * * *

119899 Москва, Ленинские Горы, НИИЯФ МГУ, Центр данных фотоядерных экспериментов
Centre for Photonuclear Experiments Data, INP MSU, Leninskie Gory, 119899 Moscow, USSR

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

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

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

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.

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.

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

The issue continue 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.

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.

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.

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 * CDFE * * * * * *

ФОТОЯДЕРНЫЕ ДАННЫЕ - 1988

И.Н.Бобошин, В.В.Варламов, В.И.Мокеев,
М.Е.Степанов, В.В.Сургутанов

Научно-исследовательский институт
ядерной физики МГУ

Центр данных фотоядерных экспериментов (ЦДФЭ)

PHOTONUCLEAR DATA - 1988

I.N.Boboshin, V.V.Varlamov, V.I.Mokeev,
M.E.Stepanov, V.V.Surgutanov

Institute of Nuclear Physics of MSU

Centre for Photonuclear Experiments Data (CDFE)

I. ПРЕДИСЛОВИЕ

Настоящий информационный бюллетень является продолжением бюллетеней N 1-11, опубликованных ранее.

Бюллетень N 12 включает в себя таблицу фотоядерных данных, в которой систематизированы результаты экспериментальных исследований, опубликованных в 1988 году, библиографию работ и авторский указатель.

При подготовке информационного бюллетеня N 12 были использованы указанные советские и иностранные журналы.

PREFACE

The present information bulletin is the continuation of bulletins No. 1-11 which have been published previously.

The bulletin No. 12 includes the table of photonuclear data, in which the results of the experimental studies published in 1988 are systematized, bibliography of papers and author index.

In the preparation of information bulletin No. 12 the following soviet and foreign journals have been used.

1. Ядерная физика
2. Изв. АН СССР. Сер. физическая
3. Изв. АН Каз. ССР. Сер. физико-математическая
4. Изв. АН Лат. ССР. Сер. физических и технических наук
5. Письма в ЖЭТФ
6. Атомная энергия
7. Вестн. Моск. ун-та. Сер.: Физика. Астрономия
8. Известия высших учебных заведений. Сер.: Физика
9. Украинский физический журнал
10. Сб. "Проблемы ядерной физики и космических лучей". Харьков
11. Сб. "Вопросы атомной науки и техники. Сер.: Общая и ядерная физика". Москва
12. Сб. "Вопросы атомной науки и техники. Сер.: Ядерные константы". Москва
13. Nuclear Physics, A
14. Physical Letters, B
15. Physical Review, C
16. Physical Review Letters
17. Zeitschrift fur Physik, A
18. Canadian Journal of Physics
19. Australian Journal of Physics
20. Journal of Physical Society of Japan
21. Journal of Physics G: Nuclear Physics
22. Nuclear Instruments and Methods
23. Il Nuovo Cimento
24. Nuclear Science and Engineering

Дополнительно настоящий бюллетень содержит библиографию работ по теме "Электромагнитные взаимодействия ядер и смежные области" - результат соответствующего телекоммуникационного поиска в зарубежных базах данных, проведенного в течение 1988 года с использованием возможностей ВНИИ прикладных автоматизированных систем.

Additionally the present bulletin includes the bibliography of the works on the theme "Electromagnetic Interaction of Nuclei and Related Topics" - the result of the telecommunicational search in foreign data bases carried out during the 1988 using the possibilities of the Institute for Automatized Systems.

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;

"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

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 inucluded 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 graund state that is discussed in most cases; 2 line - a symbols of characterictics 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 - is the excitation energy or the energy region (in MEV); for the reactions induced by electron and for radiative capture sometimes the energies 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 ranges of the

градусах), для которых проводились измерения;	angles (in degrees) at which measurements were made;
"QUANTITY"- коды основных результатов выполненых 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)	"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"- пятисимвольный идентификатор соответствующей работы в библиографии, образованный по принципу ГГNNN и определяющий год (ГГ) опубликования работы и ее порядковый номер (NNN) в соответствующем информационном бюллетене.	"NUMBER"- is the file-digit number of the work in the bibliography, formed on the principle YYNNN and determining the year (YY) of publication of a work and its index number (NNN) in the corresponding information bulletin.
"E"- дополнительный условный символ, означающий наличие в фондах ЦДФЭ цифровых данных в формате EXFOR.	"E"- is an additional symbol signifying the presence in the CDFE fund of digital data in the EXFOR format.

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
A-MOM	угловой момент	angular momentum
A-POW	анализирующая способность	analizing power
BRANCH	коэффициент ветвления	branching ratio
B(EL)	приведенная вероятность перехода	reduced transition probability
CDENS	зарядовая плотность	charge density
CDIS	зарядовое распределение	charge distribution
COINS	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)
EN	энергия возбуждения исследуемого ядра	excitation energy of nucleus investigated

EN-A EN-D EN-E EN-N EN-P EN-T	энергия налетающей частицы (A,D,E,N,P,T)	energy of incident particle (A,D,E,N,P,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
G	гамма-квант	gamma-quantum
G-WIDHT	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)	lifetaim (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	multiplisity
MON	монохроматичность (пучка фотонов)	monochromativity (of photon beam)
MTRN	переданный импульс	moment transfer
MULT	мультипольность	multipolarity
N	нейтрон	neutron
N-AV	среднее число (нейтронов)	average number (of neutrons)
NOX	отсутствие данных о сечении	no cross section data
OCPR	вероятность заселения	occupation probability
P	протон	proton
PNY	выход мгновенных нейтронов	prompt neutron yield
POL	поляризация	polarisation
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 электро-расщепления) 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	quadruporle moment
R:	обсуждаемые данные	data rewiewed
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 SIG-2 SIG-3	сечения образования возбужденных состояний	excitation states cross sections
SIG-M	сечение образования метастабильного (изомерного) состояния	metastable (isomeric) state cross section
SIG-V	сечения 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-excication photons
SPC-IMP	импульсное распределение	impulse distribution
SPCTF	спектроскопический фактор	spectroscopic factor
SRE	исчерпывание правила сумм	sum rule exhausten
STFUN	силовая функция	strength function
STR	сила резонанса	resonance strength
S(0)	фактор нулевой энергии	zero-energy factor
T T	тритон изоспин	triton 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-deutron ratio (of yields or cross sections for photo- and electro-disintegration)
TRDEN	плотность перехода	transition density
TRR	скорость термоядерной реакции	thermonuclear reaction rate
X	неидентифицированный продукт реакции	nonidentifyed 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=2				
H- 2	(G,N)	FN: 1- H- 1	EN = 50.	45.	M:SIG,ASYM,COINC	88002
	G,POL		..... 100.	... 90. ...		.....
	(G,N)	FN: 1- H- 1	EN = 6.	30.	M:DST,SIG	88004
	G,MON		..... 9.	... 155. ...		.....
	(G,N+P)		EN = 40.		R:SIG,CORR(E)	88005
			..... 120.	... ...		.....
	(G,P)	FN: 0-NN- 1	EN = 50.	45.	M:SIG,ASYM,COINC	88001
	G,POL		..... 100.	... 90. ...		.....
	(E,E')	FN: 1- H- 2	EN-E = 292.8	60.	M:SPC,SIG,RSP	88003
			..... 444.2	... 134.5 ...		.....
	(E,E')	FN: 1- H- 2	EN-E = 0.843	180.	M:SIG,FMF	88005
			..... 1.281...	...	D:MULT	.....
	(E,E')	FN: 1- H- 2	EN-E = 174.	60.	M:SPC,SIG,RSP	88007
			..... 597.	... 134.5 ...		.....
	(N,G)	TN: 1- H- 1	EN-N = 76.		M:SPC,SIG	88006
			.....	... ...		.....
		Z=2 HELIUM A=3,4				
HE- 3	(G,P)	FN: 1- H- 2	EN = ----	90.	M:POL	88008
			..... 600.	... ...		.....
	(G,P)	FN: 1- H- 2	EN = 60.	90.	M:SPC,SIG,ASYM	88009
	G,MON,POL		..... 350.	... ...		.....
	(G,P)	FN: 1- H- 2	EN = 60.	60.	M:SIG,ASYM	88011
	G,MON,POL		..... 350.	... 135. ...		.....
	(G,P)	FN: 1- H- 2	EN-MEV= 60.	90.	M:SPC,SIG,ASYM	88012
	G,MON,POL		..... 350.	... ...		.....
	(E,E')	FN: 2-HE- 3	EN-E = 174.	60.	M:SPC,SIG,RSP	88007
			..... 597.	... 134.5 ...		.....
	(E,E'+P)	FN: 1- H- 2	EN-E = 560.	45.	M:MES,SPC-IMP,SIG	88013
			.....	... 142.5 ...		.....
	(P,G)	TN: 1- H- 2	EN-P = 800.		M:A-POW,ASYM	88014
	P,POL		.....	... ...		.....
	(P,G)	TN: 1- H- 2	EN = ----	30.	M:SPC,DST,SIG,A-POW	88015
	P,POL		..... 7.5	... 150. ...		.....
	(D,G)	TN: 1- H- 1	EN-D = 95.	50.	M:DST,SIG,A-POW	88010
	D,POL		.....	... 130. ...		.....
	(D,G)	TN: 1- H- 1	EN = ----	30.	M:SPC,DST,SIG,A-POW	88015
	D,POL		..... 7.5	... 150. ...		.....
HE- 4	(G,G)	FN: 2-HE- 4	EN = ----	22.	M:SPC,RSP,SIG	88020
			..... 320.	... 60. ...		.....
	(G,N)	FN: 2-HE- 3	EN = 40.	45.	M:SIG,ASYM	88021
	G,MON,POL		.....	... 135. ...		.....
	(G,N+P)	FN: 1- H- 2	EN = 40.		R:SIG,CORR(E)	88005
			..... 120.	... ...		.....
	(G,P)	FN: 1- H- 3	EN = ----	90.	M:POL	88008
			..... 600.	... ...		.....
	(G,P)	FN: 1- H- 3	EN = 60.	90.	M:SPC,SIG,ASYM	88009
	G,MON,POL		..... 350.	... ...		.....
	(G,P)	FN: 1- H- 3	EN = 120.	45.	M:DST,SIG,ASYM	88019
	G,POL		..... 250.	... 135. ...		.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
HE- 4	(G,P)	FN: 1- H- 3	EN = 40.	45.	M:SIG,ASYM	88021
	G,MON,POL		.....	... 135. ...		.....
	(G,P)	FN: 1- H- 3	EN = 28.6	4PI	M:SIG,ASYM	88022
	G,MON		..... 58.1	...	... D:PTON	.....
	(E,E')	FN: 2-HE- 4	EN-E = 174.	60.	M:SPC,SIG,RSP	88007
			..... 597.	... 134.5 ...		.....
	(E,E')	FN: 2-HE- 4	EN-E = 0.808	17.	M:SPC,DST,SIG	88018
			..... 1.18	... 40. ...		.....
	(E,E')	FN: 2-HE- 4	EN = ----	180.	M:SPC,SIG	88003
			..... 54.	... ...		.....
	(E,E'+P)	FN: 1- H- 3	EN-E = 426.	47.	M:SPC-IMP,SIG,COINC	88016
			.....	... 68. ...		.....
	(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
			..... 50.	... ...		.....
	Z=3	LITHIUM	A=6			
LI- 6	(G,P)	FN: 2-HE- 5	EN = 34.5	90.	M:SPC,SIG,SIG-0,SIG-1	88024
	G,MON		..... 98.8	... ...		.....
	(G,P)	FN: 2-HE- 5	EN = 60.	90.	M:SIG,ASYM	88026
	G,MON,POL		..... 300.	... ...		.....
	(G,T)	FN: 2-HE- 3	EN = ----	90.	M:SIG	88027
			..... 90.	... ...		.....
	(E,E')	FN: 3-LI- 6	EN-E = 90.	42.	M:SPC,SIG	88025
			..... 260.	... 140. ...		.....
	(E,T)	FN: 2-HE- 3	EN = ----	90.	M:SIG	88027
			..... 90.	... ...		.....
	Z=4	BERYLLIUM	A=7			
BE- 7	(A,G)	TN: 2-HE- 3	EN-A = 0.195	90.	M:SPC,RSP,SIG	88028
			..... 0.686...		... D:S(0)	.....
	Z=5	BORON	A=10,11			
B- 10	(G,N+P)	FN: 4-BE- 8	EN = 66.	45.	M:MES,SIG,DST	88029
	G,MON		..... 103.	... 90. ...		.....
	(G,P)	FN: 4-BE- 9	EN = 66.	45.	M:MES,SIG,DST	88029
	G,MON		..... 103.	... 90. ...		.....
	(E,E)	FN: 5- B- 10	EN-E = 203.	150.	M:FMF	88030
			..... 416.	... 180. ...		.....
	(E,E')	FN: 5- B- 10	EN-E = 203.	150.	M:FMF	88030
			..... 416.	... 180. ...		.....
B- 11	(E,E)	FN: 5- B- 11	EN-E = 203.	150.	M:FMF	88030
			..... 416.	... 180. ...		.....
	(E,E')	FN: 5- B- 11	EN-E = 203.	150.	M:FMF	88030
			..... 416.	... 180. ...		.....
	Z=6	CARBON	A=12			
C- 0	(E,E')	FN: 6- C- 0	EN-E = 0.653	11.9	M:SIG	88031
			..... 1.65	... 53. ...	D:MULT	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
C- 0	(P,G)		EN-P = 72.	90.	M:SPC,DST	88032
			.....	... 150. ...		.....
C- 12	(G,N)	FN: 6- C- 11	EN = 30.	65.	M:SPC,DST,SIG,SIG-0	88035
	G,MON		..... 100.	... ...		.....
	(G,N+P)	FN: 5- B- 10	EN = 40.		R:SIG,CORR(E)	88005
			..... 120.	... ...		.....
	(G,N+P)	FN: 5- B- 10	EN = 83.	55.	M:MES,SIG,SPC-IMP	88037
	G,MON		..... 133.	... 127. ...		.....
	(G,N+P+A)	FN: 3-LI- 6	EN = 40.		R:SIG,CORR(E)	88005
			..... 120.	... ...		.....
	(G,P)	FN: 5- B- 11	EN = 27.		M:SIG,CORR(E),ABI	88038
			..... 140.	... ...		.....
	(G,P)	FN: 5- B- 11	EN = 41.	30.	M:A-POW	88039
	G,MON,POL		..... 93.	... 90. ...		.....
	(G,P)	FN: 5- B- 11	EN = 60.	65.	M:SPC,DST,SIG,SIG-0	88040
	G,MON		.....	... 115. ...		.....
	(G,P+T)	FN: 4-BE- 8	EN = 27.		M:SIG,CORR(E),ABI	88038
			..... 140.	... ...		.....
	(G,T)	FN: 5- B- 9	EN = 27.		M:SIG,CORR(E)	88038
			..... 140.	... ...		.....
	(G,A)	FN: 4-BE- 8	EN = 27.		M:SIG,CORR(E)	88038
			..... 140.	... ...		.....
	(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,RDI,E	.....
	(P,G)	TN: 5- B- 11	EN-P = 20.	30.	M:SPC,SIG,SIG-0,DST	88034
			..... 100.	... 150. ...		.....
		Z=7	NITROGEN	A=13,15,17		
N- 13	(P,G)	TN: 6- C- 12	EN-P = 20.	30.	M:SPC,SIG,SIG-0,DST	88034
			..... 100.	... 150. ...		.....
N- 15	(G,2N)	FN: 7- N- 13	EN = 21.		M:SIG	88042
	G,MON		..... 28.	... ...	D:T,G-WIDTH	.....
	(E,E)	FN: 7- N- 15	EN-E = 70.	40.	M:FMF	88041
			..... 430.	... 140. ...	D:CDENS	.....
N- 17	(P,G)	TN: 6- C- 16	EN = 17.	35.	M:SPC,DST,SIG,SIG-0	88049
			..... 41.	... 135. ...		.....
		Z=8	OXYGEN	A=16,17		
O- 16	(G,N+P)	FN: 7- N- 14	EN = 40.		R:SIG,CORR(E)	88005
			..... 120.	... ...		.....
	(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. ...		.....
	(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	.....
	(A,G)	TN: 6- C- 12	EN-A = 1.29		M:SPC,COINC,SIG	88044
			..... 3.	... ...	D:MULT	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
O- 17	(E,E)	FN: 8- O- 17	EN-E = 249.3	41.7	M:FMF,SIG	88050
			..... 685.1	... 160. ...	D:MULT	.....
	(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. ...		.....
		Z=9	FLUORINE	A=17		
F- 17	(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. ...		.....
F- 19	(A,G)	TN: 7- N- 15	EN-A = 5.41	90.	M:ABY	88051
			..... 8.12 ...		... D:STR,G-WIDTH	.....
		Z=10	NEON	A=20,21,23		
NE- 20	(P,G)	TN: 9- F- 19	EN = 16.1	40.	M:SPC,DST,SIG,SIG-0	88054
	P,POL		..... 23.	... 140. ...	D:MULT	.....
	(A,G)	TN: 8- O- 16	EN = 1.7			88052
			..... 2.3	...	... D:S(0)	.....
NE- 21	(N,G)	TN:10-NE- 20	EN-N = 0.0025		M:ABY,SIG	88055
			..... 0.2	...	... D:E,J-PI,G-WIDTH	.....
NE- 23	(N,G)	TN:10-NE- 22	EN-N = 0.0025		M:ABY,SIG	88055
			..... 0.2	...	... D:E,J-PI,G-WIDTH	.....
		Z=12	MAGNESIUM	A=24,26		
MG- 24	(G,N)	FN:12-MG- 23	EN = 16.		M:SIG,SIG-0,SIG-V,ABI	88056
			..... 30.	... ...		.....
	(P,G)	TN:11-NA- 23	EN-P = 0.31		M:ABY	88052
			..... 0.35	... ...		.....
MG- 26	(E,E)	FN:12-MG- 26	EN-E = 85.	33.	M:FMF	88057
			..... 360.	... 154. ...	D:CDENS	.....
		Z=13	ALUMINIUM	A=27		
AL- 27	(P,G)	TN:12-MG- 26	EN-P = 0.31	55.	M:SPC,DST,BRANCH,LFT	88058
			..... 1.84	... 90. ...	D:E,J-PI	.....
	(P,G)	TN:12-MG- 26	EN-P = 0.		R:E,J-PI,T,STR	88113
			..... 8.1	... ...		.....
		Z=14	SILICON	A=28		
SI- 28	(N,G)	TN:14-SI- 27	EN = ----	125.	M:SPC	88048
			..... 10.	...	... D:STR,E,J-PI,G-WIDTH	.....
	(P,G)	TN:13-AL- 27	EN-P = 20.	30.	M:SPC,SIG,SIG-0,DST	88034
			..... 100.	... 150. ...		.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
SI- 28	(P,G)	TN:13-AL- 27	EN-P = 20.8	30.	M:SPC,SIG,SIG-0,A-POW	88045
			.....	... 120. ...		.....
	(P,G)	TN:13-AL- 27	EN-P = 0.2	90.	M:SPC,ABY	88059
			..... 0.36	... 135. ...	D:E,J-PI,STR,TRR	.....
	(P,G)	TN:13-AL- 27	EN-P = 0.5	0.	M:SPC,DST,SIG,SIG-0	88060
			..... 1.8	... 129. ...		.....
		Z=15	PHOSPHORUS	A=29,30,31		
P- 29	(P,G)	TN:14-SI- 28	EN-P = 20.8	30.	M:SPC,SIG,SIG-0,A-POW	88045
			.....	... 120. ...		.....
P- 30	(P,G)	TN:14-SI- 29	EN = 6.	0.	M:SPC,DST	88114
			..... 9.	... 90. ...	D:STR,MULT	.....
P- 31	(G,N+G')	FN:15- P- 30	EN = ----		R:ABY,E,J-PI,T	88061
			..... 30.	... ...		.....
	(G,P+G')	FN:14-SI- 30	EN = ----		R:ABY,E,J-PI,T	88061
			..... 30.	... ...		.....
	(G,X+G')		EN = ----		R:ABY,E,J-PI,T	88061
			..... 30.	... ...		.....
	(P,G)	TN:14-SI- 30	EN-P = 1.94	0.	M:ABY,DST,MIX,BRANCH	88062
			..... 2.11	... 90. ...	D:MULT,B(EL),E,J-PI	.....
		Z=16	SULPHUR	A=32		
S- 32	(G,N)	FN:16- S- 31	EN = 18.	48.	M:DST,SIG,SIG-0	88063
			..... 29.	... 139. ...		.....
	(N,G)	TN:16- S- 31	EN = ----	125.	M:SPC	88048
			..... 10.	... ...	D:STR,E,J-PI,G-WIDTH	.....
		Z=17	CHLORINE	A=35		
CL- 35	(P,G)	TN:16- S- 34	EN-P = 0.4	0.	M:ABY,DST,MIX,BRANCH	88062
			..... 0.7	... 90. ...	D:MULT,B(EL),E,J-PI	.....
		Z=18	ARGON	A=40		
AR- 40	(G,G')	FN:18-AR- 40	EN = 8.5	90.	M:SPC,INT,DST	88065
			..... 11.8	... 127. ...	D:J-PI,G-WIDTH	.....
	(G,G')	FN:18-AR- 40	EN = 8.	90.	M:SPC,DST	88115
			..... 11.	... 127. ...	D:E,J-PI,G-WIDTH,MULT	.....
	(A,G)	TN:16- S- 36	EN-A = 2.35	0.	M:SPC,DST,LFT	88064
			..... 3.5	... 90. ...	D:E,J-PI,MULT	.....
		Z=19	POTASSIUM	A=37,39		
K- 37	(P,G)	TN:18-AR- 36	EN-P = 0.9	0.	M:SPC,DST,ABY,BRANCH	88066
			..... 3.	... 90. ...	D:E,J-PI,G-WIDTH	.....
K- 39	(G,G')	FN:19- K- 39	EN = 6.6	127.	M:SPC	88067
			..... 9.4	... ...	D:STR,J-PI,G-WIDTH	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
	Z=20	CALCIUM	A=40,41			
CA- 0	(G,N)		EN = 20.	55.	M:SPC,SIG,DST,ASYM	88068
	G,MON		..... 39.	... 125. ...		.....
CA- 40	(E,E'+P)	FN:19- K- 39	EN-E = 129.	39.9	M:SPC,DST,COINC,MES	88069
			.....	... 140.1 ...		.....
	(E,E'+P)	FN:19- K- 39	EN-E = 700.		M:SIG	88071
			.....	...	... D:STFUN	.....
	(P,G)	TN:19- K- 39	EN = 9.	55.		88070
			..... 10.5	...	... D:MULT,STR	.....
CA- 41	(E,E)	FN:20-CA- 41	EN-E = 175.	52.	M:SPC,SIG,FMF	88072
			..... 320.	... 155. ...	D:MULT,RDI	.....
	Z=22	TITANIUM	A=50			
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=51			
V- 51	(E,E'+P)	FN:22-TI- 50	EN-E = 265.	31.53	M:SPC,SPC-IMP,MES	88116
			..... 410.	... 77.19...	D:SPCTF,RDI	.....
	Z=24	CHROMIUM	A=52			
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			
MN- 51	(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 = 7.	55.	M:SPC,SIG	88077
			..... 10.	...	... D:STFUN	.....
	Z=26	IRON	A=ECTECTB.CMECb			
FE- 0	(E,E')	FN:26-FE- 0	EN-E = 0.653	11.9	M:SIG	88031
			..... 1.65	... 53. ...	D:MULT	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
		Z=28 NICKEL	A=58,60,64			
NI- 0	(E,E'+P)		EN = 0.	0.	M:SPC,DST,SIG,COINC	88078
			..... 70.	... 180. ...		.....
	(E,E'+A)		EN = 0.	0.	M:SPC,DST,SIG,COINC	88078
			..... 70.	... 180. ...		.....
NI- 58	(E,E'+P)	FN:27-CO- 57	EN = 8.	10.	M:SPC	88079
			..... 25.	... 210. ...		.....
	(E,E'+A)	FN:26-FE- 54	EN = 8.	10.	M:SPC	88079
			..... 25.	... 210. ...		.....
NI- 60	(E,E'+P)	FN:27-CO- 59	EN = 12.	10.	M:SPC	88079
			..... 25.	... 210. ...		.....
	(E,E'+A)	FN:26-FE- 56	EN = 12.	10.	M:SPC	88079
			..... 25.	... 210. ...		.....
NI- 64	(E,E)	FN:28-NI- 64	EN = 147.4	29.	M:SPC,DST	88080
			..... 356.	... 56. ...	D:MULT,E,J-PI	.....
	(E,E')	FN:28-NI- 64	EN = 147.4	29.	M:SPC,DST	88080
			..... 356.	... 56. ...	D:MULT,E,J-PI	.....
		Z=29 COPPER	A=62,63,65			
CU- 0	(P,G)		EN-P = 72.	90.	M:SPC,DST	88032
			.....	... 150. ...		.....
	(P,G)		EN-P = 1.93	0.	M:SPC,DST	88081
			..... 2.45	... 90. ...	D:MULT,STR,E,J-PI	.....
	(P,G)		EN = 8.33	0.	M:SPC,DST	88082
			..... 8.91	... 90. ...	D:MULT,B(EL)	.....
CU- 62	(P,G)	TN:28-NI- 61	EN-P = 1.05	55.	M:SIG	88083
			..... 3.98	... ...	D:TRR	.....
CU- 63	(E,E')	FN:29-CU- 63	EN-E = 70.	80.	M:SPC,FMF	88084
			..... 150.	... 140. ...	D:E,J-PI,MULT	.....
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. ...		.....
		Z=30 ZINC	A=64			
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. ...		.....
		Z=34 SELENIUM	A=74,76,78,80,82			
SE- 74	(E,E)	FN:34-SE- 74	EN-E = 225.	20.	M:DST,SIG	88086
			.....	... 83. ...	D:CDENS	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
SE- 76	(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.	20.	M:DST,SIG	88086
			.....	... 83. ...	D:CDENS	.....
SE- 80	(E,E)	FN:34-SE- 80	EN-E = 225.	20.	M:DST,SIG	88086
			.....	... 83. ...	D:CDENS	.....
SE- 82	(E,E)	FN:34-SE- 82	EN-E = 225.	20.	M:DST,SIG	88086
			.....	... 83. ...	D:CDENS	.....
		Z=40	ZIRCONIUM	A=90		
ZR- 90	(G,N)	FN:40-ZR- 89	EN = 21.5			88087
			..... 24.5 ...		... D:IRAT,IYR	.....
	(G,2N)	FN:40-ZR- 88	EN = 21.5			88087
			..... 24.5 ...		... D:IRAT,IYR	.....
	(E,E'+P)	FN:39- Y- 50	EN-E = 265.	31.53	M:SPC,SPC-IMP,MES	88116
			..... 410. ...	77.19...	D:SPCTF,RDI	.....
		Z=47	SILVER	A=ECTECTBEH.CMECЬ		
AG- 0	(G,X)	FN:47-A106-M	EN = ----		M:ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:43-TC- 96	EN = ----		M:ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:44-RU- 95	EN = ----		M:ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:44-RU- 97	EN = ----		M:ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:44-RU-103	EN = ----		M:ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:45-RH-101	EN = ----		M:SIG-M,ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:45-RH-101	EN = ----		M:ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:45-RH-102	EN = ----		M:ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:46-PD-100	EN = ----		M:ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:46-PD-101	EN = ----		M:ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:47-AG-103	EN = ----		M:ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:47-AG-104	EN = ----		M:ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:47-AG-105	EN = ----		M:ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:41-NB- 92	EN = ----		M:SIG-M,ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:41-NB- 95	EN = ----		M:ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:42-MO- 90	EN = ----		M:ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:42-MO- 93	EN = ----		M:SIG-M,ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....
	(G,X)	FN:43-TC- 95	EN = ----		M:SIG-M,ABY,SIG,MDIS	88088
			..... 4.5 ...	...		.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
AG- 0	(G,X)	FN:43-TC- 95	EN = ----		M:ABY,SIG,MDIS	88088
			..... 4.5	... ...		.....
	(P,G)		EN-P = 72.	90.	M:SPC,DST	88032
			.....	... 150. ...		.....
		Z=48	CADMIUM	A=ECTECTB.CMECb		
CD- 0	(G,N)		EN = 20.	55.	M:SPC,SIG,DST,ASYM	88068
	G,MON		..... 39.	... 125. ...		.....
		Z=49	INDIUM	A=115		
IN-115	(G,G')	FN:49-IN-115	EN = 0.2		M:SPC,SIG-M,ABI	88089
			..... 1.5	... ...		.....
		Z=50	TIN	A=112,114,116,119,120,124		
SN-112	(G,X)		EN = ----		M:ABY,SIG,MDIS	88090
			..... 4.5	... ...		.....
SN-114	(G,X)		EN = ----		M:ABY,SIG,MDIS	88090
			..... 4.5	... ...		.....
	(A,G)	TN:48-CD-110	EN-A = 24.		M:SPC,ISY,CDINC	88091
			.....	... ...	D:MULT,E,J-PI	.....
SN-116	(G,X)		EN = ----		M:ABY,SIG,MDIS	88090
			..... 4.5	... ...		.....
SN-119	(G,X)		EN = ----		M:ABY,SIG,MDIS	88090
			..... 4.5	... ...		.....
SN-120	(G,X)		EN = ----		M:ABY,SIG,MDIS	88090
			..... 4.5	... ...		.....
SN-124	(G,X)		EN = ----		M:ABY,SIG,MDIS	88090
			..... 4.5	... ...		.....
		Z=58	CERIUM	A=140		
CE-140	(E,E')	FN:58-CE-140	EN-E = 100.	40.	M:SPC,SIG	88092
			..... 370.	... 155. ...	D:MULT	.....
		Z=62	SAMARIUM	A=152		
SM-152	(E,E')	FN:62-SM-152	EN-E = 80.	45.	M:SPC,FMF,SIG,SIG-0	88093
			..... 300.	... 107. ...	D:CDENS	.....
		Z=63	EURDPIUM	A=152		
EU-152	(N,G)	TN:63-EU-151	EN-N = 0.5		M:SPC,SIG	88094
			..... 2.2	... ...	D:IYR	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
		Z=48 CADMIUM	A=ECTECTB.CMECb			
CD-154	(N,G)	TN:64-GD-153	EN-N = 0.003		M:SIG,BRANCH	88095
			..... 0.5 ...	...	D:TRR	.....
CD-155	(N,G)	TN:64-GD-154	EN-N = 0.003		M:SIG,BRANCH	88095
			..... 0.5 ...	...	D:TRR	.....
CD-156	(N,G)	TN:64-GD-155	EN-N = 0.003		M:SIG,BRANCH	88095
			..... 0.5 ...	...	D:TRR	.....
CD-158	(N,G)	TN:64-GD-157	EN-N = 0.003		M:SIG,BRANCH	88095
			..... 0.5 ...	...	D:TRR	.....
CD-161	(N,G)	TN:64-GD-160	EN-N = 0.46		M:SPC,SIG	88096
			..... 3.05 ...	...		.....
		Z=66 DYSPROSIUM	A=160,161,162,163,164,165			
DY- 0	(N,G)		EN-E = 0.016		M:SIG	88098
			..... 0.46 ...	...		.....
DY-160	(G,G')	FN:66-DY-160	EN = ----	100.	M:SPC,DST	88097
			..... 4.1 ...	150. ...	D:E,J-PI,B(EL)	.....
DY-161	(N,G)	TN:66-DY-160	EN-E = 0.016		M:SIG	88098
			..... 0.46 ...	...		.....
DY-162	(G,G')	FN:66-DY-162	EN = ----	100.	M:SPC,DST	88097
			..... 4.1 ...	150. ...	D:E,J-PI,B(EL)	.....
	(N,G)	TN:66-DY-161	EN-E = 0.016		M:SIG	88098
			..... 0.46 ...	...		.....
DY-163	(N,G)	TN:66-DY-162	EN-E = 0.016		M:SIG	88098
			..... 0.46 ...	...		.....
DY-164	(G,G')	FN:66-DY-164	EN = ----	100.	M:SPC,DST	88097
			..... 4.1 ...	150. ...	D:E,J-PI,B(EL)	.....
	(N,G)	TN:66-DY-163	EN-E = 0.016		M:SIG	88098
			..... 0.46 ...	...		.....
DY-165	(N,G)	TN:66-DY-164	EN-E = 0.016		M:SIG	88098
			..... 0.46 ...	...		.....
		Z=73 TANTALUM	A=180			
TA-180	(G,G')	FN:73-TA-180	EN = ----		M:ARI	88107
			..... 6. ...	...		.....
		Z=76 OSMIUM	A=188,190,192			
OS-188	(E,E')	FN:76-OS-188	EN-E = 200.	25.	M:SPC,DST	88104
			..... 500. ...	74. ...	D:TRDEN,RDI,E,J-PI	.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
OS-190	(E,E')	FN:76-OS-190	EN-E = 200.	25.	M:SPC,DST	88104
			..... 500.	... 74. ...	D:TRDEN,RDI,E,J-PI	.....
OS-192	(E,E')	FN:76-OS-192	EN-E = 200.	25.	M:SPC,DST	88104
			..... 500.	... 74. ...	D:TRDEN,RDI,E,J-PI	.....
	Z=78	PLATINUM	A=194,196			
PT-194	(E,E')	FN:78-PT-194	EN-E = 200.	25.	M:SPC,DST	88104
			..... 500.	... 74. ...	D:TRDEN,RDI,E,J-PI	.....
PT-196	(E,E')	FN:78-PT-196	EN-E = 200.	25.	M:SPC,DST	88104
			..... 500.	... 74. ...	D:TRDEN,RDI,E,J-PI	.....
	Z=79	GOLD	A=ECTECT.CMECb			
AU- 0	(P,G)		EN-P = 72.	30.	M:SPC,DST	88032
			.....	... 150. ...		.....
	Z=82	LEAD	A=208			
PB- 0	(G,N)		EN = 20.	55.	M:SPC,SIG,DST,ASYM	88068
	G,MON		..... 39.	... 125. ...		.....
PB-208	(G,G')	FN:82-PB-208	EN = 1.	30.	M:DST,SIG	88105
	G,MON		..... 100.	... 150. ...	D:TOT	.....
	Z=90	THORIUM	A=232,233,234,235,236,238			
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,F)		EN = 6.		M:DST,ANIS	88099
			..... 10.	... ...		.....
	(E,E')	FN:90-TH-232	EN-E = 20.2	117.	M:SPC,DST,FMF	88107
			..... 55.9	... 165. ...	D:B(EL),PTOE	.....
TH-233	(N,G)	TN:90-TH-232	EN-E = 3.		M:SIG	88106
			.....	... ...		.....
TH-234	(G,F)		EN = 6.		M:DST,ANIS	88099
			..... 10.	... ...		.....
TH-235	(N,G)	TN:90-TH-234	EN-E = 3.		M:SIG	88106
			.....	... ...		.....
TH-236	(G,F)		EN = 6.		M:DST,ANIS	88099
			..... 10.	... ...		.....
TH-238	(G,F)		EN = 6.		M:DST,ANIS	88099
			..... 10.	... ...		.....
	(N,G)		EN-E = 3.		M:SIG	88106
			.....	... ...		.....

NUCLEUS	REACTION	FINAL/TARGET	ENERGY	ANGLE	QUANTITY	NUMBER
	Z=92	URANIUM	A=234,236,237,238			
U-234	(G,F)		EN = 5.5		M:DST	88103
			..... 6.5	... ...		.....
U-236	(G,F)		EN = ----		M:SIG,MDIS,DST	88100
			..... 16.	... ...		.....
U-237	(N,G)	TN:92- U-236	EN-N = 0.3		M:SIG	88109
			..... 2.2	... ...		.....
U-238	(G,G)	FN:92- U-238	EN = ----		M:SIG	88110
			..... 10.	... ...	D:MULT	.....
	(G,ABS)		EN = 10.		M:SIG	88111
			..... 20.	... ...		.....
	(G,F)		EN = 46.4		M:SIG,ABX	88101
	G,MON,POL		..... 71.9	... ...		.....
	(G,F)		EN = 5.5		M:DST	88103
			..... 6.5	... ...		.....
	(E,E'+F)		EN = 5.5	0.	M:DST,COINC,CORR(E)	88118
			..... 15.	... 180. ...	D:MULT,E,J-PI	.....
	Z=93	NEPTUNIUM	A=237			
NP-237	(G,F)		EN = 6.	10.	M:SIG	88102
			..... 60.	... 100. ...	D:MULT	.....
	(E,F)		EN-E = 6.	10.	M:SIG	88102
			..... 60.	... 100. ...	D:MULT	.....
	Z=95	AMERICIUM	A=243			
AM-243	(G,N)	FN:95-AM-242	EN = 450.		M:SIG	88112
			..... 950.	... ...	D:PTOE,ITOP	.....
	(G,F)		EN = 450.		M:SIG	88112
			..... 950.	... ...	D:PTOE	.....
	(E,N)	FN:95-AM-242	EN = 450.		M:SIG	88112
			..... 950.	... ...	D:PTOE,ITOP	.....
	(E,F)		EN = 450.		M:SIG	88112
			..... 950.	... ...	D:PTOE	.....

88001 VNUKOV I.E.,GLAVANAKOV I.V.,KRECHETOV JU.F.,POTYLICIN A.P.,SARUEV G.A.,STIBUNOV V.N.,
TABACHENKO A.N.
DEUTRON PHOTODESINTEGRATION BY LINEARLY POLARIZED PHOTONS BELOW-PION PRODUCTION
THRESHOLD.
ЯДЕРНАЯ ФИЗИКА,47,913(1988)

88002 QUINN B.P.,BERNSTEIN A.M.,BLOMQVIST K.I.,DYTMAN S.A.,PAVEL T.J.,ALTEMUS R.,
MCCARTHY J.S.,MECHTEL G.H.,WHITNEY R.R.,UENG T.S.,ARENHOVEL H.,LEIDEMANN W.,LAGET J.M.
MEASUREMENTS OF TOTAL AND SEPARATED RESPONSE FUNCTIONS OF THE DEUTERON THROUGH THE
QUASIELASTIC PEAK REGION FOR Q=300-500 MEV/C.
PHYS.REV.,C37,1609(1988)

88003 BIRENBAUM Y.,BERANT Z.,WOLF A.,KAHANE S.,MOREH R.
DIFFERENTIAL CROSS SECTIONS FOR THE D(G,N) REACTION BELOW 10 MEV.
PHYS.REV.LETT.,61,810(1988)

88004 ARNOLD R.G.,BENTON D.,BOSTED P.,CLOGHER L.,DECHAMBRIER G.,KATRAMATOU A.T.,LAMBERT J.,
LUNG A.,PETRATOS G.G.,RAHBAR A.,ROCK S.E.,SZALATA Z.M.,DEBEBE B.,FRODYMA M.,HICKS R.S.,
HOTTA A.,PETERSON G.A.,SEARHART R.A.,ALSTER J.,LICHTENSTADT J.,DIETRICH F.,VAN BIBBER K.
MEASUREMENTS OF TRANSVERSE QUASIELASTIC ELECTRON SCATTERING FROM THE DEUTERON AT HIGH
MOMENTUM TRANSFERS.
PHYS.REV.LETT.,61,806(1988)

88005 DOSJUST I.V.
NUCLEON-NUCLEON CORRELATIONS IN LIGHT NUCLEI PHOTODISINTEGRATION REACTIONS IN THE RANGE
OF INTERMEDIATE ENERGIES.
СБ."ВОПРОСЫ АТОМНОЙ НАУКИ И ТЕХНИКИ. СЕРИЯ: ОБЩАЯ И ЯДЕРНАЯ ФИЗИКА",1,3(1988)

88006 DUPONT C.,DEOM C.,LELEUX P.,LIPNIK P.,MACQ P.,NINANE A.,PESTIEAV J.,KITWANGA S.W.,
WAUTERS P.
THE HARD NEUTRON-PROTON BREMSSTRAHLUNG AT 76 MEV.
NUCL.PHYS.,A481,424(1988)

88007 DYTMAN S.A.,BERNSTEIN A.M.,BLOMQVIST K.I.,PAVEL T.J.,QUINN B.P.,ALTEMUS R.,
MCCARTHY J.S.,MECHTEL G.H.,UENG T.S.,WHITNEY R.R.
INCLUSIVE ELECTRON SCATTERING FROM H-2, HE-3, AND HE-4.
PHYS.REV.,C38,800(1988)

88008 ZYBALOV A.A.,KARASEV S.P.,KONOVALOV O.G.,MAREKHIN S.V.,SOROKIN P.V.,STOROZHENKO JU.O.,
TENISHEV A.E.
PROTON POLARIZATION IN HE-3,4 -> P-POL,X REACTIONS AND QUASIDEUTERON MODEL.
ЯДЕРНАЯ ФИЗИКА,47,1505(1988)

88009 GANENKO V.B.,GUSHCHIN V.A.,ZHEBROVSKIJ JU.V.,KOLESNIKOV L.JA.,RUBASHKIN A.L.,
SOROKIN P.V.
ASYMMETRY OF INCLUSIVE REACTIONS (G,P) ANG (G,PI) CROSS SECTIONS OF HELIUM-3 AND
HELIUM-4.
ПИСЬМА ЖЭТФ,47,438(1988)

88010 PITTS W.K.,MEYER H.O.,BLAND L.C.,BROWN J.D.,BYRD R.C.,HUGI M.,KARWOWSKI H.J.,
SCHWANDT P.,SINHA A.,SOWINSKI J.,VAN HEERDEN I.J.,ARRIAGA A.,SANTOS F.D.
H-1(D-POL,G)HE-3 REACTION AT EN-D=95 MEV.
PHYS.REV.,C37,1(1988)

88011 GANENKO V.B.,GET'MAN V.A.,GUSHCHIN V.A.,ZHEBROVSKIJ JU.V.,KOLESNIKOV L.JA.,KOTLJAR V.V.,
RUBASHKIN A.L.,SOROKIN P.V.,SHEBEKO A.V.
CROSS SECTION ASYMMETRY IN DISINTEGRATION OF HELIUM-3 BY LINEARLY POLARIZED PHOTONS.
СБ."ВОПРОСЫ АТОМНОЙ НАУКИ И ТЕХНИКИ. СЕРИЯ: ОБЩАЯ И ЯДЕРНАЯ ФИЗИКА",1,17(1988)

88012 GANENKO V.B.,GUSHCHIN V.A.,ZHEBROVSKIJ JU.V.,KOLESNIKOV L.JA.,RUBASHKIN A.L.,
SOROKIN P.V.
CROSS SECTION ASYMMETRY FOR HELIUM ISOTOPES PHOTODISINTEGRATION BY LINEARLY POLARIZED
PHOTONS.
СБ."ВОПРОСЫ АТОМНОЙ НАУКИ И ТЕХНИКИ. СЕРИЯ: ОБЩАЯ И ЯДЕРНАЯ ФИЗИКА",1,19(1988)

88013 MARCHAND C.,BERNHEIM M.,DUNN P.C.,GERARD A.,LAGET J.M.,MAGNON A.,MORGENSTERN J.,
MOUGEY J.,PICARD J.,REFFAY-PIKEROEN D.,TURCK-CHIEZE S.,VERNIN P.,BRUSSEL M.K.,
CAPITANI G.P.,DE SANCTIS E.,FRULLANI S.,GARIBALDI F.
HIGH PROTON MOMENTA AND NUCLEON-NUCLEON CORRELATIONS IN THE REACTION HE-3(E,E'P).
PHYS.REV.LETT.,60,1703(1988)

88014 ADAMS G.S.,HOISTAD B.,LAGET J.M.,AAS B.,JONES K.,MCGILL J.A.,BLANPIED G.S.,MISHRA C.S.,
MIZE W.K.,PIGNAULT G.,WHISNANT C.S.,WHITLOW S.M.,PAULETTA G.
ANALYZING POWER FOR THE REACTION H-2(P-POL,G)HE-3 AT 800 MEV.
PHYS.REV.,C37,1341(1988)

88015 VETTERLI M.C.,KUEHNER J.A.,BAMBER C.,DAVIS N.,TRUDEL A.J.,WELLER H.R.,WHITTON R.M.
VECTOR ANALYZING POWERS FOR H-1(D-POL,G)HE-3 AND H-2(P-POL,G)HE-3.
PHYS.REV.,C38,2503(1988)

88016 VAN DEN BRAND J.E.J.,BLOK H.P.,ENT R.,JANS E.,KRAMER G.J.,LANEN J.B.J.M.,LAPIKAS L.,
QUINT E.N.M.,VAN DER STEENHOVEN G.,DE WITT HUBERTS P.K.A.
ELECTRODISINTEGRATION OF HE-4 STUDIED WITH THE REACTION HE-4(E,E'P)H-3.
PHYS.REV.LETT.,60,2006(1988)

88017 LANGENBRUNNER J.L.,FELDMAN G.,WELLER H.R.,TILLEY D.R.,WACHTER B.,MERTELMEIER T.,
HOFFMAN H.M.
H-2(D-POL,G)HE-4 REACTION AT EN-D=1.2 MEV.
PHYS.REV.,C38,565(1988)

88018 DEMENTIJ S.V.
EXPERIMENTAL STUDY OF INCLUSIVE QUASIELASTIC ELECTRON SCATTERING ON HE-4.
ЯДЕРНАЯ ФИЗИКА,48,609(1988)

88019 GANENKO V.B.,GET'MAN V.A.,GUSHCHIN V.A.,ZHEBROVSKIJ JU.V.,ZAJAC A.A.,ZOLENKO V.A.,
KASATKIN JU.A.,KOLESNIKOV L.JA.,NAGORNYJ S.I.,OVCHINNIK V.D.,RUBASHKIN A.L.,SOROKIN P.V.
STUDY OF ASYMMETRY OF CROSS SECTION FOR HELIUM-4 PHOTODISINTEGRATION BY LINEARLY
POLARIZED G-QUANTA.
ПИСЬМА ЖЭТФ,48,238(1988)

88020 AUSTIN E.J.,BOOTH E.C.,DELLI CARPINI D.,GALL K.P.,MCINTYRE E.K.,MILLER J.P.,WARNER D.,
WHITEHOUSE D.A.,DODSON G.
CROSS SECTIONS FOR THE REACTION HE-4(G,G)HE-4 IN THE DELTA(1232)- RESONANCE REGION.
PHYS.REV.LETT.,61,1922(1988)

88021 VINOKUROV E.A.,VOLOSHCHUK V.I.,GANENKO V.B.,GORBENKO E.S.,GUSHCHIN V.A.,ERMAK V.F.,
ZOLENKO V.A.,ZHEBROVSKIJ JU.V.,KOLESNIKOV L.JA.,LJAKHNO JU.P.,MALEC V.F.,NIKITIN V.A.,
RUBASHKIN A.L.,SOROKIN P.V.,KHVOROSTJAN V.M.
MEASUREMENT OF ANGULAR DEPENDENCIES OF (G,N) AND (G,P) REACTION CROSS SECTIONS FOR HE-4
DISINTEGRATION BY LINEARLY POLARIZED PHOTONS WITH ENERGY 40 MEV.
СБ."ВОПРОСЫ АТОМНОЙ НАУКИ И ТЕХНИКИ. СЕРИЯ: ОБЩАЯ И ЯДЕРНАЯ ФИЗИКА",1,14(1988)

88022 BERNABEI R.,CHISHOLM A.,D'ANGELO S.,DE PASCALE M.P.,PICOZZA P.,SCHAERF C.,BELLI P.,
CASANO L.,INCICCHITTI A.,PROSPERI D.,GIROLAMI B.
MEASUREMENT OF THE HE-4(G,P)H-3 TOTAL CROSS SECTION AND CHARGE SYMMETRY.
PHYS.REV.,C38,1990(1988)

88023 HOTTA A.,DUBACH J.,HICKS R.S.,HUFFMAN R.L.,PARKER B.,PETERSON G.A.,RYAN P.J.,
SINGHAL R.P.,HALDERSON D.
ELECTROEXCITATION OF HE-4 IN THE NEAR CONTINUUM.
PHYS.REV.,C38,1547(1988)

88024 CARLOS P.J.,BOURGEOIS PH.,FAGOT J.,FALLOU J.L.,GARGANNE P.,LAGET J.M.,LEPRETRE A.,
De MINIAC A.,VEYSSIERE A.,JURY J.W.,RYCKBOSCH D.
THE LI-6(G,P) REACTION IN THE 30-100 MEV PHOTON ENERGY RANGE.
PHYS.LETT.,203B,33(1988)

88025 BUKI A.JU.,SHEVCHENKO N.G.,POLISHCHUK V.N.,KHOMICH A.A.,MAZAN'KO B.V.
ABOUT ENERGY POSITION OF PEAK OF ELECTRON QUASIELASTIC SCATTERING ON LI-6.
ЯДЕРНАЯ ФИЗИКА,48,913(1988)

88026 GANENKO V.B.,GUSHCHIN V.A.,ZHEBROVSKIJ JU.V.,KOLESNIKOV L.JA.,RUBASHKIN A.L.,
SOROKIN P.V.
CROSS SECTION ASYMMETRY FOR LITHIUM-6 PHOTODISINTEGRATION BY LINEARLY POLARIZED PHOTONS.
СБ."ВОПРОСЫ АТОМНОЙ НАУКИ И ТЕХНИКИ. СЕРИЯ: ОБЩАЯ И ЯДЕРНАЯ ФИЗИКА",1,21(1988)

88027 EVSEEV I.G.,LIKHACHEV V.P.,PASHCHUK S.A.,KHVASTUNOV V.M.,VLADIMIROV JU.V.,DJUKOV S.N.,
SAVICKIJ G.A.,FARTUSHNYJ V.A.
MEASUREMENT OF LI-6(G,T) REACTION CROSS SECTION.
СБ."ВОПРОСЫ АТОМНОЙ НАУКИ И ТЕХНИКИ. СЕРИЯ: ОБЩАЯ И ЯДЕРНАЯ ФИЗИКА",1,22(1988)

88028 HILGEMEIER M.,BECKER H.W.,ROLFS C.,TRAUTVETTER H.P.,HAMMER J.W.
ABSOLUTE CROSS SECTION OF THE HE-3(A,G)BE-7 REACTION.
Z.PHYSIK,A329,243(1988)

88029 SUDA T.,KONNO O.,NOMURA I.,SUZUKI T.,TERASAWA T.,TORIZUKA Y.,YOKOKAWA J.,MAEDA K.,
EDEN J.,O'KEEFE G.J.,RASSOOL R.P.,THOMPSON M.N.,KIM J.
MEASUREMENTS OF B-10(G,P) AND B-10(G,PN) CROSS SECTIONS AT EG=66-103 MEV.
PHYS.SOC.JAPAN,57,5(1988)

88030 HICKS R.S.,BUTTON-SHAFER J.,DEBEBE B.,DUBACH J.,HOTTA A.,HUFFMAN R.L.,LINDGREN R.A.,
PETERSON G.A.,SINGHAL R.P.,DE JAGER C.W.
DETERMINATION OF SINGLE-NUCLEON WAVE FUNCTIONS BY TRANSVERSE ELECTRON SCATTERING.
PHYS.REV.LETT.,60,905(1988)

88031 BARAN D.T.,FILIPPONE B.F.,GEESAMAN D.F.,GREEN M.,HOLT R.J.,JACKSON H.E.,JOURDAN J.,
MCKEOWN R.D.,MILNER R.G.,MORGENSTERN J.,POTTERVELD D.H.,SEGEL R.E.,SEIDL P.,WALKER R.C.,
ZEIDMAN B.
DELTA ELECTROPRODUCTION AND INELASTIC CHARGE SCATTERING FROM CARBON AND IRON.
PHYS.REV.LETT.,61,400(1988)

88032 KWATO NJOCK M.,MAUREL M.,NIFENECKER H.,PINSTON J.A.,SCHUSSLER F.,BARNEOUD D.,DRISSI S.,
KERN J.,VORLET J.P.
NUCLEAR BREMSSTRAHLUNG PRODUCTION IN PROTON-NUCLEUS REACTIONS AT 72 MEV.
PHYS.LETT.,207B,269(1988)

88033 VAN DER STEENHOVEN G.,BLOK H.P.,JANS E.,DE JONG M.,LAPIKAS L.,QUINT E.N.M.,
DE WITT HUBERTS P.K.A.
KNOCKOUT OF 1P PROTONS FROM C-12 INDUCED BY THE (E,E'P) REACTION.
NUCL.PHYS.,A480,547(1988)

88034 HAUSMAN H.J.,PLATT S.L.,DONOGHUE T.R.,KALEN J.,KIM W.,MARCHLENSKI D.G.,RACKERS T.W.,
SCHMALBROCK P.,KOVASH M.A.,BACHER A.D.
GROUND STATE PROTON CAPTURE REACTIONS FROM 20 TO 100 MEV.
PHYS.REV.,C37,503(1988)

88035 HARTY P.D.,THOMPSON M.N.,O'KEEFE G.J.,RASSOOL R.P.,MORI K.,FUJII Y.,SUDA T.,NOMURA I.,
KONNO O.,TERASAWA T.,TORIZUKA Y.
C-12(G,N) CROSS SECTION FROM 30 TO 100 MEV.
PHYS.REV.,C37,13(1988)

88036 VAN DER STEENHOVEN G.,BLOK H.P.,JANS E.,LAPIKAS L.,QUINT E.N.M.,DE WITT HUBERTS P.K.A.
WEAK TRANSITIONS IN THE QUASI-ELASTIC REACTION C-12(E,E'+P)B-11.
NUCL.PHYS.,A484,445(1988)

88037 DANCER S.N.,MACGREGOR I.J.D.,ANNAND J.R.M.,ANTHONY I.,CRAWFORD G.I.,HALL S.J.,
KELLIE J.D.,MCGEORGE J.C.,OWENS R.O.,WALLACE P.A.,BRANFORD D.,SPRINGHAM S.V.,
SHOTTER A.C.,SCHOCH B.,VOGT J.M.,BECK R.,LIESENFELD G.
INVESTIGATION OF C-12(G,PN) REACTION USING TAGGED PHOTONS.
PHYS.REV.LETT.,61,1170(1988)

88038 VOLOSHCHUK V.I.,DOGJUST I.V.,KIRICHENKO V.V.,KHODJACHIKH A.F.
REACTION C-12(G,PT)2A IN THE RANGE OF INTERMEDIATE ENERGIES.
СБ."ВОПРОСЫ АТОМНОЙ НАУКИ И ТЕХНИКИ. СЕРИЯ: ОБЩАЯ И ЯДЕРНАЯ ФИЗИКА",1,24(1988)

88039 YOKOKAWA J.,KONNO O.,NOMURA I.,SUDA T.,SUZUKI T.,TERASAWA T.,TORIZUKA Y.,MAEDA K.,
EDEN J.,MCLEAN D.,THOMPSON M.N.
THE ANALYZING POWER OF THE C-12(G,P) REACTION MEASURED USING TAGGED POLARIZED PHOTONS.
J.PHYS.SOC.JAP.,57,695(1988)

88040 SHOTTER A.C.,SPRINGHAM S.V.,BRANFORD D.,YORKSTON J.,MCGEORGE J.C.,SCHOCH B.,JENNEWEIN P.
C-12(G,P) REACTION AT EG=60 MEV.
PHYS.REV.,C37,1354(1988)

88041 DE VRIES J.W.,DOORNHOF D.,DE JAGER C.W.,SINGHAL R.P.,SALEM S.,PETERSON G.A.,HICKS R.S.
THE N-15 GROUND STATE STUDIED WITH ELASTIC ELECTRON SCATTERING.
PHYS.LETT.,205B,22(1988)

88042 MCNEIL K.G.,BATES A.D.,RASSOOL R.P.,MILNE E.A.,THOMPSON M.N.
ISOSPIN EFFECTS ON THE N-15(G,2N) REACTION CROSS SECTION.
PHYS.REV.,C37,1403(1988)

88043 VAN OTTEN P.,VAN DE VYVER R.,VAN CAMP E.,KERKHOVE E.,BERKVENS P.,FERDINANDE H.,
RYCKBOSCH D.,DE GRAEVE A.,VAN HOOREBEKE L.
A GENERAL MONTE CARLO CALCULATION FOR THE GEOMETRICAL EFFICIENCY OF A DETECTION SYSTEM.
NUCL.INSTR. AND METH.,A267,183(1988)

88044 KREMER R.M.,BARNES C.A.,CHANG K.H.,EVANS H.C.,FILIPPONE B.W.,HANN K.H.,MITCHELL L.W.
COINCIDENCE MEASUREMENT OF THE C-12(A,G)O-16 CROSS SECTION AT LOW ENERGIES.
PHYS.REV.LETT.,60,1475(1988)

88045 RACKERS T.W.,BLATT S.L.,DONOGHUE T.R.,HAUSMAN H.J.,KALEN J.,KIM W.,MARCHLENSKI D.G.,
WIESCHER M.,KOVASH M.A.,BACHER A.D.
PROTON RADIATIVE CAPTURE BY N-15, O-16, AL-27, AND SI-28.
PHYS.REV.,C37,1759(1988)

88046 WISSINK S.W.,HANNA S.S.,MAVIS D.G.,WANG T.R.
ELECTRIC QUADRUPOLE STRENGTH IN O-16 FROM THE N-15(P-POL,G-0)O-16 REACTION.
PHYS.REV.,C37,2289(1988)

88047 ADAMS G.S.,KINNEY E.R.,MATTHEWS J.L.,SAPP W.W.,SOOS T.,OWENS R.O.,TURLEY R.S.,
PIGNAULT G.
ANGULAR DISTRIBUTIONS FOR O-16(G,P)N-15 AT INTERMEDIATE ENERGIES.
PHYS.REV.,C38,2771(1988)

88048 KITAZAWA H.,IGASHIRA M.
MECHANISM OF S-WAVE AND P-WAVE NEUTRON RESONANCE CAPTURE IN LIGHT- AND MEDIUM-WEIGHT
NUCLEI.
J.PHYS.G:NUCL.PHYS.,14,S215(1988)

88049 CORVISIERO P.,ANGHINOLFI M.,GIANNINI M.M.,RICCO G.,SANZONE M.,TAIUTI M.
PROTON AND DEUTERON RADIATIVE CAPTURE IN LIGHT NUCLEI.
NUCL.PHYS.,A483,9(1988)

88050 KALANTAR-NAYESTANAKI N.,BAGHAEI H.,BERTOZZI W.,DIXIT S.,FINN J.M.,HYDE-WRIGHT C.C.,
KOWALSKI S.,LOURIE R.W.,SARGENT C.P.,ULMER P.E.,WEINSTEIN L.,HYNES M.V.,BERMAN B.L.,
KELLY J.J.
MAGNETIC STRUCTURE OF O-17 AT HIGH MOMENTUM.
PHYS.REV.LETT.,60,1707(1988)

88051 HESMONDHALGH S.K.B.,GARMAN E.F.,ALLEN K.W.
ALPHA WIDTHS IN F-19 FROM A STUDY OF RESONANCES IN N-15(A-0,G-0)N-15.
NUCL.PHYS.,A476,375(1988)

88052 WIESCHER M.,GORRES J.,KRATZ K.L.,LEIST B.,CHANG K.H.,FILIPPONE B.W.,MITCHELL L.W.,
SAVAGE M.J.,VOGELAAR R.B.
THE FABRICATION AND PROPERTIES OF A NA-22 TARGET.
NUCL.INSTR. AND METH.,A276,242(1988)

88053 BAYE D.,DESCOUVEMONT P.
COMMENT ON "SEARCH FOR NONRESONANT CAPTURE IN O-16(A,G)NE-20 REACTION AT LOW ENERGIES".
PHYS.REV.,C38,2463(1988)

88054 KURJAN P.M.,CALARCO J.R.,FISHER G.A.,HANNA S.S.
GIANT E1 RESONANCES IN NE-20 OBSERVED WITH THE F-19(P-POL,G-0,1)NE-20 REACTIONS.
PHYS.REV.,C37,2281(1988)

88055 WINTERS R.R.,MACKLIN R.L.
RESONANCE NEUTRON CAPTURE BY NE-20,22 IN STELLAR ENVIRONMENTS.
ASTROPHYS.JOURN.,329,943(1988)

88056 IRGASHEV K.M.,ISHKHANOV B.S.,KAPITONOV I.M.
PARTIAL PHOTONUCLEON CROSS SECTIONS AND THE MG-24 GIANT DIPOLE RESONANCE.
NUCL.PHYS.,A483,109(1988)

88057 SOUNDRANAYAGAM R.,SAHA A.,SETH K.K.,DE JAGER C.W.,DE VRIES H.,BLOK H.P.,
VAN DER STEENHOVEN G.
GROUND STATE CHARGE DISTRIBUTION OF MG-26.
PHYS.LETT.,212B,13(1988)

88058 ENDT P.M.,DE WITT P.,ALDERLIESTEN C.
THE MG-25(P,G)AL-26 REACTION: BRANCHINGS, ENERGIES AND LIFETIMES.
NUCL.PHYS.,A476,333(1988)

88059 TIMMERMAN R.,BECKER H.W.,ROLFS C.,SCHRODER U.,TRAUTVETTER H.P.
SEARCH FOR LOW-ENERGY RESONANCES IN AL-27(P,A)MG-24.
NUCL.PHYS.,A477,105(1988)

88060 HARDIE G.,SEGEL R.E.,ELWYN A.J.,MONAHAN J.E.
NONRESONANT CAPTURE OF LOW-ENERGY PROTONS BY AL-27.
PHYS.REV.,C38,2003(1988)

88061 ARZIBEKOV U.R.,GABELKO A.S.,ISHKHANOV B.S.,KAPITONOV I.M.,PISKAREV I.M.
PARTIAL PHOTONUCLEON CROSS SECTIONS AND SEMIDIRECT MECHANISM OF THE P-31 GIANT DIPOLE
RESONANCE DESAY.
ЯДЕРНАЯ ФИЗИКА,47,903(1988)

88062 VAN PRUISSEN O.P.,NOOREN G.J.L.,VAN DER LEUN C.
PRIMARY GAMMA-RAY TRANSITIONS OF MIXED E1+M2 CHARACTER.
NUCL.PHIS.,A480,77(1988)

88063 KUO P.C.-K.,JURY J.W.,DAVIDSON W.F.,SHERMAN N.K.
PHOTONEUTRON ANGULAR DISTRIBUTIONS FOR S-32.
NUCL.PHYS.,A481,217(1988)

88064 CSEH J.,JOZSA M.,KISS A.Z.,KOLTAY E.,SOMORJAI E.,KEINONEN J.,TIKKANEN P.
THE REACTION S-36(A,G)AR-40: G-TRANSITION PROPERTIES OF RESONANCE AND BOUND STATES IN
AR-40.
NUCL.PHYS.,A489,225(1988)

88065 MOREH R.,SELLYEY W.C.,SUTTON D.C.,VODHANEL R.,BAR-TOUV J.
STRONG PHOTON STRENGTH IN AR-40 BETWEEN 8 AND 11 MEV.
PHYS.REV.,C37,2418(1988)

88066 DE ESCH H.P.L.,VAN DER LEUN C.
ENERGY LEVELS OF K-37.
NUCL.PHYS.,A476,316(1988)

88067 MOREH R.,SANDEFUR W.M.,SELLYEY W.C.,SUTTON D.C.,WILDENTHAL B.H.
GROUND STATE M1 STRENGTHS OF D(-1)-5/2 LEVELS IN K-39.
PHYS.REV.,C37,2428(1988)

88068 MURAKAMI T.,GOSSETT C.A.,HALPERN I.,ROZENZWEIG D.P.,STORM D.W.,TIEGER D.R.,DEBEVEC P.T.,
FREYTAG A.,MORFORD L.J.,WENDER S.A.,DOWELL D.H.
PHOTONEUTRON STUDIES OF THE GIANT ISOVECTOR QUADRUPOLE RESONANCE IN CALCIUM, CADMIUM,
AND LEAD.
J.PHYS.G:NUCL.PHYS.,14,S275(1988)

88069 TANAKA A.,HINO T.,KAWAHARA H.,NOMURA M.,TAMAE T.,SUGAWARA M.,TSUBOTA H.,MIYASE H.,
KAWAZOE Y.
THE CA-40(E,E'P-0)K-39 COINCIDENCE CROSS SECTION IN THE GIANT DIPOLE RESONANCE REGION.
NUCL.PHYS.,A489,381(1988)

88070 ALLEN K.W.,KEDDY R.J.,SELLSCHOP J.P.F.,WHITTLE B.
THE GROUND STATE M1 STRENGTH IN CA-40.
Z.PHYSIK,A330,117(1988)

88071 REFFAY-PIKEROEN D.,BERNHEIM M.,BOFFI S.,CAPITANI G.P.,DE SANCTIS E.,FRULLANI S.,
GARIBALDI F.,GERARD A.,GIUSTI C.,JACKSON H.E.,MAGNON A.,MARCHAND C.,MOUGEY J.,
MORGENSTERN J.,PACATI F.D.,PITCARD J.,TURCK-CHIEZE S.,VERNIN P.
BOUND-NUCLEON RESPONSE FUNCTIONS FROM THE REACTION CA-40(E,E'P)K-39 AND NUCLEAR-MEDIUM
EFFECTS.
PHYS.REV.LETT.,60,776(1988)

88072 PLATCHKOV S.K.,AMROUN A.,BRICAULT P.,CAVEDON J.-M.,DE WITT HUBERTS P.K.A.,DREUX P.,
FROIS B.,GOODMAN C.D.,GOUTTE D.,MARTINO J.,MEOT V.,PETERSON G.A.,PHAN XUAN HO,RAMAN S.,
SICK I.
MEASUREMENT OF THE 1F-7/2-NEUTRON-ORBIT RADIUS IN CA-41.
PHYS.REV.LETT.,61,1465(1988)

88073 SELIG A.M.,DE VRIES C.,DE WITT HUBERTS P.K.A.,ZACHAROV I.E.
EFFECTIVE ELECTRO-MAGNETIC OPERATORS OF TI-50 INVESTIGATED WITH (E,E') REACTION.
NUCL.PHYS.,A476,413(1988)

88074 SOBER D.I.,FAGG L.W.,ZEIDMAN B.,LAWSON R.D.,GEESAMAN D.F.,MORRISON G.C.,KARBAN O.,
MARUYAMA X.K.,DE VRIES H.,OFFERMANN E.A.J.M.,DE JAGER C.W.,LINDGREN R.A.,
VAN HIENEN J.F.A.
ELECTROEXCITATION OF 8- STATES IN CR-52.
PHYS.REV.,C38,654(1988)

88075 DIN G.U.,CAMERON J.A.
REACTIONS CR-50(P,G)MN-51 AND CR-50(P,P'G)CR-50 FROM 2.5 TO 3.1 MEV.
PHYS.REV.,C38,633(1988)

88076 CAMERON J.A.,DIN G.U.
LOW-LYING L=3 PROTON RESONANCES IN (CR-50)+P.
PHYS.REV.,C37,863(1988)

88077 BONDARENKO V.I.,NEMASHKALO B.A.,STORIZHKO V.E.,URIN M.G.,SHEBEKO K.V.
PARTIAL CROSS SECTIONS OF THE CR-52(P,G)MN-53 REACTION AND RADIATIVE STRENGTH FUNCTIONS
IN THE MN-53 NUCLEUS.
ЯДЕРНАЯ ФИЗИКА,48,623(1988)

88078 VOJCEKHOVSKIJ B.B.,NIKOLENKO D.M.,POPOV S.G.,POPOVA N.I.,TOPORKOV D.K.,MEDVEDEV V.I.,
PUGACH V.M.
COINCIDENCE ELECTROEXCITATION OF NICKEL NUCLEI WITH DETECTION OF SCATTERED ELECTRON AND
CHARGED SECONDARIES.
ЯДЕРНАЯ ФИЗИКА,48,6(1988)

88079 DOLBILKIN B.S.,KONDRAT'EV R.L.,LISIN V.P.,KHAN SH.,KIHM TH.,KNOPFLE K.T.,SCHULZ H.J.,
CHENLIN WEN,FRIEDRICH J.
DIRECT DECAY OF THE GIANT DIPOLE RESONANCE IN NI-58,60 AND ZN-64 FROM (E,E'C)
EXPERIMENTS.
Z.PHYSIK,A331,107(1988)

88080 BRAUNSTEIN M.R.,KRAUSHAAR J.J.,MICHEL R.P.,MITCHELL J.H.,PETERSON R.J.,BLOK H.P.,
DE VRIES H.
INELASTIC ELECTRON SCATTERING FROM NI-64.
PHYS.REV.,C37,1870(1988)

88081 IZOSIMOV I.N.,KRAFT O.E.,PARZHICKIJ S.S.,SIGALOV V.M.,SIZOV I.V.
INVESTIGATION OF PROTON RESONANCES IN THE NI-60(P,G) REACTION.
ИЗВЕСТИЯ АН СССР,52,72(1988)

88082 IZOSIMOV I.N.,PARZHICKIJ S.S.,SIZOV I.V.
CORRELATION BETWEEN B(E2) AND B(M1) IN NI(P,G)CU REACTION.
ИЗВЕСТИЯ АН СССР,52,77(1988)

88083 TINGWELL C.I.W.,HANSPER V.Y.,TIMS S.G.,SCOTT A.F.,SARGOOD D.G.
CROSS SECTIONS OF PROTON INDUCED REACTIONS ON NI-61.
NUCL.PHYS.,A480,162(1988)

88084 RANGACHARYULU C.,ANSALDO E.J.
ELECTRON-SCATTERING STUDY OF LOW-LYING LEVELS IN CU-63,65.
CAN.J.PHYS.,66,182(1988)

88085 KAWAZOE Y.,MIYASE H.,TSUBOTA H.,NAMAI K.,NOMURA A.,KAWAHARA H.,TANAKA A.,TAMAE T.,
SUGAWARA M.
OUT-OF-PLANE MEASUREMENT OF THE CU-65(E,E'P-0) REACTION IN THE GIANT RESONANCE REGION.
J.PHYS.SOC.JAP.,57,2869(1988)

88086 KHOMICH A.A.,SHEVCHENKO N.G.,BABICHEV E.O.,BUKI A.JU.,POLISHCHUK V.N.,MAZAN'KO B.V.,
SERGIENKO V.P.
ELASTIC SCATTERING OF 225-MEV ELECTRONS ON SE-74,76,78,80,82 ISOTOPES.
ЯДЕРНАЯ ФИЗИКА,47,305(1988)

88087 DAVYDOV M.G.,RAKHMANOV I.B.,KHAMRAEV F.SH.
THE RATIO OF ZR-90 PHOTONEUTRON REACTION YIELDS.
АТОМНАЯ ЭНЕРГИЯ,63,362(1988)

88088 AMROJAN K.A.,VARTAPETJAN G.A.,GRIGORJAN E.O.,DEMEKHINA N.A.
ANALYSIS OF CHARGE DISTRIBUTION OF AG PHOTOSPALLATION PRODUCTS AT EG-MAX=4.5 GEV.
ЯДЕРНАЯ ФИЗИКА,48,461(1988)

88089 COLLINS C.B.,ANDERSON J.A.,PAISS Y.,EBERHARD C.D.,PETERSON R.J.,HODGE W.L.
ACTIVATION OF IN-115-M BY SINGLE PULSES OF INTENSE BREMSSTRAHLUNG.
PHYS.REV.,C38,1852(1988)

88090 ARAKELJAN A.A.,BALABEKJAN A.R.,DANAGULJAN A.C.,KHUDAVERDJAN A.G.
PHOTOYIELDS OF LONG-LIVED RESIDUAL NUCLEI FROM SEPARATED TIN ISOTOPES.
ЯДЕРНАЯ ФИЗИКА,48,618(1988)

88091 STOLK A.,HESSELINK W.H.A.,RIJNEVELD H.,BALANDA A.,PENNINGA J.,VERHEUL H.
EXCLUSIVE MEASUREMENT OF THE STATISTICAL G-DECAY OF THE GIANT DIPOLE RESONANCE BUILT ON
EXCITED STATES IN SN-114.
PHYS.LETT.,B200,13(1988)

88092 MILLER B.L.,CARDMAN L.S.,PAPANICOLAS C.N.,MILLIMAN T.E.,CONNELLY J.P.,HEISENBERG J.H.,
HERSMAN F.W.,WISE J.E.,FROIS B.,GOUTTE D.,MEOT V.
ELECTROEXCITATION OF HIGH-MULTIPOLARITY TRANSITIONS IN CE-140.
PHYS.REV.,C37,895(1988)

88093 PHAN XUAN HO,ANDERSEN H.G.,CARDMAN L.S.,CAVEDON J.-M.,CLEMENTS J.-C.,FROIS B.,GIROD M., GOGNY D.,GOUTTE D.,GRAMMATICOS B.,HOFFMAN R.,HUET M.,LECONTE P.,PLATCHKOV S.K.,SICK I., WILLIAMSON S.E.
ELECTRON SCATTERING STUDIES OF THE GROUND STATE ROTATIONAL BAND OF SM-152.
PHYS.REV.,C38,1173(1988)

88094 TROFIMOV JU.N.
CROSS SECTION FOR THE REACTION EU-151(N,G)EU-152-M (T(1/2)=9.3H) FOR NEUTRON ENERGIES 0.5-2.2 MEV.
СБ."ВОПРОСЫ АТОМНОЙ НАУКИ И ТЕХНИКИ. СЕРИЯ: ЯДЕРНЫЕ КОНСТАНТЫ",4,3(1988)

88095 BEER H.,MACKLIN R.L.
THE SM-151 BRANCHING: A PROBE FOR IRRADIATION TIME SCALE OF THE S-PROCESS.
ASTROPHYS.JOURN.,331,1047(1988)

88096 SINGH R.K.Y.,AFZAL ANSARI M.,GAUTAM R.P.,RIZVI I.A.,KAILAS S.
RADIATIVE CAPTURE OF FAST NEUTRONS IN GD-161.
CAN.J.PHYS.,66,330(1988)

88097 WESSELBORG C.,VON BRETANO P.,ZELL K.O.,HEIL R.D.,PITZ H.H.,BERG U.E.P.,KNEISSL U., LINDENSTRUTH S.,SEEMANN U.,STOCK R.
PHOTOEXCITATION OF DIPOLE MODES IN DY-160,162,164.
PHYS.LETT.,207B,22(1988)

88098 BOKHOVKO M.V.,KAZAKOV L.E.,KONONOV V.N.,POLETAEV E.D.,TIMOKHOV V.M.
FAST NEUTRON RADIATIVE CAPTURE CROSS SECTION FOR DYSPROSIUM ISOTOPES.
СБ."ВОПРОСЫ АТОМНОЙ НАУКИ И ТЕХНИКИ. СЕРИЯ: ЯДЕРНЫЕ КОНСТАНТЫ",4,8(1988)

88099 RUDNIKOV V.E.,SMIRENKIN G.N.,SOLDATOV A.S.,JUHASZ S.
ANGULAR ANISOTROPY IN PHOTOFISSION OF EVEN-EVEN NUCLEI AT ABOVE-BARRIER ENERGIES.
ЯДЕРНАЯ ФИЗИКА,48,646(1988)

88100 WILKE W.,HEIL R.D.,KNEISSL U.,SEEMANN U.,STEIPER F.,STROHER H.,WEBER T.
ANGULAR DISTRIBUTIONS OF PHOTOFISSION FRAGMENTS OF PARTICULAR MASS.
PHYS.LETT.,207B,385(1988)

88101 BERNABEI R.,DE OLIVEIRA V.C.,MARTINS J.B.,TAVARES O.A.P.,PINHEIRO FILHO J.D., D'ANGELO S.,DE PASCALE M.P.,SCHAERF C.,GIROLAMI B.
PHOTOFISSION CROSS SECTION OF U-238 IN THE QUASI-DEUTERON REGION.
NUOV.CIM.,A100,131(1988)

88102 ARRUDA-NETO J.D.T.,PASCHOAL S.L.,HERDADE S.B.
ELECTROFISSION OF NP-237 IN THE ENERGY RANGE 6-60 MEV.
J.PHYS.G:NUCL.PHYS.,14,373(1988)

88103 IVANOV D.I.,NEDOREZOV V.G.,SUDOV A.S.,EVSEEV I.G.,NOGA V.I.,PASHCHUK S.A.,RANJUK JU.N., SAVICKIJ G.A.
PROMPT AND DELAYED ELECTRO- AND PHOTOFISSION OF AM-243 NUCLEI IN THE ENERGY REGION 450-950 MEV.
NUCL.PHYS.,A485,668(1988)

88104 BOEGLIN W.,EGELHOF P.,SICK I.,GAVEDON J.M.,FROIS B.,GOUTTE D.,MEOT V.,LECONTE P., PHAN XUAN HO,PLATCHKOV S.K.,WILLIAMSON S.E.,GIROD M.
ELECTRON SCATTERING FROM TRANSITIONAL NUCLEI.
NUCL.PHYS.,A477,399(1988)

88105 SCHELHAAS K.P.,HENNEBERG J.M.,SANZONE-ARENHOVEL M.,WIELOCH-LAUFENBERG N.,ZURMUHL U., ZIEGLER B.,SCHUMACHER M.,WOLF F.
NUCLEAR PHOTON SCATTERING BY PB-208.
NUCL.PHYS.,A489,189(1988)

88106 FILATENKOV A.A.,BLINOV M.V.,CHUVAEV S.V.,SAIDGAREEV V.M.
G-QUANTA PRODUCTION CROSS SECTIONS FOR INTERACTIONS OF 3 MEV NEUTRONS WITH TH-232, U-235, AND U-238.
СБ."ВОПРОСЫ АТОМНОЙ НАУКИ И ТЕХНИКИ. СЕРИЯ: ЯДЕРНЫЕ КОНСТАНТЫ",2,56(1988)

88107 HEIL R.D.,PITZ H.H.,BERG U.E.P.,KNEISSL U.,HUMMEL K.D.,KILGUS G.,BOHLE D.,RICHTER A.,
WESSELBORG C.,VON BRETANO P.
OBSERVATION OF ORBITAL MAGNETIC DIPOLE STRENGTH IN THE ACTINIDE NUCLEI TH-232 AND U-238.
NUCL.PHYS.,A476,39(1988)

88108 BOCHKAREVA I.E.,GANICH P.P.,RUDNIKOV V.E.,SIKORA D.I.,SMIRENKIN G.N.,SOLDATOV A.S.,
CHOPOROV JU.M.
ANGULAR DISTRIBUTIONS OF FRAGMENTS OF U-234 AND U-238 PHOTOFISSION NEAR THRESHOLD.
СБ."ВОПРОСЫ АТОМНОЙ НАУКИ И ТЕХНИКИ. СЕРИЯ: ЯДЕРНЫЕ КОНСТАНТЫ",4,5(1988)

88109 TROFIMOV JU.N.
NEUTRON RADIATION CAPTURE CROSS SECTION FOR U-236 AT EN=0.3-2.2 MEV.
АТОМНАЯ ЭНЕРГИЯ,64,150(1988)

88110 RULLHUSEN P.
E1 AND M1 TRANSITIONS NEAR AND BELOW PARTICLE THRESHOLD.
J.PHYS.G:NUCL.PHYS.,14,S199(1988)

88111 SHERMAN N.K.,DEL BIANCO W.
ELECTRON-PAIR CREATION ON URANIUM BY 10 AND 20 MEV PHOTONS.
PHYS.REV.,C38,651(1988)

88112 COLLINS C.B.,EBERHARD C.D.,GLESENER J.W.,ANDERSON J.A.
DEPOPULATION OF THE ISOMERIC STATE TA-180-M BY THE REACTION TA-180-M(G,G')TA-180.
PHYS.REV.,C37,2267(1988)

88113 ENDT P.M.,DE WITT P.,ALDERLIESTEN C.,WILDENTHAL B.H.
SPINS, PARITIES AND ISOSPINS OF AL-26 LEVELS: SHELL-MODEL ASPECTS.
NUCL.PHYS.,A487,221(1988)

88114 KACHAN A.S.,NEMASHKALO B.A.,STORIZHKO V.E.
THE STRUCTURE OF M1 RESONANCE IN P-30.
ИЗВЕСТИЯ АН СССР,52,911(1988)

88115 MOREH R.,SELLYEY W.C.,SUTTON D.C.,VODHANEL R.,BAR-TOUV J.
STRONG PHOTON STRENGTH IN AR-40 BETWEEN 8 AND 11 MEV.
PHYS.REV.,C37,2418(1988)

88116 DEN HERDER J.W.A.,BLOK H.P.,JANS E.,KEIZER P.H.M.,LAPIKAS L.,QUINT E.N.M.,
VAN DER STEENHOVEN G.,DE WITT HUBERTS P.K.A.
SINGLE-PARTICLE PROPERTIES OF V-51 AND ZR-90 STUDIED WITH THE (E,E'P) REACTION.
NUCL.PHYS.,A490,507(1988)

88117 WELLER H.R.,WHITTON R.M.,LANGENBRUNNER J.L.,HAYWARD E.,DODGE W.R.,KUHN S.,TILLEY D.R.
THE ENERGY DEPENDENCE OF POLARIZATION OBSERVABLES IN THE H-2(D,G)HE-4 REACTION.
PHYS.LETT.,213B,413(1988)

88118 WEBER T.,HEIL R.D.,KNEISSL U.,WILKE W.,ENRICH H.J.,KIM T.,KNOPFLE K.T.
NEAR BARRIER FISSION CHANNELS (J-PI,K) IN U-238 FOR SPINS J-PI=0+, 1-, AND 2+ FROM
(E,E'F) ANGULAR CORRELATION MEASUREMENTS.
PHYS.LETT.,215B,469(1988)

	BONDARENKO V.I.	88077					
	BOOTH E.C.	88020					
	BOSTED P.	88004					
	BOURGEOIS PH.	88024					
	BRANFORD D.	88037	88040				
	BRAUNSTEIN M.R.	88080					
	BRICAULT P.	88072					
	BROWN J.D.	88010					
	BRUSSEL M.K.	88013					
	BUKI A.JU.	88025	88086				
	BUTTON-SHAFER J.	88030					
	BYRD R.C.	88010					
C	CALARCO J.R.	88054					
	CAMERON J.A.	88075	88076				
	CAPITANI G.P.	88013	88071				
	CARDMAN L.S.	88092	88093				
	CARLOS P.J.	88024					
	CASANO L.	88022					
	CAVEDON J.-M.	88072	88093				
	CHANG K.H.	88044	88052				
	CHENLIN WEN	88079					
	CHISHOLM A.	88022					
	CHOPOROV JU.M.	88108					
	CHUVAEV S.V.	88106					
	CLEMENTS J.-C.	88093					
	CLOGHER L.	88004					
	COLLINS C.B.	88089	88112				
	CONNELLY J.P.	88092					
	CORVISIERO P.	88049					
	CRAWFORD G.I.	88037					
	CSEH J.	88064					
D	D'ANGELO S.	88022	88101				
	DANAGULJAN A.C.	88090					
	DANCER S.N.	88037					
	DAVIDSON W.F.	88063					
	DAVIS N.	88015					
	DAVYDOV M.G.	88087					
	DE ESCH H.P.L.	88066					
	DE GRAEVE A.	88043					
	DE JAGER C.W.	88030	88041	88057	88074		
	DE JONG M.	88033					
	DE MINIAC A.	88024					
	DE OLIVEIRA V.C.	88101					
	DE PASCALE M.P.	88022	88101				
	DE SANCTIS E.	88013	88071				
	DE VRIES C.	88073					
	DE VRIES H.	88057	88074	88080			
	DE VRIES J.W.	88041					
	DE WITT P.	88058	88113				
	DE WITT HUBERTS P.K.A.	88016	88033	88036	88072	88073	88116
	DEBEBE B.	88004	88030				
	DEBEVEC P.T.	88068					
	DECHAMBRIER G.	88004					
	DEL BIANCO W.	88111					
	DELLI CARPINI D.	88020					
	DEMEKHINA N.A.	88088					
	DEMENTIJ S.V.	88018					
	DEN HERDER J.W.A.	88116					
	DEOM C.	88006					
	DESCOUVEMONT P.	88053					
	DIETRICH F.	88004					

	DIN G.U.	88075	88076				
	DIXIT S.	88050					
	DJUKOV S.N.	88027					
	DODGE W.R.	88117					
	DODSON G.	88020					
	DOGJUST I.V.	88005	88038				
	DOLBILKIN B.S.	88079					
	DONOGHUE T.R.	88034	88045				
	DOORNHOF D.	88041					
	DOWELL D.H.	88068					
	DREUX P.	88072					
	DRISSI S.	88032					
	DUBACH J.	88023	88030				
	DUNN P.C.	88013					
	DUPONT C.	88006					
	DYTMAN S.A.	88002	88007				
E	EBERHARD C.D.	88089	88112				
	EDEN J.	88029	88039				
	EGELHOF P.	88104					
	ELWYN A.J.	88060					
	ENDT P.M.	88058	88113				
	ENRICH H.J.	88118					
	ENT R.	88016					
	ERMAK V.P.	88021					
	EVANS H.C.	88044					
	EVSEEV I.G.	88027	88103				
F	FAGG L.W.	88074					
	FAGOT J.	88024					
	FALLOU J.L.	88024					
	FARTUSHNYJ V.A.	88027					
	FELDMAN G.	88017					
	FERDINANDE H.	88043					
	FILATENKOV A.A.	88106					
	FILIPPONE B.F.	88031					
	FILIPPONE B.W.	88044	88052				
	FINN J.M.	88050					
	FISHER G.A.	88054					
	FREYTAG A.	88068					
	FRIEDRICH J.	88079					
	FRODYMA M.	88004					
	FROIS B.	88072	88092	88093	88104		
	FRULLANI S.	88013	88071				
	FUJII Y.	88035					
G	GABELKO A.S.	88061					
	GALL K.P.	88020					
	GANENKO V.B.	88009	88011	88012	88019	88021	88
	GANICH P.P.	88108					
	GARGANNE P.	88024					
	GARIBALDI F.	88013	88071				
	GARMAN E.F.	88051					
	GAUTAM R.P.	88096					
	GAVEDON J.M.	88104					
	GEARHART R.A.	88004					
	GEESAMAN D.F.	88031	88074				
	GERARD A.	88013	88071				
	GET'MAN V.A.	88011	88019				
	GIANNINI M.M.	88049					
	GIROD M.	88093	88104				
	GIROLAMI B.	88022	88101				

	GIUSTI C.	88071					
	GLAVANAKOV I.V.	88001					
	GLESENER J.W.	88112					
	GOGNY D.	88093					
	GOODMAN C.D.	88072					
	GORBENKO E.S.	88021					
	GORRES J.	88052					
	GOSSETT C.A.	88068					
	GOUTTE D.	88072	88092	88093	88104		
	GRAMMATICOS B.	88093					
	GREEN M.	88031					
	GRIGORJAN E.O.	88088					
	GUSHCHIN V.A.	88009	88011	88012	88019	88021	88026
H	HALDERSON D.	88023					
	HALL S.J.	88037					
	HALPERN I.	88068					
	HAMMER J.W.	88028					
	HANN K.H.	88044					
	HANNA S.S.	88046	88054				
	HANSPER V.Y.	88083					
	HARDIE S.	88060					
	HARTY P.D.	88035					
	HAUSMAN H.J.	88034	88045				
	HAYWARD E.	88117					
	HEIL R.D.	88097	88100	88107	88118		
	HEISENBERG J.H.	88092					
	HENNEBERG J.M.	88105					
	HERDADE S.B.	88102					
	HERSMAN F.W.	88092					
	HESMONDHALGH S.K.B.	88051					
	HESSELINK W.H.A.	88091					
	HICKS R.S.	88004	88023	88038	88041		
	HILGEMEIER M.	88028					
	HINO T.	88069					
	HODGE W.L.	88089					
	HOFFMAN H.M.	88017					
	HOFFMAN R.	88093					
	HOISTAD B.	88014					
	HOLT R.J.	88031					
	HOTTA A.	88004	88023	88038			
	HUET M.	88093					
	HUFFMAN R.L.	88023	88038				
	HUGI M.	88010					
	HUMMEL K.D.	88107					
	HYDE-WRIGHT C.C.	88058					
	HYNES M.V.	88058					
I	IGASHIRA M.	88048					
	INCICCHITTI A.	88022					
	IRGASHEV K.M.	88056					
	ISHKHANOV B.S.	88056	88061				
	IVANOV D.I.	88103					
	IZOSIMOV I.N.	88081	88082				
J	JACKSON H.E.	88031	88071				
	JAMS E.	88016	88033	88036	88116		
	JENNEWEIN P.	88040					
	JONES K.	88014					
	JOURDAN J.	88031					
	JOZSA M.	88064					
	JUHASZ S.	88099					

	JURY J.W.	88024	88063				
K	KACHAN A.S.	88114					
	KAHANE S.	88003					
	KAILAS S.	88096					
	KALANTAR-NAYESTANAKI N.	88050					
	KALEN J.	88034	88045				
	KAPITONOV I.M.	88056	88061				
	KARASEV S.P.	88008					
	KARBAN O.	88074					
	KARWOWSKI H.J.	88010					
	KASATKIN JU.A.	88019					
	KATRAMATOU A.T.	88004					
	KAWAHARA H.	88069	88085				
	KAWAZOE Y.	88069	88085				
	KAZAKOV L.E.	88098					
	KEDDY R.J.	88070					
	KEINONEN J.	88064					
	KEIZER P.H.M.	88116					
	KELLIE J.D.	88037					
	KELLY J.J.	88050					
	KERKHOVE E.	88043					
	KERN J.	88032					
	KHAMRAEV F.SH.	88087					
	KHAN SH.	88079					
	KHODJACHIKH A.F.	88038					
	KHOMICH A.A.	88025	88086				
	KHUDAVERDJAN A.G.	88090					
	KHVASTUNOV V.M.	88027					
	KHVOROSTJAN V.M.	88021					
	KIHM TH.	88079					
	KILGUS G.	88107					
	KIM J.	88029					
	KIM T.	88118					
	KIM W.	88034	88045				
	KINNEY E.R.	88047					
	KIRICHENKO V.V.	88038					
	KISS A.Z.	88064					
	KITAZAWA H.	88048					
	KITWANGA S.W.	88006					
	KNEISSL U.	88097	88100	88107	88118		
	KNOPFLE K.T.	88079	88118				
	KOLESNIKOV L.JA.	88009	88011	88012	88019	88021	88026
	KOLTAY E.	88064					
	KONDRAT'EV R.L.	88079					
	KONNO O.	88029	88035	88039			
	KONONOV V.N.	88098					
	KONOVALOV O.G.	88008					
	KOTLJAR V.V.	88011					
	KOVASH M.A.	88034	88045				
	KOWALSKI S.	88050					
	KRAFT O.E.	88081					
	KRAMER G.J.	88016					
	KRATZ K.L.	88052					
	KRAUSHAAR J.J.	88080					
	KRECHETOV JU.F.	88001					
	KREMER R.M.	88044					
	KUEHNER J.A.	88015					
	KUHN S.	88117					
	KUO P.C.-K.	88063					
	KURJAN P.M.	88054					
	KWATO NJOCK M.	88032					

L	LAGET J.M.	88002	88013	88014	88024
	LAMBERT J.	88004			
	LANEN J.B.J.M.	88016			
	LANGENBRUNNER J.L.	88017	88117		
	LAPIKAS L.	88016	88033	88036	88116
	LAWSON R.D.	88074			
	LECONTE P.	88093	88104		
	LEIDEMANN W.	88002			
	LEIST B.	88052			
	LELEUX P.	88006			
	LEPRETRE A.	88024			
	LICHTENSTADT J.	88004			
	LIESENFELD G.	88037			
	LIKHACHEV V.P.	88027			
	LINDENSTRUTH S.	88097			
	LINDGREN R.A.	88030	88074		
	LIPNIK P.	88006			
	LISIN V.P.	88079			
	LJAKHNO JU.P.	88021			
	LOURIE R.W.	88050			
	LUNG A.	88004			
M	MACGREGOR I.J.D.	88037			
	MACKLIN R.L.	88055	88095		
	MACQ P.	88006			
	MAEDA K.	88029	88039		
	MAGNON A.	88013	88071		
	MALEC V.F.	88021			
	MARCHAND C.	88013	88071		
	MARCHLENSKI D.G.	88034	88045		
	MAREKHIN S.V.	88008			
	MARTINO J.	88072			
	MARTINS J.B.	88101			
	MARUYAMA X.K.	88074			
	MATTHEWS J.L.	88047			
	MAUREL M.	88032			
	MAVIS D.G.	88046			
	MAZAN'KO B.V.	88025	88086		
	MCCARTHY J.S.	88002	88007		
	MCGEORGE J.C.	88037	88040		
	MCGILL J.A.	88014			
	MCINTYRE E.K.	88020			
	MCKEOWN R.D.	88031			
	MCLEAN D.	88039			
	MCNEIL K.G.	88042			
	MECHTEL G.H.	88002	88007		
	MEDVEDEV V.I.	88078			
	MEOT V.	88072	88092	88104	
	MERTELMEIER T.	88017			
	MEYER H.O.	88010			
	MICHEL R.P.	88080			
	MILLER B.L.	88092			
	MILLER J.P.	88020			
	MILLIMAN T.E.	88092			
	MILNE E.A.	88042			
	MILNER R.G.	88031			
	MISHRA C.S.	88014			
	MITCHELL J.H.	88080			
	MITCHELL L.W.	88044	88052		
	MIYASE H.	88069	88085		
	MIZE W.K.	88014			
	MONAHAN J.E.	88060			
	MOREH R.	88003	88065	88067	88115
	MORFORD L.J.	88068			

	MORGENSTERN J.	88013	88031	88071	
	MORI K.	88035			
	MORRISON G.C.	88074			
	MOUGEY J.	88013	88071		
	MURAKAMI T.	88068			
N	NAGORNYJ S.I.	88019			
	NAMAI K.	88085			
	NEDOREZOV V.G.	88103			
	NEMASHKALO B.A.	88077	88114		
	NIFENECKER H.	88032			
	NIKITIN V.A.	88021			
	NIKOLENKO D.M.	88078			
	NINANE A.	88006			
	NOGA V.I.	88103			
	NOMURA A.	88085			
	NOMURA I.	88029	88035	88039	
	NOMURA M.	88069			
	NOOREN G.J.L.	88062			
O	O'KEEFE G.J.	88029	88035		
	OFFERMANN E.A.J.M.	88074			
	OVCHINNIK V.D.	88019			
	OWENS R.O.	88037	88047		
P	PACATI F.D.	88071			
	PAISS Y.	88089			
	PAPANICOLAS C.N.	88092			
	PARKER B.	88023			
	PARZHICKIJ S.S.	88081	88082		
	PASCHOAL S.L.	88102			
	PASHCHUK S.A.	88027	88103		
	PAULETTA G.	88014			
	PAVEL T.J.	88002	88007		
	PENNINGA J.	88091			
	PESTIEAV J.	88006			
	PETERSON G.A.	88004	88023	88030	88041
	PETERSON R.J.	88080	88089		
	PETRATOS G.G.	88004			
	PHAN XUAN HO	88072	88093	88104	
	PICARD J.	88013			
	PICOZZA P.	88022			
	PIGNAULT G.	88014	88047		
	PINHEIRO FILHO J.D.	88101			
	PINSTON J.A.	88032			
	PISKAREV I.M.	88061			
	PITCARD J.	88071			
	PITTS W.K.	88010			
	PITZ H.H.	88097	88107		
	PLATCHKOV S.K.	88072	88093	88104	
	POLETAEV E.D.	88098			
	POLISHCHUK V.N.	88025	88086		
	POPOV S.G.	88078			
	POPOVA N.I.	88078			
	POTTERVELD D.H.	88031			
	POTYLICIN A.P.	88001			
	PROSPERI D.	88022			
	PUGACH V.M.	88078			
Q	QUINN B.P.	88002	88007		
	QUINT E.N.M.	88016	88033	88036	88116

R	RACKERS T.W.	88034	88045				
	RAHBAR A.	88004					
	RAKHMANOV I.B.	88087					
	RAMAN S.	88072					
	RANGACHARYULU C.	88084					
	RANJUK JU.N.	88103					
	RASSOOL R.P.	88029	88035	88042			
	REFFAY-PIKEROEN D.	88013	88071				
	RICCO G.	88049					
	RICHTER A.	88107					
	RIJNEVELD H.	88091					
	RIZVI I.A.	88096					
	ROCK S.E.	88004					
	ROLFS C.	88028	88059				
	ROZENZWEIG D.P.	88068					
	RUBASHKIN A.L.	88009	88011	88012	88019	88021	88026
	RUDNIKOV V.E.	88099	88108				
	RULLHUSEN P.	88110					
	RYAN P.J.	88023					
	RYCKBOSCH D.	88024	88043				
S	SAHA A.	88057					
	SAIDGAREEV V.M.	88106					
	SALEM S.	88041					
	SANDEFUR W.M.	88067					
	SANTOS F.D.	88010					
	SANZONE M.	88049					
	SANZONE-ARENHOVEL M.	88105					
	SAPP W.W.	88047					
	SARGENT C.P.	88050					
	SARGOOD D.G.	88083					
	SARUEV G.A.	88001					
	SAVAGE M.J.	88052					
	SAVICKIJ G.A.	88027	88103				
	SCHAERF C.	88022	88101				
	SCHELHAAS K.P.	88105					
	SCHMALBROCK P.	88034					
	SCHOCH B.	88037	88040				
	SCHRODER U.	88059					
	SCHULZ H.J.	88079					
	SCHUMACHER M.	88105					
	SCHUSSLER F.	88032					
	SCHWANDT P.	88010					
	SCOTT A.F.	88083					
	SEEMANN U.	88097	88100				
	SEGEL R.E.	88031	88060				
	SEIDL P.	88031					
	SELIG A.M.	88073					
	SELLSCHOP J.P.F.	88070					
	SELLYEY W.C.	88065	88067	88115			
	SERGIENKO V.P.	88086					
	SETH K.K.	88057					
	SHEBEKO A.V.	88011					
	SHEBEKO K.V.	88077					
	SHERMAN N.K.	88063	88111				
	SHEVCHENKO N.G.	88025	88086				
	SHOTTER A.C.	88037	88040				
	SICK I.	88072	88093	88104			
	SIGALOV V.M.	88081					
	SIKORA D.I.	88108					
	SINGH R.K.Y.	88096					
	SINGHAL R.P.	88023	88030	88041			
	SINHA A.	88010					
	SIZOV I.V.	88081	88082				

VII. БИБЛИОГРАФИЯ РАБОТ ПО ТЕМЕ "ЭЛЕКТРОМАГНИТНЫЕ ВЗАИМОДЕЙСТВИЯ ЯДЕР И СМЕЖНЫЕ ОБЛАСТИ" ИЗ ЗАРУБЕЖНЫХ БАЗ ДАННЫХ

Настоящий раздел содержит библиографию работ по указанной теме, систематизированных в соответствии с использованными типами поиска.

Использованы следующие дескрипторы:
AU - авторы,
TI - название работы,
YR - дата,
MJ - ключевые слова,
NT - тип работы,
TY - организация, адрес.

Номер работы представлен в виде NNnnn, где NN - порядковый номер информационного бюллетеня (в данном случае - 12), а nnn - порядковый номер работы в библиографии.

Кроме информации по указанным и ряду дополнительных специальных идентификаторов в ЦДФЭ имеются аннотации работ.

BIBLIOGRAPHY OF THE WORKS ON THE THEME "ELECTROMAGNETIC INTERACTIONS OF NUCLEI AND RELATED TOPICS" FROM FOREIGN DATA BASES

The present part contains bibliography of the works on the theme pointed out systematized in accordance with search modes have been used.

The following identifiers are used.
AU - authors,
TI - title of the work,
YR - date,
MJ - keywords,
NT - type of the work,
TY - organization, adress.

The work's number is NNnnn, where NN - is the index number of information bulletin (in that case - 12), nnn - is the index number of work in bibliography.

CDFE have the abstracts of the works besides the information on pointed out and some additional special identifiers.

12001 AU Holt R.J.
TI Electro- and Photonuclear Physics with Polarized Beams and Targets.
YR 1987
MJ Deuterium-Target, Electron-Deuteron-Interaction, Helium-3-Target, Hydrogen, Lead-206-Target, Lead-208-Target, Neutrons, Elastic-Scattering, Electromagnetic-Form-Factors, Giant-Resonance, Photoneutrons, Photonuclear-Reactions, Polarized-Beams, Polarized-Targets.
NT International Symposium on Modern Developments in Nuclear Physics, Novosibirsk, USSR.
IN Argonne National Lab. Department of Energy, Washington, DC. 001960000 0448000.

12002 AU Vdovin A.I., Ponomarev V.Y., Velchev C.
TI Magnetic Resonance in PB-206.
YR 1986
MJ Lead-206, Energy-Level-Density, Excited-States, Gamma-Radiation, Ground-States, M1-Transitions, MeV-Range-01-10, Phonons, Probability, Quasiparticle-Phonon-Model, Randon-Phase-Approximation, Strength-Functions, Wave-Functions.
NT In Russian Submitted to the Journal J. Phys. G: Nucl. Phys. .
IN Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Theoretical Physics. 014897006 3476000.

12003 TI Nuclear Structure Influence On the Missing Of M1 Strenght in (p, p') Reaction.
YR 1986
MJ Proton-Reactions, Zirconium-90-Target, Zirconium-92-Target, Zirconium-94-Target, Zirconium-96-Target, Angular-Distribution, Differential-Cross-Section,Excited-States, Giant-Resonance, Inelastic-Scattering, M1-Transitions, MeV-Range-100-1000, Nuclear-Structure, Nucleon-Nucleon-Interactions, Probability, Quasiparticle-Phonon-Model, Strength-Functions, Theoretical-Data, Wave-Functions.
NT Submitted to the Journal Yad. Fiz. .
IN Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Theoretical Physics. 014897006 3476000.

12004 AU Ponomarev V.Y., Ershov S.N., Gareev F.A., Vdovin A.I.
TI Excitation of Magnetic Resonances in Zr-90 by the Inelastic Proton Scattering.
YR 1983
MJ Proton-Reactions, Zirconium-90, Zirconium-90-Target, Cross-Sections, Distorted-Wave-Theory, Excitation, Impulse-Approximation, Inelastic-Scattering, M1-Transitions, M2-Transitions, MeV-Range-100-1000, Probability, Small-Angle-Scattering, Theoretical-Data.
NT International Symposium on Highly Excited States and Nuclear Structure. Orsay, France.
IN Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Theoretical Physics. 014897006 3476000.

12005 AU Marty N., Djalali C., Morlet M., Willis A., Jourdatn J.C.
TI Proton Excitation of the M1 Resonances in the NI Isotopes.
YR 1982
MJ Nickel-58, Nickel-58-Target, Nickel-60, Nickel-60-Target, Nickel-62, Nickel-62-Target, Nickel-64, Nickel-64-Target, Proton-Reactions, Cross-Sections, Energy-Levels, Experimental-Data, Giant-Resonance, Inelastic-Scattering, M1-Transitions, Mev-Range-100-1000.
IN Paris-11 Univ. Orsay (France). Inst. de Physique Nucleaire. 055555003 5068000.

12006 AU Meuer D.
TI Study of Transversal Nuclear Excitations in Zr-90 and Ce-140 by High-Resolution Inelastic Electron Scattering.
YR 1981
MJ Cerium-140, Cerium-140-Target, Electron-Reactions, Zirconium-90, Zirconium-90-Target, Excitation, DWBA, Differential-Cross-Sections, Electromagnetic-Form-Factors, Electron-Spectra, Electrons, Energy-Dependence, Energy-Levels, Energy-Level-Density, Excited-States, Experimental-Data, Inelastic-Scattering, Limiting-Values, M1-Transitions, M2-Transitions, MeV-Range-10-100, Parity, Random-Phase-Approximation, Spin, Strength-Functions.
NT In German.
IN Technishe Hochschule, Darmstadt (Germany, F.R.). Fachbereich Physik. 017105018 6098200.

12007 AU Ponomarev V.Y., Vdovin A.I.
TI Electroexcitation of Magnetic Resonances in Spherical Nuclei.
YR 1981
MJ Giant-Resonance, Zirconium-90-Target, Zirconium-90, Zirconium-92, Zirconium-94, Cerium-140-Target, Electromagnetic-Form-Factors, Electron-Reactions, Excited-States, Lead-208-Target, M1-Transitions, M2-Transitions, Nickel-58-Target, Nuclear-Structure, Quasi-Elastic-Scattering, Quasiparticle-Phonon-Model, Reviews, Spherical-Model, Inelastic-Scattering.
IN Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Theoretical Physics. 014897006 3476000.

12008 AU Vdovin A.I., Ponomarev V.Y., Stoyanov C.
TI High-Lying M1 States of Spherical Nuclei.
YR 1981
MJ Lead-208-Target, Zirconium-90-Target, Back Scattering, DWBA, Electron-Reactions, Inelastic-Scattering, M1-Transitions, Quasiparticle-Phonon-Model, Random-Phase-Approximation, Spherical-Model, Strength-Functions, Excitation.
NT In Russian.
IN Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Theoretical Physics. 014897006 3476000.

12009 AU Vdovin A.I., Ponomarev V.Y., Shilov V.M.
TI Electroexcitation of M1 and M2 Resonances in Spherical Nuclei.
YR 1980
MJ Heavy-nuclei, Intermediate-Mass-Nuclei, Differential-Cross-Sections, Electron-Reactions, Excited-States, Form-Factors, Inelastic-Scattering, Mass-Number, MeV-Range, M1-Transitions, M2-Transitions, Quasiparticle-Phonon-Model, Spherical-Model, Targets.
NT In Russian.
IN Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Theoretical Physics. 014897006 3476000.

12010 AU Holt R.J.
TI Threshold Photoneutron Angular Distribution and Polarization Studies of Nuclei.
YR 1980
MJ Lead-208, Lead-208-Target, Photonuclear-Reactions, Oxygen-17, Oxygen-17-Target, Nickel-60, Nickel-60-Target, Angular-Distribution, Energy-Levels, Experimental-Data, Lead-207, Photoneutrons, Polarization, Resonance, Differential-Cross-Sections, Oxygen-16, Deuterium-Target, Hydrogen, Giant-Resonance, Nickel-59.
NT Conference on Application of Accelerators in Research an Industry, Denton, TX, USA.
IN Argonne National Lab. Il. Department of Energy, Washington, Denton, DC. 001960000 0448000.

VII. 2. Метод меченых фотонов — Tagged Photon Method

12011 AU Babinet R.
TI Study of Strangeness in Light Nuclei: Perspectives in (E,E').
YR 1987
MJ Hypernuclei, Cross-Sections, Electron-Reactions, Electroproduction, Form-Factors, Momentum-Transter, Photonuclear-Reactions, Photoproduction, Reviews, Tagged-Photon-Method.
NT In FrenchWorkshop on Intermediate Energies, Grenoble, France.
IN CEA Centre d'Etudes Nucleaires de Saclay, Gif-sur-Yvette (France). Dept. de Physique Nucleaire. 056220006 1405000.

12012 AU Koike M.
TI High Energy Nuclear Collective Effects in Photo-Nuclear Reactions.
YR 1987
MJ Photonuclear-Reactions, Bag-Model, Collective-Model, Energy-Spectra, Evaporation-Model, Fireball-Model, MeV-Range-100-1000, Nuclear-Matter, Protons, Quantum-Chromodynamics, Tagged-Photon-Method.
IN Tokyo Univ. (Japan). Inst. for Nuclear Study. 016818012 6269600.

12013 AU Kato S., Okuno H.

TI Recent Experiments on Photonuclear Reactions at the Tokyo 1.3 GeV Electron Synchrotron.
YR 1986
MJ Tokyo-Synchrotron, Photonuclear-Reactions, Berillium-9-Target, Deuterium-Target, Deuterons, Helium-4-Target, Nitrogen-14-Target, Photon-Beams, Pions, Polaizer-Beams, Tagged-Photon-Method.
IN Tokyo Univ. (Japan). Inst. for Nuclear Study. 015818012 6269600.

12014 AU Schuhl C.
TI Photonuclear and Electronuclear Saclay's Activities.
YR 1986
MJ Saclay-Linac, Helium-3-Target, Cerium-140-Target, Deuterium-Target, Elastic-Scattering, Electron-Reactions, From-Factors, Osmium-Isotopes, Photofission,Photonuclear-Reactions, Pions-Neutral, Platinum-Isotopes, Research-Programs, Tagged-Photon-Method, Tritium, Zirconium-90-Target.
NT Gordon Research Conferens on Photonuclear Reactions, Plymouth, NH, USA, Aug 1986.
IN CEA Centre d'Etudes Nucleaires de Saclay, Gif-sur-Yvette (France). Inst. de Recherche Fondamentale. 056220049 9100903.

12015 AU Maximon L.S., Miniac A., Aniel T., Ganz E.
TI Tagged Photons: An Analystis of the Bremsstrahlung Cross Section.
YR 1987
MJ Bremsstrahlung, Differential-Cross-Sections, Reprints.
NT Final rept.
IN National Bureau of Standards (NML),Gaithersburg, MD. Center for Radiation Research. 082042009.

12016 AU Arakelyan E.A., Bayatyan G.I., Vartanyan G.S.
TI Tagged Photon Beam on the Extracted Rarefied Electron Beam of the Erevan Synchrotron.
YR 1984
MJ Erevan-Synchrotron, Beam-Extraction, Beam-Production, Beam-Profiles, Electron-Beams, Energy-Resolution, GeV-Range-01-10, Milli-Amp-Beam-Currents, Photon-Beams, Secondary-Beams, Tagged-Photon-Method.
NT In Russian.
IN Tsentral'nyi Nauchno-Issledovatel'skii Inst. Informatsii i Tekhniko-Ehkonomicheskikh Issledovanii po Atomnoi Nauke i Tekhnike, Moscow (USSR).*Erevanskij Fizicheskij Inst. (USSR). 087683000 6339400.

12017 AU Homma S, Koike M., Okuno H., Sudo M., Torikoshi M.
TI Photodisintegration of Two-Nucleon System in Helium Nucleus.
YR 1985
MJ Helium-4-Target, Photonuclear-Reactions, Angular-Distribution, Breakup-Reactions, Cluster-Model, Comparative-Evaluations, Deuterons, Experimental-Data, MeV-Range-100-1000, Protons, Tagged-Photon-Method, Two-Body-Problem.
IN Tokyo Univ. (Japan). Inst for Nuclear Study. 016818012 6269600.

12018 AU Homma S.
TI (Gamma, p) Experiments on Nuclei in the Delta Region.
YR 1985
MJ Beryllium-9-Target, Carbon-12-Target, Deuterium-Target, Helium-4-Target, Oxygen-16-Target, Angular-Distribution, Cluster-Model, Differential-Cross-Sections, Experimental-Data, Knock-out-Reactions, MeV-Range-100-1000, N-star-resonances, Neutrons, Photonuclear-Reactions, Pions-Minus, Proton-Spectra, Tagged-Photon-Method.
IN Tokyo Univ. (Japan). Inst. for Nuclear Study. 016818012 6269600.

12019 AU Bergere R.
TI Saclay Contribution to the Measurement of the Total Photonuclear Cross Section of Nuclei in the Delta-Resonance Region.
YR 1985
MJ Photonuclear-Reactions, Delta-1236-Resonances, Four-Pi-Counting, MeV-Rrange-100-1000, Monochromatic-Radiation, Reviews, Tagged-Photon-Method, Total-Cross-Sections.
NT Workshop on Perspectives in Nuclear Phisics at Intermediate Energies, Trieste, Italy, 25 Mar 1985.
IN CEA Centre d'Etudes Nucleaires de Saclay, Gif-sur-Yvette (France). 065220000 1396000.

12020 AU Tamas G., Berman B.L.

TI Positrons at CEBAF: Positron Working Group Report.
YR 1985
MJ Positron-Beams, Positrons, Annihilation, Gamma-Radiation, Particle-Production, Positron Reactions, Tagged-Photon-Method.
NT CEBAF Summer Workshop, Newport News, VA, USA, 3 JUN 1985.
IN CEA Centre d'Etudes Nucleaires de Saclay, Gif-sur-Yvette (France). Inst. de Recherche Fondamentale. 056220049 9100903.

12021 AU Kato S.
TI Recent Experimental Results at Tokyo Electron Synchlotron.
YR 1984
MJ Tokyo Synchlotron, Dibaryon-Resonances, Deuterium-Target, Photon-Proton-Interactions, Photons, Photonuclear-Reactions, Photoproduction, Pions, Research-Programs, Storage-Rings, Tagged-Photon-Method, X-Radiation.
IN Tokyo Univ. (Japan). Inst. for Nuclear Study. 016818012 6269600.

12022 AU Dowell D.H., Fineman B., Giordano G., Kistner O.S., Matone G.
TI Laser-Electron-Gamma-Source. Progress Report, July 1986.
YR 1986
MJ Gamma-Sources,Compton-Effect, Electron-Beams, Experiment-Planning, Gamma-Spectrometers, Lasers, Photonuclear-Reactions, Storage-Rings, Tagged-Photon-Method, Testing, Ultraviolet-Radiation.
IN Brookhaven National Lab., Upton, NY.*Department of Energy, Washington, DC. 004545000 0936000.

12023 AU Jenkins T.L., Frye G.M., Hall C.J., Owens A., Pendleton G.N.
TI Operating Characteristics of a Prototype High Energy Gamma-Ray Telescope.
YR 1985
MJ Gamma-Astronomy, Cosmic-Photons, Feasibility-Studies, MeV-Range-10-100, MeV-Range-100-1000, Resolution, Tagged-Photon-Method, Telescope-Counters.
NT 19. International Cosmic Ray Conference, La Jolla, CA, USA, 11 Aug 1985.
IN CEA Centre d'Etudes Nucleaires de Saclay, Gif-sur-Yvette (France). Inst. de Recherche Fondamentale. 056220049 9100903.

12024 AU Homma S., Kanazawa M., Koike M.
TI (Delta, p) Reaction on Light Nuclei in the Delta (1232) Resonance Region.
YR 1984
MJ Photonuclear-Reactions, Beryllium-9-Target, Carbon-12-Target, Delta-1236-Resonaces, Deuterium-Target, Differential-Cross-Sections, Energy-Spectra, Excitation-Functions, Experimental-Data, Helium-4-Target, Hydrogen-1-Target, Linear-Momentum, MeV-Range-100-1000, Oxygen-16-Target, Photoproduction, Pions, Proton-Spectra, Protons, Quasi-Free-Reactions, Tagged-Photon-Method.
IN Tokyo Univ. (Japan). Inst. for Nuclear Study. 016818012 6269600.

12025 AU Botton N.
TI Pion Photoproduction in Nuclei.
YR 1985
MJ Aluminium-28-Target, Carbon-12-Target, Deuterium-Target, Helium-3-Target, Helium-4-Target, Pions, Photoproduction, Cross-Sections, MeV-Range-100-1000, Pion-Detection, Tagged-Photon-Method.
NT International School for Intermediate Energy Nuclear Phisics, Veronna, Italy, 20 June 1985.
IN CEA Centre d'Etudes Nucleaires de Saclay, Gif-sur-Yvette (France). Inst. de Recherche Fondamentale. 056220049 9100903.

12026 AU Augit G., Bloch A., Botton N.
TI Near Threshold Neutral Pions Photoproduction in Hydrogen.
YR 1984
MJ Hidrogen-1-Target, Pions-Neutral, Photoproduction, Cross-Sections, Experimental-Data, MeV-Range-100-1000, Monochromatic-Radiation, Tagged-Photon-Method.
IN CE Centre d'Etudes Nucleires de Saclay, Gif-sur-Yvette (France). 056220000 1396000.

12027 AU Homma S., Kanazawa M., Koike M., Okuno H.
TI Photoemission of Two Nucleons from Be-9 in the Delta (1232) Resonance Region.
YR 1984

MJ Beryllium-9-Target, Angular-Correlation, Deuterions, Experimental-Data, Photoneutrons, Photonuclear-Reactions, Photoprotons, Quasi-Free-Reactions, Tagged-Photon-Method.
IN Tokyo Univ. (Japan). Inst. for Nuclear Study. 016818012 6269600.

12028 AU Bharda S., Appel J.A., Bartlett D.F., Denby B.H., Biel J.
TI Study of the Inclusive Lambda, Anti Lambda Production in Difractive Gamma-p Interactions.
YR 1985
MJ Antilambda-Particles, Lambda-Particles, Experimental-Data, Mass-Spectra, Photon-Proton-Interactions, Photoproduction, Tagged-Photon-Method.
NT 12 International Symposium on Lepton and Photon Interactions at High Energies, Kyoto, Japan, 19 Aug 1985.
IN Colorado Univ. at Boulder. *California Univ. Santa Barbara. *Carleton Univ., Ottawa, Ontario (Canada). *Fermi National Accelerator Lab., Batavia, IL. *National Research Council of Canada, Ottawa, Ontario. *Oklahoma Univ. Norman. *Department of Energy, Washington, DC. 068646000 1832000.

12029 AU Bhadra S., Appel J.A., Bartlett D.F., Denby B.H., Biel J.
TI Study of the Inclusive K-S, K-0 Production in Diffractive Gamma-p Interactions.
YR 1985
MJ Kaons-Neutral-Short-Lived, Energy-Spectra, Experimental-Data, Mass-Spectra, Photon-Proton-Interactions, Photoproduction, Tagged-Photon-Method.
NT 12. International Symposium on Lepton and Photon Interactions at High Energies, Kyoto, Japan, 19 Aug 1985.
IN Colorado Univ. at Boulder. *California Univ. Santa Barbara. *Carleton Univ., Ottawa, Ontario (Canada). *Fermi National Accelerator Lab., Batavia, IL. *National Research Council of Canada, Ottawa, Ontario. *Oklahoma Univ. Norman. *Department of Energy, Washington, DC. 068646000 1832000.

12030 AU Adler J.O., Hansen K., Lindgren K.R.
TI Magnetic Electron Spectrometer for Photonuclear Experimens at MAX.
YR 1984
MJ Magnetic-Spectrometers, Accelerators, Electron-Spectrometers, Energy-Resolution, Magnets, Tagged-Photon-Method, Time-Resolution, Trajectories.
IN Lund Univ. (Sweden). Fysiska Institutionen. 016503016 9860032.

VII. 3. Ladon

Ladon

12031 AU Grant J.A.
TI Geomorphic Evolution of Eastern Margaritifer Sinus, MARS. Part 1.
YR 1987
MJ Craters, Drainage, Geomorphology, Mapping, Mars-(Planet), Planetary-Geology, Structural-Properties-(Geology), Climatology, Evolution-(Development), Photointerpretation, Plates-(Tectonics), Terrain.
NT In Its Advances in Planetary Geology, 259p.
IN National Aeronautics and Space Administracion, Washington, DC. 011249000 NC452981.

12032 AU De Pascale M.P., Giordano G., Matone G., Picozza P., Babusci D.
TI Measurement of Deuteron Photodisintegration Asymmetry at Es (Gamma)=19.8, 29.0 and 38.6 MeV.
YR 1983
MJ Deuterium-Target, Photonuclear-Reactions, Angular-Distribution, Breakup-Reactions, Differential-Cross-Sections, Experimental-Data, MeV-Range-10-100.
IN Istituto Nazionale di Fizica Nucleare, Rome (Italy). 014256000 3383000.

12033 AU Caloi R., Casano L., Federici L., Frullani S., Giodano G.
TI Resonant Nuclear Scattering of Gamma-Rays as a Tool to Investigate the Ladon beam Characteristics.
YR 1978
MJ Carbon-12-Target, Photonuclear-Reactions, Energy, Gamma-Sources, Photon-Beams, Resonance, Spin-Orientation, Resonance-Scattering, Beam-Monitorning, Polarimeters.
IN Istituto Nazionale di Fizica Nucleare, Frascati (Italy). Lab. Nazionale di Frascati. 063941001 3376500.

12034 AU Sandorfi A.M., Levine M.J., Thorn C.E., Giordano G., Matone G.
TI Brookhaven Medium-Energy Gamma-Ray Project.
YR 1982.
MJ Gamma-Sources, N SL S, MeV-Range-100-1000, Polarized-Beams, Monochromatic-Radiation, Beam-Production.
NT Workshop on the Use of Electron Rings for Nuclear Physics Research, Lund, Sweden, 5 oct 1982.
IN Brookhaven National Lab. Upton, NY. Istituto Nazionale di Fizica Nucleare, Frascati (Italy). Lab. Nazionale di Frascati. Department of Energy, Washington, DC. 004545000 0936000.

VII. 4. Тормозное излучение — Bremsstrahlung

12035 AU Balk O.A., Hochhaeuser E.
TI Radiation-Induced Light Emission in Silica Core Fibers.
YR 1987
MJ Radiation-Dosage, Pulsed-Radiation, Silicon-Dioxide, Fibers, Fiber-Orientation, Light-Emission, Bremsstrahlung, Transmission-Loss, Wavelengths.
IN Messerschmitt-Boelkow-Blohm G.m.b.H., Munich (Germany, F. R.). Information und Documentation. 064776008.

12036 AU Hubbel J.H.
TI Industrial, Agricultural, and Medical Applications of Radiation Metrology: Current Status and Prospects for the 1990's.
YR 1987
MJ X-rays, Density, Gamma-rays, Gaudes, Metrology.
NT Final rept..
IN National Bureau of Standards (MML), Gaitersburg, MD. Ionizing Radiation Physics Div. 082042026.

12037 AU Ratnikov F.D.
TI Bremsstrahlung Correction in the Neutral Pions -> e+ + e- Decay.
YR 1986
MJ Pions-Neutral, Branching-Ratio, Corrections, Decay-Amplitudes, Electrons, Internal-Bremsstrahlung, Leptonic-Decay, Mass-Resolution, Particle-Widths, Photons, Positrons, Radiative-Decay.
IN Gosudarstvennyi Komitet Po Ispol'zovaniyu Atomnoj Energii SSSR, Moscow. Inst. Teoreticheskoy i Experimental'noy Fiziki. 011711002 2848000.

12038 AU Martins J.B.
TI (Gamma,n) Reaction in Nuclei of the 12 <= A <= 238 Interval in the Intermediate Energy Region (300 MeV-100 MeV).
YR 1974
MJ Photonuclear-Reactions, Bremsstrahlung, Comparative-Evaluations, Cross-Sections, Gamma-Cascades, Mass-Number, MeV-Range-100-1000, Monte-Carlo-Method, Nuclei.
NT Tese (Ph.D.), In Portuguese.
IN Centro Brasileiro de Pesquisas Fisicas, Rio de Janeiro. 006035000 1652000.

12039 AU Uckan N.A.
TI Synchrotron Radiation Losses in Engineering Test Reactors (ETRs).
YR 1987
MJ Tokamak-Type-Reactors, Synchrotron-Radiation, Beta-Ratio, Bremsstrahlung, Plasma-Density, Power-Losses, Reflectivity.
NT 12 Symposium on Fision Engineering, Monterey, CA, USA, 12 oct. 1987.
IN Oak Ridge National Lab., TN.*Department of Energy, Washington, DC. 021310000 4832000.

12040 AU Spence W.L.
TI Coherent Beamsstrahlung.
YR 1987
MJ Beam-Bunching, Beam-Beam-Interactions, Angular-Distribution, Bremsstrahlung, Coherent-Radiation, Energy-Losses, Phase-Space, Spectral-Density.
NT Particle Accelerator Conference, Vancouver, Canada, 13 May 1985.

IN Stanford Linear Accelerator Center, CA.*Department of Energy, Washington, DC. 014489000 5910000.

12041 AU Gibson T.A., Struve K.W., Lindgren R.A.
TI Dosimetry Measurement of X-Ray and Neutron Radiation Levels Near the Shuttle and End Beam Dump at the Advanced Test Accelerator: Beam Research Program.
YR 1987
MJ LLNL-Advanced-Test-Accelerator, Beam-Dumps, Calibration, Electron-Beams, Experimental-Data, Monte-Carlo-Method, Neutron-Dosimetry, Neutron-Fluence, Radiation-Hazards, Radiation-Monitoring, Thermoluminiscent-Dosemeters, X-Ray-Dosimetry.
IN Lawrence Liwermore National Lab., CA.*Department of Energy, Washington, DC. 068147000 9513035.

12042 AU Picard J.
TI Introduction to Feynman Graph Calculations.
YR 1986
MJ Feynman-Diagram, Bremsstranlung, Compton-Effect, Electron-Proton-Interactions, Muons-Minus, Particle-Decay, Perturbation-Theory, Photoproduction, Pions-Neutral, Pions-Plus, Quantum-Field-Theory, S-Matrix, Scattering.
NT In French
IN CEA Centre d'Etudes Nucleaires de Saclay, Gif-sur-Yvette (France). Inst. de Recherche Fondamentale. 056220049 9100903.

12043 AU Hawkes N.P.
TI U-238 Photonuclear Studies with 5-10 MeV Photons.
YR 1986
MJ Uranium-238-Target, Bremsstrahlung, Comparative-Evaluations, Cross-Sections, Energy-Dependence, Experimental-Data, Helios-Devices, MeV-Range-01-10, Multiplicity, Photofission, Photoneutrons, Photons, Photonuclear-Reactions, Prompt-Neutrons.
NT Thesis (Ph.D).
IN UKAEA Atomic Energy Research Establishment, Harwell (England). Nuclear Physics Div. *Birmingham Univ. (UK). Dept. of Physics. 065480001 9050194.

12044 AU Gorozhanin D.V., Ivanov B.I.
TI Relativistic Plasma Concentration Measuring by Bremsstrahlung.
YR 1986
MJ Hot-Plasma, Bremsstrahlung, Electron-Density, Electron-Ion-Collisions, Plasma-Diagnostics, Relativistic-Range.
NT In Russian.
IN Akademiya Nauk URSR, Kharkov. Fiziko-Tekhnicheskii Inst. 024955001 0398000.

12045 AU Darbaidze Y.Z., Merebashvili Z.V., Slepchenko L.A., Matveev V.A.
TI Gluon Fusion in Supersymmetric Quantum Chromodynamics.
YR 1986
MJ Gluons, Quarks, Axial-Simmetry, Bremsstrahlung, Cross-Sections, Factorization, Feynman-Diagram, Particle-Production, Perturbation-Theory, Quantum-Chromodynamics, Supersymmetry.
NT In RussianSubmitted to the Journal Phys. Lett. and to the Organizing Komittee of the European Conference on Computer Algebra, Leipzig, Jul 1987.
IN Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Theoretical Physics. 014897006 3476000.

12046 AU Boehm F.
TI Properties of Nuclei and Elementary Particles at Low and Intermediate Energies: Progress Report, May 1985-August 1986.
YR 1986
MJ High-Energy-Physics, Neutrino-Oscillation, Nuclear-Physics, Bremsstrahlung, Data-Acquisition-Systems, Data-Processing, Electron-Antineutrinos, Energy-Spectra, Experimental-Data, Goesgen-Reactor, Mixed-State, Neutrino-Detection, Neutron-Detection, Progress-Report, Research-Programs, Wire-Spark-Chambers.
IN California Inst. of Tech., Pasadena. Norman Bridge Lab. of Physics. *Department of Energy, Washington, DC. 005100035 9500319.

12047 AU Davier M., Jeanjean J., Nguyen Ngoc H.
TI Search for Axions in Electron Bremsstrahlung.

YR 1986
MJ Axions, Beam-Dumps, Bremsstrahlung, Decay, Electrons, Particle-Production, Positrons.
IN Paris-11 Univ., Orsay (France). Lab. de l'Accelerateur Lineaire. 055555004 9100585.

12048 AU Sheldon P.D.
TI Comparison of Three-Jet and Radiative Two-Jet Events in Electron-Positron Annihilation at 29 GeV.
YR 1986
MJ Electron-Positron-Interactions, Annihilation, Energy-Spectra, Experimental-Data, Fragmentation, Gluons, Jets, Monte-Carlo-Method, Multiple-Production, Multiplicity, PEP-Storage-Rings, Photons, Quantum-Chromodynamics, Quarks, Shower-Counters, String-Models, Transverse-Momentum.
NT Thesis (Ph.D.).
IN Lawrence Berkeley Lab., CA.*Department of Energy, Washington, DC. 086929000 9513034.

12049 AU Emmert G.A., Deng B.Q.
TI Ignition in Near Term D- sup 3 He Tokamak Reactors: Appendix B.
YR 1987
MJ Tokamak-Type-Reactors, Aspect-Ratio, Bremsstrahlung, Deuterium, Magnetic-Fields,Plasma-Confinement, Plasma-Heating, Power-Distribution, Q-Value, Scaling-Laws, Temperature-Dependence, Thermonuclear-Ignition.
NT 12 Symposium on Fusion Engineering, Monterey, CA, USA, 12 oct 1987.
IN Wisconsin Univ.-Madison. Fusion Technology Inst.*Department of Energy, Washington, DC. 048949188 9519103.

12050 AU Drake S.A., Brown A., Reimers D.
TI Radio Continuum Emission from the Ionized Stellar Winds of the Cool Supergiants in Zeta Aurigae-Like Systems.
YR 1987
MJ Cool-Stars, Radio-Emission, Stellar-Winds, Supergiant-Stars, Continuums, Ionization, Plasmas-(Physics), Bremsstrahlung, Eclipsing-Binary-Stars, Hot-Stars, Lyman-Spectra, Main-Sequence-Stars, Verylarge-Array-(Vla).
NT In Colorado Univ., Cambridge Workshop on Cool Stars, Stellar Systems and the Sun (5th), 1p.
IN ST Systems Corp., Lanham, MD.*National Aeronautics and Space Administration,Washington, DC. 090900000 SY764669.

12051 AU Amaldi U.
TI Superconducting Radiofrequency Complex for Molecular, Nuclear and Particle Physics.
YR 1987
MJ Superconducting-Cavity-Resonators, Free-Electron-Lasers, Accelerators, Beauty-Particles, Bremsstrahlung, Charm-Particles, Cost-Estimation, Electron-Beams, Electron-Positron-Interactions, Nuclear-Physics, RF-Systems, Tau-Particles, Toponium, Z-Neutral-Bosons.
NT Topical Seminar on Heavy Flavour Physics, San Miniato, Italy, 25 May 1987.
IN European Organisation for Nuclear Research, Geneva (Switzerland). 013577000 2431000.

12052 AU Foord M.E.
TI Visible Continuum Measurements on the Alcator C Tokamak: Changes in Particle Transport During Pellet Fuelled Discharges.
YR 1986
MJ Alcator-Device, Bremsstrahlung, Collisionless-Plasma, Electric-Conductivity, Electron-Density, Emission-Spectra, Impurities, Joule-Heating, Pellet-Injection, Plasma-Diagnostics, Radiation-Detectors, Soft-X-Radiation, Steady-State-Conditions, Transport-Theory.
IN Massachusetts Inst. of Tech., Cambridge. Plasma Fusion Center *Department of Energy, Washington, DC. 001450264 9510048.

12053 AU Boehm F.
TI Neutrino Oscillation Experiments.
YR 1985
MJ Neutrino-Oscillation, Bremsstrahlung, Eigenstates, Energy-Resolution, Experimental-Data, Mass, Neutrino-Detection, Positrons, Weinberg-Angle.
NT Cretan International Meeting on Subatomic Physics, Crete, Greece, 23 Jun 1985.
IN California Inst. of Tech., Pasadena.*Department of Energy, Washington, DC. 005100000 1065000.

12054 AU Akesson T., Albrow M., Burrows P.N., Cox T., Brion J.P.
TI Detection of Jets with Calorimeters at Future Accelerators.
YR 1987
MJ Shower-Counters, Beam-Beam-Interactions, Bremsstrahlung, Cost-Estimation, Electron-Positron-Interactions, Electron-Proton-Interactions, Jet-Model, Performance, Silicon.
NT Workshop on Physics at Future Accelerators, La Thuile, Italy, 7 Jan 1987.
IN European Organization for Nuclear Research, Geneva (Switzerland). 013577000 2431000.

12055 AU Dendy R.O., Lashmore-Davies C.N., Montes A.
TI Generalized Description of the Anomalous Doppler Resonance and the Stabilizing Role of Ion Dynamics.
YR 1987
MJ Doppler-Effect, Magnetohydrodynamic-Stability, Plasma-Resonance, Anomalies,High-Energy-Electrons, Ion-Motion, Bremsstrahlung, Landau-Damping, Particle-Motion.
NT Presented at the European Conference on Controlled Fusion and Plasma Heating (13th), Schliersee, Fed. Republic of Germany, 1986.
IN Instituto de Pesquisas Espaciais, Sao Jose dos Campos (Brazil). *National Aeronautics and Space Administration, Washington, DC. 058511000 10601891.

12056 AU Janot P.
TI Tests of Quantum Electrodynamic at the Alpha-3 and Alpha-4 Orders and Search of Excited Leptons with the CELLO Detector at PETRA.
YR 1987
MJ Electron-Positron-Interactions, Leptons, Annihilation, Composite-Models,Cross-Sections, Excited-States, GeV-Range-10-100, Monte-Carlo-Method, Perturbation-Theory, Photons, Quantum-Electrodynamics, Simulation, Testing.
NT These (D. es Sci.), In French.
IN Paris-11 Univ., Orsay (France). Lab. de l'Accelerateur Lineaire. 055555004 9100585.

12057 AU Johner J.
TI Simple Formula for the Bremsstrahlung Emissivity of Fusion Plasmas.
YR 1987
MJ Plasma, Bremsstrahlung, Asymptotic-Solutions, Born-Approximation, Electron-Temperature, Electron-Electron-Collisions, Electron-Ion-Collisions, Emissivity, Ion-Temperature, Relativisitic-Range, Series-Expansion.
IN Association Euroatom-CEA, Centre d'Etudes Nucleaires de Cadarache, Saint-Paul-lez-Durance (France). 088801000 9100935.

12058 AU Dupree S.A., Sanger H.M.
TI Natural Gamma Radiation from Long-Lived Actinide Isotopes.
YR 1987
MJ Actinide-Isotopes, I-Codes, Gamma-Radiation, Americium, Bremsstrahlung, DEC-Computers, Data-Base-Management, FORTRAN, Gamma-Spectra, Half-Life, Neptunium, Plutonium, Self-Shielding, Thorium, Uranium, Years-Living-Radioisotopes.
IN Sandia National Labs., Albuquerque, NM.*Department of Energy, Washington, DC. 068123000 9511100.

12059 AU Imhof W.L., Voss H.D., Mobilia J., Datlowe D.W., Gaines E.E.
TI Stimulated Emission of Energetic Particles (SEEP).
YR 1987
MJ Plasmas (Physics), Bremsstrahlung, Control, Electrons, Energetic-Properties, Energy, Ground-Level, Ground-Stations, High-Latitudes, Images, Injection, Ionosphere,Lightning, Low-Altitude, Particles, Precipitation, Pulses, Radiation-Belts, Satellite-Networks, Signals, Space-Sciences, Spectra, Stimulation (General), Transmitters, Very-Low-Frequency, Waves, X-rays.
NT Final rept. for Period Ending 30 Sep 87, Original Contains Color Plates: All DTIC and NTIS Reproductions will be in Black and White.
IN Locheed Missiles and Space Co., Inc., Palo Alto, CA. Palo Alto Research Lab. 054457001 210118.

12060 AU Vondrak R.R., Robinson R.M.
TI Spectrophotometric Remote Sensing of the Diffuse Aurora.
YR 1987
MJ Aurorae, Bremsstrahlung, Ionization, Spectrophotometry, Altitude,Artificial-Satellites, Data-Bases, Detectors, Diffusion, E-Region, Electrons, Incoherent-Scattering, Measure-

ment, Precipitation, Profiles, Remote-Detectors, Sources, Sunlight, X-rays.
NT Final rept. 1 Aug 79 - 30 Nov 87.
IN Lockheed Missiles and Space Co., Inc., Palo Alto, CA. Palo Alto Research Lab. 05445701 219118.

12061 AU Metag V., Simon R.S.
TI Technical Proposal for a Two-ARM Photon Spectrometer (TAPS).
YR 1987
MJ Gamma-Spectrometers, Analog-to-Digital-Converters, Barium-Fluorides, Bremsstrahlung, CAMAC-System, Calibration, Charged-Particle-Detection, Control-Systems, Counting-Circuits, Data-Acquisition, Data-Aquisition-Systems, Data-Processing, Effective-Mass, Energy-Spectra, Eta-Mesons, Gamma-Detection, Gamma-Spectra, Mass-Spectra, Neutron-Detection, Particle-Discrimination, Photons, Pions-Neutral, Plastic-Scintillation-Detectors, Pulse-Discriminators, Pulse-Techniques, Radiative-Decay, Relativistic-Range, Remote-Control, Solid-Scintillation-Detectors, Time-of-Flight-Method, Trigger-Circuits.
IN Gesellschaft fuer Schwerionenforschung m.b.H., Darmstadt (Germany, F.R.). 071703000. 9200078.

12062 AU Lippert T., Becker U., Gruen N., Scheid W.
TI Lepton-Pair Production by Bremsstrahlung in Central Relativistic Heavy Ion Collisions.
YR 1987
MJ Pair-Production, Relativistic-Range, Perturbation-Theory, Muons-Plus, Positrons, Electrons, Tau-Particles, Muons-Minus, Deep-Inelastic-Heavy-Ion-Reactions, Bremsstrahlung, Photoproduction, Uranium-238-Target, Uranium-238-Reactions, Theoretical-Data, Effective-Mass, Mass-Spectra, Transverse-Momentum, Inclusive-Interactions.
IN Gesellschaft fuer Schwerionenforschung m.b.H., Darmstadt (Germany, F.R.). 071703000.

12063 AU Yamaguchi N., Cho T., Kondoh T., Hirata M., Miyoshi S.
TI Hot Electron Diagnostics Using X-Ray Imaging on Gamma10.
YR 1988
MJ Hot-Electrons, Plasma-Diagnostics, Tandem-Mirrors, X-Ray-Imagery, Electron-Distribution, Electron-Energy, Thermal-Barriers-(Plasma-Control), Bremsstrahlung, Microchannel-Plates, Pinhole-Cameras, X-Ray-Spectroscopy.
NT In Nagoya Univ., Summary Report on the Japan-US Workshop on the Assessment of Spectroscopic Data for Temperature and Density Measurements p 19.
IN Tsukuba Univ. (Japan). Plasma Research Center.*National Aeronautics and Space Administration, Washington, DC. 055692010 T6993336.

12064 AU Ida K.
TI Measurements of Z-Eff Profile with a Visible Bremsstrahlung Continuum Detector Array.
YR 1988
MJ Plasma-Density, Plasma-Heating, Tokamak-Devices, Bremssirahlung, Charge-Distribution, Density-Measurement, Optical-Measurement, Plasma-Diagnostics, Beam-Injection, Density-distribution, Electron-Energy, Impurities, Ion-Cyclotron-Radiation, Neutral-Beams, Plasma-Temperature, Radio-Frequency-Heating, Resistance-Heating.
NT In Its Summary Report on the Japan-US Workshop on the Assessment of Spectroscopic Data for Temperature and Density Measurements p 18.
IN Nagoya Univ. (Japan). Inst. of Plasma Physics.*National Aeronautics and Space Administration, Washington, DC. 015891002 NA368417.

12065 AU Sasao M.
TI Spectroscopic Data Relevant to Alpha Particle Diagnostics.
YR 1988
MJ Alpha-Particles, Electron-Transfer, Plasma-Diagnostics, Spectroscopy, Bremsstrahlung, Cross-Sections, Doppler-Effect, Velocity-Distribution.
NT In Its Summary Report on the Japan-US Workshop on the Assessment of Spectroscopic Data for Temperature and Density Measurement p 16.
IN Nagoya Univ. (Japan). Inst. of Plasma Physics.*National Aeronautics and Space Administration, Washington, DC. 015891002 NA368417.

12066 AU SanMartin J.R.
TI Coronal Fluid-Dynamics in Laser Fusion.
YR 1988
MJ Fluid-Dynamics, Laser-Fusion, Irradiation, Laser-Targets, Mathematical-Models, Maxwell-equation, Plasmas-(Physics), Absorptivity, Bremsstrahlung, Electron-Density-(Concentra-

tion), Electron-Energy, Ion-Temperature, Refraction.
NT In Nagoya Univ.,Proceeding of Symposium on Physics of Target Implosion and Putsed Power Techniques p 198-212.
IN Universidad Politecnica de Madrid (Spain). Escuela Tecnica Superior de Ingenieros Aeronauticos.*National Aeronautics and Space Administration, Washington, DC. 044332003 PZ435035.

12067 AU Estes G.P., Schrandt R.G., Kriese J.T.
TI Automated MCNP Photon Source Generation for Arbitrary Configurations of Radioactive Materials and First-Principles Calculations of Photon Detector Responses.
YR 1988
MJ Radioisotopes, Spectrometers, Branching-Ratio, Bremsstrahlung, Detection,Energy-Resolution, Line-Broadening, M-Codes, Monte-Carlo-Method, Photons, Radiative-Decay, Spectral-Response.
IN Los Alamos National Lab., NM.*Department of Energy, Washington, DC. 072735000 9512470.

12068 AU Chen P.
TI Introduction to Breamsstrahlung and Disruption.
YR 1987
MJ Beam-Beam-Interactions, Bremsstrahlung, Beam-Luminosity, Electric-Fields, Electron-Positron-Interactions, Fluctuation, Gaussian-Processes, Magnetic-Fields, Quantization, Scattering, Synchrotron-Radiation, Trajectories.
NT Joint US/CERN School on Particle Accelerators: Frontiers of Particle Beams, South Padre Island, TX, USA, 23 Oct 1986.
IN Stanford Linear Accelerator Center, CA.*Department of Energy, Washington, DC. 014489000 5910000.

12069 AU Chen P.
TI Quantum Beamstrahlung from Gaussian Bunches.
YR 1987
MJ Beam-Bunching, Beam-Beam-Interactions, Analytical-Solution, Bremsstrahlung, Electron-Positron-Interactions, Energy-Losses, Magnetic-Fields, Mathematical-Models, Quantization, Radiation-Flux.
NT Workshop on New Developments in Particle Acceleration Techniques, Orsay, France, 29 Jun 1987.
IN Stanford Linear Acceleretor Center, CA.*Department of Energy, Washington, DC. 014489000 5910000.

12070 AU Kaufmann P., Correia E., Costa J.E.R., Vaz A.M.Z.
TI Synchrotron/Inverse Compton Interpretation of a Solar Burst Producing Fast Pulses at Lambda < 3 mm and Hard X-Rays.
YR 1985
MJ Solar-Radio-Bursts, Compton-Effect, Electrons, Experimental-Data, Fluh-Density, GHz-Range-01-100, Hard-X-Radiation, Radiation-Flux, Relativistic-Range, Synchrotron-Radiation, Time-Resolution.
IN Instituto de Pesquisas Espaciais, Sao Jose dos Campos (Brazil). 058511000 3272500.

12071 AU Barletta W.A.
TI Efficiopcy of a Bremsstrahlung Interrogator: Beam Research Program.
YR 1987
MJ Gamma-Sources, Bremsstrahlung, Electron-Beams, Mass, Monte-Carlo-Method, Small-Angle-Scattering, Uses.
IN Lawrence Livermore National Lab., CA.*Department of Energy, Washington, DC. 068147000 9513035.

12072 AU Ward B.F.L.
TI Renormalization Group Improved Yennie-Frautschi-Suura Theory for Z Physics.
YR 1987
MJ Z-Neutral-Bosons, Analytical-Solution, Bremsstrahlung, Feynman-Diagram, Gauge-Invariance, Infrared-Divergences, Monte-Carlo-Method, Particle-Models, Renormalization, Supersymmetry, Virtual-Particles.
NT 27 Cracow School of Theoretical Physics, Zakopane, Poland, 3 Jun 1987.
IN Tennessee Univ., Knoxville. Dept. of Physics and Astronomy.*Stanford Linear Accelerator Center, Menlo Park, CA.*Department of Energy, Washington, DC. 014786069 9503059.

12073 AU Wang C.L., Pocha M.D., Morse J.D., Singh M.S., Davis B.A.
TI Ultrafast Photoconductor Radiation Detectors.
YR 1987
MJ Semiconductor-Detectors, Carrier-Mobility, Chromium, Experimental-Data, Fabrication, Gallium-Arsenides, Indium-Phosphides, Iron, Irradiation, Performance-Testing, Photoconductors, Sensitivity, Timing-Properties.
NT 31 SPIE Annual International Technical Symposium on Optical and Optoelectronic Applied Science and Engineering, San Diego, CA, USA, 16 Aug 1987.
IN Lawrence Livermore National Lab., CA.*EG and G, Inc., Las Vegas, NV. *Department of Energy, Washington, DC. 068147000 9513035.

12074 AU Palmer R.B.
TI Interdependence of Parameters for TeV Linear Colliders.
YR 1987
MJ Stanford-Linear-Collider, Acceleration, Beam-Bunching, Beam-Emittance, Beam-Luminosity, Beam-Beam-Interactions, Bremsstrahlung, Cost-Estimation, Design, Focusing, Landau-Damping, Parametric-Analysis, Power-Supplies, RF-Systems, TeV-Range.
NT Workshop on New Developments in Particle Acceleration Techniques, Orsay, France, 29 Jun 1987
IN Stanford Linear Accelerator Center, CA.*Brookhaven National Lab., Upton, NY.*Department of Energy, Washington, DC. 014489000 5910000.

12075 AU Meyer C.A.
TI Measurement of the Magnetic Dipole Moment of the Delta++ (1232) from the Bremsstrahlung Process Pion+p Yields Pion+p+Gamma.
YR 1987
MJ N-star-Resonances, Pion-Plus-Proton-Interactions, Magnetic-Dipole-Moments, Bremsstrahlung, Differential-Cross-Sections, Experimental-Data, Hodoscopes, MeV-Range-100-1000, Monte-Carlo-Method, Multiwire-Proportional-Chambers, Spectrometers.
NT Ph.D. Thesis.
IN Lawrence Berkeley Lab., CA.*Department of Energy,Washington, DC. 086929000 9513034.

12076 AU McClenahan C.R., Hedemann M.A., Beezhold W., Counts N.E., Lynch T.P.
TI Generating Soft X-Ray Spectra Using the SPEED Pentaxial Diode.
YR 1987
MJ Nuclear-Weapons, X-Ray-Sources, Design, Experimental-Data, High-Voltage-Pulse-Generators, Internal-Electromagnetic-Pulses, Operation, Simulation, Soft-X-Radiation.
IN Sandia National Labs., Albuquerque, NM.*Department of Energy, Washington, DC. 068123000 9511100.

12077 AU Wilson P.B.
TI Linear Collider Approach to a B Anti B Factory.
YR 1987
MJ B-Mesons, Meson-Factories, Beam-Dynamics, Beam-Production, Beam-Beam-Interactions, Bremsstrahlung, Colliding-Beams, Design.
NT Workshop on a Linear-Collider B anti B Factory, Los Angeles, CA, USA, 26 Jan 1987.
IN Stanford Linear Accelerator Center, CA.*Department of Energy, Washington, DC. 014489000 5910000.

12078 AU Baldwin G.T., Craven R.E.
TI Filter-Fluorescer Measurement of Low-Voltage Simulator X-Ray Energy Spectra.
YR 1987
MJ X-Ray-Spectrometers, Background-Radiation, Experimental-Data, Internal-Electromagnetic-Pulses, Measuring-Methods, Nuclear-Weapons, Performance-Testing, Response-Functions, X-Ray-Sources.
NT Simulation Fidelity Workshop, White Oak, MD, USA, 27 Jan 1987.
IN Sandia National Labs., Albuquerque, NM.*Department of Energy, Washington, DC. 068123000 9511100.

12079 AU Bambade P.S.
TI Beam Dynamics in the SCL (Stanford Linear Collider) Final Focus System.
YR 1987
MJ Stanford-Linear-Collider, Beam-Dynamics, Beam-Luminosity, Beam-Optics, Beam-Beam-Interactions, Bremsstrahlung, Focusing, Optimization, Tuning.
NT Particle Accelerator Conference, Washington, DC, USA, 16 Mar 1987.

IN Stanford Linear Accelerator Center, CA.*Department of Energy, Washington, DC. 014489000 5910000.

12080 AU Chen P.
TI Nature of Beamstrahlung.
YR 1987
MJ Colliding-Beams, Bremsstrahlung, Beam-Bunching, Beam-Dynamics, Beam-Beam-Interactions, Synchrotron-Radiation.
NT Workshop on Physics at Future Accelerators, LaThuile, Italy, 7 Jan 1987.
IN Stanford Linear Accelerator Center, CA.*Department of Energy, Washington, DC. 014489000 5910000.

12081 AU Johnson D.L., Ramirez J.J., Huddle C.W., Denison G.J., Franklin T.L.
TI Hermes-III Prototype Cavity Tests.
YR 1987
MJ Accelerators, Cavity-Resonators, Design, High-Voltage-Pulse-Generators,Marx-Generators, Mathematical-Models, Performance-Testing, Power-Transmission-Lines.
NT Institute of Electrical and Electronic Engineers Pulsed Power Conference, Arlington,VA, USA, 29 Jun 1987.
IN Sandia National Labs., Albuquerque, NM.*Department of Energy, Washington, DC. 068123000 9511100.

12082 AU Jayanthi U.B.
TI X- and Gamma-ray Background Observations in Antarctic.
YR 1988
MJ Auroras, Bremsstrahlung, Gamma-Rays, X-Rays, Balloon-Borne-Instruments, Electron-Precipitation, Polar-Regions.
NT Presented at the 1st Seminario Sobre Ciencias Atmosfericas e Espaciais do Programa Antartico Brasileiro, Sao Jose dos Campos, Brasil.
IN Instituto de Pesquisas Espaciais, Sao Jose dos Campos (Brazil). *National Aeronautics and Space Administration, Washington, DC. 058511000 10601891.

12083 TI Electron Beam Ion Trap: It Opens a New Class of Atomic Physics Measurements.
YR 1988
MJ X-ray-spectroscopy.
NT NTIS Tech Note.
IN Department of Energy, Washington, DC. 052661000.

12084 AU Sundermann D.
TI Photofission of Polarized Deuterons. Measurements of Angular Distributions at EG=450 and 650 MeV.
YR 1987
MJ Deuterium-Target, Photonuclear-Reactions, Breakup-Reactions, Energy-Dependence, Experimental-Data, MeV-Range-100-1000, Photoneutrons, Photoprotons, Polarization-Assymetry-Ratio, Polarized-Targets.
NT Diss.(Dr.rer.nat.), In German.
IN Bonn Univ. (Germany, F.R.). Physikalisches Inst. 004261006 0848000.

12085 AU Maettig P.
TI QCD (Quantum Chromodynamics) Test at e+ e- and pp Colliders.
YR 1988
MJ Electron-Positron-Interactions, Proton-Proton-Interactions, Quantum-Chromodynamics, Coupling-Constants, Cross-Sections, Fragmentation, Gluons, Jet-Model, Multiplicity, Partons, Quark-Gluon-Interactions, Strong-Interactions, Testing.
NT Lake Louise Winter Institute on Quantum Chromodynamics: Theory and Experiment, Lake Louise, Canada, 6 Mar 1988.
IN European Organization for Nuclear Research, Geneva (Switzerland). 013577000 2431000.

12086 AU Page S.A., Ramsay W.D., Oers W.T.H.
TI Proceedings of the Symposium/Workshop on Parity Violation in Hadronic Systems.
YR 1987
MJ P-Invariance, Meetings, Beryllium-9-Target, Bremsstrahlung, Cross-Sections, Deuterium, Electron-Reactions, Hadrons, Ionization-Chambers, Leading-Abstract, Neutron-Beams, Particle-Decay, Polarization, Proton-Proton-Interactions, Quarks, Scattering, Symmetry-Breaking, Tantalum, Weak-Interactions.

NT Workshop on Parity Violations in Hadronic Systems, Vancouver, UK, 28 May 1987.
IN British Columbia Univ., Vancouver. TRIUMF Facility.*Department of Energy,Washington,DC. 004468036 6322046.

12087 AU Mnich J.
TI Test of Electroweak Interaction in the Reaction e+ e- -> mu+ mu-.
YR 1987
MJ Electron-Positron-Interactions, Weinberg-Angle, Z-Neutral-Bosons, Angular-Distribution, Annihilation, Asymmetry, Axial-Vector-Currents, Bremsstrahlung, Coupling-Constants, Differential-Cross-Sections, Electromagnetic-Interactions, Energy-Dependence, Excitation-Functions, Experimental-Data, GeV-Range-10-100, Integral-Cross-Sections, Muons-Minus, Muons-Plus, Neutral-Current-Interactions, Pair-Production, Radiative-Corrections, Rest-Mass, Vector-Currents, Weak-Interactions, Weak-Neutral-Currents, Weinberg-Lepton-Model.
NT Diss.(Dr.rer.nat.), In German.
IN Technische Hochschule Aachen (Germany, F.R.). Lehrstuhl fuer Experimentalphysik 3B und 3. Physikalisches Inst. 009121033 6088241.

12088 AU Zupancic C.
TI Physical and Statistical Foundation of TeV Muon Spectroscopy.
YR 1985
MJ Meson-Spectroscopy, Algorithms, Bremsstrahlung, Design, Differential-Cross-Sections, Electron-Temperature, Energy-Losses, Energy-Resolution, Matrix-Elements, Muons, Scattering, Spectrometers, Statistical-Models, Stopping-Power, Meetings.
NT Workshop on Muon Detection at SSC/LHC, Madison, WI, USA, 4 Apr 1985.
IN European Organization for Nuclear Research, Geneva (Switzerland). 013577000 2431000.

12089 AU Hedberg V.
TI Production of Positrons with Low Transverse Momentum and Low-Mass Electron-Positron Pairs in Proton-Proton Collisions at a Center-of-Mass Energy of 63 GeV.
YR 1987
MJ Proton-Proton-Interactions, Pair-Production, Positrons, Branching-Ratio, Charged-Particles, Differential-Cross-Sections, Effective-Mass, Electrons, Energy-Dependence, Experimental-Data, GeV-Range-10-100, Helicity, Inclusive-Interactions, Mass-Spectra, Multiple-Production, Multiplicity, Pions, Pions-Minus, Pions-Plus, Transverse-Momentum.
NT Diss.
IN Lund Univ. (Sweden). Fysiska Institutionen. 016503016 9860032.

12090 AU Dewitt H., Rogers F., Iglesias C.
TI Bremsstrahlung from High Z Impurities in Hot Plasmas.
YR 1988
MJ Hot-Plasma, Bremsstrahlung, Energy-Levels, Impurities, Matrix-Elements, Poisson-Equation, Wave-Functions, Xenon-Ions, Yukawa-Potential.
IN Lawrence Livermore National Lab., CA.*Department of Energy, Washington, DC. 068147000 9513035.

12091 AU Sakamoto Y., Tanaka S., Harima Y.
TI Data Library of Gamma-Ray Buildup Factors for Point Isotropic Source. Molybdenum, Tin, Lanthanum, Gadolinium, Tungsten, Lead and Uranium.
YR 1988
MJ Buildup, Gamma-Radiation, Compiled-Data, Gadolinium, Lanthanum, Lead, Molybdenum, P-Codes, Radiation-Doses, Theoretical-Data, Tin, Tungsten, Uranium.
IN Japan Atomic Energy Research Inst., Tokyo. 014802000 3413000.

12092 AU Cavenago M., Tajima T.
TI Bremsstrahlung from Channeled Charged Particles: Application to a Crystal X-Ray Accelerator.
YR 1987
MJ Crystal-Lattices, Acceleration, Bremsstrahlung, Channeling, Charged-Particles, Equations-of-Motion, Mean-Free-Path, X-Ray-Sources.
IN Texas Univ. at Austin. Inst. for Fusion Studies.*Department of Energy, Washington, DC. 043127103 9512957.

12093 AU Sanford T.W.L., Poukey J.W., Halbleib J.A., Pate R.C., Crowder G.W.
TI Indented-Anode Diode for HERMES-III.

YR 1987
MJ Linear-Accelerators, Anodes, Beam-Profiles, Bremsstrahlung, Design, Dose-Rates, Electron-Beams, Impedance, Irradiation, Optimization, Semiconductor-Diodes.
NT Institute of Electrical and Electronic Engineers Pulsed Power Conference, Arlington,VA, USA, 29 Jun 1987.
IN Sandia National Labs., Albuquerque, NM.*Pulse Sciences, Inc., San Leandro, CA. *Department of Energy, Washington, DC. 068123000 9511100.

12094 AU Corley J.P., Johnson D.L., Weber G.J., Denison G.J., Pankuch P.J.
TI Development and Testing of the HERMES-III Pulse Forming Transmission Lines.
YR 1987
MJ High-Voltage-Pulse-Generators, Power-Transmission-Lines, Coaxial-Cables, Electrodes, Electron-Beams, Experimental-Data, Performance-Testing, Switches, Wave-Forms.
NT Institute of Electrical and Electronic Engineers Pulsed Power Conference, Arlington,VA, USA, 29 Jun 1987.
IN Sandia National Labs., Albuquerque, NM.*Department of Energy, Washington, DC. 068123000

VII. 5. Мультипольные резонансы — Multipole Resonances

12095 AU Hussein M.S.
TI Direct Vs Statistical Decay of Nuclear Giant Multipole Resonances.
YR 1986
MJ Giant-Resonance-Model, Comparative-Evaluations, Decay, Multipoles.
IN Sao Paulo Univ. (Brazil). Inst. de Fisica. 014621030 5662400.

12096 AU Fuchs K.D.
TI Study of the Giant Multipole Resonance Decay in Zr-90 by Means of Particle Angular Correlation Measurements.
YR 1984
MJ Zirconium-90, Zirconium-90-Target, Giant-Resonance, Alpha-Reactions, Branching-Ratio, Coincidence-Methods, Cross-Sections, Decay, Inelastic-Scattering, Knock-Out-Reactions.
NT Thesis, In German
IN Erlangen-Nuernberg Univ., Erlangen (Germany, F.R.). Naturwissenschaftliche Fakultaet 1 - Mathematik und Physik. 013445003 2396400.

12097 AU Hussein M.S.
TI Hybrid Model for the Decay of Nuclear Giant Resonances.
YR 1986
MJ Lead-208, Giant-Resonance, Hauser-Feshbach-Theory, Mathematical-Models, Mixing-Ratio, Multipole-Transitions, Random-Phase-Approximation.
IN Sao Paulo Univ. (Brazil). Inst. de Fisica. 014621030 5662400.

12098 AU Dias H., Arruda-Neto J.D.T., Hussein M.S., Carlson B.V.
TI Fission Decay Properties of Nuclear Giant Multipole Resonances.
YR 1986
MJ Uranium-236, EnergyDependence, Fission, Fission-Barrier, Giant-Resonance-Model,Hauser-Feshbach-Theory, Multipoles, Nuclear-Properties.
IN Sao Paulo Univ. (Brazil). Inst. de Fisica. 014621030 5662400.

12099 AU Velchev C., Ponomarev V.Y.
TI Probability of Two-Phonon State Excitation and Their Contribution into Formation of Giant Multipole Resonances.
YR 1986
MJ Zirconium-90, Giant-Resonance, Energy-Levels, Matrix-Elements, Multipole-Transitions, Probability, Quasiparticle-Phonon-Model, Wave-Functions.
NT In Russian.
IN Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Theoretical Physics. 014897006 3476000.

12100 AU Bracco A., Beene J.R., Bertrand F.E., Halbert M.L., Auble R.L.
TI Neutron Decay of Giant Resrnances in Pb-208.
YR 1986
MJ Lead-208-Target, Giant-Resonance, Branching-Ratio, Experimental-Data, Gamma-Radiation,

Hauser-Feshbach-Theory, Inelastic-Scattering, MeV-Range-01-10, MeV-Range-10-100. Neutron-Emission, Oxygen-17-Reactions.
NT International School of Heavy Ion Physics Course on the Response of Nuclei under Extreme Conditions, Erice, Italy, 12 Oct 1986.
IN Oak Ridge National Lab., TN.*Milan Univ. (Italy). Dipartimento di Fisica.*Department of Energy, Washington, DC. 021310000 4832000.

12101 AU Tauhata L.
TI Giant Resonance of Electrical Multipole from Droplet Model.
YR 1984
MJ Deformed-Nuclei, Multipolarity, Giant-Resonance-Model, Comparative-Evaluations, Compiled-Data, Coupling, Droplet-Model, Isovectors, Mass-Formulae, Oscillation-Modes, Photonuclear-Reactions.
NT Tese (Ph.D.), In Portuguese.
IN Centro Brasileiro de Pesquisas Fisicas, Rio de Janeiro. 00605000 1652000.

12102 AU Van-Bibber K., Yearian M.R.
TI Study of Transfer Reactions and Inelastic Scattering to Giant Multipole Resonances Using a 4 pi Scintillator Array (The Plastic Box): Final Report.
YR 1986
MJ Scintillation-Counters, Uranium-238-Target, Giant-Resonance, Alpha-Reactions,Branching-Ratio, Electron-Reactions, Testing.
IN Stanford Univ., CA. High Energy Physics Lab. *Department of Energy, Washington, DC. 009225064 5928000.

12103 AU Dias H., Hussein M.S., Adhikari S.K.
TI Collective Doorways and Statistical Doorways: The Decay Properties of Giant Multipole Resonances.
YR 1985
MJ Giant-Resonance, Compound-Nuclei, Configuration-Mixing, Decay, Hauser-Feshbach-Theory, Multipoles, Statistics, Theoretical-Data, Total-Cross-Sections.
IN Sao Paulo Univ. (Brazil). Inst. de Fisica.*Pernambuco Univ., Recife (Brazil)). Dept. de Fizica. 014621030 5662400.

12104 TI RCNP (Research Center for Nuclear Physics, Osaka University, Japan) Annual Report 1983. April 1, 1983-March 31, 1984.
YR 1984
MJ Nuclear-Physics, Alpha-Reactions, Beta-Decay, Capture, Cyclotrons, De-Excitation, Deuteron-Reactions, Excited-States, Giant-Resonance, Heavy-Ion-Reactions, Meson-Reactions, Nuclear-Theory, Polarized-Beams, Proton-Reactions, Research-Programs,Scattering, Spectrometers, Transfer-Reactions.
IN Osaka Univ., Suita (Japan). Research Center for Nuclear Physics. 071095002 9309030.

12105 TI RCNP (Research Center for Nuclear Physics, Japan) Annual Report 1982. April 1, 1982 - March 31, 1983.
YR 1983
MJ Nuclear-Physics, Alpha-Reactions, Beta-Decay, Breakup-Reactions, Capture, Cyclotrons, De-Excitation, Deuteron-Reactions, Elastic-Scattering, Giant-Resonance, Heavy-Ion-Reactions, Helium-3-Reactions, Inelastic-Scattering, M1-Transitions, Nuclear-Deformation, Nuclear-Theory, Polarized-Beams, Proton-Reactions, Research-Programs, Spectrometers.
IN Osaka Univ., Suita (Japan). Research Center for Nuclear Physics. 071095002 9309030.

12106 AU Fujita Y., Hosono K., Yamazaki T.
TI RCNP (Research Center for Nuclear Physics, Japan) Annual Report, 1981: April 1981 - March 1982.
YR 1982
MJ Nuclear-Physics, Beta-Decay, Breakup-Reactions, Cyclotrons, De-Excitation, Deuteron-Reactions, Excited-States, Giant-Resonance, Heavy-Ion-Reactions, Helium-3, Magnetic-Spectrometers, Nuclear-Chemistry, Nuclear-Theory, Polarized-Beams, Proton-Reactions, Research-Programs, Spin, Transfer-Reactions.
IN Osaka Univ., Suita (Japan). Research Center for Nuclear Physics. 071095002 9309030.

12107 AU Kihm T.
TI (e, e'c) Coincidence Experiments on the Decay of the Giant Resonances in Si-28.
YR 1985

MJ Electron-Reactions, Giant-Resonance, Silicon-28, Silicon-28-Target, Alpha-Decay, Alpha-Particles, Alpha-Spectra, Aluminium-27, Angular-Correlation, Coulomb-Excitation, Differential-Cross-Sections, E0-Transitions, E1-Transitions, E2-Transitions,Electromagnetic-Form-Factors, Electron-Spectra, Electrons, Energy-Spectra, Experimental-Data,Inelastic-Scattering, Knock-Out-Reactions, Level-Widths, Magnesium-24, MeV-Range-100-1000,Proton-Emission-Decay, Proton-Spectra, Protons, Quasi-Elastic-Scattering, Rotational-States, Strength-Functions.
NT Diss. (Dr.rer.nat.), In German.
IN Heidelberg Univ. (Germany, F.R.). Naturwissenschaftliche Gesamtfakultaet. 012073014 9200426.

12108 AU Caurier E., Drozdz S., Plossajczak M.
TI Isoscalar Giant Vibrations in the Quantized Time-Dependent Deformed Oscillator Model.
YR 1984
MJ Giant-Resonance, Deformed-Nuclei, Gauge-Invariance, Generator-Coordinate-Method, Harmonic-Oscillator-Models, MeV-Range-01-10, MeV-Range-10-100, Oscillation-Modes, Quantization, Theoretical-Data, Time-Dependence, Trajectories.
IN Strasbourg-1 Univ. (France). Centre de Recherches Nucleaires. 065420002 9100582.

12109 AU Hussein M.S., Franzin V.L.M., Franzin R., Baltz A.J.
TI Small Effects in Sub-Barrier Heavy-Ion Elastic Scattering.
YR 1983
MJ Heavy-Ion-Reactions, Angular-Distribution, Comparative-Evaluations, Corrections, Coulomb-Excitation, Coupled-Channel-Theory, Differential-Cross-Sections, Elastic-Scattering, Giant-Resonance, Octupoles, Optical-Models, Potentials, Quadrupoles, Relativistic-Range, Spin-Orietation, Theoretical-Data.
IN Sao Paulo Univ. (Brazil). Inst. de Fisica. 014621030 5662400.

VII. 6. Фотонные сечения — Photon Cross Sections

12110 AU Berger M.J., Hubbell J.H.
TI XCOM Photon Cross Sections on a Personal Computer.
YR 1987
MJ Photon-Cross-Sections, Scattering, Computation, Pair-production, X-rays, Gamma-Rays, Bremsstrahlung.
NT Sponsored by Department of Energy, Washington, DC. Office of Health and Environmental Research.
IN National Bureau of Standards, Gaithersburg, MD.*Department of Energy, Washington, DC. Office of Health and Environmental Research. 081914000.

12111 AU Saloman E.B., Hubbell J.H.
TI Critical Analysis of Soft X-ray Cross Section Data.
YR 1987
MJ Photon-Cross-Sections, X-Rays, Reprints.
NT Final Rept.
IN National Bureau of Standards (NML), Gaithersburg, MD. Radiation Physics Div. 082042021.

12112 AU Hubbell J.H., Gerstenberg H.M., Saloman E.B.
TI Bibliography of Photon Total Cross Section (Attenuation Coefficient) Measurements 10 eV to 13.5 GeV.
YR 1986
MJ Photon-Cross-Sections, Far-Ultraviolet-Radiation, X-Rays, Gamma-Rays, Bibliographies, Bremsstrahlung, Attenuation.
NT Sponsored by Department of Energy, Washington, DC., and Office of Naval Research, Arlington, VA.
IN National Bureau of Standards (NML), Gaithersburg,MD. Office of Standard Reference 021. Data.*Department of Energy, Washington, DC.*Office of Naval Research, Arlington, VA. 082042011.

12113 AU Seltzer S.M., Berger M.J.
TI Bremsstrahlung Spectra from Electron Interactions with Screened Atomic Nuclei and Orbital Electrons.
YR 1985

MJ Photon-Cross-Sections, Bremsstrahlung, Electron-Scattering, Reprints.
NT Final Rept., Sponsored by Department of Energy, Washington, DC., and Office of Naval Research, Arlington, VA.
IN National Bureau of Standards (NML), Gaithersburg, MD. Radiation Physics Div.*Department of Energy, Washington, DC.*Office of Naval Research, Arlington, VA. 082042021.

12114 AU Hubbell J.H.
TI Photon Cross Sections 1 keV to 100 GeV: Current NBS (National Bureau of Standards) Compilation.
YR 1984
MJ Photon-Cross-Sections, Gamma-Rays, X-Rays, Attenuation, Reprints.
NT Final Rept.
IN National Bureau of Standards (NML), Gaithersburg, MD. Radiation Physics Div. 082042021.

12115 AU Hayward E., Ziegler B.
TI Photon Scattering From C-12 and Pb-208 in the Delta-Region.
YR 1984
MJ Photon-Cross-Sections, Carbon-12, Scattering-Cross-Sections, Dispersion-Relations, Bremsstrahlung, Inelastic-Scattering, Reprints.
NT Final Rept. Prepared in Correlation with Max-Planck-Inst. Fuer Chemie, Mainz (Germany, F.R.).
IN National Bureau of Standards, Washington, DC. Max-Planck-Inst. Fuer Chemie, Mainz (Germany, F.R.). 004692000.

12116 AU Stanley J.H.
TI Backscatter Imaging Tomography.
YR 1982
MJ Nondestructive-Tests, Backscattering, Feasibility, Compton-Effect, Compton-Cross-Sections, Photon-Cross-Sections, Radiation-Measuring-Instruments, X-Rays, Gamma-Rays, Aluminium, Iron, Inspection.
NT Final Rept.
IN Advanced Research and Applications Corp. Sunnyvale, CA. National Science Foundation, Washington, DC. Div. of Industrial Science and Technological Innovation. 060237000.

12117 AU Gimm H.A., Hubbell J.H.
TI Total Photon Absorption Cross Section Measurements, Theoretical Analysis and Evaluations for Energies above 10 MeV.
YR 1978
MJ Absorption-Cross-Sections, Photon-Cross-Sections, Gamma-Cross-Sections,Pair-Production-Reactions, Correction, Tables-Data, Graphs-Charts.
IN Max-Planck-Inst. Fuer Chemie, Mainz (Germany, F.R.). National Bureau of Standards, Washington, DC. 017439000.

12118 AU MacFarlane R.E., Muir D.W., Boicourt R.M.
TI NJOY; Neutron and Photon Cross Sections from ENDF/B.
YR 1984
MJ Software, Neutron-Transport-Theory, Neutron-Reactions, Computer-Codes, Cross-Sections, Multigroup-Theory, Transport-Theory, Scattering, Doppler-Broadening, Self-Shielding, Photons, N-Codes.
NT Software.
IN Los Alamos National Lab. NM. Department of Energy, Washington, DC. 072735000 9512470.

12119 AU Noonan J., Dechichio D., Scharr K., Scotti N., Chua S.
TI Investigate and Develop Mathematical Formulas in Support of Atmospheric Studies.
YR 1983
MJ Atmospheric-Physics, Numerical-Analysis, Mathematical-Models, Computer-Programs, Data-Acquisition, Atmosphere-Models, Turbulence, Magnetometers, Ionosphere, Density, Electrons, Photon-Cross-Sections, Networks, Magnetosphere, Response, Low-Energy, Flow-Charting, Data-Processing, Data-Bases, Feasibility-Studies, Geophysics.
NT Final Rept. Aug 1979-Sep 1982.
IN Bedford Research Associates, MA. AIR Force Geophysics Lab. Hansom AFB, MA. 073657000 393743.

12120 AU Wadzinski I.H.T., Jasperse J.R.
TI Low Energy Electron and Photon Cross Section for 0, N2, and 02 and Related Data.

YR 1982
MJ Ion-Density, Electron-Density, Atoms, Molecules, Energy-Levels, Excitation, Ionization, Solar-Radiation, Ionizing-Radiation, Oxygen, Nitrogen, Graphs.
NT Environmental Research Papes.
IN Bedford Research Associates, MA. AIR Force Geophysics Lab. Hansom AFB, MA. 073657000

12121 AU LI H.H.
TI Absorption Coefficient of Alkali Halides. Part 1.
YR 1979
MJ Alkali-Metal-Compounds, Halides, Absorption-Coefficients, Constants, Photon-Cross-Sections, Ultraviolet-Spectra, Correlation-Techniques, Data-Processing, Phonons, Computations, Surface-Chemistry, Impurities, Crystal-Growth, Crystal-Defects.
NT Interim Rept. 1 May 1978 - 30 Apr 1979. See also Part 2, AD-A080 208.
IN Center for Information and Numerical Data Analysis and Synthesis, West Lafayette, In. Air Force Office of Scientific Research, Bolling AFB, DC. 050450000 409062.

12122 AU Moulton J.R., Wood J.T., Migliorini R.L., Adamson J.R.
TI Dod Advanced, Image-Evaluation Program.
YR 1974
MJ Image-Processing, Optical-Images, Images, Electrooptics, Photons,Photon-Cross-Sections, Prototypes, Test-and-Evaluation.
NT Research and Development Technical Rept. Sep 1971 - Jul 1972 on Phase 1.
IN Army Electronics Command, Fort Monmouth, NJ. 002519000 037620.

12123 AU Stephens D.G.
TI An Experimental Investigation of the Flow Field of an Ejector Wing Design Employing a Photon Correlation Laser Velocimeter.
YR 1981
MJ Flow-Fields, Airfoils, Laser-Velocimeters, Flow-Visualization, Free-Stream, Angle-of-Attack, Wind-Tunnel-Tests, Smoke-Generators, Ejectors, Photon-Cross-Sections.
NT Master's Thesis.
IN Air Force Inst. of Tech. Wright-Patterson AFB, OH. School of Engineering. 000805002 012225.

12124 AU Hayward E.
TI The Elastic Photon Scattering Cross Section for C-12 in the Energy Range 20-40 MeV.
YR 1979
MJ Carbon-12, Scattering-Cross-Sections, Photon-Cross-Sections, Elastic-Scattering, Dispersion-Relations.
NT Final Rept.
IN National Bureau of Standards, Washington, DC. 004692000.

12125 AU Hayward E.
TI What's New in Nuclear Photon Scattering.
YR 1980
MJ Photon-Cross-Sections, Scattering-Cross-Sections, Deuteron-Reactions, Carbon-12, Dispersion-Relations, Quadrupole-Moment, Gamma-Cross-Sections, Reprints.
IN National Bureau of Standards, Washington, DC. 004692000.

VII. 7. Фотопротоны — Photoprotons

12126 TI Measurement of Cross Sections of Total Nuclear Photon Absorption by the C-12 and Pb-208 Nuclei in the Delta (1232) Region.
YR 1985
MJ Carbon-12-Target, Lead-208-Target, Photonuclear-Reactions, Absorption, Experimental-Data, MeV-Range-100-1000, Photoprotons, Pions-Neutral, Total-Cross-Sections.
NT In FrenchBiennaial Session on Nuclear Physics, Aussois, France, 4 Feb 1985.
IN CEA Centre d'Etudes Nucleaires de Saclay, Gif-sur-Yvette (France). 056220000 1396000.

12127 AU D'Hose N., Audit G., Bloch A.
TI Study of the He-3 (gamma,p)np Reaction in the Region of the Resonance Delta (1232).
YR 1985
MJ Helium-3-Target, Photonuclear-Reactions, Breakup-Reactions, Differential-Cross-Secti-

ons, Energy-Dependence, Experimental-Data, MeV-Range-100-1000, Monochromatic-Radiation, Photoprotons.
NT In French Biennaial Session on Nuclear Physics, Aussois, France, 4 Feb 1985.
IN CEA Centre d'Etudes Nucleaires de Saclay, Gif-sur-Yvette (France). 056220000 1396000.

12128 AU Mecking B.A.
TI Photonuclear Physics with Low Intensity Photon Beams.
YR 1985
MJ Photonuclear-Reactions, Breakup-Reactions, Bremsstrahlung, Counting-Techniques, Deuterium-Target, Deuterons, Helium-3-Taget, MeV-Range-100-1000, Photon-Beams, Photon-Photon-Interactions, Photoneutrons, Photoproduction, Photoprotons, Pions-Plus, Radiation-Detectors, Research-Programs, Target-Chambers.
NT Workshop on Electron and Photon Interactions at Medium Energies, Bad Honnef, F.R. Germany, 29 Oct 1984.
IN Bonn Univ. (Germany, F.R.). Physikalisches Inst. 004261006 0848000.

VII. 8. Фотоядерные реакции — Photonuclear Reactions

12129 AU Yelon W.B., Schupp G.
TI Inelastic Scattering in Condenced Matter with High Intensity Mossbauer Radiation: Progress Report for Period March 1, 1986 - October 31, 1986.
YR 1986
MJ Electron-Detection, Photonuclear-Reactions, E-Transitions, Gadolinium-153, Gamma-Detection, Inelastic-Scattering, Lifetime, M1-Transitions, Silicon, Terbium-159, Tungsten-183, Ytterbium-170.
IN Missouri Univ.-Columbia. Research Reactor Facility. *Department of Energy, Washington, DC. 049959060 9509370.

12130 AU Kissener H.R., Rotter I., Goncharova N.G.
TI Microscopic Studies of Electric Dipole Resonances in 1p Shell Nuclei.
YR 1986
MJ Photonuclear-Reactions, Shell-Models, Boron-10, Carbon-12,Center-of-Mass-System, Cross-Sections, Electric-Dipole-Moments, Excited-States, Fine-Structure, Giant-Resonance, Hamiltonians, Isospin, Lithium-6, Nitrogen-14, Oxigen-16, Particle-Core-Coupling-Model, Pauli-Principle.
IN Zentralinstitut Fuer Kernforshung, Rossendorf Bei Dresden (German, D.R.) 018100000 7037000.

12131 AU Dietrich S.S., Berman B.L.
TI Atlas of Photoneutron Cross Sections Obtained with Monoenergetic Photons. Final Edition, 1986.
YR 1986
MJ Photoneutrons, Photonuclear-Reactions, Compiled-Data, Cross-Sections, Energy-Spectra Integral-Cross-Sections, Knock-Out-Reactions, MeV-Range-01-10, MeV-Range-10-100, Nuclear-Data-Collections.
IN Lawrence Livermore National Lab., CA.*Department of Energy, Washington, DC. 068147000 9513035.

12132 AU Onley D.S., Wright L.E.
TI Theory of Photon and Electron Induced Reactions. Progress Report, July 1, 1985-June 30, 1986.
YR 1986
MJ Electron-Reactions, Photonuclear-Reactions, Coulomb-Correction, Electrofission, Hypernuclei, Inelastic-Scattering, Mesons, Photons, Photoproduction, Research-Programs, Virtual-Particles.
IN Ohio Univ., Athens.Dept. of Physics and Astronomy.*Department of Energy,Washington, DC. 013384026 9520530.

VII. 9. Электронные реакции — Electron Reactions

12133 AU Stroth U., Hasse R.W., Schuk P.

TI Nuclear Longitudinal Charge Response in the Quasi-Elastic Peak Region.
YR 1986
MJ Calcium-40-Target, Carbon-12-Target, Electron-Reactions, Iron-56-Target, Electrons, Energy-Dependence, Excited-States, MeV-Range-10-100, MeV-Range-100-1000, Particle-Hole-Model, Quasi-Elastic-Scattering, Random-Phase-Approximation, Response-Functions, Semiclassical-Approximation.
IN Gesellschaft Fuer Schwerionenforschung M.B.H., Darmstadt (Germany, F.R.) *Institut Max Von Laue - Paul Langevin, 38 - Grenoble (France). 071703000 9200078.

VII. 10. Гигантские резонансы — Giant Resonances

12134 AU Storm D.W., Halpern I., Gossett C.A., Murakami T., Rosenzweig D.P.
TI (Gamma,n) Studies of the Giant Isovector E Resonance in Lead, Cadmium, and Calcium.
YR 1986
MJ Cadmium, Calcium-40-Target, Lead, Lead-208-Target, Asymmetry, E1-Transitions, E-Transitions, Experimental-Data, Giant-Resonance, Isovectors,Neutrons, Photonuclear-Reactions.
NT American Physical Society Nuclear Physics Division Meeting, Vancouver, Canada, 9 Oct 1986.
IN Washington Univ., Seattle. Nuclear Physics Lab.*Illinoys Univ., Urbana. Dept. of Physics.*Los Alamos National Lab., NM.*Brookhaven National Lab., Upton, NY. *Department of Energy, Washington, DC. 005042058 681700.

12135 AU Madsen V.A., Landau R.H.
TI Theoretical Studies of Multistep Processes, Isospin Effects in Nuclear Scattering, and Meson and Baryon Interactions in Nuclear Physics. Final Technical Report, 1 September 1979 - 30 April 1986.
YR 1986
MJ Antiproton-Reactions, Helium-3-Target, Kaon-Reactions, Pion-Reactions, Quadrupole-Moments, Scattering, Spin.
IN Oregon State Univ., Corvallis. Dept. of Physics.*Department of Energy, Washington, DC. 013388010 4954000.

12136 AU Jakobsson B.
TI Intermediate Energy Heavy Ion Reactions. A Program for Celsius.
YR 1986
MJ Heavy-Ion-Reactions, Storage-Rings, Emission, Giant-Resonance, Pions, Planning, Resonance-Scattering.
NT Nuclear Physics Meeting of the Swedish Physical Society, Lund, Sweden, 14 Nov 1985.
IN Lund Univ. (Sweden). Fysiska Institutionen. 016503016 9860032.

12137 AU Fallieros S., Levin F.S.
TI Nuclear Excitations and Reaction Mechanisms. Progress Report.
YR 1986
MJ Nuclear-Reactions, Nuclei, Bag-Model, Compton-Effect, Dirac-Equation, Excited-States, Form-Factors, Gauge-Invariance Giant-Resonance, Isospin, Isovectors, Nucleon-Deuteron-Interactions, Photonuclear-Reactions, Polarizability, Raman-Effect, Relativistic-Range, Research-Programs, Scattering, Skyrme-Potential, Time-Dependence.
IN Brown Univ., Providence, RI. Dept. of Physics. *Department of Energy, Washington, DC. 003670003 0945000.

12138 AU Winters R.R.
TI Neutron Cross Section Measurements Using the ORELA: Ni-60 (N,X), Ca-40 (N,X), Ne-22 (N, gamma), Os-189 (N,N'), Os-186, -187, -188, -189 (N,X), Os-189 (N,gamma), Sm-148, -149,-150 (N,gamma), Ta-179 (N,gamma), Sr-86, -87, -88 (N,X), Ar-40 (N,X), the Stable Tellurium Isotopes (N,gamma), and Tl-205 (N,X). Progress report, September 1, 1985 - May 31, 1986.
YR 1986
MJ Neutron-Reactions, Beta-Decay, Capture, Cross-Sections, Energy-Levels, Experimental-Data, Giant-Resonance-Model, Molybdenum-95-Target, Molybdenum-96-Target, Molybdenum-97-Target, Mlybdenum-98-Target, Nuclear-Potential, Optical-Models, Osmium-187-Target, S-Process, Statistical-Models, Technetium-99-Target, Theoretical-Data.
IN Denison Univ., Granville, OH. Dept. of Physics.*Department of Energy, Washington, DC. 007548001 9520098.

12139 AU Younger S.M.
TI Giant Resonance Phenomena in the Electron Impact Ionization of Heavy Atoms and Ions.
YR 1986
MJ Barium-Ions, Cesium-Ions, Lanthanum-Ions, Xenon, Giant-Resonance, Cross-Sections, DWBA, Ionization, Multicharged-Ions.
NT NATO Advanced Study Conference, Les Houche, France, 16 Jun 1986.
IN Lawrence Livermore National Lab., CA.*Department of Energy, Washington, DC. 068147000 9513035.

12140 AU Norbury J.W., Cucinotta F.A., Deutchman P.A., Townsend L.W.
TI Cross Section Calculations for Subthreshold Pion Production in Peripheral Heavy-Ion Collisions.
YR 1986
MJ Carbon-12, Particle-Collisions, Pions, Heavy-Ions, Nuclei-(Nuclear-Physics), Angular-Distribution, Pauli-Exclusion-Principle, Scattering-Cross-Sections, Spectral-Energy-Distribution.
IN National Aeronautics and Space Administration, Hampton, A. Langley Research Center. 019041001 ND10491.

VII. 11. Рассеяние фотонов — Photon Scattering

12141 AU Ponomarev V.Yu., Voronov V.V.
TI Microscopic Description of Photon Scattering by the Giant Dipole Resonances in Spherical Model.
YR 1985
MJ Iron-56-Target, Molybdenum-92-Target, Nickel-60-Target, Differential-Cross-Sections, Dipoles, E1-Transitions, Elastic-Scattering, Energy-Dependence, Energy-Levels, Gamma-Radiation, Giant-Resonance, Level-Widths, Photonuclear-Reactions, Quasiparticle-Phonon-Model, Random-Phase-Approximation, Spherical-Model, Strength-Functions.
NT Submitted to the Journal Bull. Acad. Sci. USSR, Phys. Ser. (US).
IN Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Theoretical Physics. 014897006 3476000.

12142 AU Derenzo S.E., Budinger T.F.
TI Recent Developments in Positron Emission Tomography (PET) Instrumentation.
YR 1986
MJ BGO-Detectors, Photomultipliers, Positron-Computed-Tomography,Medical-equipment, Solid-Scintillation-Detectors, Positron-Detection, Spatial-Resolution, Technology-Assessment.
NT International Workshop on Physics and Engineering of Computerized Multidimensional Imaging and Processing, Newport Beach, CA, USA, 2 Apr 1986.
IN California Univ., Berkeley.*Department of Energy, Washington, DC. 005029000 1092000.

12143 AU Cooper M.J., Laundy D., Cardwell D.A., Timms D.N., Clark G.
TI Spin-dependent Momentum Distribution in Iron Studied with Circulary Polarized Synchrotron Radiation.
YR 1986
MJ Iron, Compton-Effect, Ferromagnetic-Materials, Electron-Spin, Synchrotron-Radiation, Circular-Polarization, Mamentum.
NT Prepared in Cooperation with Warwick Univ., Coventry (England).
IN Science and Engineering Research Council, Daresbury (England). Daresbury Lab. **Warwick Univ., Coventry (England). 074295001.

12144 AU Kolanoski H.
TI Recent Results on Two-Photon Processes from DESY.
YR 1986
MJ Photon-Photon-Interactions, Angular-Distribution, Antiprotons, Branching-Ratio, Charmonium, Differencial-Cross-Sections, Energy-Dependence, Excitation-Functions, Exclusive-Interactions, GeV-Range-01-10, Hadronic-Particle-Decay, Integral-Cross-Sections, Jet-Model, Kaons-Minus, Kaons-Neutral-Short-Lived, Kaons-Plus, Multiple-Production, Pair-Production, Particle-Widths, Photoproduction, Pions-Minus, Pions-Plus,Protons, Quantum-Chromodynamics, Radiative-Decay, Reviews, Scaling-Laws, Structure-Functions, X-2830-Resonances.
NT 21 Rencontre de Moriond: Strong Interactions and Gauge Theories Conference, Les Arcs,

France. 16 Mar 1986
IN Bonn Univ. (Germany, F.R.). Physikalisches Inst. 004261006 0848000.

12145 AU Deuter A.
TI Messung der Photonstrukturfunktion F2 Gamma im Q2 Bereich von 1.5-16 GeV2 (Measurement of the Photon Structure Function F2 Gamma in the Q2 Range of 1.5-16 GeV2).
YR 1984
MJ Photon-Electron-Interactions, Structure-Functions, Photons, Deep-Inelastic-Scattering, Quantum-Chromodynamics, Scaling-Laws,Strong-Interactions, Coupling-Constants, Multiple-production, Multiplicity, Charged-Particles, Hadrons, Experimental-Data.
NT Doctoral Thesis, Text in German.
IN Technische Hochschule Aachen (Germany, F.R.). Lehrstuhl fuer Experimentalphysik 3B und 3. Physikalisches Inst. 009121033.

12146 AU Bilenkaya S.I., Christova E.Ch.
Ti Soft Photoproduction in Proton-Proton Collisions and Charged Sum Rules.
YR 1984
MJ Proton-Proton-Interactions, Bremsstrahlung, Differencial-Cross-Sections, Distribution-Functions, Feynman-Diagram, Gauge-Invariance, GeV-Range-10-100, Inclusive-Interactions, Photons, Photoproduction, Pions, Protons, Sum-Rules.
NT Submitted to 22 International Conference on High Energy Physics, Leipzig, 1984.
IN Joint Inst. for Nuclear Research , Dubna (USSR). Lab. of Theoretical Physics. 014897006 3476000.

12147 AU Furtak T.E.
TI Photon Scattering and Interaction Analysis of Interfacial Corrosion and Catalysis. Technical Progress Report, 1 February 1982-30 January 1986.
YR 1986
MJ Surfaces, Adsorption, Harmonic-Generation, Raman-Effect, Research-Programs, Thin-Films.
IN Rensselaer Polytechnic Inst., Troy, NY.*Department of Energy, Washington, DC. 024503000 5466000.

12148 AU Furtak T.E.
TI Photon Scattering and Interaction Analysis of Interfacial Corrosion and Catalysis. Technical Progress Report, October 1, 1984-November 15, 1985.
YR 1985
MJ Platinum, Silver, Surfaces, Interfaces, Adsorption, Optical-Spectrometers, Raman-Spectroscopy, Sorptive-Properties.
IN Rensselaer Polytechnic Inst., Troy, NY. Dept. of Physics.*Department of Energy, Washington, DC. 024503014 5473000.

12149 AU Maduemezia A., Vega-Catalan F.J.
TI Refinement of the Mollwo-Ivey Rule for F-Centres in Alkali Halides.
YR 1984
MJ Alkali-Metals, Halides, Analytical-Solution, Coherent-Scattering, Electronic-Structure, Energy-Absorption, F-Centers, Incoherent-Scattering, Photons.
IN International Centre for Theoretical Physics, Trieste (Italy). 014033000 3310000.

12150 AU Penner S.
TI Status Report: Electro-Nuclear Physics at NBS (National Bureau of Standards).
YR 1985
MJ Research, Electron-Scattering, Photonuclear-reactions, Reviews.
NT Final Rept.
IN National Bureau of Standards (NML), Gaithersburg, MD. Radiation Source and Instrumentation Div. 082042025.

12151 AU Paar H.P.
TI New Experimental Results in Two-Photon Physics.
YR 1984
MJ Photon-Electron-Interactions, Photon-Photon-Interactions, Branching-Ratio, Eta-Mesons, Glueballs, Inelastic-Scattering, Muons, Particle-Production, Parton-Model, Quantum-Chromodynamics, Structure-Functions, Total-Cross-Sections, Vector-Dominance-Model.
IN National Inst. voor Kernfysica en Hoge-Energiefysica, Amsterdam (Netherlands).Sektie H. 074477003 4399930.

12152 AU Moran M.J.
TM Transition Radiation and Coherent Electron-Photon Scattering.
YR 1985
MJ X-Radiation, X-Ray-Spectra, Angular-Distribution, Cherenkov-Radiation, Coherent-Scattering, Electron-Positron-Interactions, Relativistic-Range, Transition-Radiation.
NT Penetration Phenomena Workshop, Oak Ridge, TN, USA, 14 Apr 1985.
IN Lawrence Livermore National Lab., CA.*Department of Energy, Washington, DC. 068147000 9513035.

12153 AU Kolanoski H.
TI Survey of Two-Photon Physics: What Have We Done, Where Are We Going.
YR 1984
MJ Photon-Photon-Interactions, Differential-Cross-Sections,Electron-Positron-Interactions, Electrons, Electroproduction, Muons-Minus, Muons-Plus, Omega-784-Resonances, Pair-Production, Phi-1019-Resonances, Photons, Photoproduction, Positrons, Psi-3105-Resonances, Quantum-Electrodynamics, Quarks, Reviews, Rho-765-Resonances, Scattering, Structure-Functions, Transverse-Momentum.
NT International Workshop on Photon-Photon Collisions, Lake Tahoe, CA, USA, 9 Sep 1984.
IN Bonn Univ. (Germany, F.R.). Physikalisches Inst. 004261006 0848000.

12154 AU Paar H.P.
TI New Experimental Results in Two Photon Physics.
YR 1984
MJ Inelastic-Scattering, Particle-Collisions, Photons, Scattering-Cross-Sections, Hadrons, Inelastic-Collisions, Particle-Production, Quantum-Chromodynamics, Quark-Parton-Model, Vector-Dominance-Model.
IN National Inst. voor Kernfysica en Hoge-Energiefysica, Amsterdam (Netherlands).*National Aeronautic and Space Administration, Washington, DC. 076477000 NJ223582.

12155 AU Voronov V.V.
TI Dipole Photon Scattering from Nuclei in the Lead Region.
YR 1984
MJ Bismuth-209, Bismuth-209-Target, Lead-206-Target, Lead-207, Lead-207-Target, Lead-208, Lead-208-Target, Lead-209, Thallium-205-Target, Thallium-207, Differential-Cross-Sections, Elastic-Scattering, Energy-Levels, Giant-Resonance, Heavy-Nuclei, Integral-Cross-Sections, MeV-Range-01-10, Photonuclear-Reactions, Quasiparticle-Phonon-Model, Random-Phase-Approximation, Spectroscopic-Factors, Theoretical-Data.
NT Submitted to the Journal Bull. Acad. Sci. USSR, Phys. Sci. .
IN Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Theoretical Physics. 014897006 3476000.

12156 AU Ponomarev V.Yu., Voronov V.V.
TI Low-Lying Dipole States in Spherical Nuclei.
YR 1984
MJ Intermediate-Mass-Nuclei, Branching-Ratio, Dipoles, E1-Transitions, Elastic-Scattering, Energy-Levels, Photonuclear-Reactions, Probability, Quasiparticle-Phonon-Model, Random-Phase-Approximation, Spherical-model, Tamm-Dancoff-Method, Theoretical-Data, Wave-Functions.
NT Submitted to the Journal Bull. Acad. Sci. USSR, Phys. Sci. .
IN Joint Inst. for Nuclear Research, Dubna (USSR). Lab. of Theoretical Physics. 014897006 3476000.

12157 AU Schaupp D.
TI Experiments on the Elastic Scattering of Photons in the Energy Range Between 20 KeV and 3.5 MeV as Test of Theoretical Predictions of Relativistic Quantum Mechanics and Quantum Electrodynamics.
YR 1984
MJ Photon-Atom-Collisions, Photon-Ion-Collisions, Angular-Distrtbution, Atoms, Bismuth, Cerium-Ions, Delbrueck-Scattering, Differential-Cross-Sections, Elastic-Scattering, Energy-Dependence, Experimental-Data, KeV-Range-10-100, KeV-Range-100-1000, Lead, MeV-Range-01-10, Molybdenum, Photons, Polarized-Beams, Praseodymium-Ions, Rayleigh-Scattering, Tantalum, Thomson-Scattering, Thorium-Ions, Tin, Uranium, Xenon, Zinc.
NT Diss. (Dr.rer.nat.), In German.
IN Goettingen Univ. (Germany, F.R.). Mathematisch-Naturwissenschaftliche Fakultaet. 011670026 9513034.

12158 AU Chanowitz M.S.
TI Resonances in Photon-Photon Scattering.
YR 1984
MJ Eta-700-Resonances, Eta-958-Resonances,Glueballs, Photon-Photon-Interactions, Coupling, Particle-Production, Radiative-Decay, Resonance-Particles, Scattering, Theta-1640-Resonances, Y-Resonances.
NT International Workshop on Photon-Photon Collisions, Lake Tahoe, CA, USA, 9 Sep 1984.
IN California Univ., Berkeley. Lawrence Berkeley Lab.*Department of Energy,Washington, DC. 005029222 9513034.

12159 AU Althoff M., Braunschweig W., Kirschfink F.J., Luebelsmeyer K., Martyn H.U.
TI Observation of the Reaction gamma+gamma -> P anti p pi exp + pi exp -.
YR 1984
MJ Delta-1236-Resonances, Lambda-Particles, Photon-Photon-Interactions, Pions, Protons, Antilambda-Particles, Antiprotons, Charmonium, Effective-Mass, Energy-Dependence, Experimental-Data, GeV-Range-01-10, Integral-Cross-Sections, Limiting-Values, Mass-Spectra, Pair-Production, Phase-Space, Photoproduction, Pions-Minus, Pions-Plus, Rho-7650-Resonances, Vacuum-States.
IN Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.). 007929000 2153000.

12160 AU Furtak T.E.
TI Photon Scattering and Interaction Analysis of Interfacial Corrosion and Catalysis. Technical Progress Report, September 1983-30 September 1984.
YR 1984
MJ Catalysts, Thin-Films, Corrosion, Crystal-Defects, Ellipsometers, Ellipsometry, Interfaces, Photovoltaic-Effect, Raman-Effect, Raman-Spectroscopy, Surface-Properties.
IN Rensselaer Polytechnic Inst., Troy, NY. Dept. of Physics. *Department of Energy, Washington, DC. 024503014 5473000.

12161 AU Fallieros S., Levin F.S.
TI Nuclear Excitations and Reaction Mechanisms. Progress Report, 1 August-31 July 1984.
YR 1984
MJ Nuclear-Reaction-Kinetics, Nuclear-Theory, Bound-State, Deuteron-Reactions, Deuterons, Nuclear-Reactions, Polarizability, Research-Programs, Three-Body-Problem.
IN Brown Univ., Providence, RI. Dept. of Physics.*Department of Energy, Washington, DC. 003670003 0945000.

12162 AU Dainton J.B.
TI Two Photon Physics.
YR 1983
MJ Electron-Positron-Interactions, Photon-Photon-Interactions, Deep-Inelastic-Scattering, Exclusive-Interactions, Particle-Production, Photon-Electron-Interactions, Quantum-Chromodynamics, Resonance-Scattering, Reviews.
NT International Europhysics Conference on High Energy Physics, Brighton, UK, 20 Jul 1983.
IN Science and Engineering Research Council, Chilton (England). Rutherford Appleton Lab. 074381002 9059452.

12163 AU Sakurayama Y.
TI High Energy Ahoton-Photon Scattering in 2-Photon Processes and Test of Quantum Electrodynamics.
YR 1983
MJ Electron-Positron-Interactions, Photon-Photon-Interactions, Quantum-Electrodynamics, Antiprotons, Bremsstrahlung, Differential-Cross-Sections, Electrons, GeV-Range-10-100, Inelastic-Scattering, Muons-Minus, Muons-Plus, Pair-Production, Particle-Kinematics, Perturbation-Theory, Photons, Pions-Minus, Pions-Plus, Polarization, Positrons, Propagator, Protons, Scattering-Amplitudes, Singularity, Strong-Interactions, Vacuum-States, Virtual-Particles.
NT Diss. (D.Sc.), In German.
IN Munich Univ. (Germany, F.R.). Fakultaet fuer Physik. 018811043 9202051.

12164 AU Roberson P.L., Endres G.W.R., Fox R.A., Haggard D.L., Holbrook K.L.
TI Spectral and Dosimetric Measurements of Photon Fields at Commercial Nuclear Sites.
YR 1984
MJ Nuclear-Power-Plants, Gamma-Rays, Dosimetry, Computer-Programs, Graphs(Charts), X-Rays, Gamma-Spectrometers, Photons.

NT Research Rept.
IN Battelle Pacific Northwest Labs., Richland, WA.*Nuclear Regulatory Commission, Washington, DC. Office of Nuclear Regulatory Research. 048035000.

12165 AU Dodge W.R., Hayward E., Leicht R.G., McCord M., Starr R.
TI Nuclear Photon Scattering by C-12 and O-16.
YR 1983
MJ Carbon-12, Scattering-Cross-Sections, Absorption-Cross-Sections, Cross-Sections, Photo-Nuclear-Reactions, Elastic-Scattering, Reprints.
NT Final Rept.
IN National Bureau of Standards, Washington, DC. 004692000.

12166 AU Casnati E., Napoli G., Turkowsky P., Tartari A.
TI Diffusione di Fotoni da 59,54 KeV: Determinazione Sperimentale del Fattore di Forma Atomico e Della Funzione di Diffuzione Incoerente (Photon Scattering from 59.54 KeV: Experimental Determination of Atomic Form Factor and of Incoherent Scattering Function).
YR 1983
MJ Copper, Cadmium, Molybdenum, Aluminium.
NT Text in Italian.
IN Commission of the European Communities, Luxembourg. 048489000.

12167 AU Kolanoski H.
TI Hadronic Final States in Soft Photon-Photon Scattering.
YR 1983
MJ Photon-Photon-Interactions, Angular-Correlation, Effective-Mass, Energy-Dependence, GeV-Range-01-10, Integral-Cross-Sections, Mass-Spectra, Pair-Production, Photoproduction, Pions-Minus, Pions-Neutral, Pions-Plus, Reviews, Rho-765-Resonances, Total-Cross-Sections.
NT 14 Spring Symposium on High Energy Physics, Georgenthal, German D.R. 21 Mar 1983.
IN Bonn Univ. (Germany, F.R.). Physikalisches Inst. 004261006 0848000.

12168 AU Althoff M., Braunschweig W., Gather K., Kirschfink F.J., Luebelsmeyer K.
TI Differential Cross Sections for Gamma -> p ANTI p in the C.M. Energy Range from 2.0 to 3.1 GeV.
YR 1983
MJ Photon-Photon-Interactions, X-2830-Resonances, Differential-Cross-Sections, Angular-Distribution, Antiprotons, Branching-Ratio, Energy-Dependence, Exclusive-Interactions, Exrepimental-Data, GeV-Range-01-10, Hadronic-Particle-Decay, Integral-Cross-Sections, Limiting-Values, Pair-Production, Particle-Widths, Photoproduction,Protons, Transverse-Momentum.
IN Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.). 007929000 2153000.

12169 AU Antipov Y.M., Bezzubov V.A., Budanov N.P.
TI Observation of the Compton Effect on pi-Minus Mesons.
YR 1982
MJ Photon-Meson-Interactions, Pions-Minus, Compton-Effect, Carbon, Cross-Sections, Gamma-Radiation, GeV-Range-10-100, Pion-Minus-Reactions, Polarizability, Targets.
NT In Russian.
IN Gosudarstvennyi Komitet po Ispol'zovaniyu Atomnoi Energii SSSR, Serpukhov. Inst. Fiziki Vysokikh Energii. 051726001 2852000.

12170 AU Dainton J.B.
TI Two Photon Physics.
YR 1983
MJ Inelastic-Scattering, Production, Resonance.
IN Science and Engineering Research Council, Chilton (England). Rutherford Appleton Lab. 074381002.

12171 AU Lautrup B.E., Samuel M.A.
TI Light-by-Light Contribution to the Sixth-Order Muon Anomaly.
YR 1977
MJ Muons, Photon-Photon-Interactions, Feinman-Diagram, Magnetic-Moments, Quantum-Electrodynamics, Renormalization.
IN Niels Bohr Inst., Copenhagen (Denmark). 02570000 4687000.

12172 AU Furtak T.E.
TI Photon Scattering and Interaction Analysis for Interfacial Corrosion and Catalysis. Technical Progress report, September 1, 1982-August 31, 1983.
YR 1983
MJ Interfaces, Surface-Properties, Copper, Raman-Spectroscopy, Anions, Reflectivity, Ellipsometry, Infrared-Radiation, Defects, Catalysis, Electrodes, Complexes.
IN Rensselaer Polytechnic Inst. Troy, NY. Dept. of Physics. Department of Energy, Washington, DC. 024503014 5473000.

12173 AU Fallieros S., Levin F.S.
TI Nuclear Excitation and Reaction Mechanisms.
YR 1983
MJ Nuclear-Reactions, Atomic-Models, Molecular-Models, Hadrons, Polarizability, Bound-State, Many-Body-Problem, Nuclear-Models, Electron-Reactions, Photonuclear-Reactions, Three-Body-Problem, Breakup-Reactions, Research-Programs.
IN Brown Uhiv. Providence, RI. Dept. of Physics. Department of Energy, Washington, DC. 003670003 0945000.

12174 AU Hutchinson M., George T.F.
TI Multiphoton Resonances in Molecular Collisions.
YR 1983
MJ Molecule-Molecule-Interactions, Collisions, Resonance-Scattering, Lasers, Theory, Spectrum-Analysis, Mathematical-Models, Reprints.
NT Pub. in JNL. of Physical Chemistry, V87 N12 P2037-2045 1983.
IN Rochester Univ. NY. Dept. of Chemistry.Air Force Office of Scientific Research, Bolling AFB, DC. 010090019 307260.

12175 AU Behrend H.J., Chen C., Fenner H., Schachter M.J., Schroeder V.
TI Observation of Topologically Isolated Energetic Electrons.
YR 1982
MJ Electron-Positron-Interactions, Inclusive-Interactions, GeV-Range-10-100, Electrons, Positrons, Angular-Distribution, Missing-Mass, Multiplicity, Longitudinal-Momentum, Experimental-Data.
NT CELLO Collaboration.
IN Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.). 007929000 2153000.

12176 AU Vagelatos N., Thayer D.D., Brown K., Howe, Frederic N.J.
TI Inspection of Sonar Done Rubber Windows Using Collimated Photon Scattering.
YR 1983
MJ Rubber, Windows, Domes-Structural-Forms, Sonar, Scattering, Test-Methods, Photons, Measurement, Matrix-Materials, Defects-Materials, Failure, Rupture,Salt-Water, Photons.
NT Final Rept. 4 Mar-6 1un 83.
IN IRT Corp. San Diego, CA. 063933000 409388.

12177 AU Dumesnil R., Greco J.L.
TI Uranium Content Determination of Ores in a Truck.
YR 1981
MJ Radiation-Detectors, Uranium, Calibration, Radiation-Absorption-Analysis, Feasibility-Studies, Quantity-Ratio, Uranium-Ores.
NT In French. European Said Well Logging Symposium, Paris, France, 21 Oct 1981.
IN CEA Centre d'Etudes Nucleaires de Saclay, Gif-Sur-Yvette (France). 056220000 1396000.

12178 AU Brandelik R., Braunschweig W., Gather K., Kirschfink F.J., Luebelsmeyer K.
TI Exclusive Proton-Antiproton Production in Two Photon Collisions.
YR 1981
MJ Photon-Photon-Interactions, Pair-Production, Protons, Antiprotons, Transverse-Momentum, Experimental-Data, Photoproduction, GeV-Range-01-10, Integral-Cross-Sections, Electron-Positron-Interactions, Electroproduction, Electrons, Positrons, GeV-Range-10-100.
IN Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.). 007929000 2153000.

12179 AU Berger C., Genzel H., Grigull R., Lackas W., Raupach F.
TI First Measurement of the Photon Structure Function F*2.
YR 1981
MJ Photon-Electron-Interactions, Deep-Inelastic-Scattering, Inclusive-Interactions, Electrons, Structure-Functions, Photons, GeV-Range-01-10, Integral-Cross-Sections, Expe-

rimental-Data.
IN Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.). 007929000 2153000.

12180 AU Montarou G.M.
TI Study and Use of the Orsay DCI Y Magnets as Magnetic Spectrometer in the Photon-Photon Scattering Experiment.
YR 1981
MJ Photon-Photon-Interactions, Beam-Bending-Magnets, Data-Acquisition, DCI-Orsay-Storage-Ring, Electrons, Experimental-Data, Magnetic-Dipoles, Magnetic-Fields, Magnetic-Spectrometers, Maxwell-Equations, Septum-Magnets.
NT These (D. Ing.). In French.
IN Clermont-Ferrand-2 Univ. Aubiere (France). Lab. de Physique Corpusculaire. Clermont-Ferrand-2 Univ. 63 - Aubiere (France). 059373001 1767500.

12181 AU Furtak T.E.
TI Photon Scattering and Interaction Analysis of Interfacial Corrosion and Catalysis. Technical Progress Report, 1 February 1982-31 August 1982.
YR 1982
MJ Electrodes, Raman-Spectra, Surface-Properties, Photovoltaic-Effect, Reflectivity, Corrosion, Crystal-Structure, Electrolytes, Oxides, Chemical-Analysis, Measuring-Methods.
IN Rensselaer Polytechnic Inst. Troy, NY. Dept. of Physics. Department of Energy, Washington, DC. 024503014 5473000.

12182 AU Brandelik R., Braunschweig W., Gather K., Kirschfink F.J., Luebelsmeyer K.
TI High Pt Hadron Production in Photon-Photon Collisions.
YR 1981
MJ Photon-Photon-Interactions, Experimental-Data, Hadrons, Transverse-Momentum, Photoproduction, GeV-Range-01-10, Particle-Production.
NT Tasso Collaboration.
IN Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.). 007929000 2153000.

12183 AU Berger C., Genzel H., Grigull R., Lackas W., Raupach F.
TI Inelastic Electron Photon Scattering at Moderate four Momentum Transfers.
YR 1980
MJ Photon-Electron-Interactions, Photon-Photon-Interactions, Distribution, Electron-Positron-Interactions, Electrons, Experimental-Data, GeV-Range-01-10, GeV-Range-10-100, Hadrons, Inclusive-Interactions, Photoproduction, Positrons, Total-Cross-Sections, Transverse-Momentum, Particle-Production.
IN Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.). 007929000 2153000.

12184 AU Wagner W.
TI Two Photon Processes at PETRA.
YR 1980
MJ Photon-Photon-Interactions, Reviews, Electron-Positron-Interactions, Pair-Production, Electrons, Positrons, Muons-Plus, Muons-Minus, Virtual-Particles, Photoproduction, F-1260-Resonances, Particle-Widths, Total-Cross-Sections, Photon-Electron-Interactions, Deep-Inelastic-Scattering, Transverse-Momentum, Jet-Model, Quarks, Photons, Structure-Functions.
IN Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.). 007929000 2153000.

12185 AU Hilger E.
TI Exclusive Channels in Two-Photon Scattering - 2.
YR 1981
MJ Photon-Photon-Interactions, F-1260-Resonances, Exclusive-Interactions, Pions-Plus, Pions-Minus, Photons, GeV-Range-01-10, Photoproduction, Effective-Mass, Mass-Spectra, Angular-Distribution, Radiative-Decay, Particle-Widths, Integral-Cross-Sections, Experimental-Data.
NT International Colloquium on Photon-Photon Interactions, Paris, France, 6-9 April 1981.
IN Bonn Univ. (Germany, F.R.). Physikalisches Inst. 004261006 0848000.

12186 AU Brandelik R., Braunschweig W., Gather K., Kirschfink F.J., Luebelsmeyer K.
TI Two-Photon Excitation of the Tensor Meson F-0 (1270).
YR 1981
MJ Photon-Photon-Interactions, F-1260-Resonances, Photoproduction, Pair-Production, Charged-Particles, Effective-Mass, Mass-Spectra, MeV-Range-100-1000, Pions-Plus, Pions-

Minus, Radiative-Decay, Particle-Widths, Electron-Positron-Interactions, Electroproduction, Electrons, Positrons, GeV-Range-10-100, Differential-Cross-Sections, Experimental-Data.
IN Deutsches Elektronen-Synchrotron, Hamburg (Germany, F.R.). 007929000 2153000.

187 AU Bosser J., Meot F.
TI Compton Effect in the SPS: Its Application in Beam Profile Measurement.
YR 1981
MJ CERN-SPS-Synchrotron, Beam-Monitoring, Compton-Effect, Energy-Spectra, Laser-Radiation, Proton-Beams.
NT C CERN/SPS/80-17 (ABM), December 1980.
IN Los Alamos National Lab. NM. Department of Energy, Washington, DC. 072735000 9512470.

СОДЕРЖАНИЕ

CONTENTS

Бобошин Игорь Николаевич
Варламов Владимир Васильевич
Мокеев Виктор Иванович
Степанов Михаил Евгеньевич
Сургутанов Валерий Викторсвич

Информационное издание
Фотоядерные данные

Редактор К.И.Стратилатова

Подписано к печати 27.12.89. Печать офсетная. Бумага для множительных аппаратов. Формат 60X84/8. Уч.-изд.л.-4,94 . Усл.п.л. - 4,75.Заказное.
Заказ N 4609 Тираж 400 экз. Цена 25 коп.

Ордена "Знак Почета" Издательство Московского университета.
103009, Москва, ул. Герцена, 5/7.

Отпечатано в НИИЯФ МГУ
119899, Москва, ГСП