DEPARTMENT
OF
COMMERCE

(CONTENTS)

MISCELLANEOUS
PUBLICATIONS
OF THE
NATIONAL
BUREAU
OF
STANDARDS

NOS. 289 - 294

Bibliography of Low Energy Electron Collision Cross Section Data

United States Department of Commerce
National Bureau of Standards
Miscellaneous Publication 289

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¹ Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted; mailing address Washington, D. C., 20234.

² Located at Boulder, Colorado, 80302.

³ Located at 5285 Port Royal Road, Springfield, Virginia, 22151.

UNITED STATES DEPARTMENT OF COMMERCE

Alexander B. Trowbridge, *Acting Secretary*

NATIONAL BUREAU OF STANDARDS • A. V. Astin, *Director*

Bibliography Of Low Energy Electron Collision Cross Section Data

L. J. Kieffer

Laboratory Astrophysics Division
Institute for Basic Standards
National Bureau of Standards
Boulder, Colorado 80302

National Bureau of Standards Miscellaneous Publication 289

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CONTENTS

Page

INTRODUCTION-----	v
BIBLIOGRAPHY: ELECTRON PAPERS	
Total Elastic Scattering Experimental-----	1
Total Elastic Scattering Theoretical-----	1
Differential Elastic Scattering Experimental-----	2
Differential Elastic Scattering Theoretical-----	2
Electronic Excitation Experimental-----	3
Electronic Excitation Theoretical-----	5
Electron Detachment Experimental-----	7
Electron Detachment Theoretical-----	7
De-Excitation Experimental-----	7
De-Excitation Theoretical-----	7
Ionization Experimental-----	8
Ionization Theoretical-----	10
Dissociation Experimental-----	11
Dissociation Theoretical-----	11
Free-Free Emission Theoretical-----	11
Dissociative Ionization Experimental-----	11
Dissociative Ionization Theoretical-----	12
Radiative Attachment Experimental-----	12
Radiative Attachment Theoretical-----	12
Dissociative Recombination Experimental-----	12
Dissociative Recombination Theoretical-----	12
Radiative Capture or Recombination Experimental-----	12
Radiative Capture or Recombination Theoretical-----	13
Rotational Excitation Experimental-----	13
Rotational Excitation Theoretical-----	13
Vibrational Excitation Experimental-----	13
Vibrational Excitation Theoretical-----	13
Dissociative Attachment Experimental-----	13
Dissociative Attachment Theoretical-----	14
Total Scattering Experimental-----	14
Total Scattering Theoretical-----	15
POSITRON PAPERS	
Total Elastic Scattering Experimental-----	16
Total Elastic Scattering Theoretical-----	16
Differential Elastic Scattering Theoretical-----	16
Electronic Excitation Theoretical-----	16
Electron Detachment Theoretical-----	16
Ionization Theoretical-----	16
BIBLIOGRAPHIC REFERENCES-----	17
AUTHOR INDEX-----	78

BIBLIOGRAPHY OF LOW ENERGY ELECTRON
COLLISION CROSS SECTION DATA†

L. J. Kieffer

A bibliography of low energy electron collision cross section data is presented. Only references which report original measurements or calculations of electron collision cross sections are included. The cross section data for each process are listed by atomic species in order of their atomic number. The data for molecules are listed in arbitrary order.

Key Words: atom, molecule, electron, collision
cross section

INTRODUCTION

The Joint Institute for Laboratory Astrophysics (JILA) maintains an Information Center for collecting reports which contain information of interest to plasma physicists and astrophysicists. Because of the availability of information from other data centers, our scope is confined to low energy atomic collision data. Our obligation to the National Standard Reference Data System requires that we make available to the general scientific and technical community critically evaluated data for electron and photon collisions with atoms and simple molecules.

This Bibliography has been issued previously in report form (JILA Reports #4 and #34, and JILA Information Center Report #2). All previous versions of this bibliography, and this one, have included all of the bibliographic material in our files at the time of publication. The current literature for this publication was searched through October 1966. Because we rely upon the abstracting journals to obtain references from sources which do not in general contain information of interest, there may be some material from late 1966 which is not included in this bibliography. The current scientific literature will be searched for this material on a continuing basis and all future bibliographic material will be issued in conjunction with the publication of critically evaluated data.

† This research was supported in part by the Advanced Research Projects Agency (Project DEFENDER), monitored by the U. S. Army Research Office-Durham, under Contract DA-31-124-ARO-D-139, and in part by the National Bureau of Standards through the National Standard Reference Data Program.

Electron Scattering Cross Section Bibliography

The criterion used in choosing the references for this bibliography is that the publication contain original measurements or calculations of electron cross sections in the energy range 0 to 10 KeV for specific atomic or molecular targets. The upper limit on the energy was not used as an absolute limit but indicates the order of magnitude of interest. This means that one should not expect to find electron collision cross sections in the range of 50 KeV and above.

Papers containing the following quantities, which are not explicitly cross sections, have also been collected:

1. phase shifts,
2. scattering lengths,
3. ionization efficiencies,
4. excitation efficiencies.

The reason for including these quantities is that under the proper conditions cross sections have been or can be simply derived from them.

Published manuscripts, theses, reports given at meetings, and company or agency reports which have been printed and circulated are included in the bibliography. However, reference is not made to material that is unavailable either through library facilities or government document centers. (No classified material is included.)

There is a tendency for authors to publish material which is identical to that which they have reported on at a meeting (which is printed and circulated) and also issued as a company or agency report. In some cases it is possible to verify that this is so and in those cases only one reference (the formal publication if there is one) is kept in our bibliography. In most cases it is not possible to make such a precise distinction among such documents, since only some of the material may have been made available before. Because of this, there may be cases of duplication in the sense that there may be more than one reference to the same original data. We have tried to keep this to a minimum consistent with our aim of collecting all published data.

Inclusion of a reference in this bibliography does not imply a value judgment about the accuracy of the information. We only assert that this reference reports a measured or calculated electron collision cross section (or the equivalent as described previously). The question of the accuracy of the data is to be covered in separate published critical reviews [see, for example, Reviews of Modern Physics, 38, 1, (1966)].

Description of the Bibliography Format

The Electron Cross Section Bibliography is divided into three main sections. The first section describes the data which are in the references included in the bibliography. The data are categorized by a

hierarchy of descriptors in the following order:

1. Process (e.g., elastic scattering, electronic excitation, etc.)
2. Experimental or Theoretical
3. Normalized or Relative
(The data are considered normalized if given in absolute units.)
4. Atomic or Molecular Species including the degree of ionization of the species.
(A negative ion is indicated by a minus sign; neutral unexcited species by a blank; neutral excited species by a star; and a positive ion by a number indicating the degree of positive ionization. All of these symbols follow the atomic species, which are listed in ascending order of nuclear charge, Z. Molecular species are listed in arbitrary order.)
5. The references in which the data described are found.
The references are identified by an arbitrary file number, the first author and the year of publication (e.g., 63 implies 1963).

The following comments about categories (see Contents) are necessary in order to use the bibliography properly. Category ELASTIC SCATTERING, for theoretical papers, includes all references to elastic scattering cross section computations except differential elastic scattering cross section references, which are given in a separate category. In the case of experimental papers only those references in which cross section measurements were reported with energy discrimination for the scattered electrons are included under ELASTIC SCATTERING.

Category TOTAL SCATTERING includes theoretical papers which give a total cross section which is the sum of elastic and inelastic cross sections. It also includes any references to experimentally determined cross sections in which the experiment does not distinguish between elastically and inelastically scattered electrons even if the experiment is carried out in an energy range in which only elastic scattering is expected.

The second section lists the title, authors and complete reference for the paper cited. These are ordered by their "file" number.

The abbreviations for journal titles are taken from Chemical Abstracts or if not abstracted there, from Science Abstracts, Section A: Physics Abstracts.

The third section consists of an alphabetical author index. After each name is a list of the "file" numbers of articles authored or co-authored to be found in the bibliographic section.

The author would like to gratefully acknowledge the assistance of the staff of the JILA Information Center. The computer programs used for this report were written by Patricia Ruttenberg. The manuscript was prepared by Mary Ann Lefler and Elizabeth Hosack.

ELECTRON PAPERS

TOTAL ELASTIC SCATTERING			EXPERIMENTAL	TOTAL ELASTIC SCATTERING			THEORETICAL
NORMALIZED				NORMALIZED			
M	0933 COOY,64			H	0490 SCHWARTZ,61	0495 MOISEWITSCH,63	
HE	0273 ALLEN,37	0274 GOLOAN,63		0498 TEMKIN,63	0503 TEMKIN,63		
	0330 WESTIN,49	0637 LANGMUIR,28		0512 TEMKIN,63	0520 MALIK,59		
	0734 GRAHAM,54			0537 OMIOVAR,59	0542 OAMBURG,62		
NE	0273 ALLEN,37	0330 WESTIN,49		0543 STAYER,49	0552 HARA,61		
	0637 LANGMUIR,28	0734 GRAHAM,54		0553 MITTLEMAN,62	0560 VEKLENKO,63		
NA	0679 OEHMELT,58			0561 OHMURA,60	0567 WU,60		
AR	0273 ALLEN,37	0292 ENGELHAROT,64		0571 MCEACHRAN,61	0586 PERCIVAL,57		
	0330 WESTIN,49	0637 LANGMUIR,28		0706 TEMKIN,61	0712 BURKE,61		
	0734 GRAHAM,54	1909 MAZING,66		0716 VEKLENKO,64	0722 LAWSON,61		
KR	0739 CHEN,63			0744 MCEACHRAN,63	0795 KAMENETSKII,61		
RB	0522 BALLING,64			0812 ROBINSON,61	0855 MCEACHRAN,60		
XE	0739 CHEN,63			0856 OAMBURG,63	0859 SMITH,60		
C5	1346 BALLING,64	1909 MAZING,66		0864 MALIK,64	0879 MALIK,60		
HG	0069 ARNOT,35	0637 LANGMUIR,28		0896 SMITH,60	0897 NUTT,64		
H2	0260 ENGELHAROT,63	0637 LANGMUIR,28		0899 JOHN,60	0903 PU,63		
N2	0381 LASSETT,57	0637 LANGMUIR,28		0904 KYLE,64	0908 KYLE,64		
C O	0374 LASSETT,53			0935 OCHKUR,58	0967 GREENBERG,57		
O2	0260 ENGELHAROT,63			0980 SCHWARTZ,62	0981 MURAEV,63		
RELATIVE				1009 BURKE,63	1015 SMITH,61		
H	1593 KLEINPOPPEN,65			1022 SMITH,62	1025 KINGSTON,61		
HE	0300 SCHULZ,63	0517 SCHULZ,63		1026 SARAPH,61	1030 TEMKIN,61		
	0518 FLEMING,63	0529 SCHULZ,64		1033 LIPPMAN,61	1051 TEMKIN,62		
	1347 KUYATT,65			1074 SOMERVILLE,63	1083 WOODINGTON,64		
NE	0052 ARNOT,31	0300 SCHULZ,63		1084 ROSENBERG,60	1087 VAINSHTAIN,63		
	0529 SCHULZ,64	1004 HUGHES,33		1092 SLOAN,64	1414 LANE,64		
	1347 KUYATT,65			1487 GALITIS,65	1496 HAHN,62		
AR	0020 HUGHES,32	0049 BULLARD,31		1505 OAMBURG,65	1510 TIETZ,63		
	0052 ARNOT,31	1347 KUYATT,65		1511 TIETZ,63	1524 TAYLOR,65		
K	0610 FRANKEN,58			1550 OAMBURG,63	1551 OAMBURG,63		
KR	0052 ARNOT,31	0529 SCHULZ,64		1552 OAMBURG,63	1553 OAMBURG,63		
	1347 KUYATT,65			1580 ARMSTEAD,65	1686 LEVIN,66		
XE	0052 ARNOT,31	0529 SCHULZ,64		1703 BANERJEE,65	1708 JOHN,66		
	1347 KUYATT,65			1747 KANG,66	1770 MOISEWITSCH,65		
HG	1347 KUYATT,65			1773 RUOGE,65	1847 BURKE,66		
H2	0052 ARNOT,31	1085 KUYATT,64		1869 GALITIS,65	1898 KYLE,64		
	1471 KUYATT,66						
N2	0052 ARNOT,31	0300 SCHULZ,63		H *	0429 BRANSDEN,56	0433 SWAN,54	
	1924 SCHULZ,66			0593 OMIOVAR,64	0722 LAWSON,61		
C O	0052 ARNOT,31			0859 SMITH,60	0904 KYLE,64		
C H4	0052 ARNOT,31			0935 OCHKUR,58	1074 SOMERVILLE,63		
M O	1471 KUYATT,66			HE	0025 MORSE,33	0054 MASSEY,32	
O2	1471 KUYATT,66				0055 MCCOUGALL,32	0060 OMALLEY,63	
					0106 ALLIS,31	0206 TIETZ,63	
					0388 BYATT,56	0397 BARBIERE,51	
					0409 TIETZ,59	0449 KIVEL,59	
					0459 MOISEWITSCH,53	0471 MOISEWITSCH,61	
					0495 MOISEWITSCH,63	0515 MUKHENJEE,62	
					0562 TIETZ,59	0565 HASMINO,63	
					0657 ZWICKY,23	0760 MATORA,60	
					0818 MARTYNEKO,63	0821 BAUER,64	
					0822 RELL,64	0849 HASMINO,63	
					0866 MARRIOTT,64	0976 LABAHN,64	
					0977 MURAEV,63	1024 MOISEWITSCH,61	
					1114 MALIK,61	1256 WILLIAMSON,65	
					1376 LABAHN,65	1485 KESTNER,65	
					1516 GURCHUMELIYA,63	1599 WILLIAMSON,62	
					1659 HUSAIN,66	1704 BANERJEE,65	
					1775 ZHIKHAREVA,65	1817 ORIENT,66	
					1827 LABAHN,66	1853 ZHIKHAREVA,66	
					1894 SCHENTER,66	1905 PETERKOP,65	
				HE *	1658 MARRIOTT,66		
				HE 1	0422 SEATON,57	0670 MCCARROLL,64	
					0845 SLOAN,64	1080 BURKE,64	
					1092 SLOAN,64	1847 BURKE,66	
				LI	0810 OAMBURG,60	0821 BAUER,64	
					0835 VELORE,59	0990 KARULE,64	
					1097 VINKALNS,64	1469 KARULE,65	
					1491 KARULE,65	1498 GARRETT,65	
					1515 KARULE,64	1542 KARULE,65	
					1571 STONE,66	1864 KARULE,65	
					1865 KARULE,65	2002 PETERKOP,65	
				RE	0884 PILYANKEVICH,60		
				RE 2	0884 PILYANKEVICH,60		
				B	0884 PILYANKEVICH,60		
				C	0884 PILYANKEVICH,60	1057 COOPER,62	
					1102 MCDOWELL,64	1110 MYERSCOUGH,64	
					1114 MALIK,61	1539 MYERSCOUGH,65	
				C 2	0884 PILYANKEVICH,60		
				C 4	0884 PILYANKEVICH,60		
				N	0387 ROBINSON,57	0399 KLEIN,58	
					0407 HAMMERLING,57	0597 BYATT,59	
					1114 MALIK,61	1650 LENAUER,66	
				O	0071 BATES,47	0169 BREHM,59	
					0208 YAMANOUCHI,47	0387 ROBINSON,57	
					0399 KLEIN,58	0400 TEMKIN,57	
TOTAL ELASTIC SCATTERING				TOTAL ELASTIC SCATTERING			
THEORETICAL				THEORETICAL			
NORMALIZED				NORMALIZED			
M	0028 CORINALDESI,63	0032 GORSHANOVA,62		H	0028 CORINALDESI,63	0032 GORSHANOVA,62	
	0044 BURKE,62	0055 MCCOUGALL,32			0044 BURKE,62	0055 MCCOUGALL,32	
	0083 BURKE,63	0127 HUANG,49			0083 BURKE,63	0127 HUANG,49	
	0151 BURKE,62	0162 BURKE,62			0151 BURKE,62	0162 BURKE,62	
	0168 SARAPH,62	0220 KAMENETSKII,62			0168 SARAPH,62	0220 KAMENETSKII,62	
	0234 MASSEY,56	0244 GELTMAN,60			0234 MASSEY,56	0244 GELTMAN,60	
	0276 AKEHIB,61	0287 CHANORASEKHAR,46			0276 AKEHIB,61	0287 CHANORASEKHAR,46	
	0296 GALITIS,63	0301 OMALLEY,62			0296 GALITIS,63	0301 OMALLEY,62	
	0351 BELL,63	0362 KATO,51			0351 BELL,63	0362 KATO,51	
	0369 OCHKUR,57	0384 BOROWITZ,57			0369 OCHKUR,57	0384 BOROWITZ,57	
	0393 BOYET,54	0398 MASSEY,50			0393 BOYET,54	0398 MASSEY,50	
	0403 ALTSHULER,53	0405 MASSEY,51			0403 ALTSHULER,53	0405 MASSEY,51	
	0408 OHMURA,58	0412 SEATON,57			0408 OHMURA,58	0412 SEATON,57	
	0416 BRANSDEN,58	0429 BRANSDEN,56			0416 BRANSDEN,58	0429 BRANSDEN,56	
	0447 SCHWARTZ,61	0448 KRALL,60			0447 SCHWARTZ,61	0448 KRALL,60	
	0457 OEHMELT,58	0463 OHMURA,59			0457 OEHMELT,58	0463 OHMURA,59	

TOTAL ELASTIC SCATTERING		THEORETICAL	DIFFERENTIAL ELASTIC SCATTERING EXPERIMENTAL	
NORMALIZED			NORMALIZED	
O	0407 HAMMERLING,57 0812 ROBINSON,61 0928 MITHA,40 1569 MYERSCOUGH,65 1832 SEATON,52	0597 BYATT,59 0821 BAUER,64 1057 COOPER,62 1650 LENANDER,66	H	1031 GILBODY,61
F	0572 HOERNI,53	1057 COOPER,62	HE	0165 HUGHES,32 0637 LANGMUIR,28 1277 HUGHES,36
NE	0060 O'MALLEY,63 0185 HOLTSMARK,28 0409 TIETZ,59 0471 MOISEWITSCH,61 0821 BAUER,64 1059 BIBERMAN,64	0106 ALLIS,31 0267 BULLARD,30 0449 KIVEL,59 0495 MOISEWITSCH,63 0944 FRENKIEL,62	NE	0187 BERMAN,49 0637 LANGMUIR,28
NA	0106 ALLIS,31 0810 DAMBURG,60 0959 GARRETT,64 1052 SALMONA,61 1491 KARULE,65 1520 SALMONA,63 1542 KARULE,65 1864 KARULE,65 2002 PETERKOP,65	0499 SALMONA,59 0812 ROBINSON,61 1023 SALMONA,61 1469 KARULE,65 1498 GARRETT,65 1523 GARRETT,64 1587 SALMONA,65 1865 KARULE,65	AR	0187 BERMAN,49 0637 LANGMUIR,28
NA 1	0422 SEATON,57		HG	0021 TATE,32 1535 KESSLER,64
CL	0267 BULLARO,30	1057 COOPER,62	H2	0637 LANGMUIR,28
AR	0060 O'MALLEY,63 0106 ALLIS,31 0397 BARNIERE,51 0450 KIVEL,59 0495 MOISEWITSCH,63 0818 MARTYENKO,63 0875 KARLE,64 1579 BRACKETT,63	0099 HOLTSMARK,29 0185 HOLTSMARK,28 0449 KIVEL,59 0471 MOISEWITSCH,61 0657 ZWICKY,23 0821 BAUER,64 1059 BIBERMAN,64 1650 LENANDER,66	N2	0637 LANGMUIR,28
K	0810 DAMBURG,60 1469 KARULE,65 1523 GARRETT,64 1864 KARULE,65 2002 PETERKOP,65	0959 GARRETT,64 1491 KARULE,65 1542 KARULE,65 1865 KARULE,65	C 0	0374 LASSETTRE,53
CA	0557 KAMENETSKII,60	1448 BELY,64	C H4	0190 EOMISTEN,49
ZN	0106 ALLIS,31		C2H6	0190 EOMISTEN,49
KR	0060 O'MALLEY,63 0449 KIVEL,59 0495 MOISEWITSCH,63 0821 BAUER,64	0104 HOLTSMARK,30 0471 MOISEWITSCH,61 0818 MARTYENKO,63	RELATIVE	
XE	0060 O'MALLEY,63 0818 MARTYENKO,63	0449 KIVEL,59	H	0230 HARNWELL,29 1593 KLEINPOPPEN,65
C5	0036 GARRETT,63 0810 DAMBURG,60 1469 KARULE,65 1523 GARRETT,64 1864 KARULE,65 1897 CROWN,65	0359 STONE,63 1343 CROWN,65 1491 KARULE,65 1542 KARULE,65 1865 KARULE,65 2002 PETERKOP,65	HE	0003 OYMONO,27 0053 BULLARO,31 0158 HARNWELL,29 0253 OYMONO,29 1470 EHRLHART,65
HG	0557 KAMENETSKII,60 0592 GAJEWSKI,58	0562 TIETZ,59	NE	0052 ARNOT,31 0059 MOHR,32 0158 HARNWELL,29
TL	0106 ALLIS,31		AR	0011 MCMILLEN,30 0022 WEBB,35 0052 ARNOT,31 0129 RAMSAUER,31
U	0572 HOERNI,53 0875 KARLE,64	0592 GAJEWSKI,58	K	0030 MCMILLEN,34
H2	0034 FISK,36 0251 MASSEY,30 0421 CARTER,58 0434 CARSON,54 1816 OKSYUK,66	0054 MASSEY,32 0411 NAGAHARA,54 0428 MASSEY,56 1452 TAKAYANAGI,65	ZN	0064 CHILDS,33
O2	0034 FISK,36 1816 OKSYUK,66	1666 GELTMAN,66	KR	0022 WEBB,35
N2	0034 FISK,36 1452 TAKAYANAGI,65 1852 CHEN,66	0895 CHEN,64 1816 OKSYUK,66	CO	0062 CHILDS,33
H20	0385 ALTSCHULER,57		XE	0052 ARNOT,31
N H3	0385 ALTSCHULER,57		AU	1111 REICHERT,63
C H4	0070 BUCKINGHAM,41		HG	0050 ARNOT,31 0144 ARNOT,32 0191 ARNOT,29 0245 ARNOT,33 1002 JORDAN,34 1427 OEICHSSEL,65 1475 ROSE,30
			H2	0011 MCMILLEN,30 0031 WEBB,35 0053 BULLARD,31 0129 RAMSAUER,31 0230 HARNWELL,29
			N2	0052 ARNOT,31 0059 MOHR,32 0158 HARNWELL,29
			C2H2	1286 CHILDS,34
			C O2	0059 MOHR,32
			C O	0052 ARNOT,31
			BR2	0065 ARNOT,34
			C H4	0052 ARNOT,31 0059 MOHR,32
			I2	0065 ARNOT,34
			H25	0059 MOHR,32
			P H3	0059 MOHR,32
			C CL4	0065 ARNOT,34
			C2H4	1286 CHILDS,34
			C2H6	1286 CHILDS,34
				0137 NICOLL,33 0164 GAGGE,33 0219 JORDAN,33 0486 KESSLER,65 1425 OEICHSSEL,61 1431 STEIOL,65 1596 OEICHSSEL,66 0023 HUGHES,32 0052 ARNOT,31 0059 MOHR,32 0158 HARNWELL,29 1303 GEIGER,64 0053 BULLARO,31 0138 MASSEY,33 0129 RAMSAUER,31 0053 BULLARO,31 0137 NICOLL,33 1287 HILL,36

RELATIVE

C F4 1287 HILL,36

DIFFERENTIAL ELASTIC SCATTERING THEORETICAL

NORMALIZED

H 0025 MORSE,33 0028 CORINALOESI,63
 0083 BURKE,63 0127 HUANG,49
 0151 BURKE,62 0234 MASSEY,36
 0244 GELTMAN,60 0301 OMALEY,62
 0416 BRANSON,58 0490 SCHWARTZ,61
 0511 BOROWITZ,54 0544 MOISEWITSCH,59
 0567 WU,60 0855 MCEACHRAN,60
 0879 MALIK,60 0899 JOHN,60
 0903 PU,63 0918 BURKE,62
 0935 OCHKUR,58 0967 GREENBERG,57
 1022 SMITH,62 1025 KINGSTON,61
 1030 TEMKIN,61 1130 KLEIN,55
 1461 SCOTT,65 1524 TAYLOR,65

H • 0935 OCHKUR,58

HE 0025 MORSE,33 0136 MOTT,33
 0221 FEENBERG,32 0258 KOLOS,61
 0383 SACHL,58 0462 HUZINAGA,60
 0544 MOISEWITSCH,59 0540 KOLOS,60
 0976 LABAHN,64 1048 MUKHERJEE,61
 1056 INOKUTI,61 1283 KAR,37
 1308 GHOSH,35 1407 KHAKE,65
 1408 KHAKE,65 1493 KHAKE,64
 1817 ORIENT,66

HE • 0514 BHATTACHARYA,61

LI 1865 KARULE,65

BE 0884 PILYANKEVICH,60

BE 2 0884 PILYANKEVICH,60

B 0884 PILYANKEVICH,60

C 0884 PILYANKEVICH,60

C 2 0884 PILYANKEVICH,60

C 4 0884 PILYANKEVICH,60

N 1579 BRACKETT,63

O 0409 TIETZ,59

F 0572 HOERNI,53

NA 1865 KARULE,65

NA 1 0719 SEATON,58

S 1176 TIETZ,60

CL 0745 TIETZ,60

AR 0409 TIETZ,59

1579 BRACKETT,63

K 0821 BAUER,64

1864 KARULE,65

BR 1152 ARNOT,34

KR 0156 ARNOT,34

CS 1865 KARULE,65

AU 1646 SCHONFELDER,66

HG 0109 BUNYAN,63

1646 SCHONFELDER,66

BI 1646 SCHONFELDER,66

U 0572 HOERNI,53

H2 0251 MASSEY,30

1408 KHAKE,65

BR2 1152 ARNOT,34

1191 SHAW,40

RELATIVE

HE 0051 MASSEY,31
 0068 MASSEY,34
 0639 MORSE,32

HE 1 0440 BRANSON,53

O 0048 MOTT,30

F 1287 HILL,36

CL 1287 HILL,36

AR 0655 HENNEBERG,33

KR 0113 VOSS,33

1294 HUGHES,35

HG 0653 HENNEBERG,32

H2 0054 MASSEY,32

0963 GRZYNSKI,64

N2 0138 MASSEY,33

C2H2 0726 HUGHES,33

C H4 0070 BUCKINGHAM,41

C CL4 1287 HILL,36

C2H4 0726 HUGHES,33

C F4 1287 HILL,36

0054 MASSEY,32
 0302 FANO,61

0655 HENNEBERG,33

0655 HENNEBERG,33

0194 MASSEY,32

0194 MASSEY,32

0726 HUGHES,33

ELECTRONIC EXCITATION

EXPERIMENTAL

NORMALIZED

H 0321 FITE,58
 0327 LICHTEN,59
 0936 SCHULTZ,60

HE 0056 LEES,32

0124 OORRESTEIN,42

0192 FRANCIS,47

0336 CORRIGAN,58

0373 LASSETTRE,53

0464 FRISH,58

0485 LIN,62

0600 PHELPS,58

0742 ST JOHN,60

0799 SILVERMAN,64

0871 FLEMING,63

1049 ST JOHN,64

1265 JONES,48

1455 MILLER,64

1583 ZAPESOCHNYI,65

1760 LASHMORE-OAVIES,65

1895 ZAPESOCHNYI,65

HE • 0759 ROBBEN,63

HE 1 1803 OANCE,66

LI 0773 FELOMAN,63

NE 0122 MILATZ,40

0124 OORRESTEIN,42

0205 MAEISHI,63

0637 LANGMUIR,28

1339 MAEISHI,65

1584 REVALO,65

NA 0141 LOVERIOGE,31

0414 VOLKOVA,61

1683 ZAPESOCHNYI,65

AR 0187 BERMAN,49

0637 LANGMUIR,28

1823 ZAPESOCHNYI,66

K 0141 LOVERIOGE,31

0344 VOLKOVA,59

0749 VOLKOVA,59

1517 ZAPESOCHNYI,65

1680 ZAPESOCHNYI,65

FE 0929 BELOUSOVA,61

KR 0474 VOLKOVA,60

PB 0773 FELOMAN,63

1801 ZAPESOCHNYI,66

0326 FITE,59
 0332 STEBBINGS,60
 1486 SMITH,65

0123 OORRESTEIN,42

0125 WOODENBERG,41

0318 SCHULZ,57

0338 STEWART,59

0379 SILVERMAN,57

0477 YAKHONTOVA,60

0554 HUGHES,63

0637 LANGMUIR,28

0787 HUGHES,63

0800 LASSETTRE,64

0886 GABRIEL,60

1088 FLEMING,64

1323 YAKHONTOVA,59

1528 MOLT,65

1677 MOLT,66

1892 MOLT,65

0290 CHRISTOPH,35

1517 ZAPESOCHNYI,65

0288 HERRMANN,36

0755 VOLKOVA,59

0275 FABRIKANT,39

0505 VOLKOVA,62

0773 FELOMAN,63

1533 VOLKOVA,63

1823 ZAPESOCHNYI,66

1517 ZAPESOCHNYI,65

ELECTRONIC EXCITATION		EXPERIMENTAL	ELECTRONIC EXCITATION		EXPERIMENTAL
NORMALIZED			RELATIVE		
CD	1758 PENKIN,66		NA	0015 MICHELS,31 0506 ZAPESUCHNYI,62 1648 ZAPESUCHNYI,61	0111 HAFT,33 1078 ZAPESUCHNYI,63
XE	0474 VOLKOVA,60	1823 ZAPESUCHNYI,66			
XE 1	0474 VOLKOVA,60		AR	0020 HUGHES,32 0063 NICOLL,33 0115 FISCHER,33 0178 MINKOWSKI,23 0344 VOLKOVA,59 0837 PORTEUS,64 1301 OLMSTED,65 1527 CHAMBERLAIN,65	0058 MOHR,32 0067 WHIDONINGTON,34 0119 MAIER-LEIBNITZ,35 0304 HANLE,52 0692 KUYATT,63 0968 SKERBELE,60 1411 RAFF,62 1776 KUPRIYANOV,66
CS	0279 MOHLER,32 1517 ZAPESUCHNYI,65 1910 KORCHEVOI,66	1467 NOLAN,65 1801 ZAPESUCHNYI,66 1972 ZAPESUCHNYI,66			
BA 1	0929 BELOUSOVA,61				
HG	0021 TATE,32 0176 JONGERIUS,61 0513 JONGERIUS,60 0637 LANGMUIR,28	0069 ARNOT,35 0303 RIEDE,54 0623 CROZIER,28	K	0344 VOLKOVA,59	
TL	0121 STROHMEIER,37		ZN	0105 LARCHE,31 1079 ZAPESUCHNYI,63	1077 ZAPESUCHNYI,63
H2	0181 FROST,62 0321 FITE,58 0354 CORRIGAN,58 0652 LUNT,62 0921 LEGLER,63	0260 ENGELHARDT,63 0327 LICHTEN,59 0637 LANGMUIR,28 0804 LASSETTRE,64 1265 JONES,49	KR	0178 MINKOWSKI,23 0692 KUYATT,63 1325 GUK,57	0607 OEYATOV,55 1301 OLMSTED,65 1776 KUPRIYANOV,66
O2	0376 LASSETTRE,54 0381 LASSETTRE,57 0794 LASSETTRE,64 1310 SCHULZ,62	0377 SILVERMAN,57 0652 LUNT,62 0798 LASSETTRE,64	KR 1	1325 GUK,57	
N2	0218 ENGELHARDT,64 0378 SILVERMAN,57 0637 LANGMUIR,28 0813 LASSETTRE,64 0921 LEGLER,63	0375 LASSETTRE,53 0381 LASSETTRE,57 0652 LUNT,62 0857 SILVERMAN,65 1296 WILLIAMS,35	R8	1078 ZAPESUCHNYI,63	
H20	0382 LASSETTRE,58		AG	0289 FUHRMANN,39	
C O2	0380 SHILOFF,57	1205 MEYER,65	CO	0105 LARCHE,31 0504 ZAPESUCHNYI,62 1648 ZAPESUCHNYI,61	0180 MINKOWSKI,23 1079 ZAPESUCHNYI,63
C O	0372 LASSETTRE,53 0794 LASSETTRE,64 0968 SKERBELE,60	0374 LASSETTRE,53 0803 LASSETTRE,64	XE	0178 MINKOWSKI,23 0308 KUYATT,64 1325 GUK,57	0304 HANLE,52 0692 KUYATT,63 1776 KUPRIYANOV,66
C H4	0190 EOMISTEN,49	0192 FRANCIS,47	XE 1	1325 GUK,57	
C2H6	0190 EOMISTEN,49		CS	0476 BOGDANOVA,60 1078 ZAPESUCHNYI,63	1040 ZAPESUCHNYI,64
RELATIVE			HG	0040 NOTTINGHAM,39 0078 ZAPESUCHNYI,61 0096 VETTERLEIN,39 0112 ORNSTEIN,33 0115 FISCHER,33 0142 FABRIKANT,37 0173 VAN VOORHIS,34 0179 HANLE,29 0191 ARNOT,29 0229 OSTENSEN,29 0262 SCHAFFERNICHT,30 0319 SCHULZ,58 0513 JONGERIUS,60 0634 LEE,39 0656 BRICOUT,28 0808 FRISH,54 0882 ZAPESUCHNYI,62 1077 ZAPESUCHNYI,63 1153 ENOE,29 1275 VALASEK,27 1324 BOGDANOVA,59 1521 ZAPESUCHNYI,65 1570 SMIT,65	0058 MOHR,32 0092 HANLE,30 0108 THIEME,32 0114 SEILER,33 0137 NICOLL,33 0164 GAGGE,33 0176 JONGERIUS,61 0180 MINKOWSKI,23 0222 BOGDANOVA,63 0231 BRATTAIN,29 0315 JONGERIUS,56 0476 BOGDANOVA,60 0546 SMIT,56 0635 WHITE,26 0665 WHITNEY,29 0916 SIEBERTZ,31 0965 BAKIS,59 1079 ZAPESUCHNYI,63 1233 FRISH,56 1290 ROZGACHEV,58 1475 ROSE,30 1534 BOGDANOVA,63 1575 FYODOROV,65
H	0110 ORNSTEIN,33 0532 KLEINPOPPEN,62 0629 HUGHES,23	0269 ORNSTEIN,35 0609 GALLITIS,63 0922 CHAMBERLAIN,64	TL	0289 FUHRMANN,39	
HE	0003 OYMONO,27 0027 HUGHES,33 0063 NICOLL,33 0100 ORNSTEIN,30 0119 MAIER-LEIBNITZ,35 0158 HARNWELL,29 0178 MINKOWSKI,23 0226 MICHELS,30 0235 GLOCKER,29 0263 HANLE,29 0304 HANLE,52 0328 SCHULZ,59 0492 MCFARLANO,63 0513 JONGERIUS,60 0519 HEOOLE,63 0551 LASSETTRE,64 0612 LASSETTRE,65 0628 HUGHES,23 0663 HERTZ,25 0692 KUYATT,63 0753 OOLGOV,59 0912 ST JOHN,61 1027 HIGGINSON,61 1076 ZAPESUCHNYI,63 1148 ELENBAAS,30 1411 RAFF,62 1513 HEOOLE,65 1527 CHAMBERLAIN,65 1588 EHRHARDT,65 1776 KUPRIYANOV,66 1839 HEHLHORN,66	0011 MCMILLEN,30 0058 MOHR,32 0067 WHIDONINGTON,34 0108 THIEME,32 0120 POULTNEY,34 0173 VAN VOORHIS,34 0223 SMIT,35 0227 LAHE,57 0253 OYMONO,29 0293 PRIESTLY,35 0319 SCHULZ,58 0361 SMIT,59 0510 MCFARLANO,62 0516 SMIT,63 0521 MCFARLANO,62 0564 ST JOHN,62 0620 COLES,37 0651 LEES,29 0668 WOMER,34 0747 MCFARLANO,64 0880 MAURER,34 0968 SKERBELE,60 1073 MCFARLANO,64 1090 SCHULZ,64 1304 CHAMBERLAIN,65 1417 CHAMBERLAIN,65 1521 ZAPESUCHNYI,65 1572 CERMAK,66 1753 BOERSCH,65 1781 CERMAK,66 1982 ODERING,66	P8	0289 FUHRMANN,39	
LI	1586 HAFNER,65		H2	0059 MOHR,32 0158 HARNWELL,29 0232 BRASEFELD,29 0319 SCHULZ,58 1301 OLMSTED,65 1411 RAFF,62 1692 HEIOEHAN,66	0063 NICOLL,33 0173 VAN VOORHIS,34 0270 KRUTHOF,35 0987 COOLIDGE,44 1303 GEIGER,64 1585 BOERSCH,65
NE	0059 MOHR,32 0137 NICOLL,33 0158 HARNWELL,29 0268 HILATZ,35 0692 KUYATT,63 1153 ENOE,29 1648 ZAPESUCHNYI,61	0119 MAIER-LEIBNITZ,35 0152 HANLE,30 0178 MINKOWSKI,23 0663 HERTZ,25 1076 ZAPESUCHNYI,63 1301 OLMSTED,65 1776 KUPRIYANOV,66	N2	0059 MOHR,32 0137 NICOLL,33 0328 SCHULZ,59 0475 ZAPESUCHNYI,60 0632 LANGSTROTH,34 0953 STEWART,55 0989 THOMPSON,34 1298 LANGSTROTH,35 1312 LANGSTROTH,35 1480 LASSETTRE,65 1597 GEIGER,65 1679 MEYER,66	0108 THIEME,32 0158 HARNWELL,29 0334 STEWART,58 0612 LASSETTRE,65 0752 KISHKO,59 0968 SKERBELE,60 1157 RUDBERG,30 1301 OLMSTED,65 1406 WINTERS,65 1481 SKERBELE,65 1648 ZAPESUCHNYI,61 1693 HEIDEMAN,66
NE 1	0067 WHIDONINGTON,34		N2 1	0039 BUNOY,37 0757 KISHKO,60	0343 ZAPESUCHNYI,59
			H20	0558 SCHULZ,60 1411 RAFF,62 1481 SKERBELE,65	0968 SKERBELE,60 1419 SKERBELE,65 1824 SKERBELE,66
			N H3	0968 SKERBELE,60	1481 SKERBELE,65

ELECTRONIC EXCITATION			EXPERIMENTAL		ELECTRONIC EXCITATION			THEORETICAL	
RELATIVE					NORMALIZED				
N O	0612 LASSETTRE,65		1841 KOVAL,66		H *	1522 ROMILLA,63 1674 VELORE,65 1851 KINGSTON,66		1657 KINGSTON,66 1718 ORMONDE,64 1868 VELORE,65	
C2M2	1374 BOWMAN,65		1812 GEIGER,65						
C O2	0059 MOHR,32 1047 KISKO,63 1841 KOVAL,66		0612 LASSETTRE,65 1401 LASSETTRE,65		HE	0051 MASSEY,31 0139 MASSEY,35 0234 MASSEY,56 0311 BECKER,64 0367 MOISEWITSCH,57 0395 ALTSHULER,53 0432 ORIK,55 0441 MASSEY,52 0460 MASSEY,54 0555 BECKER,63 0676 KAR,40 0740 PERCIVAL,58 0760 MATORA,60 0801 LASSETTRE,64 0892 BURGESS,63 1091 SILVERMAN,58 1212 BECKER,64 1265 JONES,48 1557 BAUER,65 1567 LASSETTRE,65 1644 JOACHAIN,65 1663 SILVERMAN,66 1695 FOX,66 1767 FOX,65 1846 BURKE,66		0061 MASSEY,33 0155 SEATON,62 0281 YAVORSKY,44 0349 MASSEY,60 0391 HART,56 0396 ALTSHULER,52 0435 ROTHENSTEIN,54 0452 GRYZINSKI,59 0462 HUZINAGA,60 0616 MASSEY,31 0718 OCHKUR,64 0754 VAINSHTEIN,59 0765 ITOH,60 0863 GRYZINSKI,64 1014 GRYZINSKI,65 1115 OCHKUR,63 1246 STAUFFER,65 1546 VAINSHTEIN,61 1558 BAUER,65 1590 WILLIAMSON,62 1645 JOACHAIN,65 1682 OCHKUR,65 1710 BELL,66 1793 BIELSKI,65	
C O	0328 SCHULZ,59 1301 OLMSTEAD,65 1481 SKERBELE,65 1841 KOVAL,66		0475 ZAPESCHNYI,60 1418 MEYER,65 1743 SILVERMAN,64 1887 SKERBELE,66						
C O 1	0039 BUNOY,37								
BR2	0483 SWICK,61								
C M4	0137 NICOLL,33 1588 EHRHARDT,65		1374 BOWMAN,65						
O2	0987 COOLIDGE,44								
C2M4	1374 BOWMAN,65		1411 RAFF,62						
C2M6	1374 BOWMAN,65								
S F6	1856 SIMPSON,66								
ELECTRONIC EXCITATION			THEORETICAL		HE *	1103 YAVORSKY,47 1804 OCHKUR,66		1658 MARRIOTT,66	
NORMALIZED					HE 1	0417 BURGESS,61 0669 BURKE,64 1080 BURKE,64 1847 BURKE,66		0436 BRANSUEN,53 0670 MCCARROLL,64 1340 BURKE,64	
H	0032 GORSHANOVA,62 0051 MASSEY,31 0091 OAMBURG,62 0128 RETERKOR,62 0155 SEATON,62 0234 MASSEY,56 0278 OAMBURG,62 0350 KINGSTON,60 0389 BORDWITZ,56 0416 KHASHABA,58 0423 BATES,57 0425 BRANSUEN,57 0432 OPIK,55 0438 MASSEY,53 0458 ERSKINE,52 0534 SOMERVILLE,62 0542 OAMBURG,62 0549 KINGSTON,60 0567 WU,60 0585 SEATON,62 0648 OAMBURG,63 0712 BURKE,61 0722 LAWSON,61 0826 PRESNYAKOV,64 0829 PETERKOP,59 0866 MARRIOTT,64 0892 BURGESS,63 0904 KYLE,64 0913 AKERIB,61 0919 MILFORD,60 0996 AKERIB,60 1014 GRYZINSKI,65 1050 SCANLON,61 1074 SOMERVILLE,63 1115 OCHKUR,63 1135 PETERKOP,60 1257 MOISEWITSCH,65 1416 TAIT,63 1461 SCOTT,65 1468 VRIENS,65 1479 COLEMAN,65 1546 VAINSHTEIN,61 1551 OAMBURG,63 1553 OAMBURG,63 1560 EISSNER,64 1657 KINGSTON,66 1718 ORMONDE,64 1773 RUDE,65 1813 VAINSHTEIN,64 1851 KINGSTON,66 1868 VELORE,65 1886 COLEMAN,65 1985 FAISAL,65		0044 BURKE,62 0083 BURKE,61 0097 OAMBURG,62 0154 OAMBURG,62 0183 ELSASSER,27 0277 GOLOSSTEIN,33 0296 GALLITIS,63 0351 BELL,63 0391 HART,55 0420 MARRIOTT,58 0424 MCCARROLL,57 0429 BRANSUEN,56 0435 ROTHENSTEIN,5A 0446 MCCOY,60 0507 OAMBURG,63 0540 MILFORD,60 0545 ROBINSON,63 0563 LYNN,59 0580 HUCK,57 0593 OMIDVAR,64 0671 STABLER,64 0721 SEATON,61 0809 HELLUNO,60 0828 POMILLA,64 0859 SMITH,60 0874 TAYLOR,64 0896 SMITH,60 0908 KYLE,64 0914 MOISEWITSCH,61 0935 OCHKUR,58 1009 BURKE,63 1037 HUMMER,61 1061 VAINSHTEIN,64 1109 CUNNINGHAM,64 1130 KLEIN,55 1246 STAUFFER,65 1409 BELL,65 1457 VRIENS,65 1466 OMIOVAR,65 1474 VAINSHTEIN,64 1532 CROTHERS,65 1550 OAMBURG,63 1552 OAMBURG,63 1557 BAUER,65 1594 VRIENS,65 1697 COLEMAN,66 1747 KANG,66 1793 BIELSKI,65 1847 BURKE,66 1859 ORMONDE,66 1877 MCCARROLL,65 1898 KYLE,64		LI	0830 VELORE,59 0990 KARULE,64 1146 WU,44 1469 KARULE,65 1813 VAINSHTEIN,6A		0836 VELORE,59 1072 HUGHES,64 1190 WU,40 1515 KARULE,64	
					LI 1	1688 SURAL,66			
					BE	0844 RILYANKEVICH,60			
					RE 1	0775 BELY,63 1850 BELY,66		1305 BELY,64	
					HE 2	0884 PILYANKEVICH,60			
					B	0884 RILYANKEVICH,60			
					C	0884 RILYANKEVICH,60			
					C 1	0714 SEATON,58		0909 SEATON,55	
					C 2	0884 PILYANKEVICH,60			
					C 3	0775 BELY,63			
					C 4	0884 PILYANKEVICH,60		1546 VAINSHTEIN,61	
					C 5	1474 VAINSHTEIN,64		1546 VAINSHTEIN,61	
					N 1	0A04 SEATON,53 0714 SEATON,58		048A SEATON,55 1696 BELY,66	
					N 4	1536 TAYLOR,65 1850 BELY,66		1653 BURKE,66	
					O	0248 YAMANOUCHI,40 0427 PERCIVAL,57 1832 SEATON,52		0366 YAMANOUCHI,50 0484 SEATON,55	
					O 1	0404 SEATON,53 0843 SEATON,57		0484 SEATON,55 1216 ALLER,48	
					O 2	0265 HE88,40 0484 SEATON,55 1696 BELY,66		0404 SEATON,53 071A SEATON,58	
					O 5	0775 BELY,63 081A VARSAVSKY,63 1017 VARSAVSKY,62		0792 VARSAVSKY,61 0970 BELY,62	
					F 1	040A SEATON,53		048A SEATON,55	
					F 2	0A0A SEATON,53		0A8A SEATON,55	
					F 3	040A SEATON,53		0A8A SEATON,55	
					F 5	0792 VARSAVSKY,61			
					F 6	0792 VARSAVSKY,61			
H *	0103 MCCOY,63 0419 BOYO,58 0445 FISHER,60 0593 OMIOVAR,64 0859 SMITH,61 1074 SOMERVILLE,63 1466 OMIOVAR,65		0413 MCCREA,60 0431 SEATON,55 0446 MCCOY,60 0826 PRESNYAKOV,6A 0954 SARARH,6A 1103 YAVORSKY,47 1468 VRIENS,65						

ELECTRONIC EXCITATION		THEORETICAL	ELECTRONIC EXCITATION		THEORETICAL
NORMALIZED			NORMALIZED		
NE	1576 VELDRE,65 1866 VELDRE,65	1681 80IKOVA,65 1867 VELDRE,65	P 11	0792 VARSAVSKY,61	
NE	2 0404 SEATON,53	0484 SEATON,55	P 12	0792 VARSAVSKY,61	
NE	3 0404 SEATON,53	0484 SEATON,55	S 1	0404 SEATON,53 0484 SEATON,55	0442 CZYZAK,64
NE	4 0404 SEATON,53	0484 SEATON,55	S 2	0442 CZYZAK,64	1696 BELY,66
NE	5 0792 VARSAVSKY,61		S 8	0792 VARSAVSKY,61	
NE	6 0792 VARSAVSKY,61	1850 BELY,66	S 9	0792 VARSAVSKY,61	
NE	7 0792 VARSAVSKY,61		S 10	0792 VARSAVSKY,61	
NA	0155 SEATON,62 0452 GRYZINSKI,59 1014 GRYZINSKI,65 1072 HUGHES,64 1251 BARNES,65 1414 LANE,64 1474 VAINSHTEIN,64 1546 VAINSHTEIN,61 1793 BIELSKI,65	0431 SEATON,55 0497 SOMERVILLE,61 1023 SALMONA,61 1115 OCHKUR,63 1319 VELDRE,56 1469 KARULE,65 1520 SALMONA,63 1587 SALMONA,65 1813 VAINSHTEIN,64	S 11	0792 VARSAVSKY,61	
NA *	0568 LANE,64		CL 3	0442 CZYZAK,64	1696 BELY,66
NA	3 0404 SEATON,53	0484 SEATON,55	CL 10	0792 VARSAVSKY,61	
NA	4 0404 SEATON,53 0792 VARSAVSKY,61	0484 SEATON,55	CL 11	0792 VARSAVSKY,61	
NA	5 0792 VARSAVSKY,61		CL 12	0792 VARSAVSKY,61	
NA	6 0792 VARSAVSKY,61		AR	1867 VELDRE,65	
NA	7 0792 VARSAVSKY,61		AR 4	0442 CZYZAK,64	1696 BELY,66
NA	8 0792 VARSAVSKY,61		AR 7	0792 VARSAVSKY,61	
MG	1 0775 BELY,63 1122 VAN REGEMORTER,60	1053 VAN REGEMORTER,61	AR 11	0792 VARSAVSKY,61	
MG	4 0404 SEATON,53 0792 VARSAVSKY,61	0484 SEATON,55	AR 12	0792 VARSAVSKY,61	
MG	5 0792 VARSAVSKY,61		AR 13	0792 VARSAVSKY,61	
MG	6 0792 VARSAVSKY,61		K	1072 HUGHES,64 1813 VAINSHTEIN,64	1469 KARULE,65
MG	7 0792 VARSAVSKY,61		K 7	0792 VARSAVSKY,61	
MG	8 0792 VARSAVSKY,61		K 8	0792 VARSAVSKY,61	
MG	9 0775 BELY,63	0792 VARSAVSKY,61	K 12	0792 VARSAVSKY,61	
AL	4 0792 VARSAVSKY,61		K 13	0792 VARSAVSKY,61	
AL	5 0792 VARSAVSKY,61		CA	1448 BELY,64	
AL	6 0792 VARSAVSKY,61		CA 1	0720 VAN REGEMORTER,60 1122 VAN REGEMORTER,60	1054 VAN REGEMORTER,61 1876 PETRINI,65
AL	7 0792 VARSAVSKY,61		CA 7	0792 VARSAVSKY,61	
AL	8 0792 VARSAVSKY,61		CA 8	0792 VARSAVSKY,61	
AL	9 0792 VARSAVSKY,61		CA 9	0792 VARSAVSKY,61	
AL	10 0792 VARSAVSKY,61		CA 14	0792 VARSAVSKY,61	
SI	1 0714 SEATON,58	0909 SEATON,55	SC 6	0792 VARSAVSKY,61	
SI	3 0775 BELY,63		SC 7	0792 VARSAVSKY,61	
SI	5 0792 VARSAVSKY,61		SC 8	0792 VARSAVSKY,61	
SI	6 0792 VARSAVSKY,61		SC 9	0792 VARSAVSKY,61	
SI	7 0792 VARSAVSKY,61		SC 10	0792 VARSAVSKY,61	
SI	8 0792 VARSAVSKY,61		TI 6	0792 VARSAVSKY,61	
SI	9 0792 VARSAVSKY,61		TI 7	0792 VARSAVSKY,61	
SI	10 0792 VARSAVSKY,61		TI 8	0792 VARSAVSKY,61	
SI	11 0792 VARSAVSKY,61		TI 9	0792 VARSAVSKY,61	
P	6 0792 VARSAVSKY,61		TI 10	0792 VARSAVSKY,61	
P	7 0792 VARSAVSKY,61		TI 11	0792 VARSAVSKY,61	
P	8 0792 VARSAVSKY,61		V 6	0792 VARSAVSKY,61	
P	9 0792 VARSAVSKY,61		V 7	0792 VARSAVSKY,61	
P	10 0792 VARSAVSKY,61		V 8	0792 VARSAVSKY,61	
			V 9	0792 VARSAVSKY,61	
			V 10	0792 VARSAVSKY,61	
			V 11	0792 VARSAVSKY,61	
			V 12	0792 VARSAVSKY,61	
			CR	7 0792 VARSAVSKY,61	

NORMALIZED

CR 8 0792 VARSAVSKY,61
 CR 9 0792 VARSAVSKY,61
 CR 10 0792 VARSAVSKY,61
 CR 11 0792 VARSAVSKY,61
 CR 12 0792 VARSAVSKY,61
 CR 13 0792 VARSAVSKY,61
 MN 8 0792 VARSAVSKY,61
 MN 9 0792 VARSAVSKY,61
 MN 10 0792 VARSAVSKY,61
 MN 11 0792 VARSAVSKY,61
 MN 12 0792 VARSAVSKY,61
 MN 13 0792 VARSAVSKY,61
 MN 14 0792 VARSAVSKY,61
 FE 1 0909 SEATON,55
 FE 7 1943 CZYZAK,66
 FE 9 0792 VARSAVSKY,61
 FE 10 0792 VARSAVSKY,61
 FE 11 0792 VARSAVSKY,61
 FE 12 0792 VARSAVSKY,61
 FE 13 0437 BLAMA,62
 0547 BELY,62
 0923 WOODLEY,48
 FE 14 0792 VARSAVSKY,61
 FE 15 0775 BELY,63
 1932 KRUEGER,65
 CO 10 0792 VARSAVSKY,61
 CO 11 0792 VARSAVSKY,61
 CO 12 0792 VARSAVSKY,61
 CO 13 0792 VARSAVSKY,61
 CO 14 0792 VARSAVSKY,61
 CO 15 0792 VARSAVSKY,61
 CO 16 0792 VARSAVSKY,61
 NI 11 0792 VARSAVSKY,61
 NI 12 0792 VARSAVSKY,61
 NI 13 0792 VARSAVSKY,61
 NI 14 0792 VARSAVSKY,61
 NI 15 0792 VARSAVSKY,61
 NI 16 0792 VARSAVSKY,61
 NI 17 0792 VARSAVSKY,61
 RB 1072 HUGHES,64
 CS 1063 HANSEN,64
 1456 WITTING,65
 1813 VAINSHTEIN,64
 CS * 1272 SHELTON,65
 BA 1 1876 PETRINI,65
 HG 0202 YAVORSKY,46
 0452 GRZINSKI,59
 HG * 1103 YAVORSKY,47
 H2 0045 ROSCOE,41
 H2 1 1055 PEEK,64
 O2 1557 BAUER,65
 N2 1557 BAUER,65

0455 HILL,51
 0792 VARSAVSKY,61

0792 VARSAVSKY,61

1813 VAINSHTEIN,64

1072 HUGHES,64
 1469 KARULE,65

0272 YAVORSKY,45
 1414 LANE,64

0194 MASSEY,32

1342 CALLAWAY,65

1558 BAUER,65

1558 BAUER,65

NORMALIZED

N2 1 1557 BAUER,65
 H2O 0294 NIIRA,49
 N O 1557 BAUER,65

RELATIVE

HE 0284 MASSEY,33
 0639 MORSE,32
 N 0484 SEATON,55
 O 1 0876 ALLER,50
 O 2 0876 ALLER,50
 NE 0068 MASSEY,34
 AR 0068 MASSEY,34
 CA 1 0963 JEFFERIES,54
 HG 0019 PENNEY,32
 H2 0987 COOLIDGE,44
 O2 0987 COOLIDGE,44

1558 BAUER,65

1558 BAUER,65

0386 BARANGER,57
 1297 JONES,36

ELECTRON DETACHMENT

EXPERIMENTAL

NORMALIZED

H - 1880 TISONE,66

ELECTRON DETACHMENT

THEORETICAL

NORMALIZED

H - 0415 GELTMAN,60
 0576 RUOGE,64
 1483 TIETZ,63
 O - 0365 WATANABE,50
 CL - 1300 MASSEY,36

0470 MCCOWELL,63
 1125 GELTMAN,60
 1764 SMIRNOV,66

1463 ROBINSON,65

OE-EXCITATION

EXPERIMENTAL

NORMALIZED

HE * 0569 PHELPS,55
 CS * 0279 MOHLER,32
 RELATIVE

HG * 0102 LATYSHEFF,30

OE-EXCITATION

THEORETICAL

NORMALIZED

HE * 0426 MARRIOTT,57
 O * 0366 YAMANOUCI,50
 CS * 1456 WITTING,65
 HG * 0202 YAVORSKY,46

1658 MARRIOTT,66

IONIZATION		EXPERIMENTAL		IONIZATION		EXPERIMENTAL	
NORMALIZED				NORMALIZED			
H	0320 FITE,58 0978 ROTHE,62	0491 BOYO,60 1106 BOKSENBURG,61		CS	1104 MCFARLAND,65 1875 HEIL,66	1217 BRINK,64 1972 ZAPESCHNYI,66	
HE	0002 COMPTON,25 0225 SMITH,30 0340 LAMPE,57 0626 ASUNOI,63 0743 ASUNOI,63 0799 SILVERMAN,64 0974 HARRISON,56 1105 ENGLANDER-GOLDEN,64 1329 FOX,61 1706 SCHRAM,66 1858 ADAMCZYK,66 1895 ZAPESCHNYI,65	0029 LISKA,34 0335 BOYO,58 0373 LASSETT,53 0674 COMPTON,18 0787 HUGHES,63 0942 ST JOHN,64 0995 GOODRICH,37 1281 SCHRAM,65 1459 RAPP,65 1748 SCHRAM,66 1863 SCHRAM,66		BA	1502 MCFARLAND,65		
HE *	0280 FITE,63			HG	0002 COMPTON,25 0021 TATE,32 0040 NOTTINGHAM,39 0224 SMITH,31 0303 RIEDE,54 1329 FOX,61	0004 JONES,27 0029 LISKA,34 0069 ARNDT,35 0228 BLEAKNEY,30 0974 HARRISON,56	
HE 1	0907 GOLDOER,61			HG 1	0723 LATYPOV,64		
LI	0773 FELDMAN,63	1104 MCFARLAND,65		HG 2	0723 LATYPOV,64		
LI 1	1421 LINEBERGER,65			TL	1502 MCFARLAND,65		
N	0831 PETERSON,64	1268 SMITH,62		H2	0002 COMPTON,25 0041 NEWHALL,42 0320 FITE,58 0340 LAMPE,57 1105 ENGLANDER-GOLDEN,64 1281 SCHRAM,65 1748 SCHRAM,66 1863 SCHRAM,66	0018 TATE,32 0260 ENGELHARDT,63 0335 BOYO,58 0974 HARRISON,56 1106 BOKSENBURG,61 1459 RAPP,65 1858 ADAMCZYK,66	
N 1	0261 HARRISON,63			O2	0018 TATE,32 0334 STEWART,58 0377 SILVERMAN,57 0861 PRASAD,61 0946 GLICK,64 1105 ENGLANDER-GOLDEN,64 1281 SCHRAM,65 1459 RAPP,65 1838 NISHIMURA,66	0323 FITE,59 0340 LAMPE,57 0853 CRAGGS,57 0938 ASUNOI,63 1075 SILVERMAN,64 1106 BOKSENBURG,61 1748 SCHRAM,66 1863 SCHRAM,66	
O	0323 FITE,59 0978 ROTHE,62	0602 JAHODA,52 1106 BOKSENBURG,61		N2	0002 COMPTON,25 0153 COOK,62 0340 LAMPE,57 0857 SILVERMAN,65 0992 SHERIDAN,61 1106 BOKSENBURG,61 1281 SCHRAM,65 1459 RAPP,65 1748 SCHRAM,66	0018 TATE,32 0333 STEWART,56 0831 PETERSON,64 0946 GLICK,64 1105 ENGLANDER-GOLDEN,64 1123 HAYAKAWA,64 1329 FOX,61 1504 MCCONKEY,65 1863 SCHRAM,66	
NE	0002 COMPTON,25 0225 SMITH,30 0626 ASUNOI,63 0831 PETERSON,64 1281 SCHRAM,65 1459 RAPP,65 1748 SCHRAM,66 1863 SCHRAM,66	0012 BLEAKNEY,30 0340 LAMPE,57 0743 ASUNOI,63 1105 ENGLANDER-GOLDEN,64 1329 FOX,61 1706 SCHRAM,66 1858 ADAMCZYK,66		H2D	0340 LAMPE,57	1782 SCHUTTEN,66	
NE 1	0264 GOLDOER,63	0723 LATYPOV,64		N H3	0340 LAMPE,57		
NA	0088 FUNK,30 1217 BRINK,64	1104 MCFARLAND,65 1683 ZAPESCHNYI,65		N O	0018 TATE,32 0946 GLICK,64 1459 RAPP,65	0340 LAMPE,57 1105 ENGLANDER-GOLDEN,64	
NA 1	1568 HOOPER,66			C2H2	0018 TATE,32	0340 LAMPE,57	
AR	0002 COMPTON,25 0225 SMITH,30 0357 TOZER,60 0743 ASUNOI,63 0946 GLICK,64 1281 SCHRAM,65 1459 RAPP,65 1748 SCHRAM,66	0012 BLEAKNEY,30 0340 LAMPE,57 0626 ASUNOI,63 0831 PETERSON,64 1105 ENGLANDER-GOLDEN,64 1329 FOX,61 1705 SCHRAM,66 1863 SCHRAM,66		N2O	1105 ENGLANDER-GOLDEN,64 1771 LATIMER,65	1459 RAPP,65	
AR 1	0723 LATYPOV,64			C D2	0340 LAMPE,57 0938 ASUNOI,63 1105 ENGLANDER-GOLDEN,64 1700 NISHIMURA,66	0865 CRAGGS,60 0948 BHALLA,60 1459 RAPP,65	
AR 2	0723 LATYPOV,64			C D	0018 TATE,32 0867 CRAGGS,58 1105 ENGLANDER-GOLDEN,64 1459 RAPP,65	0340 LAMPE,57 0938 ASUNOI,63 1329 FOX,61	
K	0088 FUNK,30 1104 MCFARLAND,65	0773 FELDMAN,63 1217 BRINK,64		H CL	0002 COMPTON,25	0340 LAMPE,57	
K 1	1568 HOOPER,66			C H4	0340 LAMPE,57 0946 GLICK,64 1459 RAPP,65 1858 ADAMCZYK,66	0356 TOZER,58 1105 ENGLANDER-GOLDEN,64 1690 SCHRAM,66 1863 SCHRAM,66	
CA	1502 MCFARLAND,65			H2S	0340 LAMPE,57		
ZN	1687 POTTIE,66			H O	1396 BRIGLIA,65		
KR	0340 LAMPE,57 0626 ASUNOI,63 1105 ENGLANDER-GOLDEN,64 1459 RAPP,65 1748 SCHRAM,66	0357 TOZER,60 0743 ASUNOI,63 1281 SCHRAM,65 1705 SCHRAM,66 1863 SCHRAM,66		D2	0260 ENGELHARDT,63 1281 SCHRAM,65 1863 SCHRAM,66	1105 ENGLANDER-GOLDEN,64 1459 RAPP,65	
KR 1	0723 LATYPOV,64			C2H4	0340 LAMPE,57	1459 RAPP,65	
KR 2	0723 LATYPOV,64			C2H6	0340 LAMPE,57	1690 SCHRAM,66	
RB	0773 FELDMAN,63 1217 BRINK,64	1104 MCFARLAND,65		S F6	0940 ASUNOI,64	1459 RAPP,65	
SR	1502 MCFARLAND,65			C H3CL	0340 LAMPE,57		
AG	1081 LYUBIMOV,63			C D4	1690 SCHRAM,66	1863 SCHRAM,66	
CO	1687 POTTIE,66			TE2	1687 POTTIE,66		
XE	0340 LAMPE,57 0626 ASUNOI,63 1105 ENGLANDER-GOLDEN,64 1459 RAPP,65 1748 SCHRAM,66	0357 TOZER,60 0743 ASUNOI,63 1281 SCHRAM,65 1705 SCHRAM,66 1863 SCHRAM,66					
XE 1	0723 LATYPOV,64						
XE 2	0723 LATYPOV,64						

IONIZATION		EXPERIMENTAL		IONIZATION		EXPERIMENTAL	
RELATIVE				RELATIVE			
H	1508 MCGOWAN,65			R8	0216 TATE,34		0283 FIQUET-FAYARO,63
HE	0027 HUGHES,33	0035 BLEAKNEY,36		SR	0283 FIQUET-FAYARO,63		
	0066 MOHR,34	0280 FITE,63		AG	0566 BLAIS,60		1578 DE MARIA,65
	0304 HANLE,52	0331 STANTON,60		CO	0313 HICKAM,54		1578 DE MARIA,65
	0339 OTVOS,56	0353 FOX,58		TE	1578 DE MARIA,65		
	0525 KRAUSS,59	0539 HAYAKAWA,55		XE	0216 TATE,34	0242 MORRISON,59	
	0625 JESSE,25	0692 KUYATT,63			0271 FOX,54	0304 HANLE,52	
	0704 HICKAM,54	0777 BRINK,61			0308 KUYATT,64	0310 FOX,53	
	0986 BLANC,62	1076 ZAPESOCHNYI,63			0353 FOX,54	0481 CLOUTIER,59	
	1215 HUTCHISON,64	1244 MORRISON,53			0525 KRAUSS,59	0591 BURNES,64	
	1373 SIMPSON,65	1530 FIQUET-FAYARO,65			0692 KUYATT,63	0704 HICKAM,54	
	1538 HADDT,65	1871 LIPELES,65			0707 FOX,60	0854 CLARKE,54	
	1919 FIQUET-FAYARD,65				0986 BLANC,62	1034 FONER,61	
LI	0150 BRINK,62				1069 OORMAN,59	1070 DORMAN,61	
C	0659 CRAWFORD,62				1107 MORRISON,64	1137 KISER,62	
NE	0012 BLEAKNEY,30	0066 MOHR,34			1244 MORRISON,53	1453 STUBER,65	
	0213 STEVENSON,42	0242 MORRISON,59		XE 1	0713 KUPRIYANOV,64		
	0280 FITE,63	0339 OTVOS,56		XE 2	0713 KUPRIYANOV,64		
	0481 CLOUTIER,59	0525 KRAUSS,59		CS	0216 TATE,34		
	0625 JESSE,25	0692 KUYATT,63		AU	0566 BLAIS,60		
	0704 HICKAM,54	0986 BLANC,62		HG	0012 BLEAKNEY,30	0014 HAUPT,31	
	1039 KANEKO,61	1068 OORMAN,61			0066 MOHR,34	0211 MCFADDEN,46	
	1244 MORRISON,53	1373 SIMPSON,65			0215 BELL,39	0313 HICKAM,54	
	1453 STUBER,65	1920 ZIESEL,65			1070 OORMAN,61	1095 BLEAKNEY,29	
NE *	0280 FITE,63				1244 MORRISON,53	1578 DE MARIA,65	
NE 1	0713 KUPRIYANOV,64			HG 1	0713 KUPRIYANOV,64		
NA	0150 BRINK,62	0216 TATE,34		HG 2	0713 KUPRIYANOV,64		
	0466 OHELER,59	1039 KANEKO,61		U	1261 MANN,64		
	1919 FIQUET-FAYARD,65	1920 ZIESEL,65		H2	0009 BLEAKNEY,30	0041 NEWHALL,42	
MG	1039 KANEKO,61	1920 ZIESEL,65			0066 MOHR,34	0170 BAERWALD,25	
AL	0659 CRAWFORD,62				0255 SMYTH,24	0339 OTVOS,56	
AR	0012 BLEAKNEY,30	0066 MOHR,34			0539 HAYAKAWA,55	0625 JESSE,25	
	0213 STEVENSON,42	0242 MORRISON,59			0659 CRAWFORD,62	0660 KALLMANN,27	
	0280 FITE,63	0283 FIQUET-FAYARO,63			1164 BRIGLIA,65	1292 BRIGLIA,65	
	0304 HANLE,52	0339 OTVOS,56			1303 GEIGER,64	1415 MCGOWAN,65	
	0483 COTTIN,59	0525 KRAUSS,59		02	0167 RANDOLPH,58	0214 HAGSTRUM,41	
	0539 HAYAKAWA,55	0625 JESSE,25			0255 SMYTH,24	0334 STEWART,58	
	0692 KUYATT,63	0704 HICKAM,54			0339 OTVOS,56	0341 FROST,58	
	0777 BRINK,61	0781 FOX,60			0526 FROST,59	0778 OORMAN,60	
	0958 MELTON,62	0986 BLANC,62			0985 BRION,64	1089 MCGOWAN,64	
	1034 FONER,61	1038 KANEKO,61			1108 DORMAN,63		
	1069 OORMAN,59	1070 DORMAN,61		N2	0017 VAUGHAN,31	0066 MOHR,34	
	1100 BECKER,64	1124 FIQUET-FAYARO,62			0214 HAGSTRUM,41	0271 FOX,54	
	1162 FIQUET-FAYARD,62	1244 MORRISON,53			0339 OTVOS,56	0523 FROST,55	
	1373 SIMPSON,65	1453 STUBER,65			0625 JESSE,25	0660 KALLMANN,27	
	1530 FIQUET-FAYARO,65	1919 FIQUET-FAYARO,65			0778 OORMAN,60	0854 CLARKE,54	
AR *	0280 FITE,63				0953 STEWART,55	1038 KANEKO,61	
AR 1	0713 KUPRIYANOV,64				1068 OORMAN,61	1108 OORMAN,63	
K	0150 BRINK,62	0216 TATE,34			1244 MORRISON,53	1509 FINEMAN,65	
	0283 FIQUET-FAYARD,63	1039 KANEKO,61			1530 FIQUET-FAYARO,65	1648 ZAPESOCHNYI,61	
	1124 FIQUET-FAYARD,62	1530 FIQUET-FAYARD,65			1987 HAYAKAWA,65		
	1919 FIQUET-FAYARO,65			H2D	0483 COTTIN,59	0558 SCHULZ,60	
CA	0283 FIQUET-FAYARO,63	1045 KANEKO,63			0924 MANN,40	1919 FIQUET-FAYARO,65	
	1124 FIQUET-FAYARD,62			N H3	1068 OORMAN,61	1530 FIQUET-FAYARO,65	
FE	1874 COOPER,66			N O	0214 HAGSTRUM,41	0481 CLOUTIER,59	
CO	1874 COOPER,66				0854 CLARKE,54	1068 DORMAN,61	
NI	1874 COOPER,66				1530 FIQUET-FAYARO,65	1648 ZAPESOCHNYI,61	
CU	0566 BLAIS,60			CL2	0526 FROST,59	0708 FROST,60	
ZN	0283 FIQUET-FAYARD,63	0313 HICKAM,54		N2D	0339 OTVOS,56	1067 CURRAN,61	
	1167 FIQUET-FAYARD,63	1578 DE MARIA,65			1916 CONNOLLY,65		
SE	1578 DE MARIA,65			C O2	0339 OTVOS,56	0531 COLLIN,60	
KR	0216 TATE,34	0283 FIQUET-FAYARD,63			0847 ASUNDI,64	1068 DORMAN,61	
	0310 FOX,53	0339 OTVOS,56			1244 MORRISON,53	1530 FIQUET-FAYARO,65	
	0410 BURNES,61	0523 FROST,55			1919 FIQUET-FAYARO,65		
	0524 FROST,57	0526 FROST,59		C O	0017 VAUGHAN,31	0214 HAGSTRUM,41	
	0692 KUYATT,63	0704 HICKAM,54			0271 FOX,54	0310 FOX,53	
	0781 FOX,60	0958 MELTON,62			0339 OTVOS,56	0625 JESSE,25	
	0986 BLANC,62	1034 FONER,61			0941 FINEMAN,62	1038 KANEKO,61	
	1038 KANEKO,61	1070 OORMAN,61			1068 OORMAN,61	1096 HOGNESS,28	
	1107 MORRISON,64	1137 KISER,62			1648 ZAPESOCHNYI,61	1742 CUTHBERT,66	
	1215 HUTCHISON,64	1244 MORRISON,53					
	1453 STUBER,65	1530 FIQUET-FAYARD,65		C O 1	1742 CUTHBERT,66		
	1919 FIQUET-FAYARO,65			BR2	0708 FROST,60		
KR 1	0713 KUPRIYANOV,64	1492 BAKER,65					
KR 2	0713 KUPRIYANOV,64						

IONIZATION		EXPERIMENTAL	IONIZATION		THEORETICAL
RELATIVE			NORMALIZED		
H CL	0339 OTV05,56 1244 MORRISON,53	0707 FOX,60	HE	1345 LEE,65 1484 KUREPA,63 1554 LYASH,63 1557 BAUER,65 1788 BYRON,66	1457 VRIENS,65 1506 KINGSTON,65 1555 VELORE,63 1655 PEACH,66
C H4	0066 MOHR,34 0524 FROST,57 0625 JESSF,25	0339 OTV05,56 0539 HAYAKAWA,55	HE *	1060 VRIENS,64	
I2	0526 FROST,59	0708 FROST,60	HE 1	0057 BURGE55,63 0735 BURGE55,60 1060 VRIENS,64 1772 RUOGE,65	0417 BURGE55,61 0892 BURGE55,63 1436 BURKE,65
H25	0339 OTV05,56	1530 FIQUET-FAYARD,65	LI	0570 GRYZINSKI,63 1014 GRYZINSKI,65 1146 WU,44 1272 SHELTON,65 1299 MCCODWELL,65 1502 MCFARLAND,65	0873 PEACH,64 1044 DRAWIN,61 1190 WU,40 1273 PEACH,65 1464 MCFARLAND,65 1655 PEACH,66
P H3	0339 OTV05,56		LI 1	1044 DRAWIN,61	
C 52	0339 OTV05,56	0531 COLLIN,40	LI 2	1044 DRAWIN,61	
H D	0539 HAYAKAWA,55		HE	1273 PEACH,65 1655 PEACH,66	1502 MCFARLAND,65
D2	0539 HAYAKAWA,55		N	0453 SEATON,59 1557 BAUER,65	1463 ROBINSON,65
C2H4	0339 OTV05,56	0539 HAYAKAWA,55	D	0453 SEATON,59 1557 BAUER,65	1463 ROBINSON,65
C2H6	0339 OTV05,56		O 4	0143 TREFFTZ,63	1046 MALIK,61
H62	0211 MCFADDEEN,46		O 5	0143 TREFFTZ,63	0814 VARSAVSKY,63
C H3CL	0339 OTV05,56	0524 FROST,57	NE	0147 NEU,58 0455 HILL,51 1115 DCHKUR,63 1463 ROBINSON,65 1506 KINGSTON,65	0210 INOKUTI,62 1060 VRIENS,64 1457 VRIENS,65 1484 KUREPA,63 1557 BAUER,65
C H3BR	0339 OTV05,56	0524 FROST,57	NE *	1060 VRIENS,64	
C H3I	0339 OTV05,56	0524 FROST,57	NE 1	1060 VRIENS,64	
I CL	0708 FROST,60		NA	1272 SHELTON,65 1476 PRESNYAKOV,65 1654 PEACH,66	1464 MCFARLAND,65 1502 MCFARLAND,65 1655 PEACH,66
I BR	0708 FROST,60		MG	1502 MCFARLAND,65 1655 PEACH,66	1654 PEACH,66
H2O2	1132 FONER,62		AR	0147 NEU,58 1014 GRYZINSKI,65 1457 VRIENS,65 1484 KUREPA,63 1557 BAUER,65	0881 GOLANT,59 1060 VRIENS,64 1463 ROBINSON,65 1506 KINGSTON,65
C2N2	0339 OTV05,56		AR *	1060 VRIENS,64	
H C N	0339 OTV05,56		K	1272 SHELTON,65 1502 MCFARLAND,65	1464 MCFARLAND,65
C H3F	0524 FROST,57		CA	1502 MCFARLAND,65	
U D	1261 MANN,64		CA 1	0960 ZIRIN,62	
TE2	1578 OE MARIA,65		FE 13	0443 SCHWARTZ,59 1058 KULANDER,63	0455 HILL,51
SE2	1578 OE MARIA,65		FE 14	1849 RUOGE,66	
52	1578 OE MARIA,65		FE 15	1849 RUOGE,66	
			NI	0140 BURHOP,40 0455 HILL,51 1044 DRAWIN,61	0452 GRYZINSKI,59 1014 GRYZINSKI,65 1115 DCHKUR,63
			KR	0147 NEU,58 1484 KUREPA,63	1457 VRIENS,65 1506 KINGSTON,65
			R8	1272 SHELTON,65 1502 MCFARLAND,65	1464 MCFARLAND,65
			SR	1502 MCFARLAND,65	
			SR 1	0960 ZIRIN,62	
			AG	0140 BURHOP,40 0455 HILL,51 1014 GRYZINSKI,65	0452 GRYZINSKI,59 0999 WETZEL,36
			SN 49	0057 BURGE55,63	
			XE	0147 NEU,58 1484 KUREPA,63	1457 VRIENS,65 1506 KINGSTON,65

IONIZATION		THEORETICAL
NORMALIZED		
H	0061 MASSEY,33 0282 YAVORSKY,45 0390 GELTMAN,56 0461 MORANO,59 0587 KOGAN,59 0825 KINGSTON,64 0844 VELORE,64 0852 PETERKOP,59 0892 BURGE55,63 0996 AKERIS,60 1044 DRAWIN,61 1115 DCHKUR,63 1165 MICHAEL,63 1273 PEACH,65 1436 BURKE,65 1458 OMIOVAR,65 1476 PRESNYAKOV,65 1544 RUOGE,65 1548 VELORE,63 1595 KINGSTON,65 1848 RUOGE,66 1879 VINKALNS,65	0101 VELORE,62 0307 STAUFFER,63 0424 MCCARROLL,57 0533 GELTMAN,63 0671 STABLER,64 0829 PETERKOP,59 0848 OMIOVAR,64 0863 GRYZINSKI,64 0913 AKERIS,61 1014 GRYZINSKI,65 1071 OMIOVAR,64 1129 PETERKOP,62 1262 PRASAD,65 1426 VELORE,62 1457 VRIENS,65 1472 VELORE,65 1541 DCHKUR,65 1547 VELORE,63 1582 VELORE,65 1655 PEACH,66 1878 VINKALNS,65
H *	0307 STAUFFER,63 0430 SWAN,55 1071 OMIOVAR,64 1458 OMIOVAR,65 1595 KINGSTON,65 1694 KINGSTON,66	0413 MCCREA,60 0848 OMIOVAR,64 1436 BURKE,65 1526 OMIOVAR,65 1656 PRASAD,66 1848 RUOGE,66
HE	0024 WETZEL,33 0147 NEU,58 0452 GRYZINSKI,59 0765 ITDH,60 0863 GRYZINSKI,64 1014 GRYZINSKI,65 1060 VRIENS,64 1273 PEACH,65	0061 MASSEY,33 0390 GELTMAN,56 0455 HILL,51 0838 VAN DE WALLE,61 0999 WETZEL,36 1044 DRAWIN,61 1115 DCHKUR,63 1302 SLOAN,65

IONIZATION		THEORETICAL		DISSOCIATION		EXPERIMENTAL	
NORMALIZED				RELATIVE			
C5	1165 MICHAEL,63 1502 MCFAPLAND,65	1464 MCFAPLAND,65		O2	0167 RANDOLPH,58 0778 OORMAN,60	0526 FROST,59	
C5 *	1272 SHELTON,65			H2D	0924 MANN,40		
BA	1502 MCFAPLAND,65			N H3	0924 MANN,40		
HG	0140 BUCHER,40 0642 PRASAD,63 1060 VRIENS,64 1557 BAUER,65	0455 MILL,51 0783 YAVORSKY,47 1115 OCHKUR,63		N O	0481 CLOUTIER,59		
HG *	1060 VRIENS,64			CL2	0708 FPOST,60		
TL	1502 MCFAPLAND,65			C O	0778 OORMAN,60	0941 FINEMAN,62	
NO	1558 BAUER,65			8P2	0708 FPOST,60		
H2	0147 NEU,58 0455 MILL,51 0863 GRYZINSKI,64 1044 DRAWIN,61 1457 VRIENS,65 1558 BAUER,65	0452 GRYZINSKI,59 0570 GRYZINSKI,63 1014 GRYZINSKI,65 1115 OCHKUR,63 1557 BAUER,65		I2	0526 FPOST,59 0778 OORMAN,60	0708 FPOST,60	
U2	0642 PRASAD,63 1557 BAUER,65	1457 VRIENS,65 1558 BAUER,65		C CL4	0950 MAPHOTT,54	1231 CRAGGS,52	
N2	0147 NEU,58 1457 VRIENS,65 1558 BAUER,65	0642 PRASAD,63 1557 BAUER,65		DISSOCIATION		THEORETICAL	
N O	1557 BAUER,65			NORMALIZED			
C2M2	1557 BAUER,65	1558 BAUER,65		H2	0194 MASSEY,32 1862 KHARE,66	0695 EDELSTEIN,58	
C O	0642 PRASAD,63 1558 BAUER,65	1557 BAUER,65		H2 I	0370 IVASH,58 1465 REEK,65	0394 KERNEH,53	
C H4	0210 INOKUTI,62			H2D	0294 NIIRA,49		
RELATIVE				RELATIVE			
M	1144 DE LA PIRELLE,49			M2	0033 SASAKI,35		
ME	1144 DE LA PIRELLE,49	1673 MITTLEMAN,66		FREE-FREE EMISSION		THEORETICAL	
NE	1144 DE LA PIRELLE,49			NORMALIZED			
NA	1144 DE LA PIRELLE,49			M	1414 LANE,64		
AR	1144 DE LA PIRELLE,49			H I	1414 LANE,64		
KP	1144 DE LA PIRELLE,49			N	0256 DEVORE,64	0939 BREENE,61	
AG	1144 DE LA PIRELLE,49			N I	0256 DEVORE,64		
XE	1144 DE LA PIRELLE,49			O	0574 BREENE,63		
H2	0005 KRAUSS,57			DISSOCIATIVE IONIZATION		EXPERIMENTAL	
O2	0005 KRAUSS,57			NORMALIZED			
DISSOCIATION		EXPERIMENTAL					
NORMALIZED							
H2	0260 ENGELMARDT,63 1566 CORPIGAN,65	0354 CORPIGAN,58		M2	0041 NEWMALL,42 1410 RAPP,65	1105 ENGLANDER-GOLDEN,64 1858 ADAMCZYK,66	
H2 I	1501 DUNN,65	1503 DUNN,65		O2	0946 GLICK,64 1410 RAPP,65	1105 ENGLANDER-GOLDEN,64	
O2	0376 LASSETTRE,54 1075 SILVERMAN,64	0377 SILVERMAN,57 1460 RAPP,65		N2	0153 COOK,62 1105 ENGLANDER-GOLDEN,64	0946 GLICK,64 1410 RAPP,65	
N2	0992 SHELTON,61			H2D	1782 SCHUTTEN,66		
H2D	0382 LASSETTRE,58			N O	0946 GLICK,64 1410 RAPP,65	1105 ENGLANDER-GOLDEN,64	
N O	1460 RAPP,65			N2O	1105 ENGLANDER-GOLDEN,64	1410 RAPP,65	
N2D	1460 RAPP,65			C O2	1105 ENGLANDER-GOLDEN,64	1410 RAPP,65	
C O2	1460 RAPP,65			C O	1105 ENGLANDER-GOLDEN,64	1410 RAPP,65	
C O	1460 RAPP,65			C H4	0946 GLICK,64 1410 RAPP,65	1105 ENGLANDER-GOLDEN,64 1858 ADAMCZYK,66	
O2	0260 ENGELMARDT,63			O2	1105 ENGLANDER-GOLDEN,64		
RELATIVE				RELATIVE			

DISSOCIATIVE IONIZATION			EXPERIMENTAL			RADIOACTIVE ATTACHMENT			EXPERIMENTAL		
RELATIVE						RELATIVE					
H2	0007 SASAKI,35 0041 NEWMALL,42 0130 SASAKI,41 0214 HAGSTRUM,41 0364 OUNN,63 0456 BAUER,47 0660 KALLMANN,27		0009 BLEAKNEY,30 0107 HAGSTRUM,51 0135 SASAKI,35 0255 SMYTH,24 0451 STEVENSON,60 0465 SCHAEFFER,50 1402 LOZIER,30			F	1774 POPP,65				
						I	0839 STEINER,64				
						RADIOACTIVE ATTACHMENT			THEORETICAL		
O2	0107 HAGSTRUM,51 0255 SMYTH,24 0526 FROST,59		0214 HAGSTRUM,41 0341 FROST,58 0778 OORMAN,60			NORMALIZED					
N2	0017 VAUGHAN,31 0214 HAGSTRUM,41 0667 TATE,32 0953 STEWART,55		0107 HAGSTRUM,51 0660 KALLMANN,27 0854 CLARKE,54 1543 BRIGLIA,64			H	1166 JEN,33 1316 LOCHTE-HOLTGREVEN,58		1300 MASSEY,36		
H2O	0298 SJOGREN,63 0924 MANN,40		0483 COTTIN,59			O	0247 YAMANOUCHI,40 1180 MASSEY,43		1141 BATES,43 1197 BRANSCOMB,57		
N H3	0924 MANN,40					NA	0297 HUANG,45		1300 MASSEY,36		
N O	0107 HAGSTRUM,51 0481 CLOUTIER,59 1691 DORMAN,66		0214 HAGSTRUM,41 1518 HANSON,37			CL	1300 MASSEY,36				
CL2	0526 FROST,59		0708 FROST,60			HG	1300 MASSEY,36				
N2O	1067 CURRAN,61		1691 OORMAN,66			DISSOCIATIVE RECOMBINATION			EXPERIMENTAL		
C O	0017 VAUGHAN,31 0214 HAGSTRUM,41 0778 OORMAN,60 1096 HUGNESS,28		0107 HAGSTRUM,51 0667 TATE,32 0941 FINEMAN,62 1742 CUTHBERT,66			NORMALIZED					
BR2	0708 FROST,60					O2	1	1344 BIONDI,64			
H CL	1518 HANSON,37					N2	1	0698 FAIRE,58 1344 BIONDI,64		0703 BIALECKE,58	
C H4	0527 GEEHK,51 1691 DORMAN,66		0539 HAYAKAWA,55			N H3	1	0887 COURT,64			
I2	0526 FROST,59 0778 OORMAN,60		0708 FROST,60			N O	1	0920 OORING,62			
C CL4	0133 FOX,61 1231 CRAIGGS,52		0950 MARRIOTT,54			NE2	1	1344 BIONDI,64			
O2	0456 BAUER,47		0465 SCHAEFFER,50			AR2	1	1344 BIONDI,64			
C2H4	0539 HAYAKAWA,55					KR2	1	0254 RICHARDSON,52			
S F6	0133 FOX,61					C52	1	0177 HAMMER,63			
B CL3	1118 MARRIOTT,57					N4	1	1344 BIONDI,64			
H2O2	1132 FUNER,62					DISSOCIATIVE RECOMBINATION			THEORETICAL		
C2N2	1224 STEVENSON,50					NORMALIZED					
H C N	1224 STEVENSON,50					H2	1	0368 BAUER,56		1665 WILKINS,66	
T	0465 SCHAEFFER,50					O2	1	0189 NISBET,63			
						N O	1	0189 NISBET,63 1482 GIBBONS,63		0579 SQUIRES,61	
	DISSOCIATIVE IONIZATION		THEORETICAL								
	RELATIVE					RADIOACTIVE CAPTURE			EXPERIMENTAL		
H2	0342 STEVENSON,47 1144 DE LA RIPELLE,49		0364 OUNN,63			NORMALIZED					
O2	0342 STEVENSON,47					H	1	0241 FOWLER,59		0346 CRAIGGS,47	
						AR	1	0355 KENTY,28		0969 MIES,61	
						KR	1	0969 MIES,61			
						XE	1	0969 MIES,61			
						CS	1	1213 MOHLER,29			
						HE2	1	0802 JOHNSON,50			
						RELATIVE					
						AR	1	0969 MIES,61			
						KR	1	0969 MIES,61			
						XE	1	0969 MIES,61			
						NORMALIZED					
H	0090 BRANSCOMB,62		1008 BRANSCOMB,62								
O	0038 BRANSCOMB,58 1008 BRANSCOMB,62		0090 BRANSCOMB,62								
HG	1279 HEY,30										
O2	0090 BRANSCOMB,62		1008 BRANSCOMB,62								

NORMALIZED

H 1 0146 BATES,67
0358 ZANSTRA,46
1010 STUECKELBERG,30

HE 1 0715 BURGESS,60

O 1 0243 BATES,39
1180 MASSEY,63

MG 9 0455 HILL,51

CA 1 0960 ZIRIN,62

FE 13 0455 HILL,51

SR 1 0960 ZIRIN,62

C5 1 1805 NORCROSS,66

RELATIVE

H 1 0245 CILLIE,32

ROTATIONAL EXCITATION

EXPERIMENTAL

NORMALIZED

H2 0260 ENGELHARDT,63

N2 0181 FROST,62
0316 ANDERSON,56

O2 0260 ENGELHARDT,63

RELATIVE

H2 0042 BENNETT,42

ROTATIONAL EXCITATION

THEORETICAL

NORMALIZED

H2 0392 GERJUOY,55
0702 OALGARN,65
1452 TAKAYANAGI,65
1666 GELTMAN,66

O2 1477 TAKAYANAGI,65
1666 GELTMAN,66
1816 OKSYUK,66

N2 0401 GERJUOY,55
1082 MJOLSNES,64
1452 TAKAYANAGI,65
1666 GELTMAN,66
1852 CHEN,66

H20 0385 ALTSHULER,57

N H3 0385 ALTSHULER,57

C O 0724 TAKAYANAGI,64

VIBRATIONAL EXCITATION

EXPERIMENTAL

NORMALIZED

H2 0260 ENGELHARDT,63
1043 FROST,62

O2 1310 SCHULZ,62

N2 0218 ENGELHARDT,64
0984 SCHULZ,64

N20 1478 GEIGER,65

C O2 1478 GEIGER,65

C O 0984 SCHULZ,64

0243 BATES,39
0444 BATES,62
1414 LANE,64

0960 ZIRIN,62

0934 BREENE,61

NORMALIZED

D2 0260 ENGELHARDT,63

C2H4 1478 GEIGER,65

RELATIVE

H2 0686 RAMIEN,31

N2 0098 HARRIES,27
0328 SCHULZ,59

N20 0932 SCHULZ,61

C O2 1065 ROERSCH,64

C O 0098 HARRIES,27

VIBRATIONAL EXCITATION

THEORETICAL

NORMALIZED

H2 0043 WU,47
0434 CARSON,54
0962 CHEN,62
1564 BREIG,65

N2 0402 KERNER,53
0964 CHEN,64
1852 CHEN,66

N20 1478 GEIGER,65

C O2 1478 GEIGER,65

C O 1564 BREIG,65

C2H4 1478 GEIGER,65

RELATIVE

N2 1331 HERZENBERG,62

DISSOCIATIVE ATTACHMENT

EXPERIMENTAL

NORMALIZED

H2 0324 SCHULZ,59
0988 RAPP,64
1451 RAPP,65

O2 0131 CHANIN,59
0337 TOZER,58
0853 CRAGGS,57
0938 ASUNOI,63
0988 RAPP,64
1289 SCHULZ,62
1565 CHRISTOPHOROU,65

H20 0766 BUCHELNKOVA,59

N O 0988 RAPP,64
1460 RAPP,65

N20 0988 RAPP,64
1460 RAPP,65

C O2 0865 CRAGGS,60
0988 RAPP,64
1289 SCHULZ,62

C O 0867 CRAGGS,58
0988 RAPP,64
1289 SCHULZ,62

H CL 0766 BUCHELNKOVA,59

I2 0134 BUCHOHL,41
0654 KEEFFE,62

H O 1451 RAPP,65

O2 1372 RAPP,64
1460 RAPP,65

S F6 0858 HICKAM,56

0957 KHVOSTENKO,58
1372 RAPP,64
1460 RAPP,65

0134 BUCHOHL,41
0766 BUCHELNKOVA,59
0861 PRASAU,61
0943 THOMPSON,59
1105 ENGLANDER-GOLOEN,64
1460 RAPP,65

1016 HURST,61

1105 ENGLANDER-GOLOEN,64

1105 ENGLANDER-GOLOEN,64

0938 ASUNOI,63
1105 ENGLANDER-GOLOEN,64
1460 RAPP,65

0938 ASUNOI,63
1105 ENGLANDER-GOLOEN,64
1460 RAPP,65

0541 BIONDI,58
1064 BIONDI,58

1460 RAPP,65

1451 RAPP,65

1460 RAPP,65

O1550CIATIVE ATTACHMENT		EXPERIMENTAL	TOTAL SCATTERING		EXPERIMENTAL
NORMALIZED			NORMALIZED		
N 02	0776 FOX,60		H	0305 MAECKER,55 0454 ORAWIN,56 0502 WIESE,63 1018 NEYNABER,61	0322 BRACKMANN,58 0493 KOLESIKOV,62 0538 HAMMER,56
H 8R	0766 BUCHELNIKOVA,59				
58 CL3	1270 GROH,63		HE	0001 BROOE,25 0072 MAYER,21 0074 RAMSAUER,21 0086 RAMSAUER,29 0116 FUCHTBAUER,34 0161 PALMER,31 0186 RAMSAUER,23 0201 TOWNSENO,23 0249 CHEN,61 0312 PHELPS,51 0317 ANDERSON,56 0530 PACK,61 0637 LANGMUIR,28 0869 GOLOEN,65 0995 GOORICH,37 1062 FROST,64 1473 HARRIS,63 1591 KOZLOV,65	0010 NORMANO,30 0073 RAMSAUER,21 0082 BRUCHE,27 0094 RAMSAUER,32 0160 GREEN,30 0174 KOLLATH,28 0192 FRANCI,47 0233 GOUGAL,58 0306 ANDERSON,55 0314 GOULOV,54 0454 ORAWIN,56 0594 HIRSHFELD,58 0819 BOWE,60 0888 PHELPS,60 1041 BULEWICZ,62 1348 GOLOAN,65 1489 CROMPTON,65 1786 KOZLOV,65
RELATIVE					
H2	0232 BRASEFELD,29	1592 SCHULZ,65			
02	0018 TATE,32 0166 MUSCHLITZ,57 0214 HAGSTRUM,41 0341 FROST,58 0699 FROST,58	0107 HAGSTRUM,51 0167 RANDOLPH,58 0280 FITE,63 0526 FROST,59 1525 FITE,65			
02 *	0280 FITE,63				
H20	0018 TATE,32 0324 SCHULZ,59 0558 SCHULZ,60 0957 KHVOSTENKO,58 1709 TREPKA,63	0298 SJOGREN,63 0483 COTTIN,59 0924 MANN,40 1117 MUSCHLITZ,56			
N H3	0924 MANN,40		HE *	0868 NEYNABER,64	
N 0	0018 TATE,32 0214 HAGSTRUM,41 1263 FROST,58	0107 HAGSTRUM,51 0481 CLOUTIER,59 1518 HANSON,37	HE 1	0233 GOUGAL,58	0306 ANDERSON,55
C2H2	0018 TATE,32		LI	0016 PEREL,62	
CL2	0526 FROST,59	0708 FROST,60	C	0305 MAECKER,55	
N20	0347 KNOX,58 1067 CURRAN,61	0932 SCHULZ,61 1116 RUDOLPH,59	N	0026 NEYNABER,63	0305 MAECKER,55
C 02	0847 ASUNOI,64		O	0305 MAECKER,55 1013 NEYNABER,61 1577 OA18ER,65	0325 LIN,59 1490 SUNSHINE,65
C 0	0017 VAUGHAN,31 0107 HAGSTRUM,51 0481 CLOUTIER,59 0941 FINEMAN,62	0018 TATE,32 0214 HAGSTRUM,41 0667 TATE,32	F	0559 MAECKER,56	
8R2	0708 FROST,60		NE	0010 NORMANO,30 0082 BRUCHE,27 0086 RAMSAUER,29 0116 FUCHTBAUER,34 0186 RAMSAUER,23 0637 LANGMUIR,28 1019 CHEN,64 1400 GILARON,57	0074 RAMSAUER,21 0084 BRUCHE,29 0094 RAMSAUER,32 0174 KOLLATH,28 0312 PHELPS,51 0819 BOWE,60 1041 BULEWICZ,62 1473 HARRIS,63
H CL	0699 FROST,58 1518 HANSON,37	1119 FOX,57	NA	0006 BROOE,29	0016 PEREL,62
C H4	1709 TREPKA,63		AR	0031 BROOE,25 0072 MAYER,21 0074 RAMSAUER,21 0076 RUSCH,26 0086 RAMSAUER,29 0095 RAMSAUER,32 0160 GREEN,30 0175 GAERTNER,31 0197 TOWNSENO,22 0292 ENGELHAROT,64 0454 ORAWIN,56 0538 HAMMER,56 0819 BOWE,60 1007 BROOE,32 1062 FROST,64 1577 OA18ER,65 1752 WAHLIN,31 1891 ABERTH,63	0010 NORMANO,30 0073 RAMSAUER,21 0075 RAMSAUER,23 0082 BRUCHE,27 0094 RAMSAUER,32 0116 FUCHTBAUER,34 0174 KOLLATH,28 0186 RAMSAUER,23 0199 TOWNSENO,22 0312 PHELPS,51 0530 PACK,61 0637 LANGMUIR,28 0846 ABERTH,64 1041 BULEWICZ,62 1473 HARRIS,63 1591 KOZLOV,65 1786 KOZLOV,65 1962 GOLOEN,66
I2	0467 FOX,58 1120 FROST,58	0708 FROST,60			
P H3	1163 EISINGHAUS,64				
C CL4	0133 FOX,61 1231 CRAGGS,52	0950 MARRIOTT,54			
C2H4	1709 TREPKA,63				
H F	0699 FROST,58				
C2H6	1709 TREPKA,63				
S F6	0133 FOX,61 0699 FROST,58 1239 AHEARN,53	0481 CLOUTIER,59 0971 CURRAN,61			
H I	0699 FROST,58		K	0006 BROOE,29	0016 PEREL,62
8 CL3	1118 MARRIOTT,57		FE	0305 MAECKER,55	
H 8R	0699 FROST,58		ZN	0008 BROOE,30	0046 BROOE,25
C2N2	1230 MCCOWELL,52	1231 CRAGGS,52	KR	0075 RAMSAUER,23 0095 RAMSAUER,32 0174 KOLLATH,28 0312 PHELPS,51 0819 BOWE,60	0086 RAMSAUER,29 0118 FUCHTBAUER,35 0186 RAMSAUER,23 0439 PACK,62 1062 FROST,64
C F4	1231 CRAGGS,52				
03	1066 CURRAN,61				
A5 H3	1163 EISINGHAUS,64		RH	0006 BROOE,29	
51 H4	1163 EISINGHAUS,64		CO	0008 BROOE,30	0046 BROOE,25
			XE	0075 RAMSAUER,23 0095 RAMSAUER,32 0186 RAMSAUER,23 0439 PACK,62 1062 FROST,64	0086 RAMSAUER,29 0117 FUCHTBAUER,35 0312 PHELPS,51 0819 BOWE,60
O1550CIATIVE ATTACHMENT		THEORETICAL			
NORMALIZED			C5	0006 BROOE,29 0132 MORGULIS,63 0182 CHEN,62 0768 MULLANEY,61 0785 ROEHLING,63 0872 MEYERANO,64	0016 PEREL,62 0149 MIRLIN,62 0764 BOECKNER,33 0769 FLAVIN,63 0850 FLAVIN,63 1473 HARRIS,63
H2	0207 CHEN,63				

TOTAL SCATTERING			EXPERIMENTAL		TOTAL SCATTERING			EXPERIMENTAL		
NORMALIZED					NORMALIZED					
C5	1	0764	BOECKNER,33		C2H4	0085	BRUCHE,29	0203	BANNON,28	
HG		0021	TATE,32	0046	BROOE,25		0685	FORESTER,61		
		0047	BROOE,29	0069	ARNOT,35	C2H6	0089	BRUCHE,30		
		0117	FUCHTBAUER,35	0157	JONES,24	S O2	0687	BAYES,62		
		0160	GREEN,30	0161	PALMER,31	C H3CL	0991	HOLST,31		
		0172	BEUTHE,27	0598	MCCUTCHEEN,58	H C N	0687	BAYES,62		
		0637	LANGMUIR,28	0675	SIMONS,38					
		1746	MAXWELL,26							
TL		0013	BROOE,31							
H2		0001	BROOE,25	0010	NORMAND,30	RELATIVE				
		0072	MAYER,21	0073	RAMSAUER,21	HE	0469	HUGHES,35		
		0077	BRUCHE,26	0079	BRUCHE,27	NE	0126	RUSCH,25		
		0087	RAMSAUER,30	0093	RAMSAUER,30	AR	0126	RUSCH,25	0171	ZACHMANN,27
		0094	RAMSAUER,32	0160	GREEN,30	K	0016	PEREL,62	0329	RUBIN,60
		0174	KOLLATH,28	0175	GAERTNER,31	KR	0126	RUSCH,25		
		0181	FROST,62	0186	RAMSAUER,23	CD	0180	MINKOWSKI,23		
		0188	BERNSTEIN,62	0195	TOWNSEND,21	HG	0163	PEARSON,31	0180	MINKOWSKI,23
		0199	TOWNSEND,22	0240	VAHNERIN,51		0484	KESSLER,65		
		0312	PHILIPS,51	0352	CROMPTON,52	H2	0126	RUSCH,25	0170	BAERWALD,25
		0360	BEKEFI,58	0530	PACK,61		0171	ZACHMANN,27		
		0538	HAMMER,56	0637	LANGMUIR,28	O2	1013	NEYNABER,61		
		0685	FORESTER,61	1043	FROST,62	C H4	0209	GLOCKLER,24		
		1375	GOLDEN,65	1507	OUBOVOI,60					
		1787	GOLDEN,66							
O2		0087	RAMSAUER,30	0195	TOWNSEND,21					
		0259	BRUCHE,27	0377	SILVERMAN,57					
		0846	ABERTH,64	1577	OALBER,65					
		1891	ABERTH,63							
N2		0001	BROOE,25	0010	NORMAND,30					
		0026	NEYNABER,63	0037	FISK,37					
		0072	MAYER,21	0073	RAMSAUER,21					
		0077	BRUCHE,26	0079	BRUCHE,27					
		0087	RAMSAUER,30	0174	KOLLATH,28					
		0181	FROST,62	0186	RAMSAUER,23					
		0195	TOWNSEND,21	0218	ENGELHART,64					
		0312	PHILIPS,51	0316	ANDERSON,56					
		0352	CROMPTON,52	0530	PACK,61					
		0637	LANGMUIR,28	0684	HAAS,57					
		0685	FORESTER,61	0687	BAYES,62					
		0846	ABERTH,64	0982	STOTZ,63					
		1041	BULEWICZ,62	1043	FROST,62					
		1473	HARRIS,63	1577	OALBER,65					
		1591	KOZLOV,65	1786	KOZLOV,65					
		1891	ABERTH,63							
H20		0084	BRUCHE,29	0439	PACK,62					
		0687	BAYES,62	1450	TAKEO,60					
N H3		0084	BRUCHE,29	0439	PACK,62					
		0687	BAYES,62							
N O		0200	SKINKER,23	0259	BRUCHE,27					
C2H2		0085	BRUCHE,29							
CL2		0037	FISK,37	0682	BAILEY,35					
N20		0093	RAMSAUER,30	0159	BAILEY,32					
		0174	KOLLATH,28	0200	SKINKER,23					
		0259	BRUCHE,27	0439	PACK,62					
		0687	BAYES,62							
C O2		0072	MAYER,21	0081	RAMSAUER,27					
		0087	RAMSAUER,30	0093	RAMSAUER,30					
		0094	RAMSAUER,32	0174	KOLLATH,28					
		0198	SKINKER,22	0259	BRUCHE,27					
		0439	PACK,62	0685	FORESTER,61					
		0687	BAYES,62							
C O		0001	BROOE,25	0010	NORMAND,30					
		0087	RAMSAUER,30	0094	RAMSAUER,32					
		0174	KOLLATH,28	0200	SKINKER,23					
		0259	BRUCHE,27	0439	PACK,62					
BR2		0683	BAILEY,37							
H CL		0080	BRUCHE,27							
C H4		0001	BROOE,25	0084	BRUCHE,29					
		0087	RAMSAUER,30	0089	BRUCHE,30					
		0174	KOLLATH,28	0192	FRANCIS,47					
		0259	BRUCHE,27	0685	FORESTER,61					
		0973	FROMMHOLD,59	1833	FINK,65					
O4		0991	HOLST,31							
12		0677	HEALEY,38							
C CL4		0991	HOLST,31							
O2		0188	BERNSTEIN,62	0439	PACK,62					
		1375	GOLDEN,65	1428	HALL,55					
		1787	GOLDEN,66							

NORMALIZED

TOTAL ELASTIC SCATTERING EXPERIMENTAL

H 0645 CHESHIRE,64

NORMALIZED

HE 1196 MARDER,56
 NE 1196 MARDER,56
 AR 1196 MARDER,56

TOTAL ELASTIC SCATTERING THEORETICAL

NORMALIZED

H	0083 BURKE,63	0148 OAMBURG,63
	0204 TEMKIN,62	0490 SCHWARTZ,61
	0536 ROTENBERG,62	0709 RUFFINE,60
	0859 SMITH,60	0905 MASSEY,58
	0906 MOUSSA,59	0917 SPRUCH,60
	1015 SMITH,61	1025 KINGSTON,61
	1192 DRACHMAN,65	1210 MOISEWITSCH,58
	1422 MCEACHRAN,65	1443 HAHN,64
	1494 ALLISON,61	1495 BRANSON,62
	1499 HAHN,65	1500 KLEINMAN,65
	1571 STONE,66	1580 ARMSTRONG,65
	1900 KLEINMAN,65	
H +	0859 SMITH,60	
HE	0905 MASSEY,58	1121 MALIK,61
	1195 TEUTSCH,56	1485 KESTNER,65
	1494 ALLISON,61	1819 DRACHMAN,66
C	1121 MALIK,61	
N	1121 MALIK,61	
O	1121 MALIK,61	
F	1121 MALIK,61	
NE	0905 MASSEY,58	1121 MALIK,61
	1195 TEUTSCH,56	
AR	0905 MASSEY,58	1121 MALIK,61
	1195 TEUTSCH,56	
U	6 1519 SINGH,62	
H2	0905 MASSEY,58	

DIFFERENTIAL ELASTIC SCATTERING THEORETICAL

NORMALIZED

H	0490 SCHWARTZ,61	0536 ROTENBERG,62
	0544 MOISEWITSCH,59	0906 MOUSSA,59
HE	0544 MOISEWITSCH,59	

ELECTRONIC EXCITATION THEORETICAL

NORMALIZED

H	0083 BURKE,63	0148 OAMBURG,63
	0859 SMITH,60	1257 MOISEWITSCH,65
H +	0859 SMITH,60	

ELECTRON DETACHMENT THEORETICAL

NORMALIZED

H = 0576 RUOGE,64

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AUTHOR INDEX

ABERTH W 846 1891
 ADAMCZYK B 1858
 ADEN A L 698
 AHEARN A J 1239
 AKERIB R 276 913 996
 ALLEN C W 923
 ALLEN H W 273
 ALLER L H 876 1216
 ALLISON D C S 1494
 ALLIS W P 25 106
 ALTSHULER S 385 395 396 403
 AMEMIYA A 248
 ANDERSON J M 306 316 317
 ARMISTEAD R C 1580
 ARNDT F L 50 52 65 69 144
 156 191 245 1152
 ARNGUIST W N 163
 ASUNDI R K 626 743 847 938 940
 1592
 ATKINSON W R 241
 AUBREY B B 177 1490
 BACON R M 1568
 BAERWALD H 170
 BAILEY J E 683
 BAILEY T L 1117
 BAILEY V A 159 195 197 199 201
 682
 BAINES G D 69 156
 BAKER F A 1492
 BAKIS R 965
 BALLING L C 522 1346
 BANDEL H W 869 1375 1787 1962
 BANERJEE S 1703 1704
 BANNON J 203
 BAHANGER E 386
 BAHBIERE D 397
 BARNES L L 1251
 BARTKY C O 1557 1558
 BATES O R 71 146 243 423 444
 1141 1180
 BAUER E 368 821 1557 1558
 BAUER N 456
 BAYES K D 687
 BEACH J Y 456
 BECKER P M 311 555 1100 1212
 BECKERSON B 16 329 846 1490
 BEGUN G M 1116
 BEKEFI G 360
 BELL K L 351 822 1409 1710
 BELL M E 215
 BELOUSOVA T M 929

RELY D 547 775 970 1305 1448
 1696 1850
 RENADE J M 674
 HENNETT W H 42
 BENNETT W 1196
 BERMAN A 187 372 794
 BERNSTEIN M J 188
 REUTHE H 172
 BHALLA M S 948
 BHATTACHARYYA T 514
 BIALECKE E P 703
 BIBERMAN L M 1059
 BIELSKI A 1793
 BILLINSKY S 1294
 BIONDI M A 131 541 1064 1344
 BLAHA M 437
 BLAIS N C 566
 BLANC C 986
 BLANC D 986
 BLEAKNEY W 9 12 35 228 1095
 BDECKNER C 764 1213
 BDERHOOM A J H 1706 1782 1858
 BDERSCH H 1065 1585 1753
 BDGDANDVA I 222 476 1324 1534
 BDIKOVA R F 1681
 BDKSENBURG A 491 1106
 BONHAM R A 875
 BDROWITZ S 384 389 393 511 913
 967
 BORTNER T E 1016
 BOWE J C 819
 BOWMAN C R 1374
 BOYD R L F 335 491
 BOYD T J M 419
 BDIET H 393
 BRACKETT J W 1579
 BRACKMANN R T 280 320 321 322 323
 326 332 1525
 BRANDT A F 116
 BRANSCOMB L 38 90 839 1008 1197
 BRANSDEN B H 416 425 429 436 440
 1495
 BRASFIELD C J 232
 BRATSEV V F 1682 1804
 BRATTAIN W 231
 BREDIG M A 660
 BREENE R G 574 934 939
 BREEN F H 287
 BREHM J J 169
 BREIG E L 1564
 BRICDUT P 656
 BRIGLIA D O 988 1164 1292 1372 1396
 1410 1451 1460 1543
 BRINK G 150 777 1217
 BRION C E 985

BRODE R B	1	6	8	13	46
	47	219	1007		
BRDNCD C J	742				
BROSE H L	203				
BRDWE H N	821				
BROWN S C	312	314	360	594	1400
BRUCHE E	77	79	80	82	84
	85	89	259		
BRUECKNER K A	399				
BUCHDAHL R	134				
BUCHELNIKOVA I S	766				
BUCKINGHAM R A	70	243			
BULEWICZ E M	1041				
BULLARO E C	49	53	138	267	
BUNOY F P	39				
BUNYAN P J	109	1424			
BURCH D S	38				
BURGESS A	57	417	715	735	892
BURHDP E H S	140				
BURKE P G	83	151	162	669	874
	918	1009	1015	1080	1340
	1436	1653	1846	1847	
BURKE V M	44	162	712		
BURNS J F	410	591			
BURTT B P	347				
BYATT W J	388	597			
BYRON F W	1788				
CALLAWAY J	976	1342	1827		
CAPLINGER E	1268				
CARLETON N P	992				
CARSON T R	434				
CARTER C	421				
CERMAK V	1572	1781			
CHAMBERLAIN G F	922	1304	1373	1417	1527
	1692	1693			
CHAMPION K S W	698				
CHANORASEKHAR S	287				
CHANIN L M	131				
CHEN C L	182	249	739	1019	
CHEN J C Y	207	895	962	964	1852
CHESHIRE I M	645				
CHIBISOV M I	818	1764			
CHILDS E C	62	64	1286		
CHODUMURY A L	1659				
CHOW R K M	1342				
CHRISTOPHOUDOU L G	1565				
CHRISTOPH W	290				
CILLIE G	295				
CIRG I	142				
CLAPKE E M	854	1089	1509	1512	
CLOUTIER G G	481				
COCHRAN L W	685				
CODY W J	933				

CDMEN M H	1485				
COLEMAN J P	1479	1697	1886		
COLES S B	620				
COLLIN J	531				
COMPTON K T	2	674			
COMPTON R N	1565				
CONNOLLY J G	1916				
CONNOR T R	1344				
CODK C J	153				
COOLIDGE A S	987				
CODPER J L	1874				
COPER J W	1057	1846			
CORINALDESI E	28				
CORRIGAN S J B	336	354	1566		
COTTIN M	483				
COURT G R	887				
CRAGGS J O	337	346	357	847	853
	861	865	867	938	940
	948	950	1118	1231	
CRAWFORD C K	659				
CRDMPTON R W	352	1489			
CROTHERS O	1532				
CROWN J C	1343	1897			
CROZIER W D	623				
CUNNINGHAM G M	1109				
CURLEY E K	1512				
CURRAN R K	133	971	1066	1067	
CUTHBERT J	1742				
CZYZAK S J	442	1932	1943		
DAHLER J S	311	555			
DAISER J W	1577				
DALGARNO A	416	436	440	702	1341
DAMBURG R	32	91	97	148	154
	278	296	507	542	609
	648	810	835	836	856
	1505	1550	1551	1552	1553
DANCE D F	1803				
DASHCHENKO A I	78				
DEGEILH A	986				
DEMELT H G	679				
DEICHSEL H	1425	1427	1431	1596	
OEMKOV Y N	457				
OE HEER F J	1281	1690	1748	1782	
DE LA RIPELLE F	1144				
OE MARIA G	1578				
DE VISSER J G S	663				
DESPREZ-REBAUD S	461				
OEVORE R V	256				
OEYATOV A M	474	607	755	1325	1533
DIBELER V H	466	525			
DIBELIUS N R	768				
DOERING J P	920	1982			
ODDER K T	261	264	907		

GREENBERG M	384	967								HENNERG W	653	655							
GREEN G W	335									HENRY R J W	702								
GREEN M C	160									HERGENROTHER R C	1001								
GROB V E	1270									HERRMANN O	288								
GROSJEAN C C	838									HERTZ G	663								
GRYZINSKI M	452	570	863	1014						HERZENBERG A	1331								
GUMA B K	1519									HEY N	1279								
GUIER W M	391									HICKAM W M	271	310	313	704	858				
GUK SIN SAN	1325									HIGGINSON G S	518	871	1027	1088					
GURCHUMELIYA A O	1516									HILL E R	455								
GUREVICH O B	929									HILL S	1287								
GYFTOPOULOS E P	1456									HIPPLE J A	213								
HAAS R	684									HIRSHFELD J L	594								
HAOEISHI T	205	1339								HOBART J	610								
HAFNER H	1586									HOOGES H L	1094								
HAFT G	111									HOERNI J A	572								
HAGSTRUM H O	107	214								HOGNESS T R	1096								
HAHN Y	1443	1496	1499	1500						HOLST W	991								
HAJOT O	1538									HOLT M K	1528	1677	1892						
HALL B I H	1428									HOLT W B	802								
HAMMERLING P	407									HOLTSMARK J	99	104	185	991					
HAMMER J M	177	538								HOOPER J W	1421	1568							
HANLE W	92	152	179	263	304					HOPWOOD W	346								
HANNAY N B	1239									HUANG K	297								
HANSEN L K	1063									HUANG S S	127								
HANSON E E	1518									HUBER P	1833								
HANSON W P	1089	1509								HUCK R J	580								
HANSON R J	522									HUOSON R L	1132								
HARA Y	408	463	552							HUGHES A L	20	23	27	165	469				
HARKNESS R W	1096										628	629	726	1001	1004				
HARNWELL G P	158	230									1277	1294							
HARRIES W	98									HUGHES R H	554	787	1072						
HARRISON H	974									HUGHES V W	1195	1196							
HARRISON M F A	261	264	907	1803						HUMMER O G	332	1037							
HARRIS L P	1473									HURST G S	1016	1505							
HARRIS W	469									HUSAIN O	1659								
HART R W	391									HUSTRULIO A	924								
HARUN-AR-RASHID A	1985									HUTCHISON O A	1215								
HASHINO T	565	849								HUZINAGA S	462								
HASTED J B	1492									IBERS J A	572								
HASTINGS J M	465									INOKUTI M	210	1056							
HAUPT C R	14									INUJI T	248								
HAYAKAWA S	1123	1987								IOLIN Y	1426								
HAYAKAWA T	539									ITOH T	765								
HEALEY R H	677	682								IVASH E V	370								
HEBB M	265									JAHODA F C	602								
HEGOLE O W O	519	886	922	1513						JEFFERIES J T	963								
HEIDEMAN M G M	516	1417	1527	1642	1693					JEN C K	1166								
HEIL M	1875									JESSE W P	625								
HELLUNO E J	809									JHA R	1703	1704							
HENDERSON W R	1525									JOACHAIN C J	1644	1645	1788						
HENDERICKSON G G	1072									JOHN T L	416	899	1708						
										JOHNSON R A	802								

JONES E A	801	804	1265							KORCHEVOI YU P	132	1910							
JONES F L	1297									KOVAL A G	1841								
JONES H A	637									KOZLOV G I	1591	1786							
JONES T J	4	157								KRALL N A	448								
JONGERIUS H M	176	315	513	546						KRASNOW M F	372	373	375	376	381				
JOHOAN E B	219	1002									794	798	800	813					
JORTNER J	1485									KRAUS K	1163								
JORY R L	1489									KRAUSS M	5	525							
KALLMANN H	660									KRAVCHENKO V	810								
KAMENETSKII V D	220	557	795							KROPF A	5								
KANEKO Y	1038	1039	1045							KROTKOV R	1528	1677							
KANG I J	1747									KRUJGER T K	442	1932	1943						
KANOMATA I	1045									KRUGER H	532	1538	1586						
KAPTSOV H A	607									KRUIITHOF A	270								
KAHLE J	875	983								KUCHINKA M YU	752								
KAR K C	676	1283								KULANDER J L	1058								
KARULE E M	148	844	990	1097	1426					KUMAZAKI T	1987								
	1469	1491	1515	1542	1547					KUNKEL W B	759								
	1864	1865								KUPRIYANOV S E	713	723	1776						
KATO T	362									KURALOVA A V	474								
KAY R B	554									KUREPA M V	743	938	1484						
KEEFFE W M	654									KUYATT C E	308	692	1085	1347	1471				
KEESING R G W	1513										1527	1692	1693	1856					
KENTY C	355									KYLE H L	904	908	1898						
KERNER E H	394	402								LABAHN R W	976	1376	1827						
KERR L W	1027									LAHMANI M	1124								
KESSLER J	486	1535								LAMB W E	227								
KESTNER N H	1485									LAMKIN J C	1030								
KHARE S P	1407	1408	1493	1862						LAMPE F W	340	1100							
KHASHABA S	418									LANE F O	597								
KHVOSTENKO V I	957									LANE N F	568	1251	1414						
KIEFFER L J	364									LANGMUIR I	637								
KING N M	436									LANGSTROTH G O	632	1298	1312						
KINGSTON A E	146	350	444	549	825					LARCHE K	105								
	1025	1506	1595	1657	1694					LASHMORE-OAVIES C	1760								
	1851									LASSETTRE E N	372	373	374	375	376				
KINNEY J O	1104										377	378	379	380	381				
KISER R W	1137										382	551	612	794	798				
KISHKO S M	343	475	752	757	1047						799	800	801	803	804				
	1648										813	857	1075	1091	1205				
											1401	1414	1419	1480	1481				
											1567	1663	1679	1743	1824				
											1887								
KISTEMAKER J	1281	1706	1782	1858						LATIMER I O	1504	1771	1916						
KIVEL B	325	407	449	450						LATYPOV Z Z	713	723							
KIVELSON D	687									LATYSCHIEFF G O	102								
KJELAAAS T	310	704								LAUER J E	1657	1851							
KLEINMAN C J	1500	1900								LAWSON J	722	933							
KLEINPOPPEN H	532	1538	1586	1593						LAWSON W	722								
KLEIN M M	389	399	1130							LEE A H	634								
KNOX B E	347									LEE E T P	1345								
KOGAN V I	587									LEES J H	56	651							
KOLESHNIKOV V N	493									LEGLER W	921								
KOLLATH R	86	87	93	94	95					LEIRY C C	249								
	129	174								LEIPINSKI A	102	1279							
KOLOS W	258	590								LENANDER C J	1650								
KOONS H C	1924									LE GENTIL M C L	461								
KOPPE V T	1841																		

LEVIN F S	1686				
LEWIS B A	1536	1653			
LICHTEN W	327				
LILIENTHAL D	82				
LINDEMAN M	110	112	269		
LINDER F	1588				
LINDNER H	486	1535			
LINEBERGER W C	1421	1568			
LIN CHUN C	485	564	568	942	1049
	1109	1251	1345	1554	
LIN H E	29				
LIN S C	325				
LIPELES M	1871				
LIPPMANN B A	1033				
LISKA J W	29				
LLEWELLYN J A	946				
LDCHTE-HDLTGREVEN	1316				
LDNGWIRE M S	551	1480			
LDS-KDZLDWSKI T	1793				
LDVERIDGE L E	141				
LDWE R	628	629			
LDZIER W W	667	1402			
LUCAS C B	519				
LUNT R W	652				
LYASM A V	1554	1555	1576	1866	1867
LYNN N	563				
LYUBIMOV A R	1081				
MACNAIR D	1094				
MAECKER H	305	559			
MAGEE J L	962				
MAMAN B H	920				
MAIER-LEIBNITZ H	119				
MAIMAN T H	227				
MAKINSON H E B	683				
MALASPINA L	1578				
MALESSET C	986				
MALIK F B	520	864	879	1046	1114
	1121	1659			
MANDL F	1331				
MANN J B	566	1261			
MANN M M	924				
MANN R A	36	959			
MARCH N H	421				
MARDER S	1196				
MARIND L L	26	868	978	1013	1018
MARRIDTT J	950	1118			
MARRIDTT R	420	426	866	1654	
MARTIN J B	1057				
MARTYNEKND YU V	818				
MASSEY H S W	49	51	53	54	61
	62	64	68	70	71
	138	139	184	194	234
	243	251	267	284	349
	398	405	418	428	438
	441	458	460	616	845
	905	933	1141	1190	1300

MATDRA I	760				
MATSUDA H	565	849			
MAURER W	880				
MAXWELL L R	1746				
MAYER H F	72				
MAZING M A	1909				
MCCARRDL R	44	162	424	670	1532
	1877				
MCCLURE B T	802				
MCCONKEY J W	1504	1771	1916		
MCCOYD G C	103	446			
MCCREA D	413				
MCCUTCHEN C W	598				
MCDANIEL E W	1421				
MCDUGALL J	55				
MCDOWELL C	341	523	524	526	699
	708	1120	1230	1231	1263
MCDOWELL M R C	307	470	873	1102	1110
	1246	1256	1299	1479	1697
MCEACHRAN R P	571	744	855	1022	1422
MCFADDEN T	211				
MCFARLAND R H	492	510	521	747	1073
	1104	1464	1502		
MCGOWAN W	1089	1415	1508	1509	1512
MCHARRIS D A	1339				
MCINTYRE H A J	1494				
MCKEE J S C	425	429			
MCKIRGAN T V M	413				
MCLAUCHLAN J C	1152				
MCMILLEN J H	11	20	23	27	30
	165	726	1004		
MCVICAR D D	669	1080	1340		
MCMHIRTTER R W P	146	444	602		
MEHLHORN W	1839				
MEISTER G	1470	1529	1588		
MELTON C E	958	1116			
MENZEL D H	265				
MEYERAND R G	769	850	872		
MEYER R D	1480				
MEYER V D	551	612	1205	1418	1419
	1679	1887			
MICHAEL J A	1165				
MICHELS W C	15	226			
MIELCZAREK S R	1085	1347	1373	1471	1856
MIES F W	969				
MIIDA J	365				
MILATZ J M W	122	125	268		
MILFORD S N	103	445	446	540	919
	1050				
MILLER F L	1049	1455			
MILLER W D	1374				
MILLER W F	859				
MINKOWSKI R	178	180			
MIRLIN D N	149				
MISKELLY D	423				
MITRA S K	928				

MITTLEMAN M H	553	1644	1645	1673		08E0XOV V O	1097								
MJOL5NE55 R C	1082	1573	1676			08UKHOV-0ENI50V V	493								
MOFFETT R J	1341					0CHKUR V 1	369	718	935	1115	1541				
MOHLER F L	279	764	1213				1682	1804							
MOHR C B O	51	54	58	59	61	0HMURA H	561								
	63	66	68	139	194	0HMURA T	408	463	552	561					
	284	441	616			0KELLY L B	1016								
MO15EIWI5CH B L	349	350	351	367	398	OKSYUK YU O	1816								
	405	438	459	460	471										
	495	544	549	822	914	OLOEMAN J	112								
	1024	1210	1257	1408	1493	OLDENBERG O	992								
	1494	1710	1770	1862		OLMSTEO J	1301								
MONAHAN J E	331					OMALLEY T F	60	301	1084	1443	1496				
MOORES O	1448					OMIOVAR K	537	593	848	1071	1458				
MORANO M	461						1466	1526							
MORGULI5 N D	132					OPIK U	432								
MORRISON J O	242	778	1068	1069	1070	OPYKHTIN V	1813								
	1107	1108	1244			ORIENT O J	1817								
MORRISSEY J J	919					ORMONOE 5	1718	1846	1859						
MORSE P M	25	106	639	1010		ORNSTEIN L 5	100	110	112	268	269				
MOTT N F	48	136					270								
MOU55A A H	905	906				OSTENSEN F	229								
MOUSTAFA H R	1690	1748	1782			OSTERBROCK O E	843								
MUKHERJEE S C	515	1048	1199			OTSUKA M	1987								
MULLANEY G J	768					OTVOS J W	339								
MULLER-OUYSING W	1163					PACK J L	439	530	888						
MULLER F	1530					PALMER R R	21	161							
MUMFORD A J P	859					PAVLOV 5 1	1081								
MURAVEV V T	977	981				PEACH G	873	1273	1299	1654	1655				
MU5CHLITZ E E	166	1117				PEARSON J M	163								
MU5HA T	765					PECUL K	258								
MYERSCOUGH V P	1102	1110	1299	1539	1569	PEEK J M	1055	1465							
NAGAHARA 5	411					PENKIN N P	1758								
NAKAO T	7	33	130	135		PENNEY W G	19								
NALL B H	1034					PERCIVAL 1 C	162	427	586	740					
NAROONE M C	574	939				PEREL J	16	329							
NEUERT H	527	1163	1709			PERRIN R	1257								
NEU H	147					PETERKOP R K	97	101	128	154	278				
NEWHALL M F	41						507	542	829	852	856				
NEWTON A 5	1301						990	1129	1135	1469	1505				
NEYNABER R	26	868	978	1013	1018		1515	1550	1552	1864	1905				
	1268					PETERSON J									

PDPH H P	1774				
PORTEUS J D	837				
POTTIE R F	1687				
PDULTNEY F C	120				
RRAMALLADA RAO B	1742				
RRASAO A N	861				
PRASAO K	642				
RRASAO S S	642	1262	1656		
RREECE E R	1742				
PRESNYAKOV L	826	1061	1476	1813	
RRESSLEY G A	1874				
PRIESTLY H	293				
PRZMONSKI A M	1910				
PU R T	903				
QUINN T P	189				
RABIK L L	1576	1674	1866	1867	1868
RAETHER M	182				
RAFF L M	1411				
RAFIQULLAH A K	1659				
RAIBLE V	1593				
RAKHODVSKII V I	1081				
RAMIEN H	686				
RAMSAUER C	73	74	75	81	86
	87	93	94	95	129
	186				
RANODLPH P L	167				
RAPP D	988	1105	1164	1292	1372
	1396	1410	1451	1459	1460
RAY B B	928				
REDKO T P	1758				
REESE R M	466	525			
REICHERT E	1111	1427	1431	1596	
REICH H J	1753				
REIMERS H J	118				
REINHAROT R W	1565				
REITZ J R	359				
REVALD V F	1531	1584			
RISE F L	602				
RICE S A	1485				
RICHARDSON J M	254				
RIDLEY R O	428				
RIEKE D	303	304			
RINEHART E A	564				
RISK C G	218				
ROBBEN F	759				
ROBINSON B B	1463				
ROBINSON L B	387	812	1282		
ROBINSON P D	545				
ROEHLING O	785				
ROSCOE R	45	1311			
ROSENBERG L	301	917	1084		
ROSE D C	1475				
ROTENBERG M	536				
ROTHENSTEIN W	435				

ROTHE E W	26	868	978	1013	1018
	1268				
ROZGACHEV K I	1290				
RURIN K	329				
RUDBERG E	1157				
RUDO J B	159				
RUOGE M R H	57	533	576	1544	1772
	1773	1848	1849		
RUDDLPH R	1116				
RUFFINE R S	709				
RUHLIG A J	734				
RUSCH M	76	126			
RUSSEK A	1343				
SACHL V	383				
SALERNO J A	1787				
SALMONA A	499	1023	1052	1520	1587
SAMPSON O H	1082	1573	1676		
SANDS R	610				
SARAPH H	168	954	1026		
SASAKI N	7	33	130	135	
SAWYER G A	602				
SAYERS J	887				
SCANLON J H	919	1050			
SCHAEFFER D A	465				
SCHAFFERNICHT W	92	262			
SCHENK M	305				
SCHENTER R E	1894				
SCHEY H M	83	151	918	1033	
SCHIFF H I	481				
SCHONFELDER J L	1424	1646			
SCHRAM B L	1281	1690	1705	1706	1748
	1858	1863			
SCHROETER K	82				
SCHULTZ S	327	936			
SCHULZ G J	299	300	318	319	324
	328	517	529	558	932
	984	1021	1090	1289	1310
	1592	1924			
SCHULZ P	116				
SCHUTTEN J	1748	1782			
SCHWARTZ C	447	490	980		
SCHWARTZ S B	443	1772	1848	1849	
SCOTT B L	1461				
SCOTT R	1875				
SEATON M J	155	168	404	412	416
	422	431	453	484	533
	585	712	714	715	719
	721	722	740	843	909
	1023	1037	1448	1544	1832
SEILER R	114				
SEMAN M L	839				
SEWARD R R	675				
SHAPIRO J	828				
SHARR T E	1372	1451			
SHAW C H	1191				
SHELDON J W	1272				
SHEPELENKO F P	457				

SHERIOAN W F	992					STEBRINGS R F	326	332	1031	1089
SHEVERA V S	504	1079	1648			STEIDL H	1431	1596		
SHIELOS O B	822					STEINER B	839			
SHILOFF J C	380	1401				STEIN S	392	401		
SHIMON L L	506	1040	1078	1517	1648	STEPTINSH P	835			
	1680	1683	1801	1972		STEVENSON D	213	339	342	451 1224
SHINE W W	407					STEWART O T	333	334	338	953
SHPENIK U B	1077	1521				STICKEL W	1065	1597		
SHVETS O M	1507					STONF P M	359	1571	1805	
SIEBERTZ K	816					STOTZ K C	982			
SIL N C	515	1688	1703	1704		STREFT K	1301			
SILVERMAN S M	372	373	374	376	377	STROHMEIER G	121			
	378	379	381	794	798	ST JOHN R M	485	564	742	912 942
	799	800	803	857	1075		1049			
	1091	1663	1743			STUBER F A	1453			
SIMONS J H	675					STUECKELBERG E C	1010			
SIMPSON J A	308	692	1085	1347	1373	SUGIURA T	539			
	1471	1527	1856			SULLIVAN E	512	848		
SINGH B	1519					SUNSHINE G	846	1490		
SJOGREN H	298					SURAL O P	1688			
SKERBELE A	612	968	1418	1419	1481	SUTTON O J	352			
	1824	1887				SWAN P	430	433		
SKINKER M F	198	200				SWEENEY J P	564			
SKINNER B G	350	549	1025			SWICK D A	983			
SKINNER H	651					TAIT J H	1416	1653		
SKURENICH V V	1047					TAKAYANAGI K	724	1093	1452	1477 1488
SLOAN I H	845	1092	1302				1589	1666		
SMIKNOV B M	1764					TAKEOA S	1450			
SMITH A C H	1268	1803				TALBOT L	759			
SMITH K	83	669	859	896	933	TATE J T	18	21	214	216 667
	1015	1022	1080	1340	1718		924			
SMITH L G	35					TAYLOR A J	874	1416	1436	1524 1536
SMITH P T	18	216	224	225			1847			
SMITH R A	1300					TAYLOR J E	67			
SMITH S J	38	922	1486			TEMKIN A	204	400	498	503 512
SMIT C	361	513	516	1570			706	904	908	1030 1051
SMIT J A	223	315	361	513	516	TEUTSCH W B	1195			
	546					THALER R M	1894			
SMYTH H	255					THIEME O	108			
SNYDER T M	1191					THOMAS J J	177			
SOBELMAN I	826	1061				THOMAS L H	42			
SOLTYSK E A	492	510	521			THOMPSON J B	943			
SOMERVILLE J M	683					THOMPSON N	989			
SOMERVILLE W B	497	534	1074			THONEMANN P C	261	264	907	
SOSHNIKOV A K	1680					THORBURN R	337	853	950	
SPONER H	178					TIBBS S R	70			
SPRUCH L	301	917	1084	1443	1496	TIEN P K	1094			
	1499	1500				TIETZ T	206	409	562	745 1176
SQUIRES B E	579	1482					1483	1510	1511	
STABLER R C	671					TISONE G C	1880			
STACEY G M	1770					TOLK N	1871			
STAFFORD F E	1874					TOPSCHOWSKY M	1585			
STANTON H E	331					TOWNSENO J S	195	197	199	201
STANTON R L	564					TOZER B A	337	356	357	853 865
STAROSTIN A N	716						867			
STAUFFER A O	307	1246				TREFFTZ E	143	879	1046	1114
STAVER T B	543									

TREPKA L V	1709				
TRUJILLO S M	26	868	978	1013	1018
	1268				
TULLY J	775				
TUNITSKII N N	723				
ULMER R	532				
UNWIN J J	243				
VAINSMTEIN L	754	826	1061	1097	1474
	1546	1813			
VALASEK J	1275				
VAN DER WIEL M J	1281	1690			
VAN DE WALLE R T	838				
VAN EGMOND W	315				
VAN REGEMORTER H	720	775	1053	1054	1122
VAN VOORHIS C C	2				
VAN VOORHIS S N	173				
VAN ZYL B	1501	1503			
VARNERIN L J	240				
VARSAVSKY C	792	814	1017		
VAUGHAN A L	17				
VEKLENKO B A	560	716			
VELDRE V	101	830	835	836	844
	1319	1426	1472	1547	1548
	1555	1576	1582	1674	
	1866	1867	1888		
VETTERLEIN P	96				
VINCENT D	421				
VINKALNS I ZH	844	1097	1472	1548	1582
	1878	1879			
VOLKOVA L M	344	414	474	505	749
	755	1533			
VON ENGEL A	336	354			
VOSHALL R E	439				
VOSS W	113				
VREOENBERG W J	361				
VREESWIJK J A	269				
VRIENS L	1060	1457	1468	1594	
VRUBLEVSKAYA N A	1909				
WAUDINGTON J F	1083				
WAHLIN M B	1752				
WAHL J J	446				
WALDRON M F	1577				
WARREN J W	1230	1231			
WATANABE M	365				

WHITE O	635				
WHITE E R	382				
WHITE J V	200				
WHITNEY J D	665				
WIESE W L	502				
WILKINS R L	1665				
WILLIAMSON H A	1590				
WILLIAMSON J H	470	1256			
WILLIAMS A	544				
WILLIAMS K L	1708				
WILLIAMS S E	989	1296			
WINTERS H F	1406				
WITTING H L	1456				
WITTMACK K	1478	1812			
WOJTCZAK L	206				
WOLF R	880				
WOMER R L	668				
WONG S C	687				
WOODCOCK A H	1286	1287			
WOODWARD C E	659				
WOOLLEY R	923				
WOUDENBERG J P M	122	125			
WU C S	1196				
WU T Y	43	368	567	1146	1190
YAKHONTOVA V E	464	477	1323		
YAMANOUCHI T	208	247	248	366	408
	463	552			
YAVORSKY B	202	272	281	282	557
	783	977	1103		
YUREV V G	149				
YU F C	1146				
ZACHMANN E	171				
ZAITSEVA N G	1081				
ZANSTRA H	358				
ZAPESOCHNYI I P	78	343	475	504	506
	908	882	1040	1076	1077
	1078	1079	1233	1517	1521
	1583	1648	1680	1683	1801
	1823	1895	1972		
ZARE R N	1501	1503			
ZHIKHAREVA T V	1775	1853			
ZIESEL J P	283	1167	1530	1920	
ZIRIN H	443	960			
ZWICKY F	657

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