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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

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CONTENTS

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.

TOTAL ELASTIC SCATTERING EXPERIMENTAL

NORMALIZED

H	0933	COOY,64		
HE	0273	ALLEN,37	0274	GOLDAN,63
	0330	WESTIN,49	0637	LANGMUIR,28
	0734	GRAHAM,54		
NE	0273	ALLEN,37	0330	WESTIN,49
	0637	LANGMUIR,28	0734	GRAHAM,54
NA	0679	OEHMELT,58		
AR	0273	ALLEN,37	0292	ENGELHAROT,64
	0330	WESTIN,49	0637	LANGMUIR,28
	0734	GRAHAM,54	1909	MAZING,66
KR	0739	CHEN,63		
RB	0522	BALLING,64		
XE	0739	CHEN,63		
CS	1346	BALLING,64	1909	MAZING,66
HG	0069	ARNOT,35	0637	LANGMUIR,28
H2	0260	ENGELHAROT,63	0637	LANGMUIR,28
N2	0381	LASSETTRE,57	0637	LANGMUIR,28
C O	0374	LASSETTRE,53		
O2	0260	ENGELHAROT,63		

RELATIVE

H	1593	KLEINPOPPEN,65		
HE	0300	SCHULZ,63	0517	SCHULZ,63
	0518	FLEMING,63	0529	SCHULZ,64
	1347	KUYATT,65		
NE	0052	ARNOT,31	0300	SCHULZ,63
	0529	SCHULZ,64	1004	HUGHES,33
	1347	KUYATT,65		
AR	0020	HUGHES,32	0049	BULLARD,31
	0052	ARNOT,31	1347	KUYATT,65
K	0610	FRANKEN,58		
KR	0052	ARNOT,31	0529	SCHULZ,64
	1347	KUYATT,65		
XE	0052	ARNOT,31	0529	SCHULZ,64
	1347	KUYATT,65		
HG	1347	KUYATT,65		
H2	0052	ARNOT,31	1085	KUYATT,64
	1471	KUYATT,66		
N2	0052	ARNOT,31	0300	SCHULZ,63
	1924	SCHULZ,66		
C O	0052	ARNOT,31		
C H4	0052	ARNOT,31		
H O	1471	KUYATT,66		
O2	1471	KUYATT,66		

TOTAL ELASTIC SCATTERING THEORETICAL

NORMALIZED

H	0028	CORINALDESI,63	0032	GORSHANOVA,62
	0044	BURKE,62	0055	MCDOUGALL,32
	0083	BURKE,63	0127	HUANG,49
	0151	BURKE,62	0162	BURKE,62
	0168	SARAPH,62	0220	KAMENETSKII,62
	0234	MASSEY,56	0244	GELTMAN,60
	0276	AKEMIB,61	0287	CHANDRASEKHAR,46
	0296	GAILITIS,63	0301	OMALLEY,62
	0351	BELL,63	0362	KATO,51
	0369	OCHKUR,57	0384	BOROWITZ,57
	0393	BOYET,54	0398	MASSEY,50
	0403	ALTSHULER,53	0405	MASSEY,51
	0408	OHMURA,58	0412	SEATON,57
	0416	BRANSDEN,58	0429	BRANSDEN,56
	0447	SCHWARTZ,61	0448	KRALL,60
	0457	OEMKOV,58	0463	OHMURA,59

TOTAL ELASTIC SCATTERING THEORETICAL

NORMALIZED

H	0490	SCHWARTZ,61	0495	MOISEIWITSCH,63
	0498	TEMKIN,63	0503	TEMKIN,63
	0512	TEMKIN,63	0520	MALIK,59
	0537	OMIOVAR,59	0542	OAMBURG,62
	0543	STAVER,49	0552	HARA,61
	0553	MITTLEMAN,62	0560	VEKLENKO,63
	0561	OHMURA,60	0567	WU,60
	0571	MCEACHRAN,61	0586	PERCIVAL,57
	0706	TEMKIN,61	0712	BURKE,61
	0716	VEKLENKO,64	0722	LAWSON,61
	0744	MCEACHRAN,63	0795	KAMENETSKII,61
	0812	ROBINSON,61	0855	MCEACHRAN,60
	0856	OAMBURG,63	0859	SMITH,60
	0864	MALIK,64	0879	MALIK,60
	0896	SMITH,60	0897	NUTT,64
	0899	JOHN,60	0903	PU,63
	0904	KYLE,64	0908	KYLE,64
	0935	OCHKUR,58	0967	GREENBERG,57
	0980	SCHWARTZ,62	0981	MURAEV,63
	1009	BURKE,63	1015	SMITH,61
	1022	SMITH,62	1025	KINGSTON,61
	1026	SARAPH,61	1030	TEMKIN,61
	1033	LIPPMANN,61	1051	TEMKIN,62
	1074	SOMERVILLE,63	1083	WADDINGTON,64
	1084	ROSENBERG,60	1087	VAINSHTEIN,63
	1092	SLOAN,64	1414	LANE,64
	1487	GAILITIS,65	1496	MAHN,62
	1505	OAMBURG,65	1510	TIETZ,63
	1511	TIETZ,63	1524	TAYLOR,65
	1550	OAMBURG,63	1551	OAMBURG,63
	1552	OAMBURG,63	1553	OAMBURG,63
	1580	ARMSTEAD,65	1686	LEVIN,66
	1703	BANERJEE,65	1708	JOHN,66
	1747	KANG,66	1770	MOISEIWITSCH,65
	1773	RUDGE,65	1847	BURKE,66
	1869	GAILITIS,65	1898	KYLE,64
H *	0429	BRANSDEN,56	0433	SWAN,54
	0593	OMIOVAR,64	0722	LAWSON,61
	0859	SMITH,60	0904	KYLE,64
	0935	OCHKUR,58	1074	SOMERVILLE,63
HE	0025	MORSE,33	0054	MASSEY,32
	0055	MCDOUGALL,32	0060	OMALLEY,63
	0106	ALLIS,31	0206	TIETZ,63
	0388	BYATT,56	0397	BARBIERE,51
	0409	TIETZ,59	0449	KIVEL,59
	0459	MOISEIWITSCH,53	0471	MOISEIWITSCH,61
	0495	MOISEIWITSCH,63	0515	MUKHERJEE,62
	0562	TIETZ,59	0565	HASHINO,63
	0657	ZWICKY,23	0760	MATORA,60
	0818	MARTYNENKO,63	0821	BAUER,64
	0822	RELL,64	0849	HASHINO,63
	0866	MARRIOTT,64	0976	LABAHN,64
	0977	MURAEV,63	1024	MOISEIWITSCH,61
	1114	MALIK,61	1256	WILLIAMSON,65
	1376	LABAHN,65	1485	KESTNER,65
	1516	GURCHUMELIYA,63	1590	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
BE	0884	PILYANKEVICH,60		
BE 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	LENANDER,66
O	0071	BATES,47	0169	BREHM,59
	0208	YAMANOUCHI,47	0387	ROBINSON,57
	0399	KLEIN,58	0400	TEMKIN,57

TOTAL ELASTIC SCATTERING THEORETICAL

NORMALIZED

O	0407 HAMMERLING,57	0597 BYATT,59	
	0812 ROBINSON,61	0821 BAUER,64	
	0928 MITRA,40	1057 COOPER,62	
	1569 MYERSCOUGH,65	1650 LENANDER,66	
	1832 SEATON,52		
F	0572 HOERNI,53	1057 COOPER,62	
NE	0060 OMALLEY,63	0106 ALLIS,31	
	0185 HOLTSMARK,28	0267 BULLARD,30	
	0409 TIETZ,59	0449 KIVEL,59	
	0471 MOISEIWITSCH,61	0495 MOISEIWITSCH,63	
	0821 BAUER,64	0944 FRENKIEL,62	
	1059 BIBERMAN,64		
NA	0106 ALLIS,31	0499 SALMONA,59	
	0810 OAMBURG,60	0812 ROBINSON,61	
	0959 GARRETT,64	1023 SALMONA,61	
	1052 SALMONA,61	1469 KARULE,65	
	1491 KARULE,65	1498 GARRETT,65	
	1520 SALMONA,63	1523 GARRETT,64	
	1542 KARULE,65	1587 SALMONA,65	
	1864 KARULE,65	1865 KARULE,65	
	2002 PETERKOP,65		
NA 1	0422 SEATON,57		
CL	0267 BULLARD,30	1057 COOPER,62	
AR	0060 OMALLEY,63	0099 HOLTSMARK,29	
	0106 ALLIS,31	0185 HOLTSMARK,28	
	0397 BARBIERE,51	0449 KIVEL,59	
	0450 KIVEL,59	0471 MOISEIWITSCH,61	
	0495 MOISEIWITSCH,63	0657 ZWICKY,23	
	0818 MARTYNENKO,63	0821 BAUER,64	
	0875 KARLE,64	1059 BIBERMAN,64	
	1579 BRACKETT,63	1650 LENANDER,66	
K	0810 OAMBURG,60	0959 GARRETT,64	
	1469 KARULE,65	1491 KARULE,65	
	1523 GARRETT,64	1542 KARULE,65	
	1864 KARULE,65	1865 KARULE,65	
	2002 PETERKOP,65		
CA	0557 KAMENETSKII,60	1448 BELY,64	
ZN	0106 ALLIS,31		
KR	0060 OMALLEY,63	0104 HOLTSMARK,30	
	0449 KIVEL,59	0471 MOISEIWITSCH,61	
	0495 MOISEIWITSCH,63	0818 MARTYNENKO,63	
	0821 BAUER,64		
XE	0060 OMALLEY,63	0449 KIVEL,59	
	0818 MARTYNENKO,63		
C5	0036 GARRETT,63	0359 STONE,63	
	0810 DAMBURG,60	1343 CRUWN,65	
	1469 KARULE,65	1491 KARULE,65	
	1523 GARRETT,64	1542 KARULE,65	
	1864 KARULE,65	1865 KARULE,65	
	1897 CROWN,65	2002 PETERKOP,65	
HG	0557 KAMENETSKII,60	0562 TIETZ,59	
	0592 GAJEWSKI,58		
TL	0106 ALLIS,31		
U	0572 HOERNI,53	0592 GAJEWSKI,58	
	0875 KARLE,64		
H2	0034 FISK,36	0054 MASSEY,32	
	0251 MASSEY,30	0411 NAGAHARA,54	
	0421 CARTER,58	0428 MASSEY,56	
	0434 CARSON,54	1452 TAKAYANAGI,65	
	1816 OKSYUK,66		
O2	0034 FISK,36	1666 GELTMAN,66	
	1816 OKSYUK,66		
N2	0034 FISK,36	0895 CHEN,64	
	1452 TAKAYANAGI,65	1816 OKSYUK,66	
	1852 CHEN,66		
H2O	0385 ALTSHULER,57		
N H3	0385 ALTSHULER,57		
C H4	0070 BUCKINGHAM,41		

DIFFERENTIAL ELASTIC SCATTERING EXPERIMENTAL

NORMALIZED

H	1031 GILBODY,61	
HE	0165 HUGHES,32	0330 WESTIN,49
	0637 LANGMUIR,28	0995 GOODRICH,37
	1277 HUGHES,36	
NE	0187 BERMAN,49	0330 WESTIN,49
	0637 LANGMUIR,28	
AR	0187 BERMAN,49	0330 WESTIN,49
	0637 LANGMUIR,28	
HG	0021 TATE,32	0637 LANGMUIR,28
	1535 KESSLER,64	
H2	0637 LANGMUIR,28	
N2	0637 LANGMUIR,28	
C O	0374 LASSETTRE,53	
C H4	0190 EOMISTEN,49	
C2H6	0190 EOMISTEN,49	

RELATIVE

H	0230 HARNWELL,29	1512 MCGOWAN,65
	1593 KLEINPOPPEN,65	
HE	0003 DYMOND,27	0011 MCMILLEN,30
	0053 BULLARD,31	0120 POULINEY,34
	0158 HARNWELL,29	0193 WERNER,31
	0253 DYMOND,29	1001 HUGHES,34
	1470 EHRHARDT,65	1529 EHRHARDT,65
NE	0052 ARNOT,31	0053 BULLARD,31
	0059 MOHR,32	0137 NICOLL,33
	0158 HARNWELL,29	1004 HUGHES,33
AR	0011 MCMILLEN,30	0020 HUGHES,32
	0022 WEBB,35	0049 BULLARD,31
	0052 ARNOT,31	0059 MOHR,32
	0129 RAMSAUER,31	0837 PORTEUS,64
K	0030 MCMILLEN,34	0329 RUBIN,60
ZN	0064 CHILOS,33	
KR	0022 WEBB,35	0052 ARNOT,31
CO	0062 CHILOS,33	
XE	0052 ARNOT,31	
AU	1111 REICHERT,63	
HG	0050 ARNOT,31	0137 NICOLL,33
	0144 ARNOT,32	0164 GAGGE,33
	0191 ARNOT,29	0219 JORDAN,33
	0245 ARNOT,33	0486 KESSLER,65
	1002 JORDAN,34	1425 OEICHSEL,61
	1427 OEICHSEL,65	1431 STEIDL,65
	1475 ROSE,30	1596 OEICHSEL,66
H2	0011 MCMILLEN,30	0023 HUGHES,32
	0031 WEBB,35	0052 ARNOT,31
	0053 BULLARD,31	0059 MOHR,32
	0129 RAMSAUER,31	0158 HARNWELL,29
	0230 HARNWELL,29	1303 GEIGER,64
N2	0052 ARNOT,31	0053 BULLARD,31
	0059 MOHR,32	0138 MASSEY,33
	0158 HARNWELL,29	
C2H2	1286 CHILOS,34	
C O2	0059 MOHR,32	0129 RAMSAUER,31
C O	0052 ARNOT,31	
BR2	0065 ARNOT,34	
C H4	0052 ARNOT,31	0053 BULLARD,31
	0059 MOHR,32	0137 NICOLL,33
I2	0065 ARNOT,34	
H2S	0059 MOHR,32	
P H3	0059 MOHR,32	
C CL4	0065 ARNOT,34	1287 HILL,36
C2H4	1286 CHILOS,34	
C2H6	1286 CHILOS,34	

OIFFERENTIAL ELASTIC SCATTERING EXPERIMENTAL

RELATIVE

C F4 1287 HILL,36

OIFFERENTIAL ELASTIC SCATTERING THEORETICAL

NORMALIZED

H 0025 MORSE,33
0083 BURKE,63
0151 BURKE,62
0244 GELTMAN,60
0416 BRANSOEN,58
0511 BOHOWITZ,54
0567 WU,60
0879 MALIK,66
0903 PU,63
0935 OCHKUR,58
1022 SMITH,62
1030 TEMKIN,61
1461 SCOTT,65
0028 CORINALDESI,63
0127 HUANG,49
0234 MASSEY,56
0301 OMALLEY,62
0490 SCHWARTZ,61
0544 MOISEIWITSCH,59
0855 MCEACHRAN,60
0899 JOHN,60
0918 BURKE,62
0967 GREENBERG,57
1025 KINGSTON,61
1130 KLEIN,55
1524 TAYLOR,65

H * 0935 OCHKUR,58

HE 0025 MORSE,33
0221 FEENBERG,32
0383 SACHS,58
0544 MOISEIWITSCH,59
0976 LABAHN,64
1056 INOKUTI,61
1308 GHOSH,35
1408 KHARE,65
1817 ORIENT,66
0136 MOTT,33
0258 KOLOS,61
0462 HUZINAGA,60
0590 KOLOS,60
1048 MUKHERJEE,61
1283 KAR,37
1407 KHARE,65
1493 KHARE,64

HE * 0514 BHATTACHARYYA,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
1579 BRACKETT,63

F 0572 HOERNI,53
1287 HILL,36

NA 1865 KARULE,65

NA 1 0719 SLATON,58

S 1176 TIETZ,60

CL 0745 TIETZ,60

AR 0409 TIETZ,59
1579 BRACKETT,63
0821 BAUER,64

K 0821 BAUER,64
1864 KARULE,65
1469 KARULE,65
1865 KARULE,65

BR 1152 ARNOT,34

KR 0156 ARNOT,34
1199 MUKHERJEE,61

CS 1865 KARULE,65

AU 1646 SCHONFELDER,66

HG 0109 BUNYAN,63
1646 SCHONFELDER,66
1424 BUNYAN,65

BI 1646 SCHONFELDER,66

U 0572 HOERNI,53

H2 0251 MASSEY,30
1408 KHARE,65
1311 ROSCOE,38

BR2 1152 ARNOT,34
1191 SHAW,40

RELATIVE

H 0068 MASSEY,34

OIFFERENTIAL ELASTIC SCATTERING THEORETICAL

RELATIVE

HE 0051 MASSEY,31
0068 MASSEY,34
0639 MORSE,32
0054 MASSEY,32
0302 FANO,61

HE 1 0440 BRANSOEN,53

O 0048 MOTT,30

F 1287 HILL,36

CL 1287 HILL,36

AR 0655 HENNEBERG,33

KR 0113 VOSS,33
1294 HUGHES,35
0655 HENNEBERG,33

HG 0653 HENNEBERG,32
0655 HENNEBERG,33

H2 0054 MASSEY,32
0863 GRYZINSKI,64
0194 MASSEY,32

N2 0138 MASSEY,33
0194 MASSEY,32

C2H2 0726 HUGHES,33

C H4 0070 BUCKINGHAM,41
0726 HUGHES,33

C CL4 1287 HILL,36

C2H4 0726 HUGHES,33

C F4 1287 HILL,36

ELECTRONIC EXCITATION EXPERIMENTAL

NORMALIZED

H 0321 FITE,58
0327 LICHTEN,59
0936 SCHULTZ,60
0326 FITE,59
0332 STEBBINGS,60
1486 SMITH,65

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-DAVIES,65
1895 ZAPESOCHNYI,65
0123 OORRESTEIN,42
0125 WOUDENBERG,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 HOLT,65
1677 HOLT,66
1892 HOLT,65

HE * 0759 ROBBEN,63

HE 1 1803 DANCE,66

LI 0773 FELOMAN,63
1072 HUGHES,64

NE 0122 MILATZ,40
0124 OORRESTEIN,42
0205 HADEISHI,63
0637 LANGMUIR,28
1339 HADEISHI,65
1584 REVALO,65
0123 OORRESTEIN,42
0187 BERMAN,49
0288 HERRMANN,36
1094 TIEN,64
1531 FRISH,63

NA 0141 LOVERIDGE,31
0414 VOLKOVA,61
1683 ZAPESOCHNYI,65
0290 CHRISTOPH,35
1517 ZAPESOCHNYI,65

AR 0187 BERMAN,49
0637 LANGMUIR,28
1823 ZAPESOCHNYI,66
0288 HERRMANN,36
0755 VOLKOVA,59

K 0141 LOVERIDGE,31
0344 VOLKOVA,59
0749 VOLKOVA,59
1517 ZAPESOCHNYI,65
1680 ZAPESOCHNYI,65
0275 FABRIKANT,39
0505 VOLKOVA,62
0773 FELOMAN,63
1533 VOLKOVA,63

FE 0929 BELOUSOVA,61

KR 0474 VOLKOVA,60
1823 ZAPESOCHNYI,66

P8 0773 FELOMAN,63
1801 ZAPESOCHNYI,66
1517 ZAPESOCHNYI,65

		ELECTRONIC EXCITATION	EXPERIMENTAL	
NORMALIZED				
CD		17S8 PENKIN,66		
XE		0474 VOLKOVA,60	1823 ZAPESOCHNYI,66	
XE	1	0474 VOLKOVA,60		
CS		0279 MOHLER,32	1467 NOLAN,65	
		1517 ZAPESOCHNYI,65	1801 ZAPESOCHNYI,66	
		1910 KORCHEVOI,66	1972 ZAPESOCHNYI,66	
BA	1	0929 BELOUSOVA,61		
HG		0021 TATE,32	0069 ARNOT,35	
		0176 JONGERIUS,61	0303 RIEDE,54	
		0513 JONGERIUS,60	0623 CROZIER,28	
		0637 LANGMUIR,28		
TL		0121 STROHMEIER,37		
H2		0181 FROST,62	0260 ENGELHARDT,63	
		0321 FITE,58	0327 LICHTEN,59	
		0354 CORRIGAN,58	0637 LANGMUIR,28	
		0652 LUNT,62	0804 LASSETTRE,64	
		0921 LEGLER,63	1265 JONES,48	
O2		0376 LASSETTRE,54	0377 SILVERMAN,57	
		0381 LASSETTRE,57	0652 LUNT,62	
		0794 LASSETTRE,64	0798 LASSETTRE,64	
		1310 SCHULZ,62		
N2		0218 ENGELHAROT,64	0375 LASSETTRE,53	
		0378 SILVERMAN,57	0381 LASSETTRE,57	
		0637 LANGMUIR,28	0652 LUNT,62	
		0813 LASSETTRE,64	0857 SILVERMAN,65	
		0921 LEGLER,63	1296 WILLIAMS,35	
H2O		0382 LASSETTRE,58		
C O2		0380 SHILOFF,57	1205 MEYER,65	
C O		0372 LASSETTRE,53	0374 LASSETTRE,53	
		0794 LASSETTRE,64	0803 LASSETTRE,64	
		0968 SKERBELE,60		
C H4		0190 EOHISTEN,49	0192 FRANCIS,47	
C2H6		0190 EOMISTEN,49		
RELATIVE				
H		0110 ORNSTEIN,33	0269 ORNSTEIN,35	
		0532 KLEINPOPPEN,62	0609 GALLITIS,63	
		0629 HUGHES,23	0922 CHAMBERLAIN,64	
HE		0003 OYMONO,27	0011 MCMILLEN,30	
		0027 HUGHES,33	0058 MOHR,32	
		0063 NICOLL,33	0067 WHIDOINGTON,34	
		0100 ORNSTEIN,30	0108 THIEME,32	
		0119 MAIER-LEIBNITZ,35	0120 POULTNEY,34	
		0158 HARNWELL,29	0173 VAN VOORHIS,34	
		0178 MINKOWSKI,23	0223 SMIT,35	
		0226 MICHELS,30	0227 LAHR,57	
		0235 GLOCKLER,29	0253 OYMONO,29	
		0263 HANLE,29	0293 PRIESTLY,35	
		0304 HANLE,52	0319 SCHULZ,58	
		0328 SCHULZ,59	0361 SMIT,58	
		0492 MCFARLAND,63	0510 MCFARLAND,62	
		0513 JONGERIUS,60	0516 SMIT,63	
		0519 HEOOLE,63	0521 MCFARLAND,62	
		0551 LASSETTRE,64	0564 ST JOHN,62	
		0612 LASSETTRE,65	0620 COLES,37	
		0628 HUGHES,23	0651 LEES,29	
		0663 HERTZ,25	0668 WOMER,34	
		0692 KUYATT,63	0747 MCFARLAND,64	
		0753 OOLGOV,59	0880 MAURER,34	
		0912 ST JOHN,61	0968 SKERBELE,60	
		1027 HIGGINSON,61	1073 MCFARLAND,64	
		1076 ZAPESOCHNYI,63	1090 SCHULZ,64	
		1148 ELENBAAS,30	1304 CHAMBERLAIN,65	
		1411 RAFF,62	1417 CHAMBERLAIN,65	
		1513 HEOOLE,65	1521 ZAPESOCHNYI,65	
		1527 CHAMBERLAIN,65	1572 CERMAK,66	
		1588 EHRHAROT,65	1753 BOERSCH,65	
		1776 KUPRIYANOV,66	1781 CERHAK,66	
		1839 HEHLHORN,66	1982 OOERING,66	
LI		1586 HAFNER,65		
NE		0059 MOHR,32	0119 MAIER-LEIBNITZ,35	
		0137 NICOLL,33	0152 HANLE,30	
		0158 HARNWELL,29	0178 MINKOWSKI,23	
		0268 HILATZ,35	0663 HERTZ,25	
		0692 KUYATT,63	1076 ZAPESOCHNYI,63	
		1153 ENOE,29	1301 OLMSTED,65	
		1648 ZAPESOCHNYI,61	1776 KUPRIYANOV,66	
NE	1	0067 WHIDOINGTON,34		

		ELECTRONIC EXCITATION	EXPERIMENTAL	
RELATIVE				
NA		0015 MICHELS,31	0111 HAFT,33	
		0506 ZAPESOCHNYI,62	1078 ZAPESOCHNYI,63	
		1648 ZAPESOCHNYI,61		
AR		0020 HUGHES,32	0058 MOHR,32	
		0063 NICOLL,33	0067 WHIDOINGTON,34	
		0115 FISCHER,33	0119 MAIER-LEIBNITZ,35	
		0178 MINKOWSKI,23	0304 HANLE,52	
		0344 VOLKOVA,59	0692 KUYATT,63	
		0837 PORTEUS,64	0968 SKERBELE,60	
		1301 OLMSTED,65	1411 RAFF,62	
		1527 CHAMBERLAIN,65	1776 KUPRIYANOV,66	
K		0344 VOLKOVA,59		
ZN		0105 LARCHE,31	1077 ZAPESOCHNYI,63	
		1079 ZAPESOCHNYI,63		
KR		0178 MINKOWSKI,23	0607 OEVYATOV,55	
		0692 KUYATT,63	1301 OLMSTED,65	
		1325 GUK,57	1776 KUPRIYANOV,66	
KR	1	1325 GUK,57		
R8		1078 ZAPESOCHNYI,63		
AG		0289 FUHRMANN,39		
CO		0105 LARCHE,31	0180 MINKOWSKI,23	
		0504 ZAPESOCHNYI,62	1079 ZAPESOCHNYI,63	
		1648 ZAPESOCHNYI,61		
XE		0178 MINKOWSKI,23	0304 HANLE,52	
		0308 KUYATT,64	0692 KUYATT,63	
		1325 GUK,57	1776 KUPRIYANOV,66	
XE	1	1325 GUK,57		
CS		0476 BOGDANOVA,60	1040 ZAPESOCHNYI,64	
		1078 ZAPESOCHNYI,63		
HG		0040 NOTTINGHAM,39	0058 MOHR,32	
		0078 ZAPESOCHNYI,61	0092 HANLE,30	
		0096 VETTERLEIN,39	0108 THIEME,32	
		0112 ORNSTEIN,33	0114 SEILER,33	
		0115 FISCHER,33	0137 NICOLL,33	
		0142 FABRIKANT,37	0164 GAGGE,33	
		0173 VAN VOORHIS,34	0176 JONGERIUS,61	
		0179 HANLE,29	0180 MINKOWSKI,23	
		0191 ARNOT,29	0222 BOGDANOVA,63	
		0229 OSTENSEN,29	0231 BRATTAIN,29	
		0262 SCHAFFERNICHT,30	0315 JONGERIUS,56	
		0319 SCHULZ,58	0476 BOGDANOVA,60	
		0513 JONGERIUS,60	0546 SMIT,56	
		0634 LEE,39	0635 WHITE,26	
		0656 BRICOUT,28	0665 WHITNEY,29	
		0808 FRISH,54	0816 SIEBERTZ,31	
		0882 ZAPESOCHNYI,62	0965 BAKIS,59	
		1077 ZAPESOCHNYI,63	1079 ZAPESOCHNYI,63	
		1153 ENOE,29	1233 FRISH,56	
		1275 VALASEK,27	1290 ROZGACHEV,58	
		1324 BOGDANOVA,59	1475 ROSE,30	
		1521 ZAPESOCHNYI,65	1534 BOGDANOVA,63	
		1570 SMIT,65	1575 FYODOROV,65	
TL		0289 FUHRMANN,39		
P8		0289 FUHRMANN,39		
H2		0059 MOHR,32	0063 NICOLL,33	
		0158 HARNWELL,29	0173 VAN VOORHIS,34	
		0232 BRASEFIELD,29	0270 KRUITHOF,35	
		0319 SCHULZ,58	0987 COOLIDGE,44	
		1301 OLMSTED,65	1303 GEIGER,64	
		1411 RAFF,62	1585 BOERSCH,65	
		1692 HELOEHAN,66		
N2		0059 MOHR,32	0108 THIEME,32	
		0137 NICOLL,33	0158 HARNWELL,29	
		0328 SCHULZ,59	0334 STEWART,58	
		0475 ZAPESOCHNYI,60	0612 LASSETTRE,65	
		0632 LANGSTROTH,34	0752 KISHKO,59	
		0953 STEWART,55	0968 SKERBELE,60	
		0989 THOMPSON,34	1157 RUDBERG,30	
		1298 LANGSTROTH,35	1301 OLMSTED,65	
		1312 LANGSTROTH,35	1406 WINTERS,65	
		1480 LASSETTRE,65	1481 SKERBELE,65	
		1597 GEIGER,65	1648 ZAPESOCHNYI,61	
		1679 MEYER,66	1693 HEIDEMAN,66	
N2	1	0039 BUNOY,37	0343 ZAPESOCHNYI,59	
		0757 KISHKO,60		
H2O		0558 SCHULZ,60	0968 SKERBELE,60	
		1411 RAFF,62	1419 SKERBELE,65	
		1481 SKERBELE,65	1824 SKERBELE,66	
N H3		0968 SKERBELE,60	1481 SKERBELE,65	

	ELECTRONIC EXCITATION	EXRERIMENTAL		ELECTRONIC EXCITATION	THEORETICAL
RELATIVE			NORMALIZED		
N 0	0612 LASSETTRE,65	1841 KOVAL,66	H *	1522 ROMILLA,63	1657 KINGSTON,66
				1674 VELORE,65	1718 ORMONDE,64
C2H2	1374 BOWMAN,65	1812 GEIGER,65		1851 KINGSTON,66	1868 VELORE,65
C 02	0059 MOHR,32	0612 LASSETTRE,65	HE	0051 MASSEY,31	0061 MASSEY,33
	1047 KISHKO,63	1A01 LASSETTRE,65		0139 MASSEY,35	0155 SEATON,62
	1841 KOVAL,66			0234 MASSEY,56	0281 YAVORSKY,44
				0311 BECKER,64	0349 MASSEY,60
C 0	0328 SCHULZ,59	0475 ZAPESOCHNYI,60		0367 MOISEIWITSCH,57	0391 HART,56
	1301 OLMSTED,65	1418 MEYER,65		0395 ALTSHULER,53	0396 ALTSHULER,52
	1481 SKERBELE,65	1743 SILVERMAN,64		0432 ORIK,55	0435 ROTHENSTEIN,54
	1841 KOVAL,66	1887 SKERBELE,66		04A1 MASSEY,52	0452 GRYZINSKI,59
				0A60 MASSEY,54	0462 HUZINAGA,60
C 0 1	0039 BUNDY,37			0555 BECKER,63	0616 MASSEY,31
				0676 KAR,40	0718 OCHKUR,64
BR2	0983 SWICK,61			0740 PERCIVAL,58	0754 VAINSHTEIN,59
				0760 MATORA,60	0765 ITOH,60
C H4	0137 NICOLL,33	1374 BOWMAN,65		0801 LASSETTRE,64	0863 GRYZINSKI,64
	1588 EMRHAROT,65			0892 BURGESS,63	1014 GRYZINSKI,65
				1091 SILVERMAN,58	1115 OCHKUR,63
02	0987 COOLIDGE,44			1212 BECKER,64	1246 STAUFFER,65
				1265 JONES,48	1546 VAINSHTEIN,61
C2H4	1374 BOWMAN,65	1411 RAFF,62		1557 BAUER,65	1558 BAUER,65
				1567 LASSETTRE,65	1590 WILLIAMSON,62
C2H6	1374 BOWMAN,65			1644 JOACHAIN,65	1645 JOACHAIN,65
				1663 SILVERMAN,66	1682 OCHKUR,65
S F6	1856 SIMPSON,66			1695 FOX,66	1710 BELL,66
				1767 FOX,65	1793 BIELSKI,65
				1846 BURKE,66	
	ELECTRONIC EXCITATION	THEORETICAL	HE *	1103 YAVORSKY,47	1658 MARRIOTT,66
NORMALIZED				1804 OCHKUR,66	
H	0032 GORSHANOVA,62	0044 BURKE,62	HE 1	0417 BURGESS,61	0436 BRANSDEN,53
	0051 MASSEY,31	0083 BURKE,63		0669 BURKE,64	0670 MCCARROLL,64
	0091 DAMBURG,62	0097 DAMBURG,62		1080 BURKE,64	1340 BURKE,64
	0128 PETERKOP,62	0154 DAMBURG,62		1847 BURKE,66	
	0155 SEATON,62	0183 ELSASSER,27			
	023A MASSEY,56	0277 GOLDSTEIN,33	LI	0830 VELORE,59	0836 VELORE,59
	0278 DAMBURG,62	0296 GAILITIS,63		0990 KARULE,6A	1072 HUGHES,64
	0350 KINGSTON,60	0351 BELL,63		1146 WU,44	1190 WU,40
	0389 BOROWITZ,56	0391 HART,56		1469 KARULE,65	1515 KARULE,64
	0418 KHASHABA,58	0420 MARRIOTT,58		1813 VAINSHTEIN,6A	
	0423 BATES,57	0424 MCCARROLL,57			
	0425 BRANSDEN,57	0429 BRANSDEN,56	LI 1	1688 SURAL,66	
	0432 OPIK,55	0435 ROTHENSTEIN,5A			
	0438 MASSEY,53	0446 MCCOYD,60	BE	0884 PILYANKEVICH,60	
	0458 ERSKINE,52	0507 DAMBURG,63			
	0534 SOMERVILLE,62	0540 MILFORD,60	RE 1	0775 BELY,63	1305 BELY,6A
	0542 DAMBURG,62	0545 ROBINSON,63		1850 BELY,66	
	0549 KINGSTON,60	0563 LYNN,59			
	0567 WU,60	0580 HUCK,57	BE 2	0884 PILYANKEVICH,60	
	0585 SEATON,62	0593 OMIDVAR,64			
	0648 DAMBURG,63	0671 STABLER,64	B	0884 PILYANKEVICH,60	
	0712 BURKE,61	0721 SEATON,61			
	0722 LAWSON,61	0809 HELLUNO,60	C	0884 PILYANKEVICH,60	
	0826 RRESNYAKOV,64	0828 POMILLA,64			
	0829 PETERKOP,59	0859 SMITH,60	C 1	0714 SEATON,58	0909 SEATON,55
	0866 MARRIOTT,64	087A TAYLOR,64			
	0892 BURGESS,63	0896 SMITH,60	C 2	0884 PILYANKEVICH,60	
	0904 KYLE,64	0908 KYLE,64			
	0913 AKERIB,61	0914 MOISEIWITSCH,61	C 3	0775 BELY,63	
	0919 MILFORD,60	0935 OCHKUR,58			
	0996 AKERIB,60	1009 BURKE,63	C 4	0884 PILYANKEVICH,60	1546 VAINSHTEIN,61
	1014 GRYZINSKI,65	1037 HUMMER,61			
	1050 SCANLON,61	1061 VAINSHTEIN,64	C 5	1A74 VAINSHTEIN,64	1546 VAINSHTEIN,61
	1074 SOMERVILLE,63	1109 CUNNINGHAM,64			
	1115 OCHKUR,63	1130 KLEIN,55	N 1	0A04 SEATON,53	048A SEATON,55
	1135 PETERKOP,60	1246 STAUFFER,65		0714 SEATON,58	1696 BELY,66
	1257 MOISEIWITSCH,65	1409 BELL,65			
	1416 TAIT,63	1A57 VRIENS,65	N 4	1536 TAYLOR,65	1653 BURKE,66
	1461 SCOTT,65	1466 OMIDVAR,65		1850 BELY,66	
	1468 VRIENS,65	147A VAINSHTEIN,64			
	1479 COLEMAN,65	1532 CROTHERS,65	O	0248 YAMANOUCHI,40	0366 YAMANOUCHI,50
	1546 VAINSHTEIN,6I	1550 DAMBURG,63		0A27 PERCIVAL,57	0484 SEATON,55
	1551 DAMBURG,63	1552 DAMBURG,63		1832 SEATON,52	
	1553 DAMBURG,63	1557 BAUER,65	O 1	0404 SEATON,53	0A84 SEATON,55
	1560 EISSNER,6A	1594 VRIENS,65		0843 SEATON,57	1216 ALLER,A8
	1657 KINGSTON,66	1697 COLEMAN,66			
	1718 ORMONDE,64	1747 KANG,66	O 2	0265 HE88,40	0404 SEATON,53
	1773 RUDGE,65	1793 BIELSKI,65		0484 SEATON,55	071A SEATON,58
	1813 VAINSHTEIN,64	1847 BURKE,66		1696 BELY,66	
	1851 KINGSTON,66	1859 ORMONDE,66			
	1868 VELORE,65	1877 MCCARROLL,65	O 5	0775 BELY,63	0792 VARSAVSKY,61
	1886 COLEMAN,65	1898 KYLE,64		081A VARSAVSKY,63	0970 BELY,62
	1985 FAISAL,65			1017 VARSAVSKY,62	
H *	0103 MCCOYD,63	0413 MCCREA,60	F 1	040A SEATON,53	048A SEATON,55
	0419 BOYD,58	0431 SEATON,55	F 2	0A0A SEATON,53	0A84 SEATON,55
	0445 FISHER,60	0446 MCCOYD,60	F 3	040A SEATON,53	0A8A SEATON,55
	0593 OMIDVAR,64	0826 PRESNYAKOV,6A	F 5	0792 VARSAVSKY,61	
	0859 SMITH,60	0954 SARARH,6A	F 6	0792 VARSAVSKY,61	
	1074 SOMERVILLE,63	1103 YAVORSKY,47			
	1466 OMIDVAR,65	1468 VRIENS,65			

	ELECTRONIC EXCITATION NORMALIZED	THEORETICAL
NE	1S76 VELDRE,6S	1681 BOIKOVA,6S
	1866 VELDRE,6S	1867 VELDRE,6S
NE 2	0404 SEATON,S3	0484 SEATON,SS
NE 3	0404 SEATON,S3	0484 SEATON,SS
NE 4	0404 SEATON,S3	0484 SEATON,SS
NE S	0792 VARSAVSKY,61	
NE 6	0792 VARSAVSKY,61	18S0 BELY,66
NE 7	0792 VARSAVSKY,61	
NA	01SS SEATON,62	0431 SEATON,SS
	0452 GRYZINSKI,S9	0497 SOMERVILLE,61
	1014 GRYZINSKI,6S	1023 SALMONA,61
	1072 HUGHES,64	111S OCHKUR,63
	12S1 BARNES,6S	1319 VELDRE,S6
	1414 LANE,64	1469 KARULE,6S
	1474 VAINSHTEIN,64	1S20 SALMONA,63
	1S46 VAINSHTEIN,61	1S87 SALMONA,6S
	1793 BIELSKI,65	1813 VAINSHTEIN,64
NA *	0S6B LANE,64	
NA 3	0404 SEATON,S3	0484 SEATON,SS
NA 4	0404 SEATON,S3	0484 SEATON,SS
	0792 VARSAVSKY,61	
NA S	0792 VARSAVSKY,61	
NA 6	0792 VARSAVSKY,61	
NA 7	0792 VARSAVSKY,61	
NA 8	0792 VARSAVSKY,61	
MG 1	077S BELY,63	10S3 VAN REGEMORTER,61
	1122 VAN REGEMORTER,60	
MG 4	0404 SEATON,S3	0484 SEATON,SS
	0792 VARSAVSKY,61	
MG S	0792 VARSAVSKY,61	
MG 6	0792 VARSAVSKY,61	
MG 7	0792 VARSAVSKY,61	
MG 8	0792 VARSAVSKY,61	
MG 9	077S BELY,63	0792 VARSAVSKY,61
AL 4	0792 VARSAVSKY,61	
AL S	0792 VARSAVSKY,61	
AL 6	0792 VARSAVSKY,61	
AL 7	0792 VARSAVSKY,61	
AL 8	0792 VARSAVSKY,61	
AL 9	0792 VARSAVSKY,61	
AL 10	0792 VARSAVSKY,61	
SI 1	0714 SEATON,58	0909 SEATON,SS
SI 3	077S BELY,63	
SI S	0792 VARSAVSKY,61	
SI 6	0792 VARSAVSKY,61	
SI 7	0792 VARSAVSKY,61	
SI 8	0792 VARSAVSKY,61	
SI 9	0792 VARSAVSKY,61	
SI 10	0792 VARSAVSKY,61	
SI 11	0792 VARSAVSKY,61	
P 6	0792 VARSAVSKY,61	
P 7	0792 VARSAVSKY,61	
P 8	0792 VARSAVSKY,61	
P 9	0792 VARSAVSKY,61	
P 10	0792 VARSAVSKY,61	

	ELECTRONIC EXCITATION NORMALIZED	THEORETICAL
P 11	0792 VARSAVSKY,61	
P 12	0792 VARSAVSKY,61	
S 1	0404 SEATON,S3	0442 CZYZAK,64
	0484 SEATON,SS	
S 2	0442 CZYZAK,64	1696 BELY,66
S 8	0792 VARSAVSKY,61	
S 9	0792 VARSAVSKY,61	
S 10	0792 VARSAVSKY,61	
S 11	0792 VARSAVSKY,61	
CL 3	0442 CZYZAK,64	1696 BELY,66
CL 10	0792 VARSAVSKY,61	
CL 11	0792 VARSAVSKY,61	
CL 12	0792 VARSAVSKY,61	
AR	1867 VELORE,6S	
AR 4	0442 CZYZAK,64	1696 BELY,66
AR 7	0792 VARSAVSKY,61	
AR 11	0792 VARSAVSKY,61	
AR 12	0792 VARSAVSKY,61	
AR 13	0792 VARSAVSKY,61	
K	1072 HUGHES,64	1469 KARULE,65
	1813 VAINSHTEIN,64	
K 7	0792 VARSAVSKY,61	
K 8	0792 VARSAVSKY,61	
K 12	0792 VARSAVSKY,61	
K 13	0792 VARSAVSKY,61	
CA	1448 BELY,64	
CA 1	0720 VAN REGEMORTER,60	10S4 VAN REGEMORTER,61
	1122 VAN REGEMORTER,60	1876 PETRINI,65
CA 7	0792 VARSAVSKY,61	
CA 8	0792 VARSAVSKY,61	
CA 9	0792 VARSAVSKY,61	
CA 14	0792 VARSAVSKY,61	
SC 6	0792 VARSAVSKY,61	
SC 7	0792 VARSAVSKY,61	
SC 8	0792 VARSAVSKY,61	
SC 9	0792 VARSAVSKY,61	
SC 10	0792 VARSAVSKY,61	
TI 6	0792 VARSAVSKY,61	
TI 7	0792 VARSAVSKY,61	
TI 8	0792 VARSAVSKY,61	
TI 9	0792 VARSAVSKY,61	
TI 10	0792 VARSAVSKY,61	
TI 11	0792 VARSAVSKY,61	
V 6	0792 VARSAVSKY,61	
V 7	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	

		ELECTRONIC EXCITATION	THEORETICAL
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,SS	
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 BLAHA,62 0547 BELY,62 0923 WOOLLEY,48	0455 HILL,51 0792 VARSAVSKY,61
FE	14	0792 VARSAVSKY,61	
FE	15	0775 BELY,63 1932 KRUEGER,65	0792 VARSAVSKY,61
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	1813 VAINSHTEIN,64
CS		1063 HANSEN,64 1456 WITTING,65 1813 VAINSHTEIN,64	1072 HUGHES,64 1469 KARULE,65
CS	*	1272 SHELOON,65	
BA	1	1876 PETRINI,65	
HG		0202 YAVORSKY,46 0452 GRYZINSKI,59	0272 YAVORSKY,45 1414 LANE,64
HG	*	1103 YAVORSKY,47	
H2		0045 ROSCOE,41	0194 MASSEY,32
H2	1	1055 PEEK,64	1342 CALLAWAY,65
O2		1557 BAUER,65	1558 BAUER,65
N2		1557 BAUER,65	1558 BAUER,65

		ELECTRONIC EXCITATION	THEORETICAL
NORMALIZED			
N2	1	1557 BAUER,65	1558 BAUER,65
H2O		0294 NIIRA,49	
N O		1557 BAUER,65	1558 BAUER,65
RELATIVE			
HE		0284 MASSEY,33 0639 MORSE,32	0386 BARANGER,57 1297 JONES,36
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	

		ELECTRON DETACHMENT	EXPERIMENTAL
NORMALIZED			
H	-	1880 TISONE,66	

		ELECTRON DETACHMENT	THEORETICAL
NORMALIZED			
H	-	0415 GELTMAN,60 0576 RUDGE,64 1483 TIETZ,63	0470 MCDOWELL,63 1125 GELTMAN,60 1764 SMIRNOV,66
O	-	0365 WATANABE,50	
CL	-	1300 MASSEY,36	1463 ROBINSON,65

		OE-EXCITATION	EXPERIMENTAL
NORMALIZED			
HE	*	0569 PHELPS,55	
CS	*	0279 MOHLER,32	
RELATIVE			
HG	*	0102 LATYSCHEFF,30	

		OE-EXCITATION	THEORETICAL
NORMALIZED			
HE	*	0426 MARRIOTT,57	1658 MARRIOTT,66
O	*	0366 YAMANOUCHI,50	
CS	*	1456 WITTING,65	
HG	*	0202 YAVORSKY,46	

NORMALIZED	IONIZATION	EXPERIMENTAL
H	0320 FITE,S8	0491 BOYD,60
	0978 ROTHE,62	1106 BOKSENBERG,61
HE	0002 COMPTON,2S	0029 LISKA,34
	022S SMITH,30	033S BOYD,S8
	0340 LAMPE,S7	0373 LASSETTRE,53
	0626 ASUNDI,63	0674 COMPTON,18
	0743 ASUND1,63	0787 HUGHES,63
	0799 SILVERMAN,64	0942 ST JOHN,64
	0974 HARRISON,S6	099S GDOORICH,37
	1105 ENGLANDER-GOLDEN,64	1281 SCHRAM,6S
	1329 FOX,61	14S9 RAPP,6S
	1706 SCHRAM,66	1748 SCHRAM,66
	1858 ADAMCZYK,66	1863 SCHRAM,66
	189S ZAPESOCHNYI,6S	
HE *	0280 FITE,63	
HE 1	0907 OOLDER,61	
LI	0773 FELDMAN,63	1104 MCFARLAND,6S
LI 1	1421 LINEBERGER,6S	
N	0831 PETERSON,64	1268 SMITH,62
N 1	0261 HARRISON,63	
O	0323 FITE,59	0602 JAHODA,62
	0978 ROTHE,62	1106 BOKSENBERG,61
NE	0002 COMPTON,2S	0012 BLEAKNEY,30
	022S SMITH,30	0340 LAMPE,S7
	0626 ASUNDI,63	0743 ASUNDI,63
	0831 PETERSON,64	110S ENGLANDER-GOLDEN,64
	1281 SCHRAM,6S	1329 FOX,61
	14S9 RAPP,6S	1706 SCHRAM,66
	1748 SCHRAM,66	1858 ADAMCZYK,66
	1863 SCHRAM,66	
NE 1	0264 DOLDER,63	0723 LATYPOV,64
NA	0088 FUNK,30	1104 MCFARLAND,6S
	1217 BRINK,64	1683 ZAPESOCHNYI,6S
NA 1	1S68 HOOPER,66	
AR	0002 COMPTON,2S	0012 BLEAKNEY,30
	022S SMITH,30	0340 LAMPE,S7
	03S7 TOZER,60	0626 ASUNDI,63
	0743 ASUNOI,63	0831 PETERSON,64
	0946 GLICK,64	110S ENGLANDER-GOLDEN,64
	1281 SCHRAM,6S	1329 FOX,61
	14S9 RAPP,6S	170S SCHRAM,66
	1748 SCHRAM,66	1863 SCHRAM,66
AR 1	0723 LATYPOV,64	
AR 2	0723 LATYPOV,64	
K	0088 FUNK,30	0773 FELDMAN,63
	1104 MCFARLAND,6S	1217 BRINK,64
K 1	1S68 HOOPER,66	
CA	1S02 MCFARLAND,6S	
ZN	1687 POTTIE,66	
KR	0340 LAMPE,S7	03S7 TOZER,60
	0626 ASUNOI,63	0743 ASUNDI,63
	1105 ENGLANDER-GOLDEN,64	1281 SCHRAM,6S
	14S9 RAPP,6S	170S SCHRAM,66
	1748 SCHRAM,66	1863 SCHRAM,66
KR 1	0723 LATYPOV,64	
KR 2	0723 LATYPOV,64	
RB	0773 FELDMAN,63	1104 MCFARLAND,6S
	1217 BRINK,64	
SR	1S02 MCFARLAND,6S	
AG	1081 LYUBIMOV,63	
CO	1687 POTTIE,66	
XE	0340 LAMPE,S7	03S7 TOZER,60
	0626 ASUNOI,63	0743 ASUNOI,63
	1105 ENGLANDER-GOLDEN,64	1281 SCHRAM,6S
	14S9 RAPP,6S	170S SCHRAM,66
	1748 SCHRAM,66	1863 SCHRAM,66
XE 1	0723 LATYPOV,64	
XE 2	0723 LATYPOV,64	

NORMALIZED	IONIZATION	EXPERIMENTAL
CS	1104 MCFARLAND,6S	1217 BRINK,64
	187S HE1L,66	1972 ZAPESOCHNYI,66
BA	1502 MCFARLAND,6S	
HG	0002 COMPTON,2S	0004 JONES,27
	0021 TATE,32	0029 LISKA,34
	0040 NOTTINGHAM,39	0069 ARNDT,3S
	0224 SMITH,31	0228 BLEAKNEY,30
	0303 RIEDE,S4	0974 HARRISON,S6
	1329 FOX,61	
HG 1	0723 LATYPOV,64	
HG 2	0723 LATYPDV,64	
TL	1S02 MCFARLAND,6S	
H2	0002 COMPTON,2S	0018 TATE,32
	0041 NEWHALL,42	0260 ENGELHAROT,63
	0320 FITE,S8	033S BOYD,S8
	0340 LAMPE,S7	0974 HARRISON,S6
	1105 ENGLANDER-GOLDEN,64	1106 BOKSENBERG,61
	1281 SCHRAM,6S	14S9 RAPP,6S
	1748 SCHRAM,66	1858 ADAMCZYK,66
	1863 SCHRAM,66	
O2	0018 TATE,32	0323 FITE,S9
	0334 STEWART,S8	0340 LAMPE,S7
	0377 SILVERMAN,S7	0853 CRAGGS,S7
	0861 PRASAO,61	0938 ASUNOI,63
	0946 GLICK,64	107S SILVERMAN,64
	110S ENGLANDER-GOLDEN,64	1106 BOKSENBERG,61
	1281 SCHRAM,6S	1289 SCHULZ,62
	14S9 RAPP,6S	1748 SCHHAM,66
	1838 NISHIMURA,66	1863 SCHRAM,66
N2	0002 COMPTON,2S	0018 TATE,32
	0153 COOK,62	0333 STEWART,56
	0340 LAMPE,S7	0831 PETERSON,64
	0857 SILVERMAN,6S	0946 GLICK,64
	0992 SHERIDAN,61	110S ENGLANDER-GOLDEN,64
	1106 BOKSENBERG,61	1123 HAYAKAWA,64
	1281 SCHRAM,6S	1329 FOX,61
	14S9 RAPP,6S	1S04 MCCONKEY,6S
	174R SCHRAM,66	1863 SCHRAM,66
H2O	0340 LAMPE,S7	1782 SCHUTTEN,66
N H3	0340 LAMPE,S7	
N O	0018 TATE,32	0340 LAMPE,S7
	0946 GLICK,64	110S ENGLANDER-GOLDEN,64
	14S9 RAPP,6S	
C2H2	001s TATE,32	0340 LAMPE,S7
N2O	110S ENGLANDER-GOLDEN,64	14S9 RAPP,6S
	1771 LATIMER,6S	
C D2	0340 LAMPE,S7	086S CRAGGS,60
	0938 ASUNOI,63	0948 BHALLA,60
	110S ENGLANDER-GOLDEN,64	1459 RAPP,6S
	1700 NISHIMURA,66	
C D	0018 TATE,32	0340 LAMPE,S7
	0867 CRAGGS,S8	0938 ASUNDI,63
	110S ENGLANDER-GOLDEN,64	1329 FOX,61
	1459 RAPP,6S	
H CL	0002 COMPTON,2S	0340 LAMPE,S7
C H4	0340 LAMPE,S7	0356 TOZER,S8
	0946 GLICK,64	1105 ENGLANDER-GOLDEN,64
	14S9 RAPP,6S	1690 SCHRAM,66
	1858 ADAMCZYK,66	1863 SCHRAM,66
H2S	0340 LAMPE,S7	
H O	1396 BRIGLIA,6S	
D2	0260 ENGELHARDT,63	110S ENGLANDER-GOLDEN,64
	1281 SCHRAM,6S	14S9 RAPP,6S
	1863 SCHRAM,66	
C2H4	0340 LAMPE,S7	1459 RAPP,6S
C2H6	0340 LAMPE,S7	1690 SCHRAM,66
S F6	0940 ASUNOI,64	1459 RAPP,6S
C H3CL	0340 LAMPE,S7	
C D4	1690 SCHRAM,66	1863 SCHRAM,66
TE2	1687 POTTIE,66	

RELATIVE IONIZATION	EXPERIMENTAL		RELATIVE IONIZATION	EXPERIMENTAL	
H 1508 MCGOWAN,65			RB 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 BLAI5,60	1578 OE MARIA,65	
0304 HANLE,52	0331 STANTON,60		CO 0313 HICKAM,54	1578 DE MARIA,65	
0339 OTVO5,56	0353 FOX,58		TE 1578 DE MARIA,65		
0525 KRAU55,59	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 ZAPE5OCHNYI,63		0353 FOX,58	0481 CLOUTIER,59	
1215 HUTCHI5ON,64	1244 MORRI5ON,53		0525 KRAUS5,59	0591 BURN5,64	
1373 SIMP5ON,65	1530 FIQUET-FAYARO,65		0692 KUYATT,63	0704 HICKAM,54	
1538 HAIDT,65	1871 LIPELES,65		0707 FOX,60	0854 CLARKE,54	
1919 FIQUET-FAYARD,65			0986 BLANC,62	1034 FONER,61	
			1069 OORMAN,59	1070 DORMAN,61	
LI 01S0 BRINK,62			1107 MORRI5ON,64	1137 KI5ER,62	
			1244 MORRI5ON,53	1453 5TUBER,65	
C 0659 CRAWFORO,62					
			XE 1 0713 KUPRIYANOV,64		
NE 0012 BLEAKNEY,30	0066 MOHR,34				
0213 STEVEN5ON,42	0242 MORRI5ON,59		XE 2 0713 KUPRIYANOV,64		
0280 FITE,63	0339 OTVO5,S6				
0481 CLOUTIER,59	0525 KRAUS5,S9		CS 0216 TATE,34		
0625 JESSE,2S	0692 KUYATT,63				
0704 HICKAM,S4	0986 BLANC,62		AU 0566 BLAI5,60		
1039 KANEKO,61	1068 OORMAN,61				
1244 MORRISON,53	1373 5IMP5ON,65		HG 0012 BLEAKNEY,30	0014 HAUPT,31	
14S3 5TUBER,6S	1920 ZIESEL,65		0066 MOHR,34	0211 MCFADDEN,46	
			0215 BELL,39	0313 HICKAM,54	
NE * 0280 FITE,63			1070 OORMAN,61	1095 BLEAKNEY,29	
			1244 MORRISON,53	1578 OE MARIA,65	
NE 1 0713 KUPRIYANOV,64					
			HG 1 0713 KUPRIYANOV,64		
NA 01S0 BRINK,62	0216 TATE,34				
0466 OIBELER,S9	1039 KANEKO,61		HG 2 0713 KUPRIYANOV,64		
1919 FIQUET-FAYARD,65	1920 ZIESEL,65				
			U 1261 MANN,64		
MG 1039 KANEKO,61	1920 ZIE5EL,65				
			H2 0009 BLEAKNEY,30	0041 NEWHALL,42	
AL 0659 CRAWFORO,62			0066 MOHR,34	0170 BAERWALO,25	
			0255 SMYTH,24	0339 OTVOS,56	
AR 0012 BLEAKNEY,30	0066 MOHR,34		0539 HAYAKAWA,55	0625 JE5SE,2S	
0213 STEVENSON,42	0242 MORRI5ON,59		0659 CRAWFORO,62	0660 KALLMANN,27	
0280 FITE,63	0283 FIQUET-FAYARO,63		1164 BRIGLIA,65	1292 BRIGLIA,6S	
0304 HANLE,52	0339 OTVOS,56		1303 GEIGER,64	1415 MCGOWAN,6S	
0483 COTTIN,59	0S2S KRAU5S,59		150A MCGOWAN,6S		
0S39 HAYAKAWA,55	0625 JE55E,25				
0692 KUYATT,63	0704 HICKAM,54		O2 0167 RANDOLPH,58	0214 HAG5TRUM,41	
0777 BRINK,61	0781 FOX,60		02S5 SMYTH,24	0334 5TEWART,58	
0958 MELTON,62	0986 BLANC,62		0339 OTVOS,56	0341 FRO5T,58	
1034 FONER,61	1038 KANEKO,61		0S26 FRO5T,59	0778 ODRMAN,60	
1069 OORMAN,59	1070 DORMAN,61		0985 BRION,64	1089 MCGOWAN,64	
1100 BECKER,64	1124 FIQUET-FAYARO,62		1108 DORMAN,63		
1162 FIQUET-FAYARD,62	1244 MORRI5ON,53				
1373 5IMP5ON,65	1453 5TUBER,65		N2 0017 VAUGHAN,31	0066 MOHR,34	
1530 FIQUET-FAYARO,6S	1919 FIQUET-FAYARO,65		0214 HAG5TRUM,41	0271 FOX,54	
			0339 OTVO5,56	0523 FROST,S5	
AR * 0280 FITE,63			0625 JE5SE,25	0660 KALLMANN,27	
			0778 OORMAN,60	0854 CLARKE,54	
AR 1 0713 KUPRIYANOV,64			09S3 5TEWART,S5	1038 KANEKO,61	
			1068 OORMAN,61	1108 OORMAN,63	
K 01S0 BRINK,62	0216 TATE,34		1244 MORRI5ON,53	1509 FINEMAN,65	
0283 FIQUET-FAYARO,63	1039 KANEKO,61		1S30 FIQUET-FAYARO,65	1648 ZAPE5OCHNYI,61	
1124 FIQUET-FAYARO,62	1530 FIQUET-FAYARD,65		1987 HAYAKAWA,65		
1919 FIQUET-FAYARO,6S					
			H2D 0483 COTTIN,S9	055B SCHULZ,60	
CA 0283 FIQUET-FAYARO,63	1045 KANEKO,63		0924 MANN,40	1919 FIQUET-FAYARO,6S	
1124 FIQUET-FAYARO,62					
			N H3 1068 OORMAN,61	1S30 FIQUET-FAYARO,65	
FE 1874 COOPER,66					
			N O 0214 HAG5TRUM,41	0481 CLOUTIER,59	
CO 1874 COOPER,66			08S4 CLARKE,54	1068 DORMAN,61	
			1530 FIQUET-FAYARO,65	1648 ZAPE5OCHNYI,61	
NI 1874 COOPER,66					
			CL2 0526 FRO5T,59	070B FROST,60	
CU 0566 BLAI5,6?					
			N2D 0339 OTVO5,S6	1067 CURRAN,61	
ZN 0283 FIQUET-FAYARD,63	0313 HICKAM,54		1916 CONNOLLY,65		
1167 FIQUET-FAYARD,63	1578 OE MARIA,65				
			C O2 0339 OTVO5,56	0531 COLLIN,60	
5E 1578 OE MARIA,65			0847 A5UNDI,64	1068 DORMAN,61	
			1244 MORRI5ON,53	1530 FIQUET-FAYARO,65	
KR 0216 TATE,34	0283 FIQUET-FAYARD,63		1919 FIQUET-FAYARO,6S		
0310 FOX,53	0339 OTVO5,56				
0410 BURN5,61	0S23 FRO5T,5S		C O 0017 VAUGHAN,31	0214 HAG5TRUM,41	
0524 FROST,S7	0526 FRO5T,59		0271 FOX,S4	0310 FOX,53	
0692 KUYATT,63	0704 HICKAM,54		0339 OTVOS,56	062S JE55E,25	
0781 FOX,60	0958 MELTON,62		0941 FINEMAN,62	1038 KANEKO,61	
0986 BLANC,62	1034 FONER,61		106R OORMAN,61	1096 HOGNE55,28	
1038 KANEKO,61	1070 OORMAN,61		1648 ZAPE5OCHNYI,61	1742 CUTHBERT,66	
1107 MORRI5ON,64	1137 KI5ER,62				
1215 HUTCHI5ON,64	1244 MORRISON,53		C O 1 1742 CUTHBERT,66		
1453 STUBER,6S	1530 FIQUET-FAYARD,65				
1919 FIQUET-FAYARO,65			BR2 0708 FRO5T,60		
KR 1 0713 KUPRIYANOV,64	1492 BAKER,6S				
KR 2 0713 KUPRIYANOV,64					

	IONIZATION	EXPERIMENTAL		IONIZATION	THEORETICAL
RELATIVE			NORMALIZED		
H CL	0339 OTVOS,56	0707 FOX,60	HE	1345 LEE,65	1457 VRIENS,65
	1244 MORRISON,53			1484 KUREPA,63	1506 KINGSTON,65
				1554 LYASH,63	1555 VELORE,63
C H4	0066 MOHR,34	0339 OTVOS,56		1557 BAUER,65	1655 PEACH,66
	0524 FROST,57	0539 HAYAKAWA,55		1788 BYRON,66	
	0625 JESSE,25				
			HE *	1060 VRIENS,64	
I2	0526 FROST,59	0708 FROST,60			
			HE 1	0057 BURGESS,63	0417 BURGESS,61
H25	0339 OTVOS,56	1530 FIQUET-FAYARD,65		0735 BURGESS,60	0892 BURGESS,63
				1060 VRIENS,64	1436 BURKE,65
P H3	0339 OTVOS,56			1772 RUOGE,65	
C S2	0339 OTVOS,56	0531 COLLIN,40	LI	0570 GRYZINSKI,63	0873 PEACH,64
				1014 GRYZINSKI,65	1044 DRAWIN,61
H D	0539 HAYAKAWA,55			1146 WU,44	1190 WU,40
				1272 SHELDON,65	1273 PEACH,65
D2	0539 HAYAKAWA,55			1299 MCODWELL,65	1464 MCFARLAND,65
				1502 MCFARLAND,65	1655 PEACH,66
C2H4	0339 OTVOS,56	0539 HAYAKAWA,55			
			LI 1	1044 DRAWIN,61	
C2H6	0339 OTVOS,56				
			LI 2	1044 DRAWIN,61	
HG2	0211 MCFADDEN,46				
			BE	1273 PEACH,65	1502 MCFARLAND,65
C H3CL	0339 OTVOS,56	0524 FROST,57		1655 PEACH,66	
C H3BR	0339 OTVOS,56	0524 FROST,57	N	0453 SEATON,59	1463 ROBINSON,65
				1557 BAUER,65	
C H3I	0339 OTVOS,56	0524 FROST,57			
			O	0453 SEATON,59	1463 ROBINSON,65
I CL	0708 FROST,60			1557 BAUER,65	
			O 4	0143 TREFFTZ,63	1046 MALIK,61
I BR	0708 FROST,60				
			O 5	0143 TREFFTZ,63	0814 VARSAVSKY,63
H2O2	1132 FONER,62				
			NE	0147 NEU,58	0210 INOKUTI,62
C2N2	0339 OTVOS,56			0455 HILL,51	1060 VRIENS,64
				1115 OCHKUR,63	1457 VRIENS,65
H C N	0339 OTVOS,56			1463 ROBINSON,65	1484 KUREPA,63
				1506 KINGSTON,65	1557 BAUER,65
C H3F	0524 FROST,57				
			NE *	1060 VRIENS,64	
U D	1261 MANN,64				
			NE 1	1060 VRIENS,64	
TE2	1578 DE MARIA,65				
			NA	1272 SHELDON,65	1464 MCFARLAND,65
SE2	1578 DE MARIA,65			1476 PRESNYAKOV,65	1502 MCFARLAND,65
				1654 PEACH,66	1655 PEACH,66
S2	1578 DE MARIA,65				
			MG	1502 MCFARLAND,65	1654 PEACH,66
				1655 PEACH,66	
	IONIZATION	THEORETICAL			
			AR	0147 NEU,58	0881 GOLANT,59
NORMALIZED				1014 GRYZINSKI,65	1060 VRIENS,64
				1457 VRIENS,65	1463 ROBINSON,65
H	0061 MASSEY,33	0101 VELDRE,62		1484 KUREPA,63	1506 KINGSTON,65
	0282 YAVORSKY,45	0307 STAUFFER,63		1557 BAUER,65	
	0390 GELTMAN,56	0424 MCCARROLL,57			
	0461 MORANO,59	0533 GELTMAN,63	AR *	1060 VRIENS,64	
	0587 KOGAN,59	0671 STABLER,64			
	0825 KINGSTON,64	0829 PETERKOP,59	K	1272 SHELDON,65	1464 MCFARLAND,65
	0844 VELORE,64	0848 OMIDVAR,64		1502 MCFARLAND,65	
	0852 PETERKOP,59	0863 GRYZINSKI,64			
	0892 BURGESS,63	0913 AKERIB,61	CA	1502 MCFARLAND,65	
	0996 AKERIB,60	1014 GRYZINSKI,65			
	1044 DRAWIN,61	1071 DMIDVAR,64	CA 1	0960 ZIRIN,62	
	1115 OCHKUR,63	1129 PETERKOP,62			
	1165 MICHAEL,63	1262 PRASAD,65	FE 13	0443 SCHWARTZ,59	0455 HILL,51
	1273 PEACH,65	1426 VELDRE,62		1058 KULANDER,63	
	1436 BURKE,65	1457 VRIENS,65			
	1458 OMIDVAR,65	1472 VELDRE,65	FE 14	1849 RUOGE,66	
	1476 PRESNYAKOV,65	1541 OCHKUR,65			
	1544 RUOGE,65	1547 VELORE,63	FE 15	1849 RUOGE,66	
	1548 VELORE,63	1582 VELDRE,65			
	1595 KINGSTON,65	1655 PEACH,66	NI	0140 BURHOP,40	0452 GRYZINSKI,59
	1848 RUDGE,66	1878 VINKALNS,65		0455 HILL,51	1014 GRYZINSKI,65
	1879 VINKALNS,65			1044 DRAWIN,61	1115 OCHKUR,63
H *	0307 STAUFFER,63	0413 MCCREA,60	KR	0147 NEU,58	1457 VRIENS,65
	0430 SWAN,55	0848 OMIDVAR,64		1484 KUREPA,63	1506 KINGSTON,65
	1071 OMIOVAR,64	1436 BURKE,65			
	1458 OMIDVAR,65	1526 OMIOVAR,65	RB	1272 SHELDON,65	1464 MCFARLAND,65
	1595 KINGSTON,65	1656 PRASAD,66		1502 MCFARLAND,65	
	1694 KINGSTON,66	1848 RUOGE,66			
			SR	1502 MCFARLAND,65	
HE	0024 WETZEL,33	0061 MASSEY,33			
	0147 NEU,58	0390 GELTMAN,56	SR 1	0960 ZIRIN,62	
	0452 GRYZINSKI,59	0455 HILL,51			
	0765 ITOH,60	0838 VAN DE WALLE,61	AG	0140 BURHOP,40	0452 GRYZINSKI,59
	0863 GRYZINSKI,64	0999 WETZEL,36		0455 HILL,51	0999 WETZEL,36
	1014 GRYZINSKI,65	1044 DRAWIN,61		1014 GRYZINSKI,65	
	1060 VRIENS,64	1115 OCHKUR,63			
	1273 PEACH,65	1302 SLOAN,65	SN 49	0057 BURGESS,63	
			XE	0147 NEU,58	1457 VRIENS,65
				1484 KUREPA,63	1506 KINGSTON,65

IONIZATION THEOPETICAL

NOPMALIZEO

C5	II65 MICHAEL,63	1464 MCFAPLAND,65	
	1502 MCFAPLAND,65		
C5 +	1272 SMELOON,65		
BA	1502 MCFAPLAND,65		
MG	0I40 BUPHOR,40	0455 MILL,51	
	0642 PRASAO,63	0783 YAVORSKY,47	
	1060 VRIENS,64	1II5 OCHKUR,63	
	1557 BAUEP,65		
MG +	I060 VRIENS,64		
TL	1502 MCFAPLAND,65		
NO	1558 BAUEP,65		
M2	0147 NEU,58	0452 GRYZINSKI,59	
	0455 MILL,51	0570 GRYZINSKI,63	
	0863 GRYZINSKI,64	1014 GRYZINSKI,65	
	1044 DRAWIN,6I	11I5 OCHKUR,63	
	I457 VRIENS,65	1557 BAUEP,65	
	1558 BAUER,65		
O2	0642 PRASAO,63	1457 VRIENS,65	
	1557 BAUER,65	I558 BAUER,65	
N2	0147 NEU,58	0642 PRASAO,63	
	1457 VRIENS,65	1557 BAUEP,65	
	1558 BAUEP,65		
N O	1557 BAUER,65		
C2M2	1557 BAUEP,65	1558 BAUEP,65	
C O	0642 PRASAD,63	1557 BAUEP,65	
	1558 BAUER,65		
C M4	02I0 INOKUTI,62		

RELATIVE

H	1144 DE LA PIRELLE,49	
HE	1144 DE LA RIPELLE,49	1673 MITTLEMAN,66
NE	1144 DE LA RIRELLE,49	
NA	1144 DE LA PIPELLE,49	
AR	1I44 DE LA RIPELLE,49	
KP	1I44 DE LA PIPELLE,49	
AG	1144 DE LA PIRELLE,49	
XE	1144 DE LA RIPELLE,49	
M2	0005 KRAUSS,57	
O2	0005 KRAUSS,57	

DISSOCIATION EXPEPIMENTAL

NORMALIZEO

M2	0260 ENGELMARDT,63	0354 CORPIGAN,58	
	1566 CORRIGAN,65		
M2 1	150I DUNN,65	1503 DUNN,65	
O2	0376 LASSETTRE,54	0377 SILVERMAN,57	
	1075 SILVERMAN,64	1460 RARP,65	
N2	0992 SHERIDAN,6I		
M2O	0382 LASSETTRE,58		
N O	I460 RAPR,65		
N2O	1460 PAPR,65		
C O2	1460 RAPP,65		
C O	1460 RAPR,65		
O2	0260 ENGELMARDT,63		

RELATIVE

DISSOCIATION EXPERIMENTAL

PELATIVE

O2	0167 RANDLRH,58	0526 FROST,59	
	0778 ODRMAN,60		
H2O	0924 MANN,40		
N H3	0924 MANN,40		
N O	0481 CLOUTIER,59		
CL2	0708 FROST,60		
C O	0778 ODRMAN,60	0941 FINEMAN,62	
BR2	0708 FROST,60		
I2	0526 FROST,59	0708 FROST,60	
	0778 OOPMAN,60		
C CL4	0950 MARRIOTT,54	1231 CRAGGS,52	

DISSOCIATION THEORETICAL

NORMALIZEO

M2	0194 MASSEY,32	0695 EDELSTEIN,58
	1862 KHARE,66	
M2 1	0370 IVASH,58	0394 KERNER,53
	I465 REEK,65	
H2O	0294 NIIRA,49	

RELATIVE

M2	0033 SASAKI,35	

FREE-FREE EMISSION THEORETICAL

NORMALIZED

M	1414 LANE,64	
M 1	1414 LANE,64	
N	0256 DEVORE,64	0939 BREENE,61
N 1	0256 DEVORE,64	
O	0574 BREENE,63	

DISSOCIATIVE IONIZATION EXPERIMENTAL

NORMALIZED

M2	0041 NEWMALL,42	1105 ENGLANDER-GOLDEN,64
	1410 RARP,65	I858 ADAMCZYK,66
O2	0946 GLICK,64	II05 ENGLANDER-GOLDEN,64
	1410 PAPP,65	
N2	0I53 COOK,62	0946 GLICK,64
	II05 ENGLANDER-GOLDEN,64	1410 PAPR,65
H2O	1782 SCHUTTEN,66	
N O	0946 GLICK,64	1I05 ENGLANDER-GOLDEN,64
	1410 RAPP,65	
N2O	1105 ENGLANDER-GOLDEN,64	1410 RAPP,65
C O2	1I05 ENGLANDER-GOLDEN,64	1410 RAPP,65
C O	1105 ENGLANDER-GOLDEN,64	1410 RAPP,65
C M4	0946 GLICK,64	I105 ENGLANDER-GOLDEN,64
	1410 RAPP,65	1858 ADAMCZYK,66
O2	1105 ENGLANDER-GOLDEN,64	

PELATIVE

DISSOCIATIVE IONIZATION EXPERIMENTAL

RELATIVE

H2	0007 SASAKI,3S	0009 BLEAKNEY,30
	0041 NEWHALL,42	0107 HAGSTRUM,S1
	0130 SASAKI,41	0135 SASAKI,3S
	0214 HAGSTRUM,41	02SS SMYTH,24
	0364 OUNN,63	0451 STEVENSON,60
	04S6 BAUER,47	046S SCHAEFFER,S0
	0660 KALLMANN,27	1402 LOZIER,30
O2	0107 HAGSTRUM,S1	0214 HAGSTRUM,41
	02SS SMYTH,24	034I FROST,58
	0526 FROST,S9	0778 OORMAN,60
N2	00I7 VAUGHAN,31	0107 HAGSTRUM,S1
	0214 HAGSTRUM,4I	0660 KALLMANN,27
	0667 TATE,32	08S4 CLARKE,54
	0953 STEWART,SS	1S43 BRIGLIA,64
H2O	0298 SJOGREN,63	0483 COTTIN,S9
	0924 MANN,40	
N H3	0924 MANN,40	
N O	0107 HAGSTRUM,SI	0214 HAGSTRUM,4I
	0481 CLOUTIER,S9	1S18 HANSON,37
	169I DORMAN,66	
CL2	0S26 FROST,S9	0708 FROST,60
N2O	1067 CURRAN,61	I691 OORMAN,66
C O	0017 VAUGHAN,31	0107 HAGSTRUM,S1
	0214 HAGSTRUM,4I	0667 TATE,32
	0778 OORMAN,60	094I FINEMAN,62
	1096 HOGNESS,28	1742 CUTHBERT,66
BR2	0708 FROST,60	
H CL	1S18 HANSON,37	
C H4	0527 GEEHK,S·	0S39 HAYAKAWA,SS
	1691 DORMAN,66	
I2	0S26 FROST,S9	0708 FROST,60
	0778 OORMAN,60	
C CL4	0133 FOX,61	09S0 MARRIOTT,54
	1231 CRAGGS,S2	
O2	04S6 BAUER,47	046S SCHAEFFER,S0
C2H4	0S39 HAYAKAWA,SS	
S F6	0133 FOX,61	
B CL3	1118 MARRIOTT,S7	
H2O2	1I32 FONER,62	
C2N2	1224 STEVENSON,50	
H C N	1224 STEVENSON,S0	
T	046S SCHAEFFER,S0	

DISSOCIATIVE IONIZATION THEORETICAL

RELATIVE

H2	0342 STEVENSON,47	0364 OUNN,63
	1144 DE LA RIPELLE,49	
O2	0342 STEVENSON,47	

RADIATIVE ATTACHMENT EXPERIMENTAL

NORMALIZED

H	0090 BRANSCOMB,62	I008 BRANSCOMB,62
O	0038 BRANSCOMB,S8	0090 BRANSCOMB,62
	I008 BRANSCOMB,62	
HG	1279 HEY,30	
O2	0090 BRANSCOMB,62	1008 BRANSCOMB,62

RADIATIVE ATTACHMENT EXPERIMENTAL

RELATIVE

F	1774 POPP,6S	
I	0839 STEINER,64	

RADIATIVE ATTACHMENT THEORETICAL

NORMALIZED

H	1166 JEN,33	1300 MASSEY,36
	1316 LOCHTE-HOLTGREVEN,S8	
O	0247 YAMANOUCHI,40	114I BATES,43
	1180 MASSEY,43	1197 BRANSCOMB,S7
NA	0297 HUANG,4S	1300 MASSEY,36
CL	1300 MASSEY,36	
HG	1300 MASSEY,36	

DISSOCIATIVE RECOMBINATION EXPERIMENTAL

NORMALIZED

O2	1	1344 BIONDI,64	
N2	1	0698 FAIRE,S8	0703 BIALECKE,S8
		1344 BIONOI,64	
N H3	1	0887 COURT,64	
N O	1	0920 OOERING,62	
NE2	1	1344 BIONOI,64	
AR2	1	1344 BIONOI,64	
KR2	1	02S4 RICHARDSON,S2	
CS2	1	0177 HAMMER,63	
N4	1	1344 BIONOI,64	

DISSOCIATIVE RECOMBINATION THEORETICAL

NORMALIZED

H2	1	0368 BAUER,S6	166S WILKINS,66
O2	1	0189 NISBET,63	
N O	1	0IA9 NISBET,63	0S79 SQUIRES,61
		1482 GIBBONS,63	

RADIATIVE CAPTURE EXPERIMENTAL

NORMALIZED

H	1	0241 FOWLER,S9	0346 CRAGGS,47
AR	1	03SS KENTY,28	0969 MIES,61
KR	1	0969 MIES,61	
XE	1	0969 MIES,61	
CS	1	12I3 MOHLER,29	
HE2	1	0802 JOHNSON,S0	

RELATIVE

AR	1	0969 MIES,61
KR	1	0969 MIES,61
XE	1	0969 MIES,61

RADIATIVE CAPTURE THEORETICAL

NORMALIZED

H	1	0146 BATES,62	0243 BATES,39
		0358 ZANSTRA,46	0444 BATES,62
		1010 STUECKELBERG,30	1414 LANE,64
HE	1	0715 BURGESS,60	0960 ZIRIN,62
O	1	0243 BATES,39	0934 BREENE,61
		1180 MASSEY,43	
MG	9	0455 HILL,51	
CA	1	0960 ZIRIN,62	
FE	13	0455 HILL,51	
SR	1	0960 ZIRIN,62	
CS	1	1805 NORCROSS,66	

RELATIVE

H	1	0245 CILLIE,32

ROTATIONAL EXCITATION EXPERIMENTAL

NORMALIZED

H2	0260 ENGELHAROT,63	1043 FROST,62
N2	0181 FROST,62	0218 ENGELHAROT,64
	0316 ANDERSON,56	
O2	0260 ENGELHAROT,63	

RELATIVE

H2	0042 BENNETT,42

ROTATIONAL EXCITATION THEORETICAL

NORMALIZED

H2	0392 GERJUOY,55	0434 CARSON,54
	0702 DALGARNO,65	1093 TAKAYANAGI,64
	1452 TAKAYANAGI,65	1573 SAMPSON,65
	1666 GELTMAN,66	1816 OKSYUK,66
O2	1477 TAKAYANAGI,65	1589 TAKAYANAGI,65
	1666 GELTMAN,66	1676 SAMPSON,66
	1816 OKSYUK,66	
N2	0401 GERJUOY,55	0402 KERNER,53
	1082 MJOLSNES,64	1341 DALGARNO,63
	1452 TAKAYANAGI,65	1573 SAMPSON,65
	1666 GELTMAN,66	1816 OKSYUK,66
	1852 CHEN,66	
H2O	0385 ALTSHULER,57	
N H3	0385 ALTSHULER,57	
C O	0724 TAKAYANAGI,64	

VIBRATIONAL EXCITATION EXPERIMENTAL

NORMALIZED

H2	0260 ENGELHAROT,63	0984 SCHULZ,64
	1043 FROST,62	
O2	1310 SCHULZ,62	
N2	0218 ENGELHAROT,64	0684 HAAS,57
	0984 SCHULZ,64	
N2O	1478 GEIGER,65	
C O2	1478 GEIGER,65	
C O	0984 SCHULZ,64	

VIBRATIONAL EXCITATION EXPERIMENTAL

NORMALIZED

D2	0260 ENGELHARDT,63	
C2H4	1478 GEIGER,65	

RELATIVE

H2	0686 RAMIEN,31	
N2	0098 HARRIES,27	0299 SCHULZ,63
	0328 SCHULZ,59	1021 SCHULZ,62
N2O	0932 SCHULZ,61	
C O2	1065 BOERSCH,64	
C O	0098 HARRIES,27	0328 SCHULZ,59

VIBRATIONAL EXCITATION THEORETICAL

NORMALIZED

H2	0043 WU,67	0184 MASSEY,35
	0434 CARSON,54	0724 TAKAYANAGI,64
	0962 CHEN,62	1488 TAKAYANAGI,65
	1564 BREIG,65	
N2	0402 KERNER,53	0895 CHEN,64
	0964 CHEN,64	1564 BREIG,65
	1852 CHEN,66	
N2O	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	0957 KHVOSTENKO,58
	0988 RAPP,64	1372 RAPP,64
	1451 RAPP,65	1460 RAPP,65
O2	0131 CHANIN,59	0134 BUCHOAML,41
	0337 TOZER,58	0766 BUCHELNIKOVA,59
	0853 CRAGGS,57	0861 PRASAD,61
	0938 ASUNOI,63	0943 THOMPSON,59
	0988 RAPP,64	1105 ENGLANDER-GOLDEN,64
	1289 SCHULZ,62	1460 RAPP,65
	1565 CHRISTOPHOROU,65	
H2O	0766 BUCHELNIKOVA,59	1016 HURST,61
N O	0988 RAPP,64	1105 ENGLANDER-GOLDEN,64
	1460 RAPP,65	
N2O	0988 RAPP,64	1105 ENGLANDER-GOLDEN,64
	1460 RAPP,65	
C O2	0865 CRAGGS,60	0938 ASUNOI,63
	0988 RAPP,64	1105 ENGLANDER-GOLDEN,64
	1289 SCHULZ,62	1460 RAPP,65
C O	0867 CRAGGS,58	0938 ASUNDI,63
	0988 RAPP,64	1105 ENGLANDER-GOLDEN,64
	1289 SCHULZ,62	1460 RAPP,65
H CL	0766 BUCHELNIKOVA,59	
I2	0134 BUCHOAML,41	0541 BIONDI,58
	0654 KEEFFE,62	1064 BIONDI,58
H O	1451 RAPP,65	1460 RAPP,65
O2	1372 RAPP,64	1451 RAPP,65
	1460 RAPP,65	
S F6	0858 MICKAM,56	1460 RAPP,65

DISSOCIATIVE ATTACHMENT EXPERIMENTAL

NORMALIZED

N 02	0776 FOX,60		
H 8R	0766 BUCHELNIKOVA,59		
58 CL3	1270 GROH,63		

RELATIVE

H2	0232 BRASEFIELD,29	1592 SCHULZ,65	
02	0018 TATE,32	0107 HAGSTRUM,51	
	0166 MUSCHLITZ,57	0167 RANDOLPH,58	
	0214 HAGSTRUM,41	0280 FITE,63	
	0341 FROST,58	0526 FROST,59	
	0699 FROST,58	1525 FITE,65	
02 *	0280 FITE,63		
H2O	0018 TATE,32	0298 SJOGREN,63	
	0324 SCHULZ,59	0483 COTTIN,59	
	0558 SCHULZ,60	0924 MANN,40	
	0957 KHVOSTENKO,58	1117 MUSCHLITZ,56	
	1709 TREPKA,63		
N H3	0924 MANN,40		
N O	0018 TATE,32	0107 HAGSTRUM,51	
	0214 HAGSTRUM,41	0481 CLOUTIER,59	
	1263 FROST,58	1518 HANSON,37	
C2H2	0018 TATE,32		
CL2	0526 FROST,59	0708 FROST,60	
N2O	0347 KNOX,58	0932 SCHULZ,61	
	1067 CURRAN,61	1116 RUDOLPH,59	
C 02	0847 ASUNOI,64		
C O	0017 VAUGHAN,31	0018 TATE,32	
	0107 HAGSTRUM,51	0214 HAGSTRUM,41	
	0481 CLOUTIER,59	0667 TATE,32	
	0941 FINEMAN,62		
8R2	0708 FROST,60		
H CL	0699 FROST,58	1119 FOX,57	
	1518 HANSON,37		
C H4	1709 TREPKA,63		
I2	0467 FOX,58	0708 FROST,60	
	1120 FROST,58		
P H3	1163 EBINGHAUS,64		
C CL4	0133 FOX,61	0950 MARRIOTT,54	
	1231 CRAGGS,52		
C2H4	1709 TREPKA,63		
H F	0699 FROST,58		
C2H6	1709 TREPKA,63		
S F6	0133 FOX,61	0481 CLOUTIER,59	
	0699 FROST,58	0971 CURRAN,61	
	1239 AHEARN,53		
H I	0699 FROST,58		
8 CL3	1118 MARRIOTT,57		
H 8R	0699 FROST,58		
C2N2	1230 MCOOWELL,52	1231 CRAGGS,52	
C F4	1231 CRAGGS,52		
03	1066 CURRAN,61		
AS H3	1163 EBINGHAUS,64		
51 H4	1163 EBINGHAUS,64		

DISSOCIATIVE ATTACHMENT THEORETICAL

NORMALIZED

H2	0207 CHEN,63	

TOTAL SCATTERING EXPERIMENTAL

NORMALIZED

H	0305 MAECKER,55	0322 BRACKMANN,58
	0454 ORAWIN,56	0493 KOLESNIKOV,62
	0502 WIESE,63	0538 HAMMER,56
	1018 NEYNABER,61	
HE	0001 BROOE,25	0010 NORMAND,30
	0072 MAYER,21	0073 RAMSAUER,21
	0074 RAMSAUER,21	0082 BRUCHE,27
	0086 RAMSAUER,29	0094 RAMSAUER,32
	0116 FUCHTBAUER,34	0160 GREEN,30
	0161 PALMER,31	0174 KOLLATH,28
	0186 RAMSAUER,23	0192 FRANCIS,47
	0201 TOWNSEND,23	0233 DOUGAL,58
	0249 CHEN,61	0306 ANDERSON,55
	0312 PHELPS,51	0314 GOULD,54
	0317 ANDERSON,56	0454 ORAWIN,56
	0530 PACK,61	0594 HIRSHFIELD,58
	0637 LANGMUIR,28	0819 BOWE,60
	0869 GOLDEN,65	0888 PHELPS,60
	0995 GOODRICH,37	1041 BULEWICZ,62
	1062 FROST,64	1348 GOLDAN,65
	1473 HARRIS,63	1489 CROMPTON,65
	1591 KOZLOV,65	1786 KOZLOV,65
HE *	0868 NEYNABER,64	
HE 1	0233 DOUGAL,58	0306 ANDERSON,55
LI	0016 PEREL,62	
C	0305 MAECKER,55	
N	0026 NEYNABER,63	0305 MAECKER,55
O	0305 MAECKER,55	0325 LIN,59
	1013 NEYNABER,61	1490 SUNSHINE,65
	1577 OA18ER,65	
F	0559 MAECKER,56	
NE	0010 NORMAND,30	0074 RAMSAUER,21
	0082 BRUCHE,27	0084 BRUCHE,29
	0086 RAMSAUER,29	0094 RAMSAUER,32
	0116 FUCHTBAUER,34	0174 KOLLATH,28
	0186 RAMSAUER,23	0312 PHELPS,51
	0637 LANGMUIR,28	0819 BOWE,60
	1019 CHEN,64	1041 BULEWICZ,62
	1400 GILLARDINI,57	1473 HARRIS,63
NA	0006 BROOE,29	0016 PEREL,62
AR	0001 BROOE,25	0010 NORMAND,30
	0072 MAYER,21	0073 RAMSAUER,21
	0074 RAMSAUER,21	0075 RAMSAUER,23
	0076 RUSCH,26	0082 BRUCHE,27
	0086 RAMSAUER,29	0094 RAMSAUER,32
	0095 RAMSAUER,32	0116 FUCHTBAUER,34
	0160 GREEN,30	0174 KOLLATH,28
	0175 GAERTNER,31	0186 RAMSAUER,23
	0197 TOWNSEND,22	0199 TOWNSEND,22
	0292 ENGELHAROT,64	0312 PHELPS,51
	0454 ORAWIN,56	0530 PACK,61
	0538 HAMMER,56	0637 LANGMUIR,28
	0819 BOWE,60	0846 ABERTH,64
	1007 BROOE,32	1041 BULEWICZ,62
	1062 FROST,64	1473 HARRIS,63
	1577 OA18ER,65	1591 KOZLOV,65
	1752 WAHLIN,31	1786 KOZLOV,65
	1891 ABERTH,63	1962 GOLDEN,66
K	0006 BROOE,29	0016 PEREL,62
FE	0305 MAECKER,55	
ZN	0008 BROOE,30	0046 BROOE,25
KR	0075 RAMSAUER,23	0086 RAMSAUER,29
	0095 RAMSAUER,32	0118 FUCHTBAUER,35
	0174 KOLLATH,28	0186 RAMSAUER,23
	0312 PHELPS,51	0439 PACK,62
	0819 ROWE,60	1062 FROST,64
RB	0006 BROOE,29	
CO	0008 BROOE,30	0046 BROOE,25
XE	0075 RAMSAUER,23	0086 RAMSAUER,29
	0095 RAMSAUER,32	0117 FUCHTBAUER,35
	0186 RAMSAUER,23	0312 PHELPS,51
	0439 PACK,62	0819 BOWE,60
	1062 FROST,64	
C5	0006 BROOE,29	0016 PEREL,62
	0132 MORGULIS,63	0149 MIRLIN,62
	0182 CHEN,62	0764 BOECKNER,33
	0768 MULLANEY,61	0769 FLAVIN,63
	0785 ROEHLING,63	0850 FLAVIN,63
	0872 MEYERAND,64	1473 HARRIS,63

	TOTAL SCATTERING	EXPERIMENTAL
NORMALIZED		
C5 1	0764 BOECKNER,33	
HG	0021 TATE,32	0046 BROOE,25
	0047 BROOE,29	0069 ARNOT,35
	0117 FUCHTBAUER,35	0157 JONES,29
	0160 GREEN,30	0161 PALMER,31
	0172 BEUTHE,27	0598 MCCUTCHEN,58
	0637 LANGMUIR,28	0675 SIMONS,38
	1746 MAXWELL,26	
TL	0013 BROOE,31	
H2	0001 BROOE,25	0010 NORMAND,30
	0072 MAYER,21	0073 RAMSAUER,21
	0077 BRUCHE,26	0079 BRUCHE,27
	0087 RAMSAUER,30	0093 RAMSAUER,30
	0094 RAMSAUER,32	0160 GREEN,30
	0174 KOLLATH,28	0175 GAERTNER,31
	0181 FROST,62	0186 RAMSAUER,23
	0188 BERNSTEIN,62	0195 TOWNSEND,21
	0199 TOWNSEND,22	0240 VARNERIN,51
	0312 PHELPS,51	0352 CROMPTON,52
	0360 BEKEFI,58	0530 PACK,61
	0538 HAMMER,56	0637 LANGMUIR,28
	0685 FORESTER,61	1043 FROST,62
	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 ENGELHARDT,64
	0312 PHELPS,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	
H2O	0084 BRUCHE,29	0439 PACK,62
	0687 BAYES,62	1450 TAKEDA,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,38
N2O	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	
I2	0677 HEALEY,38	
C CL4	0991 HOLST,31	
O2	0188 BERNSTEIN,62	0439 PACK,62
	1375 GOLDEN,65	1428 HALL,55
	1787 GOLDEN,66	

	TOTAL SCATTERING	EXPERIMENTAL
NORMALIZED		
C2H4	0085 BRUCHE,29	0203 BANNON,28
	0685 FORESTER,61	
C2H6	0089 BRUCHE,30	
S O2	0687 BAYES,62	
C H3CL	0991 HOLST,31	
H C N	0687 BAYES,62	
RELATIVE		
HE	0469 HUGHES,35	
NE	0126 RUSCH,25	
AR	0126 RUSCH,25	0171 ZACHMANN,27
K	0016 PEREL,62	0329 RUBIN,60
KR	0126 RUSCH,25	
CD	0180 MINKOWSKI,23	
HG	0163 PEARSON,31	0180 MINKOWSKI,23
	0486 KESSLER,65	
H2	0126 RUSCH,25	0170 BAERWALD,25
	0171 ZACHMANN,27	
O2	1013 NEYNABER,61	
C H4	0209 GLOCKLER,24	

	TOTAL SCATTERING	THEORETICAL
NORMALIZED		
HE	0060 OMALLEY,63	
LI	0810 DAMBURG,60	0990 KARULE,64
NE	0060 OMALLEY,63	
NA	0810 DAMBURG,60	
AR	0060 OMALLEY,63	0452 GRYZINSKI,59
K	0810 DAMBURG,60	
KR	0060 OMALLEY,63	
XE	0060 OMALLEY,63	
CS	0810 DAMBURG,60	1023 SALMONA,61
	1282 ROBINSON,62	

TOTAL ELASTIC SCATTERING EXPERIMENTAL

NORMALIZED

HE 1196 MARDER,56

NE 1196 MARDER,56

AR 1196 MARDER,56

TOTAL ELASTIC SCATTERING THEORETICAL

NORMALIZED

H	0083 BURKE,63	0148 DAMBURG,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 MOISEIWITSCH,58
	1422 MCEACHRAN,65	1443 HAHN,64
	1494 ALLISON,61	1495 BRANSOEN,62
	1499 HAHN,65	1500 KLEINMAN,65
	1571 STONE,66	1580 ARMSTEAD,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 MOISEIWITSCH,59	0906 MOUSSA,59
HE	0544 MOISEIWITSCH,59	

ELECTRONIC EXCITATION THEORETICAL

NORMALIZED

H	0083 BURKE,63	0148 DAMBURG,63
	0859 SMITH,60	1257 MOISEIWITSCH,65
H *	0859 SMITH,60	

ELECTRON DETACHMENT THEORETICAL

NORMALIZED

H - 0576 RUDGE,64

IONIZATION THEORETICAL

NORMALIZED

H 0645 CHESHIRE,64

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