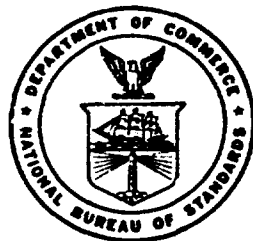


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**Bibliography of Low Energy Electron
Collision Cross Section Data**



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

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**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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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		THEORETICAL	DIFFERENTIAL ELASTIC SCATTERING EXPERIMENTAL		
NORMALIZED			NORMALIZED		
D	0487 HAMBERLIN,57 0812 ROBINSON,61 0928 MITRA,60 1545 MYERS-COOPER,65 1832 SEATON,52	0597 BYATT,59 0821 BAUER,64 1057 COOPER,62 1650 LENANDER,66	M	1031 GILBODY,61	
F	0572 MOZONI,53	1057 COOPER,62	ME	0165 HUGHES,32 0637 LANGMUIR,28 1277 HUGHES,36	0330 WESTIN,49 0495 GOODWICH,37
NE	0060 O'MALLEY,63 0185 MOLTSHARK,28 0409 TIETZ,59 0471 MOISEWITSCH,61 0821 BAUER,64 1059 BIRNBAUM,64	0166 ALLIS,31 0267 BULLARD,30 0449 KIVEL,59 0495 MOISEWITSCH,63 0944 FREMKEL,62	ME	0187 BERNAN,49 0637 LANGMUIR,28	0330 WESTIN,49
NA	0106 ALLIS,31 0519 DAMBURG,60 0930 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 1409 KARULE,65 1498 GARRETT,65 1523 GARRETT,64 1587 SALMONA,65 1835 KARULE,65	M0	0021 TATE,32 1535 KESSLER,64	0637 LANGMUIR,28
MA	0422 SEATON,57		M2	0637 LANGMUIR,28	
CL	0267 BULLARD,30	1057 COOPER,62	M2	0637 LANGMUIR,28	
AR	0060 O'MALLEY,63 0106 ALLIS,31 0307 BARBIERE,51 0458 KIVEL,59 0495 MOISEWITSCH,63 0818 MARTYENKO,63 0473 KARLE,64 1579 BRACKETT,63	0099 MOLTSHARK,29 1185 MOLTSHARK,28 0449 KIVEL,59 0471 MOISEWITSCH,61 0657 ZWICKY,23 0821 BAUER,64 1059 BIRNBAUM,64 1650 LENANDER,66	M	0230 HARNWELL,29 1593 KLEINPOPPEN,65	1512 MCGOWAN,65
K	0810 DAMBURG,60 1405 KARULE,65 1523 GARRETT,64 1864 KARULE,65 2002 PETERKOP,65	0959 GARRETT,64 1491 KARULE,65 1542 KARULE,65 1865 KARULE,65	ME	0003 DYMOND,27 0052 BULLARD,31 0158 HA. NWEILL,29 0253 DYMOND,29 1470 EHRHARDT,65	0011 MCHILLEN,30 0120 POULTNEY,36 0193 WERNER,31 1001 HUGHES,34 1529 EHRHARDT,65
CA	0557 KAMENETSKII,60	1448 BELT,64	NE	0052 ARNOT,31 0059 MOHR,32 0158 HARNWELL,29	0053 BULLARD,31 0137 NICOLL,33 1004 HUGHES,33
ZN	0106 ALLIS,31		AR	0011 MCHILLEN,30 0022 WEBB,35 0052 ARNOT,31 0129 RAMSAUER,31	0020 HUGHES,32 0049 BULLARD,31 0059 MOHR,32 0037 PORTEUS,64
KR	0060 O'MALLEY,63 0449 KIVEL,59 0495 MOISEWITSCH,63 0821 BAUER,64	0104 MOLTSHARK,30 0471 MOISEWITSCH,61 0818 MARTYENKO,63	K	0033 MCHILLEN,34	0329 RUGIN,60
XE	0060 O'MALLEY,63 0818 MARTYENKO,63	0449 KIVEL,59	ZN	0064 CHILDS,33	
CS	0036 GARRETT,63 0810 DAMBURG,60 1409 KARULE,65 1523 GARRETT,64 1864 KARULE,65 1897 COON,65	0359 STONE,63 1303 CROON,65 1491 KARULE,65 1542 KARULE,65 1865 KARULE,65 2002 PETERKOP,65	KR	0022 WEBB,35	0052 ARNOT,31
MG	0557 KAMENETSKII,60 0592 GAJEVSKI,58	0542 TIETZ,59	CG	0062 CHILDS,33	
TL	0106 ALLIS,31		XE	0052 ARNOT,31	
U	0572 MOZONI,53 0875 KARLE,64	0592 GAJEVSKI,58	AU	1111 REICHERT,63	
M2	0034 FISK,36 0251 HASSEY,30 0421 CARTER,58 0434 CARSON,54 1816 OKSYUK,66	0054 HASSEY,32 0411 NAGAHARA,54 0428 HASSEY,56 1452 TAKAYANAGI,65	MG	0050 ARNOT,31 0144 ARNOT,32 0191 ARNOT,29 0245 ARNOT,33 1002 JORDAN,34 1427 DEICHSFL,65 1475 ROSE,30	0137 NICOLL,33 0164 BAGGE,33 0219 JORDAN,33 0486 KESSLER,65 1425 DEICHSFL,61 1431 STIFOL,65 1596 DEICHSFL,66
O2	0034 FISK,36 1016 OKSYUK,66	1666 BELTMAN,66	M2	0011 MCHILLEN,30 0031 WEBB,35 0053 BULLARD,31 0124 RAMSAUER,31 0230 HARNWELL,29	0023 HUGHES,32 0052 ARNOT,31 0059 MOHR,32 0158 HARNWELL,29 1303 BEIGER,64
N2	0034 FISK,36 1452 TAKAYANAGI,65 1452 CMEN,66	0895 CMEN,64 1016 OKSYUK,66	M2	0052 ARNOT,31 0059 MOHR,32 0158 HARNWELL,29	0053 BULLARD,31 0137 NICOLL,33
M20	0385 ALTSHULER,57		C2M2	1286 CHILDS,34	
M3	0385 ALTSHULER,57		C O2	0059 MOHR,32	0120 RAMSAUER,31
C M4	0070 BUCKINGHAM,41		C O	0052 ARNOT,31	
			M2	0365 ARNOT,34	
			C M4	0052 ARNOT,31 0059 MOHR,32	0053 BULLARD,31 0137 NICOLL,33
			M2S	0059 MOHR,32	
			P M3	0059 MOHR,32	
			C CL4	0065 ARNOT,34	1287 HILL,36
			C2M4	1286 CHILDS,34	
			C2M6	1286 CHILDS,34	

DIFFERENTIAL ELASTIC SCATTERING EXPERIMENTAL

RELATIVE

C F4 1287 HILL.36

DIFFERENTIAL ELASTIC SCATTERING THEORETICAL

NORMALIZED

M	0025 MORSE.33	0028 CORINALDEST.63
	0083 BURKE.63	0127 MURPHY.49
	0151 BUNKE.62	0234 MASSEY.34
	0244 GELTMAN.60	0301 O'NEILL.46
	0410 BRANSDEN.53	0490 SCHWARTZ.64
	0511 BOROMITZ.54	0544 MOISEWITSCH.59
	0567 WU.60	0855 MCEACHRAN.60
	0879 MALIK.6r	0899 JOHN.62
	0903 PU.63	0918 BURKE.62
	0935 OCHKUR.58	0967 GREENBERG.57
	1022 SMITH.62	1025 KINGSTON.61
	1030 TEMKIN.41	1130 KLEIN.55
	1461 SCOTT.65	1524 TAYLOR.65

H • 0935 OCHKUR.58

ME	0025 MORSE.33	0136 MOTT.33
	0221 FEENBERG.32	0258 WOLCS.61
	0383 SACHL.58	0462 MUCINAGA.60
	0544 MOISEWITSCH.59	0590 KOLOS.60
	0976 LABAHN.64	1048 MUKHERJEE.61
	1056 INOKUTI.61	1203 KAR.37
	1308 GHOSH.35	1407 KWARE.55
	1408 KWARE.65	1493 KWARE.64
	1817 ORIENT.66	

ME • 0514 BHATTA, ARYYA.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 SEATON.58

S 1176 TIETZ.60

CL 0745 TIETZ.60

AR 0409 TIETZ.59 0821 BAUER.64

AR 1579 BRACKETT.63

K 0821 BAUER.64 1469 KARULE.65

K 1864 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 1424 BUNYAN.65

BI 1646 SCHONFELDER.66

U 0572 HOERNI.53

M2 0251 MASSEY.33 1311 ROSCOE.38

M2 1408 KWARE.65

BR2 1152 ARNOT.34 1191 SHAW.40

RELATIVE

M 0068 MASSEY.34

DIFFERENTIAL ELASTIC SCATTERING THEORETICAL

RELATIVE

ME	0051 MASSEY.31	0854 MASSEY.32
	0068 MASSEY.34	0302 FANO.61
	0639 MORSE.32	

ME 1 0440 BRANSDEN.53

O 0048 MOTT.30

F 1287 HILL.36

CL 1287 HILL.36

AR 0655 HENNEBERG.33

KR 0113 VOSS.33 0655 HENNEBERG.33

KR 1294 HUGHES.35

HG 0653 HENNEBERG.32 0655 HENNEBERG.33

M2 0054 MASSEY.32 0194 MASSEY.32

M2 0863 GRYZINSKI.64

M2 0138 MASSEY.33 0194 MASSEY.32

C2M2 0726 HUGHES.33

C M4 0070 BUCKINGHAM.61 0726 HUGHES.33

C CL4 1287 HILL.36

C2M4 0726 HUGHES.33

C F4 1287 HILL.36

ELECTRONIC EXCITATION EXPERIMENTAL

NORMALIZED

M	0321 FITE.58	0326 FITE.59
	0327 LICHTEN.59	0332 STEBBINGS.60
	0936 SCHULTZ.60	1486 SMITH.65

ME 0056 LEES.32 0123 DORRESTEIN.42

ME 0124 DORRESTEIN.42 0125 WOUDEMBOER.41

ME 0192 FRANCIS.47 0318 SCHULZ.57

ME 0336 CORRIGAN.58 0338 STEWART.59

ME 0373 LASSETRE.53 0379 SILVERMAN.57

ME 0464 FRISH.58 0477 YAKHONTOVA.60

ME 3495 LIN.62 0554 HUGHES.63

ME 0400 PHELPS.58 0637 LANGMUIR.28

ME 0742 ST JOHN.60 0787 HUGHES.63

ME 0799 SILVERMAN.64 0800 LASSETRE.64

ME 0871 FLEMING.63 0886 GABRIEL.60

ME 1049 ST JOHN.64 1088 FLEMING.64

ME 1265 JONES.48 1323 YAKHONTOVA.59

ME 1455 MILLER.64 1528 MOLT.65

ME 1583 ZAPESOCHNYI.65 1677 MOLT.66

ME 1760 LASHMORE-DAVIES.65 1892 MOLT.65

ME 1895 ZAPESOCHNYI.65

ME • 0759 RORBEN.63

ME 1 1803 DANCE.66

LI 0773 FELDMAN.63 1072 HUGHES.64

ME 0122 MILATZ.40 0123 DORRESTEIN.42

ME 0124 DORRESTEIN.42 0187 BERNMAN.49

ME 0205 MADEISHI.63 0288 HERRMANN.36

ME 0637 LANGMUIR.28 1094 TIEN.64

ME 1330 MADEISHI.65 1571 FRISH.63

ME 1584 REVALD.65

NA 0141 LOVERIDGE.31 0290 CHRISTOPH.35

NA 0414 VOLKOVA.61 1517 ZAPESOCHNYI.65

NA 1683 ZAPESOCHNYI.65

AR 0187 BERMAN.49 0288 HERRMANN.36

AR 0637 LANGMUIR.28 0755 VOLKOVA.59

AR 1823 ZAPESOCHNYI.66

K 0141 LOVERIDGE.31 0275 FABRIKANT.30

K 0344 VOLKOVA.59 0505 VOLKOVA.62

K 0749 VOLKOVA.59 0773 FELDMAN.63

K 1517 ZAPESOCHNYI.65 1533 VOLKOVA.63

K 1680 ZAPESOCHNYI.65

FE 0929 BELOUSOVA.61

KR 0474 VOLKOVA.60 1823 ZAPESOCHNYI.66

RB 0773 FELDMAN.63 1517 ZAPESOCHNYI.65

RB 1701 ZAPESOCHNYI.66

ELECTRONIC EXCITATION		EXPERIMENTAL	ELECTRONIC EXCITATION		EXPERIMENTAL
NORMALIZED			RELATIVE		
CD	1750 PENKIN.66		NA	0015 MICHELS.31	0111 HAFT.33
XE	0474 VOLKOVA.60	1823 ZAPESOCCHNYI.66		0506 ZAPESOCCHNYI.62	1078 ZAPESOCCHNYI.63
XE	1 0474 VOLKOVA.60		AR	0020 HUGHES.32	0058 MOHR.32
CS	0279 MOHLER.32	1467 NOLAN.65		0063 NICOLL.33	0067 WHIDDINGTON.34
	1517 ZAPESOCCHNYI.65	1801 ZAPESOCCHNYI.66		0115 FISCHER.33	0119 MAIER-LEIBNITZ.35
	1910 KORCHEVOI.66	1972 ZAPESOCCHNYI.66		0178 MINKOWSKI.23	0704 MANLE.52
SA	1 0929 BELOUSOVA.61			0344 VOLKOVA.59	0692 KUYATT.63
HG	0021 TATE.32	0889 ARNOT.35		0037 PORTEUS.64	0968 SKERBELE.60
	0176 JONKERIUS.61	0303 RIEDE.54	K	1301 OLMSTED.65	1411 RAFF.62
	0513 JONKERIUS.61	0623 CROZIER.28		1327 CHAMBERLAIN.65	1776 KUPRIYANOV.66
	0637 LANGMUIR.28		7N	0105 LARCHE.31	1077 ZAPESOCCHNYI.63
TL	0121 STROMMEIER.37			1079 ZAPESOCCHNYI.63	
H2	0181 FROST.62	0260 ENGELHARDT.63	KR	0178 MINKOWSKI.23	0607 DEVYATOV.55
	0321 FITE.58	0327 LICHTEN.59		0692 KUYATT.63	1301 OLMSTED.65
	0354 CORRIGAN.58	0637 LANGMUIR.28		1325 GUK.57	1776 KUPRIYANOV.66
	0652 LUNT.62	0804 LASSETTRE.64	NR	1 1325 GUK.57	
	0921 LEGLER.63	1265 JONES.65	RB	1078 ZAPESOCCHNYI.63	
O2	0374 LASSETTRE.54	0377 SILVERMAN.57	AO	0289 FUHRMANN.39	
	0381 LASSETTRE.57	0652 LUNT.62	CD	0105 LARCHE.31	0180 MINKOWSKI.23
	0794 LASSETTRE.64	0798 LASSETTRE.64		0504 ZAPESOCCHNYI.62	1079 ZAPESOCCHNYI.63
	1310 SCHULZ.62			1648 ZAPESOCCHNYI.61	
N2	0218 ENGELHARDT.64	0375 LASSETTRE.53	XE	0178 MINKOWSKI.23	0304 MANLE.52
	0378 SILVERMAN.57	0381 LASSETTRE.57		0308 KUYATT.64	0692 KUYATT.63
	0637 LANGMUIR.28	0652 LUNT.62		1325 GUK.57	1776 KUPRIYANOV.66
	0813 LASSETTRE.64	0857 SILVERMAN.65	XE	1 1325 GUK.57	
	0921 LEGLER.63	1296 WILLIAMS.35	CS	0476 BOGDANOVA.60	1040 ZAPESOCCHNYI.64
H20	0382 LASSETTRE.58			1078 ZAPESOCCHNYI.63	
C O2	0380 SHILOFF.57	1205 MEYER.65	H0	0040 NOTTINGHAM.39	0058 MOHR.32
C O	0372 LASSETTRE.53	0374 LASSETTRE.53		0078 ZAPESOCCHNYI.61	0092 MANLE.30
	0794 LASSETTRE.64	0803 LASSETTRE.64		0096 VETTERLEIN.39	0108 THIEME.32
	0968 SKERBELE.60			0112 ORNSTEIN.33	0114 SEILEN.33
C M4	0190 EDMISTEN.49	0192 FRANCIS.47		0115 FISCHER.33	0137 NICOLL.33
C2M6	0190 EDMISTEN.49			0142 FABRIKANT.37	0164 GAGGE.33
RELATIVE				0173 VAN VOORMIS.34	0176 JONKERIUS.61
M	0110 ORNSTEIN.33	0260 ORNSTEIN.35		0179 MANLE.29	0180 MINKOWSKI.23
	0532 KLEINPOPPER.62	0609 BAILLITIS.63		0191 ARNOT.29	0222 BOGDANOVA.63
	0629 HUGHES.23	0922 CHAMBERLAIN.64		0229 OSTENSEN.29	0231 BRATTAIN.29
HE	0063 DYMOND.27	0611 MCHILLEN.30		0262 SCHAFFERNICHT.30	0315 JONKERIUS.56
	0027 HUGHES.33	0058 MOHR.32		0219 SCHULZ.58	0476 BOGDANOVA.60
	0063 NICOLL.33	0067 WHIDDINGTON.34		0513 JONKERIUS.60	0566 SMIT.56
	0100 ORNSTEIN.30	0108 THIEME.32		0534 LEE.39	0635 WHITE.26
	0119 MAIER-LEIBNITZ.35	0120 POULTNEY.34		0656 BRICOUT.28	0665 WHITNEY.29
	0158 HARNWELL.29	0173 VAN VOORMIS.34		0508 FRISH.54	0816 SIEBERTZ.31
	0178 MINKOWSKI.23	0223 SMIT.35		0882 ZAPESOCCHNYI.62	0965 BAKIS.59
	0226 MICHELS.30	0227 LAMB.57		1077 ZAPESOCCHNYI.63	1079 ZAPESOCCHNYI.63
	0235 OLOCKLER.29	0293 PRIESTLY.35		1153 ENDE.29	1233 FRISH.56
	0263 MANLE.52	0319 SCHULZ.58		1275 VALASEK.27	1290 ROZGACHEV.58
	0328 SCHULZ.59	0321 SMIT.59		1324 BOGDANOVA.59	1475 ROSE.30
	0492 MCFARLAND.63	0510 MCFARLAND.62	TL	1521 ZAPESOCCHNYI.65	1534 BOGDANOVA.63
	0513 JONKERIUS.60	0516 SMIT.63		1570 SMIT.65	1575 FYODOROV.65
	0519 HEDDLE.63	0521 MCFARLAND.62	P8	0290 FUHRMANN.39	
	0551 LASSETTRE.64	0564 ST JOHN.62	H2	0059 MOHR.32	0063 NICOLL.33
	0612 LASSETTRE.65	0620 COLES.37		0158 HARNWELL.29	0173 VAN VOORMIS.34
	0628 HUGHES.23	0681 LEES.29		0232 BRASEFIELD.29	0270 KUPITNOF.35
	0663 HERTZ.25	0688 HOMER.34		0319 SCHULZ.58	0987 COULDGE.44
	0692 KUYATT.63	0747 MCFARLAND.64		1301 OLMSTED.65	1303 GEIGER.64
	0753 DOLOV.59	0880 MAURER.34		1411 RAFF.62	1985 BOERSCH.65
	0812 ST JOHN.61	0988 SKERBELE.60		1692 HEIDEMAN.66	
	1027 HIBBINGSON.61	1073 MCFARLAND.64	N2	0059 MOHR.32	0108 THIEME.32
	1078 ZAPESOCCHNYI.63	1090 SCHULZ.64		0137 NICOLL.33	0158 HARNWELL.29
	1148 ELEMBAA.30	1304 CHAMBERLAIN.65		0328 SCHULZ.59	0334 STEWART.59
	1411 RAFF.62	1417 CHAMBERLAIN.65		0475 ZAPESOCCHNYI.60	0612 LASSETTRE.65
	1513 HEDDLE.65	1521 ZAPESOCCHNYI.65		0632 LANGSTROTTH.34	0752 KISHKO.49
	1527 CHAMBERLAIN.65	1572 CERMAK.66		0953 STEWART.55	0968 SKERBELE.60
	1588 EHRHARDT.65	1753 BOERSCH.65		0989 THOMPSON.34	1157 RUDEBERG.30
	1776 KUPRIYANOV.66	1781 CERMAK.66		1298 LANGSTROTTH.35	1301 OLMSTED.65
	1839 MEHLHORN.66	1982 DOERING.66		1312 LANGSTROTTH.35	1406 WINTERS.65
LI	1586 HAFNER.65			1480 LASSETTRE.65	1471 SKERBELE.65
ME	0059 MOHR.32	0119 MAIER-LEIBNITZ.35		1597 GEIGER.65	1648 ZAPESOCCHNYI.61
	0137 NICOLL.33	0152 MANLE.30		1679 MEYER.66	1693 HEIDEMAN.66
	0158 HARNWELL.29	0178 MINKOWSKI.23	N2	1 0039 BUNDY.37	0343 ZAPESOCCHNYI.59
	0268 MILATZ.35	0663 HERTZ.25		0757 KISHKO.60	
	0692 KUYATT.63	1076 ZAPESOCCHNYI.63	H20	0558 SCHULZ.60	0968 SKERBELE.60
	1153 ENDE.29	1301 OLMSTED.65		1411 RAFF.62	1419 SKERBELE.65
	1648 ZAPESOCCHNYI.61	1776 KUPRIYANOV.66		1481 SKERBELE.65	1824 SKERBELE.66
NE	1 0067 WHIDDINGTON.34		M H3	0968 SKERBELE.60	1481 SKERBELE.65

ELECTRONIC EXCITATION		EXPERIMENTAL	ELECTRONIC EXCITATION		THEORETICAL
RELATIVE			NORMALIZED		
N 0	0612 LASSETTRE,65	1841 KOVAL,66	H 0	1522 POMILLA,63	1657 KINGSTON,66
C2H2	1374 BOWMAN,65	1712 GEIGER,65		1674 VELORE,65	1718 ORMONDE,64
C O2	0059 MOHM,32	0612 LASSETTRE,65		1851 KINGSTON,66	1868 VELORE,65
	1047 KISHKO,63	1491 LASSETTRE,65	ME	0051 MASSEY,31	0061 MASSEY,33
	1841 KOVAL,66			0139 MASSEY,35	0155 SEATON,62
C O	0328 SCHULZ,59	0475 ZAPSOCHNYI,60		0234 MASSEY,56	0201 YAVONSKY,44
	1201 OLMSTED,65	1418 MEYER,65		0311 BECKER,64	0349 MASSEY,60
	1481 SKERBELE,65	1743 SILVERMAN,64		0367 MOISEWITSCH,57	0391 MANT,56
	1841 KOVAL,66	1887 SKERBELE,66		0395 ALTSCHULER,53	0396 ALTSCHULER,52
C O 1	0039 BUNDY,37			0432 OPIK,55	0435 NOTHENSSTEIN,54
BR2	0983 SWICK,61			0441 MASSEY,52	0452 GHYZINSKI,59
C H4	0137 NICOLL,33	1374 BOWMAN,65		0460 MASSEY,54	0462 HUZINAGA,60
	1588 EHRHARDT,65			0555 BECKER,63	0616 MASSEY,31
O2	0987 COOLIDGE,44			0676 KAR,40	0718 OCHKUR,64
C2H4	1374 BOWMAN,65	1411 RAFF,62		0740 PERCIVAL,58	0754 VAINSHTEIN,59
C2H6	1374 BOWMAN,65			0760 MATOJA,60	0765 ITOH,60
S F6	1856 SIMPSON,66			0801 LASSETTRE,64	0863 GHYZINSKI,64
				0892 BURGESS,63	1014 GHYZINSKI,65
				1091 SILVERMAN,58	1115 OCHKUR,43
				1212 BECKER,64	1246 STAUFFER,65
				1265 JONES,48	1544 VAINSHTEIN,61
				1557 BAUER,65	1558 BAUER,64
				1567 LASSETTRE,65	1590 WILLIAMS,62
				1644 JOACHAIN,65	1645 JOACHAIN,65
				1663 SILVERMAN,66	1782 OCHKUR,65
				1695 FOX,66	1710 BELL,66
				1767 FOX,65	1793 BIELSKI,65
				1846 BURKE,66	
			ME 0	1103 YAVORSKY,47	1658 MARRIOTT,66
				1804 OCHKUR,66	
			ME 1	0417 BURGESS,61	0436 BRANSDEN,53
				0669 BURKE,64	0670 MCCARROLL,64
				1080 BURKE,64	1340 BURKE,64
				1847 BURKE,46	
			LI	0830 VELORE,59	0836 VELORE,59
				0990 KARULE,64	1072 HUGHES,64
				1146 WU,44	1190 WU,40
				1469 KARULE,65	1515 KARULE,64
				1813 VAINSHTEIN,64	
			LI 1	1688 SURAL,66	
			ME	0884 PILYANKEVICH,60	
			ME 1	0772 BELY,63	1305 BELY,64
				1850 BELY,66	
			ME 2	0884 PILYANKEVICH,60	
			B	0884 PILYANKEVICH,60	
			C	0884 PILYANKEVICH,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	0404 SEATON,53	0484 SEATON,55
				0714 SEATON,58	1696 BELY,66
			N 4	1536 TAYLOR,65	1653 BURKE,66
				1850 BELY,66	
			O	0248 YAMANOUCHI,40	0366 YAMANOUCHI,50
				0427 PERCIVAL,57	0484 SEATON,55
				1832 SEATON,52	
			O 1	0404 SEATON,53	0484 SEATON,55
				0843 SEATON,57	1216 ALLER,48
			O 2	0265 WEBB,40	0484 SEATON,53
				0484 SEATON,55	0714 SEATON,58
				1696 BELY,66	
			O 5	0775 BELY,63	0792 VARSAVSKY,61
				0814 VARSAVSKY,63	0970 BELY,62
				1017 VARSAVSKY,62	
			F 1	0484 SEATON,53	0484 SEATON,55
			F 2	0484 SEATON,53	0484 SEATON,55
			F 3	0484 SEATON,53	0484 SEATON,55
			F 5	0792 VARSAVSKY,61	
			F 6	0792 VARSAVSKY,61	

ELECTRONIC EXCITATION		THEORETICAL
NORMALIZED		
H	0032 GORSHANOVA,62	0044 BURKE,62
	0051 MASSEY,31	0083 BURKE,61
	0091 DAMBURG,62	0097 DAMBURG,62
	0128 PETERKOP,62	0154 DAMBURG,62
	0155 SEATON,62	0183 ELSASSER,27
	0234 MASSEY,56	0277 GOLDSTEIN,33
	0278 DAMBURG,62	0296 GAILITIS,63
	0350 KINGSTON,60	0331 BELL,63
	0389 BOROWITZ,56	0391 MANT,56
	0416 KHASHABA,58	0420 MARRIOTT,58
	0423 BATES,57	0424 MCCARROLL,57
	0425 BRANSDEN,57	0429 BRANSDEN,56
	0432 OPIK,55	0435 ROTHENSSTEIN,54
	0438 MASSEY,53	0446 MCCOYD,60
	0458 ERSKINE,52	0507 DAMBURG,63
	0534 SOMERVILLE,62	0540 MILFORD,60
	0542 DAMBURG,62	0545 ROBINSON,63
	0549 KINGSTON,60	0563 LYNN,50
	0567 WU,60	0580 HUCK,57
	0585 SEATON,62	0593 OMIDVAR,64
	0648 DAMBURG,63	0671 STABLER,64
	0712 BURKE,61	0721 SEATON,61
	0722 LAWSON,61	0809 HELLUND,60
	0826 PRESNYAKOV,64	0828 POMILLA,64
	0829 PETERKOP,59	0859 SMITH,60
	0866 MARRIOTT,64	0874 TAYLOR,64
	0892 BURGESS,63	0896 SMITH,60
	0904 KYLL,64	0908 KYLE,64
	0913 AKERIB,61	0914 MOISEWITSCH,61
	0919 MILFORD,60	0935 OCHKUR,58
	0996 AKERIB,60	1009 HUMMER,61
	1014 GHYZINSKI,65	1061 VAINSHTEIN,64
	1050 SCANLON,61	1109 CUNNINGHAM,64
	1074 SOMERVILLE,63	1130 KLEIN,55
	1115 OCHKUR,63	1246 STAUFFER,65
	1135 PETERKOP,60	1409 BELL,65
	1257 MOISEWITSCH,65	1457 VRIENS,65
	1410 TAIT,63	1466 OMIDVAR,65
	1461 SCOTT,65	1474 VAINSHTEIN,64
	1468 VRIENS,65	1532 CROTHERS,45
	1479 COLEMAN,65	1550 DAMBURG,63
	1546 VAINSHTEIN,61	1552 DAMBURG,63
	1551 DAMBURG,63	1557 BAUER,45
	1553 DAMBURG,63	1594 VRIENS,65
	1560 EISSNER,64	1697 COLEMAN,66
	1637 KINGSTON,66	1747 KANG,66
	1718 ORMONDE,64	1793 BIELSKI,65
	1773 HUDOE,65	1847 BURKE,66
	1813 VAINSHTEIN,64	1859 ORMONDE,66
	1851 KINGSTON,66	1877 MCCARROLL,66
	1868 VELORE,65	1898 KYLE,64
	1886 COLEMAN,65	
	1885 FAISAL,65	
H 0	0103 MCCOYD,63	0413 MCCREA,60
	0419 BOYD,58	0431 SEATON,55
	0448 FISHER,60	0446 MCCOYD,60
	0593 OMIDVAR,64	0826 PRESNYAKOV,64
	0859 SMITH,61	0954 SARAPH,64
	1074 SOMERVILLE,63	1103 YAVORSKY,47
	1486 OMIDVAR,65	1468 VRIENS,65

ELECTRONIC EXCITATION		THEORETICAL	ELECTRONIC EXCITATION		THEORETICAL
NORMALIZED			NORMALIZED		
NE	1876 VELDRE.65 1866 VELDRE.65	1681 BOIKOVA.65 1867 VELDRE.65	P 11	0792 VARSAVSKY.61	
NE	2 0400 SEATON.53	0484 SEATON.55	P 12	0792 VARSAVSKY.61	
NE	3 0400 SEATON.53	0484 SEATON.55	S 1	0404 SEATON.53 0484 SEATON.55	0442 CZYZAK.64
NE	4 0400 SEATON.53	0484 SEATON.55	S 2	0442 CZYZAK.64	1696 BELY.66
NE	5 0792 VARSAVSKY.61		S 4	0792 VARSAVSKY.61	
NE	6 0792 VARSAVSKY.61	1050 BELY.66	S 9	0792 VARSAVSKY.61	
NE	7 0792 VARSAVSKY.61		S 10	0792 VARSAVSKY.61	
NA	0155 SEATON.62 0432 GRZJINSKI.59 1014 GRZJINSKI.65 1072 HUGHES.64 1251 BARNES.65 1416 LANE.64 1476 VAINSHTEIN.66 1546 VAINSHTEIN.61 1793 BIELSKI.65	0431 SEATON.55 0497 SOMERVILLE.61 1823 SALMONA.61 1119 OCHKUR.63 1319 VELDRE.56 1489 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
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	
NA	9 0792 VARSAVSKY.61		AR 11	0792 VARSAVSKY.61	
NA	10 0792 VARSAVSKY.61		AR 12	0792 VARSAVSKY.61	
NA	11 0792 VARSAVSKY.61		AR 13	0792 VARSAVSKY.61	
NA	12 0792 VARSAVSKY.61		K	1072 HUGHES.64 1813 VAINSHTEIN.64	1669 KARULE.65
NA	13 0792 VARSAVSKY.61		K 7	0792 VARSAVSKY.61	
NA	14 0792 VARSAVSKY.61		K 8	0792 VARSAVSKY.61	
NA	15 0792 VARSAVSKY.61		K 12	0792 VARSAVSKY.61	
NA	16 0792 VARSAVSKY.61		K 13	0792 VARSAVSKY.61	
NA	17 0792 VARSAVSKY.61		CA	1448 BELY.64	
NA	18 0792 VARSAVSKY.61		CA 1	0720 VAN REGEMORTER.60 1122 VAN REGEMORTER.60	1054 VAN REGEMORTER.61 1876 PETRINI.65
NA	19 0792 VARSAVSKY.61		CA 7	0792 VARSAVSKY.61	
NA	20 0792 VARSAVSKY.61		CA 8	0792 VARSAVSKY.61	
NA	21 0792 VARSAVSKY.61		CA 9	0792 VARSAVSKY.61	
NA	22 0792 VARSAVSKY.61		CA 14	0792 VARSAVSKY.61	
NA	23 0792 VARSAVSKY.61		SC 4	0792 VARSAVSKY.61	
NA	24 0792 VARSAVSKY.61		SC 7	0792 VARSAVSKY.61	
NA	25 0792 VARSAVSKY.61		SC 8	0792 VARSAVSKY.61	
NA	26 0792 VARSAVSKY.61		SC 9	0792 VARSAVSKY.61	
NA	27 0792 VARSAVSKY.61		SC 10	0792 VARSAVSKY.61	
SI	1 0714 SEATON.58	0909 SEATON.55	TI 4	0792 VARSAVSKY.61	
SI	3 0775 BELY.63		TI 7	0792 VARSAVSKY.61	
SI	5 0792 VARSAVSKY.61		TI 8	0792 VARSAVSKY.61	
SI	6 0792 VARSAVSKY.61		TI 9	0792 VARSAVSKY.61	
SI	7 0792 VARSAVSKY.61		TI 10	0792 VARSAVSKY.61	
SI	8 0792 VARSAVSKY.61		TI 11	0792 VARSAVSKY.61	
SI	9 0792 VARSAVSKY.61		V 4	0792 VARSAVSKY.61	
SI	10 0792 VARSAVSKY.61		V 7	0792 VARSAVSKY.61	
SI	11 0792 VARSAVSKY.61		V 8	0792 VARSAVSKY.61	
P	6 0792 VARSAVSKY.61		V 9	0792 VARSAVSKY.61	
P	7 0792 VARSAVSKY.61		V 10	0792 VARSAVSKY.61	
P	8 0792 VARSAVSKY.61		V 11	0792 VARSAVSKY.61	
P	9 0792 VARSAVSKY.61		V 12	0792 VARSAVSKY.61	
P	10 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,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 BLAHA,62
 0547 BELY,62
 0923 WOOLLEY,48
 FE 14 0792 VARSAVSKY,61
 FE 15 0775 BELY,63
 1932 KRUEBER,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
 1496 WITTING,65
 1813 VAINSHTEIN,64
 CS 1272 SMELDON,65
 WA 1 1876 PETRINI,65
 MB 0202 YAVORSKY,46
 0452 BRZYNSKI,59
 MB 1103 YAVORSKY,47
 M2 0848 ROSCOE,41
 M2 1 1858 PEER,64
 O2 1557 BAUER,65
 M2 1557 BAUER,65

0455 HILL,51
 0792 VARSAVSKY,61

0792 VARSAVSKY,61

1813 VAINSHTEIN,64
 1872 HUGHES,64
 1469 KARULE,65

0272 YAVORSKY,48
 1416 LANE,64

0194 MASSEY,32
 1342 CALLAWAY,65
 1558 BAUER,65
 1558 BAUER,65

ELECTRONIC EXCITATION THEORETICAL

NORMALIZED

NR 1 1557 BAUER,65 1558 BAUER,65
 M20 0294 NIIRA,49
 M 0 1557 BAUER,65 1558 BAUER,65

RELATIVE

ME 0284 MASSEY,33 0386 BARANGER,57
 0639 MORSE,32 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
 M2 0019 PENNEY,32
 M2 0987 COOLIDGE,44
 O2 0987 COOLIDGE,44

ELECTRON DETACHMENT EXPERIMENTAL

NORMALIZED

M - 1880 TISONE,66

ELECTRON DETACHMENT THEORETICAL

NORMALIZED

M - 0415 GELTMAN,60 0478 MCDOWELL,53
 0576 RUDDE,64 1128 GELTMAN,60
 1483 TIETZ,63 1764 SMIRNOV,66
 O - 0365 WATANABE,50
 CL - 1300 MASSEY,36 1463 ROBINSON,65

DE-EXCITATION EXPERIMENTAL

NORMALIZED

ME 0569 PHELPS,55
 CS 0279 HOWLER,32

RELATIVE

M2 0102 LATYSHEFF,30

DE-EXCITATION THEORETICAL

NORMALIZED

ME 0426 HARRIOTT,57 1658 HARRIOTT,66
 O 0366 YAMANOUCHI,58
 CS 1486 WITTING,65
 MB 0202 YAVORSKY,46

IONIZATION		EXPERIMENTAL		IONIZATION		EXPERIMENTAL	
NORMALIZED				NORMALIZED			
N	0320 FITE,50 0978 ROTHE,62	0491 BOYD,60 1106 BOKSENBERG,61		CS	1104 MCFARLAND,65 1875 METL,66	1217 BRINK,64 1972 ZAPESOCHNYI,66	
ME	0002 COMPTON,25 0225 SMITH,30 0340 LAMPE,57 0626 ASUNDI,63 0743 ASUNDI,63 0799 SILVERMAN,64 0974 HARRISON,56 1105 ENGLANDER-GOLDEN,64 1329 FOX,61 1706 SCHRAM,66 1858 ADAMCZYK,66 1895 ZAPESOCHNYI,65	0029 LISKA,34 0335 BOYD,58 0373 LASSETYRE,53 0674 COMPTON,10 0787 HUGHES,63 0942 ST JOHN,64 0995 GOODRICH,37 1281 SCHRAM,65 1459 RAPP,65 1706 SCHRAM,66 1903 SCHRAM,66		BA	1502 MCFARLAND,65		
ME *	0200 FITE,63			MB	0002 COMPTON,25 0021 TATE,32 0840 NOTTINGHAM,39 0226 SMITH,31 0303 RIEDE,54 1329 FOX,61	0004 JONES,27 0029 LISKA,34 0069 ARNOT,35 0228 BLEAKNEY,30 0974 HARRISON,56	
ME 1	0907 DOLDER,61			MB 1	0723 LATYPOV,64		
LI	0773 FELDMAN,63	1104 MCFARLAND,65		MB 2	0723 LATYPOV,64		
LI 1	1421 LINEBERGER,65			ML	1502 MCFARLAND,65		
N	0031 PETERSON,64	1268 SMITH,62		M2	0002 COMPTON,25 0041 NEWMALL,42 0320 FITE,58 0340 LAMPE,57 1105 ENGLANDER-GOLDEN,64 1281 SCHRAM,65 1748 SCHRAM,66 1863 SCHRAM,66	0018 TATE,32 0268 ENGELHARDT,63 0335 BOYD,58 0974 HARRISON,56 1106 BOKSENBERG,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 CRAIGGS,57 0938 ASUNDI,63 1075 SILVERMAN,64 1106 BOKSENBERG,61 1289 SCHULZ,62 1748 SCHRAM,66 1863 SCHRAM,66	
O	0323 FITE,59 0978 ROTHE,62	0602 JAMODA,62 1106 BOKSENBERG,61		M2	0002 COMPTON,25 0153 COOK,62 0340 LAMPE,57 0857 SILVERMAN,65 0997 SHERIDAN,61 1106 BOKSENBERG,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 MAYAKAWA,64 1329 FOX,61 1504 MCCONKEY,65 1863 SCHRAM,66	
ME	0002 COMPTON,25 0225 SMITH,30 0626 ASUNDI,63 0831 PETERSON,64 1281 SCHRAM,65 1459 RAPP,65 1748 SCHRAM,66 1863 SCHRAM,66	0612 BLEAKNEY,30 0340 LAMPE,57 0743 ASUNDI,63 1105 ENGLANDER-GOLDEN,64 1329 FOX,61 1706 SCHRAM,66 1858 ADAMCZYK,66		M20	0340 LAMPE,57	1702 SCHUTTEN,66	
ME 1	0264 DOLDER,63	0723 LATYPOV,64		N M3	0340 LAMPE,57		
NA	0088 FUNK,30 1217 BRINK,64	1104 MCFARLAND,65 1663 ZAPESOCHNYI,65		N O	0018 TATE,32 0946 GLICK,64 1459 RAPP,65	0340 LAMPE,57 1105 ENGLANDER-GOLDEN,64	
NA 1	1568 HOOPER,66			C2M2	0018 TATE,32	0340 LAMPE,57	
AN	0002 COMPTON,25 0225 SMITH,30 0357 TOZER,60 0743 ASUNDI,63 0946 GLICK,64 1281 SCHRAM,65 1459 RAPP,65 1748 SCHRAM,66	0012 BLEAKNEY,30 0340 LAMPE,57 0626 ASUNDI,63 0831 PETERSON,64 1105 ENGLANDER-GOLDEN,64 1329 FOX,61 1705 SCHRAM,66 1863 SCHRAM,66		M20	1105 ENGLANDER-GOLDEN,64 1771 LATIMER,65	1459 RAPP,65	
AR 1	0723 LATYPOV,64			C O2	0340 LAMPE,57 0938 ASUNDI,63 1105 ENGLANDER-GOLDEN,64 1700 NISHIMURA,66	0865 CRAIGGS,60 0948 WHALLA,60 1459 RAPP,65	
AR 2	0723 LATYPOV,64			C O	0018 TATE,32 0967 CRAIGGS,58 1105 ENGLANDER-GOLDEN,64 1459 RAPP,65	0340 LAMPE,57 0938 ASUNDI,63 1329 FOX,61	
K	0088 FUNK,30 1104 MCFARLAND,65	0773 FELDMAN,63 1217 BRINK,64		M CL	0002 COMPTON,25	0340 LAMPE,57	
K 1	1568 HOOPER,66			C M4	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			M25	0340 LAMPE,57		
ZN	1687 POTTIE,66			M D	1396 BRIGLIA,65		
KR	0340 LAMPE,57 0626 ASUNDI,63 1105 ENGLANDER-GOLDEN,64 1459 RAPP,65 1748 SCHRAM,66	0357 TOZER,60 0743 ASUNDI,63 1281 SCHRAM,65 1705 SCHRAM,66 1863 SCHRAM,66		O2	0248 ENGELHARDT,63 1281 SCHRAM,65 1863 SCHRAM,66	1105 ENGLANDER-GOLDEN,64 1459 RAPP,65	
KR 1	0723 LATYPOV,64			C2M4	0340 LAMPE,57	1459 RAPP,65	
KR 2	0723 LATYPOV,64			C2M6	0340 LAMPE,57	1690 SCHRAM,66	
RB	0773 FELDMAN,63 1217 BRINK,64	1104 MCFARLAND,65		S F6	0940 ASUNDI,64	1459 RAPP,65	
SR	1502 MCFARLAND,65			C M3CL	0340 LAMPE,57		
AB	1081 LYUHIMOV,63			C D4	1690 SCHRAM,66	1863 SCHRAM,66	
CD	1687 POTTIE,66			TEP	1687 POTTIE,66		
KE	0340 LAMPE,57 0626 ASUNDI,63 1105 ENGLANDER-GOLDEN,64 1459 RAPP,65 1748 SCHRAM,66	0357 TOZER,60 0743 ASUNDI,63 1281 SCHRAM,65 1705 SCHRAM,66 1863 SCHRAM,66					
KE 1	0723 LATYPOV,64						
KE 2	0723 LATYPOV,64						

IONIZATION		EXPERIMENTAL		IONIZATION		EXPERIMENTAL	
RELATIVE				RELATIVE			
M	1508 MCGOWAN,65			RB	0216 TATE,34	0283 FIQUET-FAYARD,63	
ME	0027 HUGHES,53 0066 MOHR,34 0304 HANLE,52 0339 OTVOS,56 0525 KRAUSS,59 0625 JESSE,25 0704 MICKAM,54 0986 BLANC,62 1215 HUTCHISON,64 1373 SIMPSON,65 1530 MAIOT,65 1919 FIQUET-FAYARD,65	0035 BLEAKNEY,30 0280 FITE,63 0331 STANTON,60 0353 FOX,50 0539 HAYAKAWA,50 0692 KUYATT,63 0777 BRINK,61 1076 ZAPESOCHNYI,63 1244 MORRISON,53 1530 FIQUET-FAYARD,65 1871 LIPELES,65		SR	0283 FIQUET-FAYARD,63		
LI	0150 BRINK,62			AG	0566 BLAIS,60	1578 DE MARIA,65	
C	0659 CRAWFORD,62			CD	0313 MICKAM,54	1578 DE MARIA,65	
ME	0012 BLEAKNEY,30 0213 STEVENSON,42 0280 FITE,63 0481 CLOUTIER,59 0625 JESSE,25 0704 MICKAM,54 1039 KANEKO,61 1244 MORRISON,53 1453 STUBER,65	0065 MOHR,34 0242 MORRISON,59 0339 OTVOS,56 0525 KRAUSS,59 0692 KUYATT,63 0986 BLANC,62 1068 DORMAN,61 1373 SIMPSON,65 1920 ZIESEL,65		YE	1578 DE MARIA,65		
NE	0290 FITE,63			XE	0216 TATE,34 0271 FOX,54 0308 KUYATT,64 0353 FOX,58 0525 KRAUSS,59 0692 KUYATT,63 0707 FOX,60 0986 BLANC,62 1069 DORMAN,59 1107 MORRISON,64 1244 MORRISON,53	0242 MORRISON,59 0304 HANLE,52 0310 FOX,53 0481 CLOUTIER,59 0591 BURNS,64 0784 MICKAM,54 0854 CLARKE,54 1034 FOMER,61 1070 DORMAN,61 1137 KISER,62 1453 STUBER,65	
NE	1 0713 KUPRIYANOV,64			NE	1 0713 KUPRIYANOV,64		
NA	0150 BRINK,62 0666 DIEBELER,59 1919 FIQUET-FAYARD,65	0216 TATE,34 1039 KANEKO,61 1920 ZIESEL,65		XE	2 0713 KUPRIYANOV,64		
HG	1039 KANEKO,61	1920 ZIESEL,65		CS	0216 TATE,34		
AL	0659 CRAWFORD,62			AU	0566 BLAIS,60		
AR	0012 BLEAKNEY,30 0213 STEVENSON,42 0280 FITE,63 0304 HANLE,52 0483 COTTIN,59 0539 HAYAKAWA,55 0692 KUYATT,63 0777 BRINK,61 0958 MELTON,62 1034 FOMER,61 1069 DORMAN,59 1100 BECKER,64 1162 FIQUET-FAYARD,62 1373 SIMPSON,65 1530 FIQUET-FAYARD,65	0066 MOHR,34 0242 MORRISON,59 0283 FIQUET-FAYARD,63 0339 OTVOS,56 0525 KRAUSS,59 0625 JESSE,25 0704 MICKAM,54 0781 FOX,60 0986 BLANC,62 1038 KANEKO,61 1070 DORMAN,61 1124 FIQUET-FAYARD,62 1244 MORRISON,53 1453 STUBER,65 1919 FIQUET-FAYARD,65		HG	1 0713 KUPRIYANOV,64	0014 HAUPT,31 0211 MCFADUE,46 0313 MICKAM,54 1095 BLEAKNEY,29 1578 DE MARIA,65	
AR	0280 FITE,63			HG	2 0713 KUPRIYANOV,64		
AR	1 0713 KUPRIYANOV,64			U	1261 MANN,64		
K	0150 BRINK,62 0283 FIQUET-FAYARD,63 1124 FIQUET-FAYARD,62 1919 FIQUET-FAYARD,65	0216 TATE,34 1039 KANEKO,61 1530 FIQUET-FAYARD,65		H2	0089 BLEAKNEY,30 0066 MOHR,34 0255 SHYTH,24 0539 HAYAKAWA,55 0659 CRAWFORD,62 1164 BRIGLIA,65 1303 GEIGER,34 1508 MCGOWAN,65	0041 NEWHALL,42 0170 BAERWALD,25 0339 OTVOS,56 0625 JESSE,25 0660 KALLMANN,27 1292 BRIGLIA,65 1415 MCGOWAN,65	
CA	0283 FIQUET-FAYARD,63 1124 FIQUET-FAYARD,62	1045 KANEKO,63		OZ	0167 RANDOLPH,58 0255 SHYTH,24 0339 OTVOS,56 0526 FROST,59 0985 BRION,64 1108 DORMAN,63	0214 HASTRUM,41 0334 STEWART,58 0341 FROST,58 0778 DORMAN,60 1089 MCGOWAN,64	
FE	1874 COOPER,66			N2	0017 VAUGHAN,31 0214 HASTRUM,41 0339 OTVOS,56 0625 JESSE,25 0778 DORMAN,60 0953 STEWART,55 1068 DORMAN,61 1244 MORRISON,53 1530 FIQUET-FAYARD,65 1987 HAYAKAWA,65	0066 MOHR,34 0271 FOX,54 0523 FROST,55 0660 KALLMANN,27 0854 CLARKE,54 1038 KANEKO,61 1108 DORMAN,63 1509 FINEMAN,65 1648 ZAPESOCHNYI,61	
CO	1874 COOPER,66			H20	0483 COTTIN,59 0924 MANN,40	0558 SCHULZ,60 1919 FIQUET-FAYARD,65	
NI	1874 COOPER,66			N M3	1068 DORMAN,61	1530 FIQUET-FAYARD,65	
CU	0566 BLAIS,60			N O	0214 HASTRUM,41 0854 CLARKE,54 1530 FIQUET-FAYARD,65	0481 CLOUTIER,59 1068 DORMAN,61 1448 ZAPESOCHNYI,61	
ZM	0263 FIQUET-FAYARD,63 1167 FIQUET-FAYARD,63	0313 MICKAM,54 1578 DE MARIA,65		CL2	0526 FROST,59	0708 FROST,60	
SE	1578 DE MARIA,65			H20	0339 OTVOS,56 1916 CONNOLLY,65	1067 CURRAN,61	
KR	0216 TATE,34 0310 FOX,53 0410 BURNS,64 0524 FROST,57 0692 KUYATT,63 0781 FOX,60 0986 BLANC,62 1038 KANEKO,61 1107 MORRISON,64 1215 HUTCHISON,64 1493 STUBER,65 1919 FIQUET-FAYARD,65	0283 FIQUET-FAYARD,63 0339 OTVOS,56 0523 FROST,55 0526 FROST,59 0784 MICKAM,54 0958 MELTON,62 1034 FOMER,61 1070 DORMAN,61 1137 KISER,62 1244 MORRISON,53 1530 FIQUET-FAYARD,65		C O2	0339 OTVOS,56 0647 ASUMOI,64 1244 MORRISON,53 1919 FIQUET-FAYARD,65	0531 COLLIN,60 1068 DORMAN,61 1530 FIQUET-FAYARD,65	
KR	1 0713 KUPRIYANOV,64	1492 BAKER,65		C O	0017 VAUGHAN,31 0271 FOX,54 0339 OTVOS,56 0941 FINEMAN,62 1068 DORMAN,61 1648 ZAPESOCHNYI,61	0214 HASTRUM,41 0310 FOX,53 0625 JESSE,25 1038 KANEKO,61 1896 HODGESS,28 1742 CUTHBERT,66	
KR	2 0713 KUPRIYANOV,64			C O	1 1742 CUTHBERT,66		
				BR2	0708 FROST,60		

	IONIZATION	EXPERIMENTAL	IONIZATION	THEORETICAL
RELATIVE			NORMALIZED	
M CL	0339 OTVOS.56 1244 MORRISON.53	0707 FOX.60	ME 1345 LEE.65 1484 KUREPA.63 1554 LYASH.63 1557 BAUER.64 1788 BYRON.66	1457 VRIENS.65 1506 KINGSTON.65 1555 VELORE.63 1655 PEACH.66
C M4	0066 MOHR.34 0524 FROST.57 0625 JEFFE.25	0339 OTVOS.56 0539 HAYAKAWA.55	ME 0 1060 VRIENS.64	
I2	0526 FROST.59	0708 FROST.60	ME 1 0057 BURGESS.63 0735 BURGESS.60 1060 VRIENS.64 1772 RUDGE.65	0417 BURGESS.61 0892 BURGESS.63 1436 BURKE.65
M25	0339 OTVOS.56	1530 FIQUET-FAYARD.65		
P M3	0339 OTVOS.56		LI 0570 GRYZINSKI.63 1014 GRYZINSKI.65 1146 WU.44 1272 SHELTON.65 1299 MCDONNELL.65 1502 MCFARLAND.65	0873 PEACH.64 1044 DRAWIN.61 1190 WU.44 1273 PEACH.65 1464 MCFARLAND.65 1655 PEACH.66
C S2	0339 OTVOS.56	0531 COLLIN.40	LI 1 1044 DRAWIN.61	
H D	0539 HAYAKAWA.55		LI 2 1044 DRAWIN.61	
O2	0539 HAYAKAWA.55		BE 1273 PEACH.65 1655 PEACH.66	1502 MCFARLAND.65
C2M4	0339 OTVOS.56	0539 HAYAKAWA.55	N 0453 SEATON.59 1557 BAUER.65	1463 ROBINSON.65
C2M6	0339 OTVOS.56		O 0453 SEATON.59 1557 BAUER.65	1463 ROBINSON.65
M02	0211 MCFADDEN.44		O 4 0143 TREFFTZ.63	1046 MALIK.61
C M3CL	0339 OTVOS.56	0524 FROST.57	O 5 0143 TREFFTZ.63	0814 VARSAVSKY.63
C M3R	0339 OTVOS.56	0524 FROST.57	NE 0147 NEU.58 0455 HILL.51 1115 OCHKUR.63 1463 ROBINSON.65 1506 KINGSTON.65	0210 INOKUTI.62 1060 VRIENS.64 1457 VRIENS.65 1484 KUREPA.63 1557 BAUER.65
C M3I	0339 OTVOS.56	0524 FROST.57	NE 0 1060 VRIENS.64	
I CL	0708 FROST.60		NE 1 1060 VRIENS.64	
I BR	0708 FROST.60		NA 1272 SHELTON.65 1476 PRESNYAKOV.65 1654 PEACH.66	1464 MCFARLAND.65 1502 MCFARLAND.65 1655 PEACH.66
M202	1132 FONER.62		HG 1502 MCFARLAND.65 1655 PEACH.66	1654 PEACH.66
C2N2	0339 OTVOS.56		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
M C N	0339 OTVOS.56		AR 0 1060 VRIENS.64	
C M3F	0524 FROST.57		K 1272 SHELTON.65 1502 MCFARLAND.65	1464 MCFARLAND.65
U O	1261 KANN.64		CA 1502 MCFARLAND.65	
TE2	1578 DE MARIA.65		CA 1 0960 ZIRIN.62	
SE2	1578 DE MARIA.65		FE 13 0443 SCHWARTZ.59 1058 KULANDER.63	0455 HILL.51
S2	1578 DE MARIA.65		FE 14 1849 RUDGE.66	
			FE 15 1849 RUDGE.66	
IONIZATION		THEORETICAL	VI 0140 BURMOP.40 0455 HILL.51 1044 DRAWIN.61	0452 GRYZINSKI.59 1014 GRYZINSKI.65 1115 OCHKUR.63
NORMALIZED			KR 0147 NEU.58 1484 KUREPA.63	1457 VRIENS.65 1506 KINGSTON.65
M	0061 MASSEY.33 0282 YAVORSKY.45 0390 GELTMAN.56 0461 MORAND.59 0587 KOGAN.59 0825 KINGSTON.64 0844 VELORE.64 0852 PETERKOP.59 0892 BURGESS.63 0996 AKERIB.60 1044 DRAWIN.61 1115 OCHKUR.63 1165 MICHAEL.63 1273 PEACH.65 1436 BURKE.65 1458 OMIDVAR.65 1476 PRESNYAKOV.65 1544 RUDGE.65 1548 VELORE.63 1595 KINGSTON.65 1648 RUDGE.66 1879 VINKALNS.65	0101 VELORE.62 0307 STAUFFER.63 0424 MCCARROLL.57 0533 GELTMAN.63 0671 STABLEN.64 0829 PETERKOP.59 0848 OMIDVAR.64 0863 GRYZINSKI.64 0913 AKERIB.61 1014 GRYZINSKI.65 1071 OMIDVAR.64 1129 PETERKOP.62 1262 PRASAD.65 1426 VELORE.62 1457 VRIENS.65 1472 VELORE.65 1541 OCHKUR.65 1547 VELORE.63 1582 VELORE.65 1655 PEACH.66 1878 VINKALNS.65	AR 0 1060 VRIENS.64	
M 0	0307 STAUFFER.63 0430 SWAN.55 1071 OMIDVAR.64 1458 OMIDVAR.65 1595 KINGSTON.65 1694 KINGSTON.66	0413 MCCREA.60 0848 OMIDVAR.64 1436 BURKE.65 1826 OMIDVAR.65 1656 PRASAD.66 1848 RUDGE.66	RO 1272 SHELTON.65 1502 MCFARLAND.65	1464 MCFARLAND.65
ME	0024 WETZEL.33 0147 NEU.58 0452 GRYZINSKI.59 0745 ITON.68 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 OCHKUR.63 1302 SLUAN.64	SR 1502 MCFARLAND.65	
			SR 1 0960 ZIRIN.62	
			AB 0140 BURMOP.40 0455 HILL.51 1014 GRYZINSKI.65	0452 GRYZINSKI.59 0899 WETZEL.36
			SN 40 0057 BURGESS.63	
			XE 0147 NEU.58 1484 KUREPA.63	1457 VRIENS.65 1506 KINGSTON.65

IONIZATION		THEORETICAL	DISSOCIATION		EXPERIMENTAL
NORMALIZED			RELATIVE		
CS	1165 MICHAEL.63 1502 MCFARLAND.65	1464 MCFARLAND.65	H2	0167 RANDOLPH.58 0778 DORMAN.60	0926 FROST.59
CC	1272 SHELTON.65		H2O	0924 MANN.40	
HA	1502 MCFARLAND.65		N H3	0924 MANN.40	
HG	0140 BURHOP.40 0442 PRASAD.63 1060 VRIENS.64 1557 BAUER.65	0455 HILL.51 0743 YAVORSKY.47 1115 OCHKUR.63	N O	0481 CLOUTIER.59	
HG	1060 VRIENS.64		CL2	0708 FROST.60	
TL	1502 MCFARLAND.65		C O	0778 DORMAN.60	0941 FINEMAN.62
NO	1558 BAUER.65		BP2	0708 FROST.60	
H2	0147 NEU.58 0455 HILL.51 0863 GRYZINSKI.64 1044 DRAMIN.61 1457 VRIENS.65 1558 BAUER.65	0452 GRYZINSKI.59 0570 GRYZINSKI.63 1014 GRYZINSKI.65 1115 OCHKUR.63 1557 BAUER.65	I2	0526 FROST.59 0778 DORMAN.60	0708 FROST.60
U2	0642 PRASAD.63 1557 BAUER.65	1457 VRIENS.65 1558 BAUER.65	C CL4	0950 MARRIOTT.54	1231 CRAGGS.42
H2	0147 NEU.58 1457 VRIENS.65 1558 BAUER.65	0642 PRASAD.63 1557 BAUER.65	DISSOCIATION		THEORETICAL
N O	1557 BAUER.65		NORMALIZED		
C2H2	1557 BAUER.65	1558 BAUER.65	H2	0194 MASSEY.32 1862 KHARE.66	0695 EUELSTEIN.58
C O	0642 PRASAD.63 1558 BAUER.65	1557 BAUER.65	H2 1	0370 IVASH.58 1465 PEEK.65	0394 KERNEH.53
C H4	0210 INOKUTI.62		H2O	0294 MIIRA.49	
RELATIVE			RELATIVE		
H	1144 DE LA RIPELLE.49		H2	0033 SASAKI.35	
ME	1144 DE LA RIPELLE.49	1673 HITTLEMAN.66	FREE-FREE EMISSION		THEORETICAL
NE	1144 DE LA RIPELLE.49		NORMALIZED		
NA	1144 DE LA RIPELLE.49		H	1414 LANE.64	
AR	1144 DE LA RIPELLE.49		H 1	1414 LANE.64	
KR	1144 DE LA RIPELLE.49		N	0256 DEVORE.64	0939 BREENE.61
AG	1144 DE LA RIPELLE.49		N 1	0256 DEVORE.64	
KE	1144 DE LA RIPELLE.49		O	0574 BREENE.63	
H2	0005 KRAUSS.57		DISSOCIATIVE IONIZATION		EXPERIMENTAL
O2	0005 KRAUSS.57		NORMALIZED		

DISSOCIATION		EXPERIMENTAL	DISSOCIATION		EXPERIMENTAL
NORMALIZED			NORMALIZED		
H2	0260 ENGELHARDT.63 1566 CORNIGAN.65	0384 CORRIGAN.58	H2	0041 NEWMALL.42 1410 RAPP.65	1105 ENBLANDER-GOLDEN.64 1858 ADAMCZYK.66
H2 1	1501 DUNN.65	1503 DUNN.65	O2	0946 GLICK.64 1410 RAPP.65	1105 ENBLANDER-GOLDEN.64
O2	0376 LASSETTRE.54 1075 SILVERMAN.64	0377 SILVERMAN.57 1460 RAPP.65	H2	0193 COOK.62 1105 ENBLANDER-GOLDEN.64	0946 GLICK.64 1410 RAPP.65
H2	0992 SHERIDAN.61		H2O	1782 SCHUTTEN.66	
H2O	0382 LASSETTRE.58		N O	0946 GLICK.64 1410 RAPP.65	1105 ENBLANDER-GOLDEN.64
N O	1460 RAPP.65		H2O	1105 ENBLANDER-GOLDEN.64	1410 RAPP.65
H2O	1460 RAPP.65		C O2	1105 ENBLANDER-GOLDEN.64	1410 RAPP.65
C O2	1460 RAPP.65		C O	1105 ENBLANDER-GOLDEN.64	1410 RAPP.65
C O	1460 RAPP.65		C H4	0946 GLICK.64 1410 RAPP.65	1105 ENBLANDER-GOLDEN.64 1858 ADAMCZYK.66
O2	0260 ENGELHARDT.63		O2	1105 ENBLANDER-GOLDEN.64	
RELATIVE			RELATIVE		

DISSOCIATIVE IONIZATION		EXPERIMENTAL	RADIATIVE ATTACHMENT		EXPERIMENTAL
RELATIVE			RELATIVE		
M2	0007 SASAKI,35 0041 NEWMALL,42 0130 SASAKI,41 0214 MAGSTRUM,41 0304 DUNN,63 0456 BAUER,47 0660 KALLMANN,27	0009 BLEAKNEY,30 0107 MAGSTRUM,51 0135 SASAKI,35 0255 SHYTH,24 0451 STEVENSON,50 0465 SCHAEFFER,50 1402 LOZIER,50	F	1774 POPP,65	
O2	0107 MAGSTRUM,51 0255 SHYTH,24 0526 FROST,59	0214 MAGSTRUM,41 0341 FROST,59 0778 DORMAN,60	I	0830 STEINER,64	
M2	0017 VAUGHAN,31 0214 MAGSTRUM,41 0667 TATE,32 0953 STEWART,55	0107 MAGSTRUM,51 0660 KALLMANN,27 0854 CLARKE,44 1843 BRIGLIA,64	RADIATIVE ATTACHMENT		THEORETICAL
M20	0298 SJOHREN,63 0924 HANN,40	0403 COTTIN,59	NORMALIZED		
M H3	0924 HANN,40		M	1166 JEN,33 1316 LOCHE-HOLTGREVEN,50	1700 MASSEY,36
N O	0107 MAGSTRUM,51 0481 CLOUTIER,59 1691 DORMAN,66	0214 MAGSTRUM,41 1510 HANSON,37	O	0247 YAMANOJCHI,40 1180 MASSEY,43	1141 BATES,43 1197 BRANSCOMB,57
CL2	0526 FROST,59	0708 FROST,40	NA	0297 HUANG,45	1300 MASSEY,36
M20	1067 CURRAN,61	1691 DORMAN,66	CL	1300 MASSEY,36	
C O	0017 VAUGHAN,31 0214 MAGSTRUM,41 0778 DORMAN,66 1096 HUGHES,26	0107 MAGSTRUM,51 0667 TATE,32 0941 FINEMAN,62 1742 CUTHBERT,66	M6	1300 MASSEY,36	
M2	0708 FROST,40		DISSOCIATIVE RECOMBINATION		
M CL	1510 HANSON,37		EXPERIMENTAL		
C M4	0527 GEEK,55 1691 DORMAN,66	0539 HAYAKAWA,55	NORMALIZED		
I2	0526 FROST,59 0778 DORMAN,60	0708 FROST,40	O2	1344 BIONDI,64	
C CL4	0133 FOX,61 1231 CRABBS,52	0950 HARRIOTT,54	M2	0698 FAIRE,58 1344 BIONDI,64	0703 BIALECKE,50
O2	0456 BAUER,47	0465 SCHAEFFER,50	M H3	0887 COURT,64	
C2M4	0539 HAYAKAWA,55		N O	0920 OGERING,62	
S F6	0133 FOX,61		M2	1344 BIONDI,64	
B CL3	1110 HARRIOTT,57		AR2	1344 BIONDI,64	
M202	1132 FONER,62		KR2	0254 RICHARDSON,52	
C2M2	1224 STEVENSON,50		CS2	0177 HAMMER,63	
M C N	1224 STEVENSON,50		N4	1344 BIONDI,64	
T	0465 SCHAEFFER,50		DISSOCIATIVE RECOMBINATION		
DISSOCIATIVE IONIZATION		THEORETICAL	THEORETICAL		
RELATIVE			NORMALIZED		
M2	0342 STEVENSON,47 1144 DE LA RIPELLE,40	0304 DUNN,63	M2	0368 BAUER,56	1665 WILKINS,60
O2	0342 STEVENSON,47		O2	0180 WISBEY,63	
RADIATIVE ATTACHMENT		EXPERIMENTAL	N O	0180 WISBEY,63 1402 BIRNONS,63	3570 SQUINES,61
NORMALIZED			RADIATIVE CAPTURE		
M	0000 BRANSCOMB,62	1000 BRANSCOMB,62	EXPERIMENTAL		
O	0033 BRANSCOMB,58 1000 BRANSCOMB,62	0000 BRANSCOMB,62	NORMALIZED		
M6	1270 MEY,30		M	0241 FOWLER,59	0746 CRABBS,47
O2	0000 BRANSCOMB,62	1000 BRANSCOMB,62	AR	0395 KENTY,30	0060 WILES,61
			KR	0060 WILES,61	
			KE	0060 WILES,61	
			CS	1213 MOWLER,70	
			M2	0882 JOHNSON,50	
			RELATIVE		
			AP	0060 WILES,61	
			KR	0060 WILES,61	
			KE	0060 WILES,61	

RADIATIVE CAPTURE		THEORETICAL	VIBRATIONAL EXCITATION		EXPERIMENTAL
NORMALIZED			NORMALIZED		
M	1 0146 BATES.67 0356 ZANSTRA.46 1010 STUECKELBERG.30	0243 BATES.70 0444 BATES.62 1414 LANE.64	DZ	0266 ENGELHARDT.63	
ME	1 0715 BURGESS.60	0960 ZHIM.62	CZM4	1478 GEIGER.65	
O	1 0243 BATES.39 1180 MASSEY.63	0934 BREENE.61	RELATIVE		
M0	9 0455 HILL.51		M2	0686 RANIERI.31	
CA	1 0960 ZIRIN.62		MZ	0898 MARRIES.27 0328 SCHULZ.59	0299 SCHULZ.63 1021 SCHULZ.62
FE	13 0455 HILL.51		M20	0932 SCHULZ.61	
SR	1 0960 ZIRIN.62		C O2	1665 ROERSCH.64	
CS	1 1805 NORCROSS.66		C O	0898 MARRIES.27	0328 SCHULZ.59
RELATIVE					
M	1 0295 CILLIE.32				

ROTATIONAL EXCITATION		EXPERIMENTAL	VIBRATIONAL EXCITATION		THEORETICAL
NORMALIZED			NORMALIZED		
M2	0260 ENGELHARDT.63	1043 FROST.42	M2	0843 WU.67 0434 CARSON.54 0962 CHEN.62 1564 BREIG.65	0184 MASSEY.38 0724 TAKAYANAGI.64 1488 TAKAYANAGI.65
M2	0181 FROST.42 0316 ANDERSON.56	0218 ENGELHARDT.64	M2	0482 KERNER.53 1964 CHEN.64 1452 CHEN.66	0895 CHEN.64 1564 BREIG.65
O2	0260 ENGELHARDT.63		MZ:	1478 GEIGER.65	
RELATIVE			C O2	1478 GEIGER.65	
M2	0042 BENNETT.42		C O	1564 BREIG.65	
			CZM4	1478 GEIGER.65	
			RELATIVE		
			M2	1331 MERZEMBERG.62	

ROTATIONAL EXCITATION		THEORETICAL	DISSOCIATIVE ATTACHMENT		EXPERIMENTAL
NORMALIZED			NORMALIZED		
M2	0392 BERJUDY.58 0762 DALGARNO.65 1452 TAKAYANAGI.65 1666 BELTMAN.64	0434 CARSON.54 1093 TAKAYANAGI.64 1573 SAMPSON.65 1816 OKSYUK.64	M2	0324 SCHULZ.59 0960 RAPP.64 1451 RAPP.65	0657 KHVOSTENKO.58 1372 RAPP.64 1488 RAPP.65
O2	1477 TAKAYANAGI.65 1666 BELTMAN.64 1816 OKSYUK.64	1509 TAKAYANAGI.65 1676 SAMPSON.64	O2	0131 CHAMIN.59 0337 TOZER.58 0803 CRAGG.67 0936 ASUNDI.63 0960 RAPP.64 1200 SCHULZ.62 1809 CHRISTOPHEROU.65	0134 BUCHDAM.61 0756 BUCHELNIKOVA.59 0841 PRASAD.61 0943 THOMPSON.63 1195 ENGLANDER-GOLDEN.64 1466 RAPP.65
M20	0365 ALTMULLER.67	0482 KERNER.53 1341 DALGARNO.63 1573 SAMPSON.65 1816 OKSYUK.64	M20	0764 BUCHELNIKOVA.59	1016 MURST.61
M3	0365 ALTMULLER.67		N O	0960 RAPP.64 1466 RAPP.65	1195 ENGLANDER-GOLDEN.64
C C	0724 TAKAYANAGI.64		M20	0960 RAPP.64 1466 RAPP.65	1195 ENGLANDER-GOLDEN.64
			C O2	0965 CRAGG.68 0960 RAPP.64 1200 SCHULZ.62	0936 ASUNDI.63 1195 ENGLANDER-GOLDEN.64 1466 RAPP.65
			C O	0967 CRAGG.68 0960 RAPP.64 1200 SCHULZ.62	0936 ASUNDI.63 1195 ENGLANDER-GOLDEN.64 1466 RAPP.65
			M CL	0764 BUCHELNIKOVA.59	
			I2	0134 BUCHDAM.61 0841 GEIPE.62	0841 BUCHDAM.61 1064 BUCHDAM.61
			M B	1451 RAPP.65	1466 RAPP.65
			O2	1372 RAPP.64 1466 RAPP.65	1451 RAPP.65
			S F6	0960 MICHAM.66	1466 RAPP.65

VIBRATIONAL EXCITATION		EXPERIMENTAL
NORMALIZED		
M2	0260 ENGELHARDT.63 1043 FROST.42	0964 SCHULZ.64
O2	1310 SCHULZ.62	
M2	0715 BURGESS.60 0564 SCHULZ.64	0686 MASSEY.67
M20	1478 GEIGER.65	
C O2	1478 GEIGER.65	
C O	0964 SCHULZ.64	

DISSOCIATIVE ATTACHMENT		EXPERIMENTAL	TOTAL SCATTERING		EXPERIMENTAL
NORMALIZED			NORMALIZED		
M 02	0770 FOX.60		M	0305 MAECKER.55 0456 DRAVIN.56 5502 WIESE.63 1010 WEYNABER.61	0322 BRACKMAN.50 0493 KOLLATH.62 0530 HAMMER.66
M BR	0764 MULLERIKOVA.59		ME	0001 BRODE.25 0077 MAYER.21 0074 RAMSAUER.21 0084 RAMSAUER.29 0116 FUCHTBAUER.34 0101 PALMER.31 0106 RAMSAUER.23 0201 TOWNSEND.23 0249 CHEN.61 0312 PHELPS.51 0317 ANDERSON.56 2530 PACK.61 0637 LANGMUIR.20 0846 GOLDB.65 0995 GOODRICH.37 1062 FROST.64 1073 HARRIS.63 1501 KOZLOV.65	0010 NORMAND.30 0573 RAMSAUER.21 0002 BRUCHE.27 0094 RAMSAUER.32 0160 WRENN.30 0174 KOLLATH.20 1102 FRANCIS.67 0233 DOUGAL.58 0306 ANDERSON.55 0314 GOLDB.54 0454 DRAVIN.56 0504 MIRSCHIELU.56 0619 BOWE.60 0800 PHELPS.48 1041 BULEVICZ.62 1348 GOLDB.65 1409 CHOMPON.05 1706 KOZLOV.65
SB CL3	1270 BROWN.63		ME	0806 WEYNABER.64	
RELATIVE			ME	1223 DOUGAL.58	0306 ANDERSON.55
M2	0272 BRASEFIELD.20	1592 SCHULZ.65	LI	0016 PEREL.62	
02	0010 TATE.32 0106 MUSCHLITZ.57 0214 MAGSTRUM.61 0301 FROST.59 0499 FROST.59	0107 MAGSTRUM.51 0167 RANDOLPH.58 0200 FITE.63 0520 FROST.59 1525 FITE.65	C	0305 MAECKER.55	
02	0200 FITE.63		M	0026 WEYNABER.63	0305 MAECKER.55
M20	0010 TATE.32 0324 SCHULZ.59 0558 SCHULZ.66 0937 KHVOSTENKO.58 1709 TREPKA.63	0200 SJOBERG.63 0403 COTTIN.59 0924 HANN.64 1117 MUSCHLITZ.56	D	0305 MAECKER.55 1013 WEYNABER.61 1577 DAIBER.65	0325 LIN.50 1400 SUNSHINE.05
M3	0024 HANN.64		F	0550 MAECKER.56	
M 0	0010 TATE.32 0214 MAGSTRUM.61 1203 FROST.59	0107 MAGSTRUM.51 0401 CLOUTIER.59 1510 HANSON.37	ME	0010 NORMAND.30 0002 BRUCHE.27 0004 RAMSAUER.29 0116 FUCHTBAUER.34 0106 RAMSAUER.23 0637 LANGMUIR.20 1019 CHEN.64 1400 GILARDINI.57	0074 RAMSAUER.21 0004 BRUCHE.29 0094 RAMSAUER.32 0174 KOLLATH.20 0312 PHELPS.51 0619 BOWE.60 1041 BULEVICZ.62 1473 HARRIS.63
C2H2	0010 TATE.32		NA	0006 BRODE.29	0016 PEREL.62
CL2	0520 FROST.59	0700 FROST.60	AR	0001 BRODE.25 0072 MAYER.21 0074 RAMSAUER.21 0076 RUSCH.20 0084 RAMSAUER.29 0095 RAMSAUER.32 0106 GREEN.30 0175 GAERTNER.31 0197 TOWNSEND.22 0292 ENGELHARDT.64 0454 DRAVIN.56 0530 HAMMER.56 0819 BOWE.60 1007 BRODE.32 1062 FROST.64 1577 DAIBER.65 1752 WAMLIN.31 1891 ABERTH.63	
M20	0347 KNOX.58 1067 GURMAN.61	0932 SCHULZ.61 1116 RUOLPH.59	K	0006 BRODE.29	0016 PEREL.62
C 02	0847 ASENHUT.64		FE	0305 MAECKER.55	
C 0	0017 VAUGHAN.31 0107 MAGSTRUM.51 0801 CLOUTIER.59 0941 FINEGAN.62	0010 TATE.32 0214 MAGSTRUM.61 0667 TATE.32	ZM	0008 BRODE.30	0046 BRODE.25
BR2	0700 FROST.60		KR	0075 RAMSAUER.23 0095 RAMSAUER.32 0174 KOLLATH.20 0312 PHELPS.51 0819 BOWE.60	0006 RAMSAUER.29 0110 FUCHTBAUER.35 0106 RAMSAUER.23 0439 PACK.62 1062 FROST.64
M CL	0699 FROST.58 1510 HANSON.37	1119 FOX.57	RB	0006 BRODE.29	
C H4	1709 TREPKA.63		CD	0008 BRODE.30	0046 BRODE.25
I2	0467 FOX.58 1120 FROST.59	0700 FROST.60	XE	0075 RAMSAUER.23 0095 RAMSAUER.32 0106 RAMSAUER.23 0439 PACK.62 1062 FROST.64	0006 RAMSAUER.29 0117 FUCHTBAUER.35 0312 PHELPS.51 0819 BOWE.60
P H3	1103 EBINGHAUS.64		CS	0006 BRODE.29 0132 MORGULIS.63 0182 CHEN.62 0768 MULLANEY.61 0785 ROELING.63 0872 MEYERAND.64	0016 PEREL.62 0140 HIRLIN.62 0764 BOECKNER.33 0769 FLAVIN.63 0850 FLAVIN.63 1473 HARRIS.63
C CL4	0133 FOX.61 1231 CRAIGS.52	0950 HARRIOTT.54			
C2H4	1709 TREPKA.63				
M F	0699 FROST.58				
C2H6	1709 TREPKA.63				
S F6	0133 FOX.61 0699 FROST.58 1239 AHEARN.53	0401 CLOUTIER.59 0971 CURRAN.61			
M I	0699 FROST.58				
B CL2	1118 HARRIOTT.57				
M BR	0699 FROST.58				
C2N2	1230 MCDOWELL.52	1231 CRAIGS.52			
C F4	1231 CRAIGS.52				
03	1060 CURRAN.61				
AS H3	1103 EBINGHAUS.64				
SI H4	1103 EBINGHAUS.64				
	DISSOCIATIVE ATTACHMENT	THEORETICAL			
	NORMALIZED				
M2	0207 CHEN.63				

TOTAL SCATTERING		EXPERIMENTAL	TOTAL SCATTERING		EXPERIMENTAL
NORMALIZED			NORMALIZED		
CS 1	0764 BROECKHE+33		C2#4	0005 BRUCHE+29 0005 FORESTER+61	0203 BARNON+20
M6	0021 TATE+32 0047 BRUCE+29 0117 FUCHS+TRAEGER+35 0160 GREEN+37 0172 BRUCE+27 0637 LAMMUTH+28 1746 HALL+26	0046 BROCKE+25 0069 ARNOT+35 0157 JONES+26 0161 PALMER+31 0590 MCCUTCHEON+50 0675 SIMONS+30	C2#6	0009 BRUCHE+30	
TL	0013 BRUCE+31		S O2	0007 BAYES+62	
M2	0001 BRUCE+25 0072 WILSON+21 0077 RAMSAUER+30 0087 RAMSAUER+30 0094 RAMSAUER+32 1174 KOLLATH+28 1181 FROST+62 0100 BERNSTEIN+62 0199 TOMSEN+22 0312 WELPS+51 0366 BERKELEY+50 0530 HAMMER+56 0605 FORESTER+61 1375 GOLDEN+65 1787 GOLDEN+66	0010 NORMAN+30 0073 RAMSAUER+21 0079 BRUCHE+27 0093 RAMSAUER+30 0100 GREEN+31 0175 GREEN+4,31 0186 RAMSAUER+23 0195 TOMSEN+21 0240 JAMERIN+51 0352 CHAMPTON+52 0630 PACK+61 0637 LAMMUTH+28 1043 FROST+62 1507 DUBOVI+60	C H3CL	0091 HOLST+31	
O2	0007 RAMSAUER+30 0259 BRUCHE+27 0846 ABERTH+64 1091 ABERTH+63	0195 TOMSEN+21 0377 SILVERMAN+57 1577 DAIHER+65	M C N	0607 BAYES+62	
M2	0001 BRUCE+25 0026 NEYHARD+63 0072 WAYER+21 0077 BRUCHE+26 0087 RAMSAUER+30 1181 FROST+62 0195 TOMSEN+21 0312 WELPS+51 0352 CHAMPTON+52 0637 LAMMUTH+28 0605 FORESTER+61 0846 ABERTH+64 1041 BALEVITZ+62 1473 HARRIS+63 1591 KOZLOV+65 1891 ABERTH+63	0010 NORMAN+30 0037 FISK+37 0073 RAMSAUER+21 0079 BRUCHE+27 0174 KOLLATH+29 0186 RAMSAUER+23 0210 ENGELHARDT+64 0316 ANDERSON+56 0530 PACK+61 0604 HAAS+57 0607 BATES+52 0902 STUTZ+63 1043 FROST+62 1577 DAIHER+65 1786 KOZLOV+65	RELATIVE		
M20	0004 BRUCHE+29 0607 BAYES+62	0439 PACK+62 1450 TAKEDT+60	ME	0400 HUGHES+35	
M H3	0004 BRUCHE+29 0607 BAYES+62	0439 PACK+62	ME	0126 RUSCH+25	0171 ZACHMANN+27
N O	0200 SKINKER+23	0259 BRUCHE+27	AR	0126 RUSCH+25	0320 RUBIN+09
C2#2	0005 BRUCHE+29		CO	0100 HINNOUSKI+23	
CL2	0037 FISK+37	0602 BAILEY+35	M6	0163 PEARSON+31 0404 KESSLER+65	0100 HINNOUSKI+23
M20	0093 RAMSAUER+30 0174 KOLLATH+28 0259 BRUCHE+27 0607 BAYES+62	0159 BAILEY+32 0200 SKINKER+23 0439 PACK+62	M2	0126 RUSCH+25 0171 ZACHMANN+27	0170 BAERHALP+25
C O2	0072 WAYER+21 0087 RAMSAUER+30 0094 RAMSAUER+32 0198 SKINKER+22 0439 PACK+62 0607 BAYES+62	0001 RAMSAUER+27 0093 RAMSAUER+30 0174 KOLLATH+28 0259 BRUCHE+27 0605 FORESTER+61	O2	1013 KEYNARD+61	
C O	0001 BRUCE+25 0087 RAMSAUER+30 0174 KOLLATH+28 0259 BRUCHE+27	0010 NORMAN+30 0094 RAMSAUER+32 0200 SKINKER+23 0439 PACK+62	C H4	0209 BLOCKLEY+24	
BR2	0603 BAILEY+37		TOTAL SCATTERING	THEORETICAL	
M CL	0000 BRUCHE+27		NORMALIZED		
C H4	0001 BRUCE+25 0087 RAMSAUER+30 0174 KOLLATH+28 0259 BRUCHE+27 0973 FROMMOLD+59	0004 BRUCHE+29 0009 BRUCHE+30 0192 FRANCIS+47 0605 FORESTER+61 1033 INK+65	ME	0000 O'ALLEY+63	
O4	0991 HOLST+31		LI	0910 DAMBURG+60	0000 KARULE+64
I2	0677 HEALEY+38		ME	1360 O'ALLEY+63	
C CL4	0991 HOLST+31		NA	0010 DAMBURG+60	
O2	0100 BERNSTEIN+52 1375 GOLDEN+65 1787 GOLDEN+66	0439 PACK+62 1420 HALL+55	AR	0060 O'ALLEY+63	0452 BRZYNSKI+59
			K	0010 DAMBURG+60	
			KR	0060 O'ALLEY+63	
			XE	0050 O'ALLEY+63	
			CS	0010 DAMBURG+60 1202 ROBINSON+62	1023 SALMONA+61

POSITRON PAPERS

IONIZATION

THEORETICAL

NORMALIZED

H 0649 CHESHIRE.64

TOTAL ELASTIC SCATTERING EXPERIMENTAL

NORMALIZED

HE 1196 HARPER.56
 HE 1196 HARPER.56
 AR 1196 HARPER.56

TOTAL ELASTIC SCATTERING THEORETICAL

NORMALIZED

H	0003 BURKE.63	0148 DAMBURG.63
	0204 YERKIN.62	0490 SCHWARTZ.61
	0536 ROTENBERG.62	0789 DUFFIN.60
	0659 SMITH.61	0905 HASSEY.58
	0906 MOUSSA.59	0917 SPRUCH.60
	1015 SMITH.61	1025 KINGSTON.61
	1102 DRACHMAN.65	1210 NOISEWITSCH.58
	1022 MCCACHMAN.65	1043 HAHN.60
	1090 ALLISON.61	1095 BRANSCH.62
	1099 HAHN.65	1500 KLEINMAN.65
	1571 STONE.66	1500 ARNSTEAD.65
	1930 KLEINMAN.65	
H	0059 SMITH.60	
HE	0905 HASSEY.58	1121 MALIK.61
	1195 TEUTSCH.56	1405 KESTNER.65
	1494 ALLISON.61	1819 DRACHMAN.65
C	1121 MALIK.61	
H	1121 MALIK.61	
O	1121 MALIK.61	
F	1121 MALIK.61	
HE	0905 HASSEY.58	1121 MALIK.61
	1195 TEUTSCH.56	
AR	0905 HASSEY.58	1121 MALIK.61
	1195 TEUTSCH.56	
U	6 1519 SINGH.62	
H2	0905 HASSEY.58	

DIFFERENTIAL ELASTIC SCATTERING THEORETICAL

NORMALIZED

H	0490 SCHWARTZ.61	0536 ROTENBERG.62
	0544 NOISEWITSCH.59	0906 MOUSSA.59
HE	0544 NOISEWITSCH.59	

ELECTRONIC EXCITATION THEORETICAL

NORMALIZED

H	0003 BURKE.63	0148 DAMBURG.63
	0859 SMITH.60	1257 NOISEWITSCH.65
H	0859 SMITH.60	

ELECTRON DETACHMENT THEORETICAL

NORMALIZED

H - 0576 RUDGE.64

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FORESTER D W	685					GOSSLER P	117				
FOWLER R G	241	742	912			GOULD L	314				
						GRAHAM W J	734				
						GRAY E P	391				

GREENBERG H 384 967
 GREEN G W 335
 GREEN M C 164
 GROB V C 1270
 GROSJEAN C C 828
 GRYZINSKI M 452 570 863 1614
 GUMA B K 1519
 GUIER W M 391
 GUK SIN SAN 1325
 GURCHUNELIYA A D 1516
 GUREVICH U B 929
 GYFTOPOULOS E P 1456
 HAAS R 684
 HADEISHI T 205 1239
 HAFNER H 1586
 HAFT G 111
 HAUGSTRUM H D 107 214
 HAMM Y 1443 1496 1499 1520
 HAIDT D 1528
 HALL B I M 1428
 HAMMERLING P 407
 HAMMER J M 177 538
 HANLE W 92 152 179 263 304
 HANNAY N B 1239
 HANSEN L K 1063
 HANSON E E 1518
 HANSON M P 1089 1509
 HANSON R J 522
 HARA Y 408 463 552
 HARKNESS R W 1896
 HARNWELL G P 158 230
 HARRIES W 98
 HARRISON M 974
 HARRISON M F A 261 264 987 1883
 HARRIS L P 1473
 HARRIS W 469
 HART R W 391
 HARUN-AR-RASHID A 1985
 HASHINO T 565 849
 HASTED J B 1492
 HASTINGS J M 465
 HAUPT C R 14
 HAYAKAWA S 1123 1987
 HAYAKAWA T 539
 HEALEY R M 677 682
 HEDD M 265
 HEDDLE D W O 519 886 922 1513
 HEIDEMAN H B M 516 1417 1527 1492 1693
 HEIL M 1878
 HELLUND E J 889
 HENDERSON B R 1525
 HENDRICKSON G B 1872

HENNFREB W 653 655
 HENRY R J W 702
 HERBENROTHER R C 1001
 HERRMANN O 988
 HERTZ G 663
 HERZENBERG A 1331
 HEY W 1279
 HICKAM W M 271 310 313 704 888
 HIGGINSON G B 518 871 1027 1088
 HILL E R 485
 HILL S 1287
 HIPPLE J A 213
 HIRSHFIELD J L 594
 HOBART J 618
 HODGES M L 1894
 HOERNI J A 572
 HOGNESS T R 1896
 HOLST W 991
 HOLT M K 1528 1677 1892
 HOLT M B 802
 HOLTSMARK J 99 104 185 991
 HOOPER J W 1421 1588
 HOPWOOD W 346
 HUANG K 297
 HUANG S S 127
 HUBER P 1833
 MUCK R J 580
 HUDSON R L 1132
 HUGHES A L 20 23 27 145 469
 628 629 726 1001 1004
 1277 1294
 HUGHES R H 554 787 1072
 HUGHES V W 1195 1196
 HUMMER D G 332 1037
 HURST G S 1016 1595
 HUSAIN D 1659
 HUSTALID A 924
 HUTCHISON D A 1215
 MUZINABA C 462
 IBERS J A 572
 INOKUTI M 218 1856
 INUI T 248
 IOLIN Y 1426
 ITOH T 765
 IVASH E V 378
 JAMODA F C 682
 JEFFERTS J T 963
 JEN C K 1166
 JESSE V P 625
 JHA R 1783 1784
 JOACHAIN C J 1644 1648 1788
 JOHN T L 418 898 1788
 JOHNSON R A 882

JONES E A 881 884 1265
 JONES F L 1297
 JONES H A 637
 JONES T J 4 157
 JONGERIUS H M 176 318 513 844
 JORDAN E B 219 1002
 JORTNER J 1488
 JORY R L 1489
 KALLMANN H 640
 KAMENETSKI V D 220 557 795
 KANEKO Y 1038 1039 1045
 KANG I J 1747
 KANOMATA I 1045
 KAPTSOV H A 607
 KAHLE J 875 983
 KAR K C 676 1283
 KARULE E M 148 844 990 1097 1426
 1469 1491 1515 1542 1547
 1884 1865
 KATO T 362
 KAY R B 554
 KEEFFE W H 654
 KEESING R W W 1512
 KENTY C 355
 KERNER E H 394 402
 KERR L W 1027
 KESSLER J 486 1574
 KESTNER N H 1485
 KHARE S P 1407 1408 1493 1862
 KHASHABA S 418
 KHVOSTENKO V I 957
 KIEFFER L J 364
 KING N H 436
 KINGSTON A E 146 350 444 549 825
 1025 1506 1595 1657 1694
 1851
 KINNEY J D 1104
 KISER R W 1137
 KISHKO S H 363 475 782 757 1047
 1648
 KISTEMAKER J 1281 1766 1782 1856
 KIVEL B 325 467 449 459
 KIVELSON D 687
 KJELDAAS T 310 784
 KLEINMAN C J 1569 1988
 KLEINPOPPEN H 832 1538 1886 1803
 KLEIN N H 389 396 1138
 KNQA B E 367
 KOGAN V I 567
 KOLESNIKOV V M 493
 KOLLATH B 86 87 93 94 95
 120 176
 KROLS V 298 890
 KODMS H C 1024
 KOPPE V T 1841

KORCHEVOI YU P 132 1910
 KOVAL A B 1841
 KOZLOV G I 1891 1786
 KRALL N A 448
 KRASHOV H E 372 373 375 376 381
 794 798 800 812
 KRAUS K 1163
 KRAUSS H 5 528
 KRAVCHENKO V 810
 KROFF A 5
 KROTKOV R 1528 1677
 KRUEGER T K 442 1922 1943
 KRUGER H 532 1538 1886
 KRUITHOF A 270
 KUCHINKA M YU 752
 KULANDER J L 1058
 KUMAZAKI T 1987
 KUMMEL W B 759
 KUPRIYANOV S E 713 723 1776
 KURALOVA A V 474
 KUREPA H V 743 938 1484
 KUYATT C E 308 692 1085 1347 1471
 1527 1692 1693 1896
 KYLE H L 904 908 1898
 LABAHN R W 976 1376 1827
 LAMHANI H 1124
 LANG V E 227
 LAMYIN J C 1038
 LAMPE F W 346 1100
 LANE F O 597
 LANE N F 568 1251 1414
 LANGSHIR I 637
 LANGSTROTH G O 632 1298 1312
 LARCHE K 105
 LASHMORE-DAVIES C 1788
 LASSETTRE E N 372 373 374 375 376
 377 378 379 380 381
 382 383 612 794 798
 799 800 801 802 803
 813 897 1075 1091 1268
 1401 1418 1419 1480 1481
 1567 1663 1679 1743 1824
 1887
 LATIMER I D 1884 1771 1916
 LATYPOV Z Z 713 783
 LATYSCHIEFF G D 102
 LAUER J E 1687 1891
 LAUSON J 728 833
 LAUSON W 722
 LEE A H 634
 LEE E T P 1348
 LEES J H 84 687
 LEOPOLD W 921
 LEIBY C C 240
 LEIPNICKI A 162 1270
 LEMANDER C J 1688
 LE GENTIL H C L 461

LEVIN F S	1086				
LEWIS B A	1530	1653			
LICHTEN W	327				
LILIENTHAL D	82				
LINDEMAN H	110	112	269		
LINDER F	1508				
LINDER H	486	1535			
LINERBERG W C	1421	1568			
LIN CHUN C	485	564	568	942	1049
	1109	1251	1345	1564	
LIN M E	25				
LIN S C	325				
LIPPELES H	1871				
LIPPMAN B A	1033				
LISKA J W	29				
LLEWELLYN J A	946				
LOCHE-HOLTGREVEN	1316				
LONGHIRE P S	551	1480			
LOS-KOZLOWSKI T	1793				
LOVENIUGL L E	141				
LOWE P	628	629			
LOZIER W W	667	1402			
LUCAS C M	519				
LUNT R W	652				
LYASH A V	1554	1555	1576	1966	1867
LYNN N	563				
LYUBIMOV A P	1081				
MACHAIR D	1094				
MAECKER H	305	559			
MAGGE J L	962				
MAHAN B H	920				
MAIER-LEIGNITZ M	119				
MAIMAN T H	227				
MARINSON M E B	683				
MALASPINA L	1578				
MALESSET C	986				
MALIK F W	520	864	879	1046	1114
	1121	1859			
MANGL F	1331				
MANN J B	566	1261			
MANN M H	924				
MANN R A	36	959			
MAHCH N M	421				
MARDER S	1194				
MARINO L L	26	868	978	1013	1018
MARRIOTT J	950	1118			
MARRIOTT R	420	426	866	1654	
MARTIN J M	1057				
MARTYNIENKO YU V	818				
MASSEY M S W	49	51	53	74	61
	62	64	68	75	71
	138	139	184	194	234
	243	251	267	284	348
	398	405	418	428	438
	441	458	460	616	845
	905	933	1141	1140	1388

MATOKA I	760				
MATSUDA H	565	849			
MAURFR W	880				
MAXWELL L R	1746				
MAYER M F	72				
MAZING M A	1909				
MCCARROLL R	44	162	424	670	1532
	1877				
MCCLOURE B T	802				
MCCONKEY J W	1504	1771	1916		
MCCOYD G C	103	446			
MCCRFA D	413				
MCCUTCHEN C W	598				
MCDANIEL E W	1421				
MCDONOGALL J	55				
MCDOWELL C	341	523	524	526	699
	788	1120	1230	1231	1263
MCDOWELL M R C	307	470	673	1102	1110
	1246	1256	1299	1479	1697
MCEACHRAN H P	971	744	855	1022	1422
MCFADDEN T	211				
MCFANLAND R M	492	510	521	747	1973
	1104	1484	1502		
MCGOWAN W	1089	1415	1508	1509	1512
MCHARRIS O A	1339				
MCINTYRE H A J	1494				
MCKEE J S C	425	429			
MCKIRGAN T Y M	413				
MCLAUGHLIN J C	1152				
MCMILLEN J H	11	20	23	37	30
	185	726	1004		
MCVICAR D D	669	1080	1340		
MCHWITER R W P	146	444	602		
MEHLHORN W	1839				
MEISTER G	1470	1529	1588		
MELTON C E	958	1116			
MENZEL D M	265				
MEYERAND R G	769	850	872		
MEYER R D	1489				
MEYER V D	551	612	1205	1418	1419
	1679	1887			
MICHAEL J A	1165				
MICHEL S W C	15	226			
MIELCZAREK S R	1085	1347	1373	1471	1456
MIES F W	969				
MILINA J	365				
MILATZ J M W	122	125	268		
MILFORD S W	103	445	446	540	919
	1858				
MILLER F L	1649	1455			
MILLER W D	1374				
MILLER W F	859				
MINKOWSKI R	178	180			
MIRLYN D N	149				
MISKELLY D	423				
MITRA S R	928				

HITLERMAN M H	983	1044	1045	1073					
HJOLSHNESS R C	1082	1073	1075						
HOFFETT R J	1301								
HOMER F L	279	764	1213						
HOMR C B O	81	54	58	59	81				
	63	66	68	130	150				
	284	441	616						
HOISEWITSCH B L	349	350	351	367	398				
	405	438	459	480	471				
	495	540	549	822	914				
	1024	1219	1257	1408	1493				
	1494	1710	1770	1862					
HOMAHAN J E	331								
MOORES D	1448								
HORAND H	461								
HORGLIS H D	132								
HORRISON J D	242	778	1060	1069	1070				
	1107	1100	1244						
HORRISSEY J J	919								
HORSE P M	25	106	639	1010					
HOTT N F	48	136							
HOUSSA A M	985	906							
HOUSTAF A M R	1690	1740	1782						
HUMMERJEE S C	513	1040	1199						
HULLANCY B J	708								
MULLER-DUTSING W	1163								
MULLER F	1530								
HUMFORD A J P	859								
MURAYEV V T	977	981							
MUSCHLITZ E E	166	1117							
MUSHA T	765								
MYERSCOUGH V P	1102	1110	1299	1539	1569				
NABAHARA S	411								
NAKAO T	7	33	130	135					
NALL B H	1034								
NARDONE M C	574	936							
NEVERT M	527	1163	1709						
NEU H	147								
NEWMALL H F	41								
NEWTON A S	1301								
NEYHABER R	26	860	978	1013	1010				
	1268								
NICHOLSON A J C	242	778	1069						
NICOLL F M	58	59	63	66	137				
NIERENBERG W A	1339								
NIIRA K	294								
NISBET J S	189								
NISHIMURA H	1123	1700	1830	1987					
NOLAN J F	1467								
NORCROSS D W	1005								
NORMAND C E	10								
NORMAN B E	1039								
NOTTINGHAM W B	40								
NOVICK R	773	1071							
NOVOBRANTSEV I V	560								
NUTT O L	897								
OBEDYOV V O	1007								
ODENOV-DEWISOV V	493								
ODKAR V I	349	718	935	1215	1541				
	1682	1886							
ODNEBA H	561								
ODNEPA T	408	403	532	561					
OKELLY L B	1016								
OKSTUN YU D	1016								
OLDENAN J	112								
OLDENBERG O	992								
OLMSTED J	1301								
OMALLEY T F	60	321	1084	1443	1490				
ONIDVAR K	537	553	848	1071	1450				
	1486	1526							
OPIN U	432								
OPYNTIN V	1013								
ORIENT O J	1017								
ORONDE S	1710	1846	1859						
ORNSTEIN L S	160	110	112	268	269				
	270								
OSTENSEN F	229								
OSTERBROCK D E	843								
OTSUKA M	1007								
OTVOS J W	539								
PACK J L	439	536	800						
PALMER R R	21	101							
PAVLOV S I	1001								
PEACH B	873	1273	1299	1654	1655				
PEARSON J M	163								
PECUL K	250								
PEEK J M	1035	1405							
PENKIN M P	1752								
PENNEY W B	19								
PERCIVAL I C	102	427	586	740					
PEREL J	16	329							
PERRIN R	1257								
PETERKOP R K	97	101	128	154	276				
	507	542	829	852	850				
	990	1120	1135	1449	1505				
	1515	1550	1552	1864	1905				
	2002								
PETERSON J R	153	831							
PETERS T	305								
PETRINI D	1076								
PETROCELLI A W	941								
PETROV IV V	360								
PETRUNKIN A M	1115								
PHELPS A V	131	181	210	260	292				
	312	439	530	569	600				
	888	1043	1062	1407					
PHILBRICK J W	1090								
PIACEVE V	1570								
PIKUS B E	149								
PILYANKEVICH A N	884								
PIPKIN F M	822	1346							
POMLE R	503								
POMILLA F R	448	820	1522						

POPP H P	1774				
PORTEUS J O	837				
POTTIE R F	1687				
POULTNEY F C	126				
PRAMALLADA BAO B	1742				
PRASAD A H	861				
PRASAD A	642				
PRASAD S S	642	1262	1056		
PREECE E R	1742				
PRESNYACOV L	824	1061	1076	1013	
PRESSLEY G A	1074				
PRIESTLY W	293				
PRZHONGILII A M	1910				
PU R T	903				
QUINN T P	199				
RABIK L L	1576	1074	1056	1067	1060
RAETHER M	102				
RAFF L H	1411				
RAFIQULLAH A R	1659				
RAIBLE V	1593				
RAKHOVSKII V I	1001				
RAHJEN M	606				
RAHSAUER C	73	74	75	81	86
	87	93	94	95	129
	106				
RANDOLPH P L	167				
RAPP D	900	1105	1164	1242	1372
	1396	1410	1451	1459	1460
RAY B B	920				
REDKO T P	1750				
REESE R H	466	525			
REICHERT E	1111	1427	1431	1506	
REICH H J	1753				
REINERS H J	110				
REINHARDT P W	1565				
REITZ J R	359				
REVALD V F	1531	1504			
RIBE F L	642				
RICE S A	1485				
RICHARDSON J M	254				
RIDLEY R O	428				
RIEDE D	303	304			
RIMEHART E A	554				
RISK C J	210				
ROBBEN F	759				
ROBINSON B B	1463				
ROBINSON L B	387	812	1202		
ROBINSON P D	545				
ROEHLING D	705				
ROSCOE R	45	1311			
ROSENBERG L	301	917	1004		
ROSE D C	1475				
ROTENBERG M	836				
ROTHENSTEIN W	445				
ROTHE E W	26	800	970	1013	1018
	1200				
ROZBACHEV K I	1290				
RUBIN K	320				
RUBBERG E	1157				
RUDO J B	159				
RUDRE H R H	57	523	574	1044	1772
	1773	1040	1040		
RUDOLPH P	1110				
RUFFINE R S	709				
RUPPE A J	734				
RUSCH H	76	126			
RUSSEK A	1343				
SACHS V	303				
SALEMO J A	1787				
SALMONG A	499	1023	1052	1520	1507
SAMPSON O H	1002	1573	1676		
SANDS B	610				
SARAPH M	160	954	1025		
SASAKI M	7	73	130	135	
SAVYER G A	602				
SAVERS J	807				
SCANLON J H	910	1050			
SCHAFFER O A	405				
SCHAFFERNICHT W	92	202			
SCHENK M	305				
SCHENTER R E	1094				
SCHY M H	83	151	918	1033	
SCHIFF H I	401				
SCHONFELDER J L	1424	1646			
SCHWAN B L	1201	1690	1705	1706	1740
	1050	1003			
SCHRODTER K	82				
SCHULTZ S	327	936			
SCHULZ B J	299	300	310	319	324
	320	517	529	556	932
	984	1021	1090	1249	1310
	1592	1924			
SCHULZ P	126				
SCHUTTEN J	1740	1782			
SCHWARTZ C	447	490	900		
SCHWARTZ S B	443	1772	1848	1849	
SCOTT B L	1461				
SCOTT R	1075				
SEATON K J	155	140	404	412	410
	422	431	453	484	533
	505	712	714	715	719
	721	722	740	843	889
	1023	1037	1440	1544	1632
SEILER R	114				
SEMAN M L	839				
SEVARD R P	675				
SHAPIRO J	828				
SHARP T E	1372	1451			
SHAN C H	1191				
SHELDON J W	1272				
SHEPELENKO F P	457				

SPERIDAN W F	992				
SPEYER V S	504	1079	1648		
SHIELDS D B	822				
SHILOFF J C	300	1401			
SIMON L L	504	1040	1078	1517	1648
	1742	1603	1001	1972	
SHINE H H	407				
SIMPENIK O B	1077	1521			
SHVETS O H	1507				
SIEMERTZ K	816				
SIL H C	515	1600	1703	1794	
SILVERMAN S H	372	373	374	374	377
	378	379	381	704	700
	799	800	803	857	1075
	1091	1043	1743		
SIMONS J H	675				
SIMPSON J A	300	692	1085	1307	1373
	1471	1527	1856		
SINGH B	1519				
SJOGREN H	290				
SKEARLE A	612	960	1410	1419	1401
	1824	1807			
SKINNER H F	190	200			
SKINNER B G	350	549	1025		
SKINNER H	651				
SKUBENICH V V	1047				
SLOAN I H	845	1092	1302		
SMIRNOV B H	1704				
SMITH A C H	1260	1003			
SMITH K	83	669	859	896	933
	1015	1022	1000	1345	1710
SMITH L G	35				
SMITH P T	10	216	224	224	
SMITH R A	1300				
SMITH S J	20	922	1406		
SMIT C	361	513	516	1570	
SMIT J A	223	315	361	513	516
	546				
SMYTH H	255				
SNYDER T H	1191				
SOPELHAN I	820	1061			
SOLIYSIK E A	492	510	521		
SOMERVILLE J H	683				
SOMERVILLE W B	497	534	1074		
SOSHNIKOV A K	1600				
SPONER H	170				
SPRUCH L	301	917	1084	1443	1496
	1499	1500			
SQUIRES B E	579	1402			
STABLER R C	671				
STACEY B H	1770				
STAFFORD F E	1074				
STANTON H E	331				
STANTON R L	564				
STAROSTIN A H	716				
STAUFFER A D	307	1246			
STAVER T B	543				
STEPHENS R F	326	332	1031	1009	
STEIDL H	1431	1596			
STEINER B	839				
STEIN S	392	401			
STEPINSH P	835				
STEVENSON D	213	339	342	451	1224
STEWART D T	333	334	338	953	
STICKEL W	1065	1597			
STOMP P H	359	1571	1805		
STOY7 K C	902				
STREFT K	1301				
STROMMEIER B	121				
ST JOHN R H	405	594	742	912	942
	1049				
STUBER F A	1453				
STUECKELBERG E C	1010				
SUGIWARA T	539				
SULLIVAN E	512	898			
SUNSHINE G	826	1490			
SUNAL D P	1680				
SUTTON D J	352				
SWAN P	430	433			
SWEENEY J P	564				
SWICK D A	983				
TAIT J H	1416	1653			
TAKAYANAGI K	724	1093	1452	1477	1488
	1500	1666			
TAKEDA S	1450				
TALBOT L	759				
TATE J T	10	21	214	216	647
	924				
TAYLOR A J	874	1416	1436	1524	1536
	1047				
TAYLOR J E	67				
TEMKIN A	204	490	498	503	512
	706	904	908	1030	1051
TEUTSCH W B	1195				
THALER R H	1894				
THIEME O	108				
THOMAS J J	177				
THOMAS L H	42				
THOMPSON J B	943				
THOMPSON N	989				
THOMENANN P C	261	294	907		
THORBURN R	337	853	956		
TIIBBS S R	70				
TIEN P K	1094				
TIETZ T	204	400	562	745	1176
	1483	1510	1511		
TISONE B C	1880				
TOLK N	1071				
TOPSCHOWSKY H	1585				
TOWNSEND J S	195	197	199	201	
TOZER B A	337	356	357	853	865
	867				
TREFFTZ E	143	870	1046	1114	

TREPNA L V	1789				
TRUJILLO S M	24	848	978	1013	1010
	1288				
TULLY J	775				
TUNITSKII N M	723				
ULMER R	932				
UNWIN J J	243				
VAINSHTEIN L	754	826	1061	1097	1074
	1546	1013			
VALASEK J	1275				
VAN DER NIEL P J	1281	1090			
VAN DE WALLE R T	838				
VAN EGMOND W	315				
VAN REBENHOUTER H	720	775	1053	1054	1122
VAN VOORHIS C C	2				
VAN VOORHIS S M	173				
VAN ZYL B	1501	1503			
VARNERIN L J	240				
VANSVAVY C	792	814	1017		
VAUGHAN A L	17				
VEKLENKO W A	560	716			
VELDME V	101	838	835	836	844
	1319	1426	1472	1507	1548
	1555	1576	1582	1674	
	1866	1867	1848		
VETTERLEIN P	96				
VINCENT D	421				
VINKALNS I ZH	844	1097	1472	1548	1582
	1878	1879			
VOLKOVA L M	344	414	474	504	749
	755	1533			
VON ENGEL A	336	354			
VOSMALL R E	439				
VOSS W	113				
VREDEBERG W J	361				
VREESWIJK J A	269				
VRIENS L	1060	1457	1468	1504	
VRUBLEYSKAYA M A	1909				
WADDINGTON J F	1003				
WAHLIN M B	1752				
WAHL J J	446				
WALDRON M F	1577				
WARREN J M	1230	1231			
WATANABE M	365				
WHITE D	635				
WHITE E R	382				
WHITE J V	288				
WHITNEY J D	665				
WIESE W L	502				
WILKINS R L	1865				
WILLIAMSON M A	1590				
WILLIAMSON J M	478	1250			
WILLIAMS A	544				
WILLIAMS K L	1788				
WILLIAMS S E	989	1296			
WINTERS H F	1406				
WITTING M L	1456				
WITTHACK K	1478	1812			
WOJTCZAK L	286				
WOLF R	880				
WOMER R L	668				
WONG S C	687				
WOODCOCK A M	1286	1287			
WOODHARD C E	659				
WODLEY 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 M G	1081				
ZANSTRA M	358				
ZAPESOCHNYI I P	78	343	475	504	508
	808	882	1040	1076	1077
	1078	1079	1233	1517	1521
	1583	1648	1680	1683	1801
	1823	1895	1972		
ZARE R M	1501	1503			
ZHIRNADEVA T V	1775	1853			
ZIESEL J P	283	1167	1530	1924	
ZIRIN M	443	980			
ZWICKY F	657				