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BIBLIOGRAPHY OF ATOMIC LINE IDENTIFICATION LISTS. V. JUNE 1995 SUPPLEMENT

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Abstract. Additional references are presented for the bibliography of atomic line identification lists by Adelman and Snijders and its three supplements by Adelman.

Key words: atomic - spectra - line identifications - bibliography

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1. INTRODUCTION

Adelman and Snijders (1974) compiled a bibliography of atomic line identification lists to supplement the data contained in the *Ultraviolet and Revised Multiplet Tables* (Moore 1945, 1950, 1952, 1962) and Kelly and Palumbo (1973) for the wavelength region $\lambda\lambda$911-8250 and the first four spectra of all elements. Three supplements (Adelman 1978, 1983, 1989) also included references to the fifth and sixth spectra of key elements through the iron peak. Table 1 lists references found in the literature since the last supplement was completed in January 1989. Each entry indicates the wavelength region covered in Å unless otherwise noted and the type of reference: A = analysis, AW = very accurate wavelengths, CL = classified lines, EA = extension of analysis, IS = isotopic shifts, NMT = new multiplet table, RA = revised analysis, TC = temperature classification, and W = wavelength list. The reader is advised to examine each reference to determine its quality. Several papers in particular deserve the reader's special attention. Gallagher (1993) unified Moore's H, C, N, and O atomic energy level and multiplet tables. Kaufman and Martin (1991a, b, 1993) compiled the spectral lines and energy levels for all known species of Mg, Al, and S, as have Kaufman and Sugar (1988) for Sc. Johansson and his associates continued their extension of the analyses of Fe I and Fe II. The new Fe I multiplet table by Nave et al. (1994) is an extremely valuable contribution. The revised analyses of S III (Johansson et al. 1992) and of Ni I (Litzén et al. 1993) are also quite useful.

Table 1
Bibliography References

Species	Reference	Type
O II	Pettersson, S. -G., and Wenaker, I. 1990, *Physica Scripta*, **42**, 187.	[EA, 1074-2133]
	Wenaker, I. 1990, *Phys. Scripta*, **42**, 667.	[EA, 2148-11664]
	Martin, W. C., Kaufman, V., and Musgrove, A. 1993, *J. Phys. Chem. Ref. Data*, **22**, 1179.	[RA, 376-11663]
	Moore, C. E. 1993, *Tables of Spectra of Hydrogen, Carbon, Nitrogen, and Oxygen Atoms and Ions*, ed. J. W. Gallagher (Boca Raton, CRC).	[NMT, 374-5.03 (mm)]
O VI	Kaufman, V., and Martin, W. C. 1989, *JOSA B*, **6**, 1769.	[AW, 1031-1038]

O VII	Isler, R. C., Jupén. C., and Martinson, I. 1993, *Phys. Scripta*, **47**, 32.	[RA, 21-3879]
Ne III	Persson, W., Wahlström, C. -G., Jönsson, L., and Di Rocco, H. O. 1991, *Phys. Rev. A*, **43**, 4791.	[RA, 313-6896]
Mg I - VI	Kaufman, V., and Martin, W. C. 1991, *J. Phys. Chem. Ref. Data*, **20**, 83.	[Cl, I: 180-9994+, II: 184-9633+, III: 106-7430, IV: 118-3520+, V: 95-1325, VI: 74-1806]
Mg I	Andersen, T., Brage, T., Froese Fisher, C., and Sørensen, L. Eg 1991, *J. Phys. B.*, **24**, 905.	[EA, 2268-3363]
Mg II	Brage, T., and Gaardsted, J. O. 1991, *Phys. Scripta*, **44**, 336.	[EA, 1653-2029, 3416-3520]
Al I - VI	Kaufman, V. and Martin, W. C. 1991, *J. Phys. Chem. Ref. Data*, **20**, 775.	[CL, I: 145-9164+, II: 683-9331+, III: 137-9606, IV: 78-4626, V: 85-2604+, VI: 72-1443+]
Al III	Gaardsted, J. O., Brage, T., Froese Fisher, C., and Sonnek, D. 1990, *Phys. Scripta*, **42**, 543.	[EA, 1004-1596] (incorporated in Kaufman and Martin 1991)
S I - IV	Kaufman, V., and Martin, W. C. 1993, *J. Phys. Chem. Ref. Data*, **22**, 279.	[CL, I: 928-56.3 (μm), II: 558-315 (μm), III: 440-33.5 (μm), IV: 271-10.5 (μm), V: 187-6729, VI: 74-5577]
S III	Johansson, L., Magnusson, C. E., Joelsson, I., and Zetterberg, P. O. 1992, *Phys. Scripta*, **46**, 221.	[EA, 440-6149]
Ar IV	Bredice, F., Gallardo, M., Almandos, J. G. Reyna, Triguerios, A. G., and Pagan, C. J. B. 1995, *Phys. Scripta.* **51**, 446.	[RA, 396-3135]
Ca I	Ueda, K., Ito, K., Sato, Y., and Namioka, T. 1990, *Phys. Scripta*, **41**, 75.	[CL, 1330-1410]
Ca IV	Eksberg, J. O., Smitt, R., Skogvall, B., and Borgström, A. 1990, *Phys. Scripta*, **41**, 217.	[EA, 296-2829]
Sc I - VI	Kaufman, V., and Sugar, J. 1988, *J. Phys. Chem. Ref. Data*, **17**, 1679.	[CL, I: 1553-3338, II: 1160-10039, III: 557-9371, IV: 153-7727, V: 166-2205, VI: 148-581]
Ti I	Forsberg, P. 1991, *Phys. Scripta*, **44**, 446.	[EA, 2036-54807]
Ti VI	Ekberg, J. O., and Smitt, R. 1988, *Phys. Seripta*, **38**, 336.	[EA, 125-2316]
V II	Iglesias, L., Cabeza, M. I., and de Luis, B. 1988, *Pub. Inst. Opt. Madrid, **No. 47***	[EA, 1102-9287]
Cr I	Baig, M. A., Rashid, A., Ahmad, I., Rafi, M., Connerade, J. -P., and Hormes, J. 1990, *J. Phys. B*, **23**, 3489.	[CL, 1491-1690]
Mn I	Adelman, S. J., Svatek, G., van Wickler, K., and Warren, Jr., W. H., 1989, *A&AS*, **80**, 285.	[NMT, 686-45587] (available from the Astronomical Data Center, NASA Goddard Space Flight Center and other astronomical data centers)
	Taklif, A. G. 1990, *Phys. Scripta*, **42**, 69.	[CL, 8267-19723]
Fe I, II	Nave, G., Learner, R. C. M., Thorne, A. P., and Harris, C. J. 1991, *JOSA B*, **8**, 2028.	[AW, I: 2084-3842, II: 2000-2786]
	Nave, G., Learner, R. C. M., Murray, J. E., Thorne, A. P., and Brault, J. W. 1992, *J. Phys. II France*, **2**, 913.	[AW, 4235-42462]
Fe I	Nave, G., and Johansson, S. 1993, *A&AS*, **102**, 269.	[CL, 1701-49417]
	Nave, G., Johansson, S., Axner, O., Ljungberg, P., Malmsten, Y., and Baschek, B. 1994, *Phys. Scripta*, **49**, 581.	[EA, 2466-3243 and 5227-5494]
	Nave, G., Johansson, S., Learner, R. C. M., Thorne, A. P., and Brault, J. W. 1994, *ApJS*, **94**, 221.	[NMT, 1704-49682]
	Johansson, S., Brage. T., Leckrone, D. S., Nave. G.,	[EA, 1260-3656]

	and Wahlgren, G. M. 1995, *ApJ*, **446**, 361.	
Fe III	Ekberg, J. O. 1993, *A&AS*, **101**, 1.	[EA, 598-8124]
Co II	Adelman, S. J. 1992, *A&AS*, **95**, 415.	[NMT, 1020-9489] (available from Atomic Data Center, NIST)
Ni I	Litzén, U., Brault, J. W., and Thorne, A. P. 1993, *Phys. Scripta*, **47**, 628.	[RA, 1739-53487]
Ni III	Garcia-Riquelme, O., and Rico, F. R. 1991, *Publ. Inst. Opt. Madrid*, **No. 49** and 1992, *Phys. Scripta*, **45**, 212.	[EA, 1289-8677]
Cu I	Rao, P. M. R., Padmanabhan, S., Krishnamurty, O., and Sekhar, B. N. R. 1992, *J. Quant. Spectros. Rad. Transf.*, **47**, 113.	[EA, 4230-5464]
Zn III	Gayasov, R. R., and Ryabtsev, A. N. 1992, *Phys. Scripta*, **45**, 322.	[EA, 345-1951]
Ge III	Ryabtsev, A. N., Litzén, U., and Isberg, B. 1993, *Phys. Scripta*, **48**, 326.	[RA, 377-6786]
Y II	Nilsson, A. E., Johansson, S., and Kurucz, R. L. 1991, *Phys. Scripta*, **44**, 226.	[EA, 1157-48785]
Mo III	Iglesias, L., Cabeza, M. I., and Kaufman, V. 1990, *J. Res. NIST*, **95**, 647.	[EA, 836-3230]
Mo IV	Iglesias, L., and Cabeza, M. I. 1991, *Publ. Inst. Opt. Madrid*, **No. 48**	[A, 735-3138]
	Cabeza, M. I., Iglesias, L., Rico, F. R., and Kaufman, V. 1989, *Phys. Scripta*, **40**, 457.	[EA, 1150-1961]
Ru II	Joueizadeh, A., and Johansson, S. 1993, *NIST Spec. Publ.* **850**, ed. J. Sugar and D. Leckrone, p. 131	[AW, 1844-3178]
Pd II	Lundberg, H., Litzén, U., and Johansson, S. 1994, *Phys. Scripta*, **50**, 110.	[RA, 1900-5030]
Sb I	Jones, W. E., and Martell, J. M. 1991, *Canadian J. Phys.*, **69**, 891.	[BA, 1333-2313]
Sb II	Arcimowicz, B., Josbi, Y. N., and Kaufman, V. 1989, *Canadian J. Phys.*, **67**, 572.	[EA, 876-2569]
Sb II	Arcimowicz, B., Joshi, Y. N., and Kaufman, V. 1989, *Canadian J. Phys.*, **67**, 572.	[RA, 602-1947]
Te III	Joshi, Y. N., Tauheed, A., and Davison, I. G. 1992, *Canadian J. Phys.*, **70**, 740.	[EA, 779-1773]
I III	Tauheed, A., and Joshi, Y. N. 1993, *Phys. Rev. A*, **47**, 3092.	[CL, 673-1630]
I IV	Tauheed, A., Joshi, Y. N., and Kaufman, V. 1991, *J. Phys. B*, **24**, 3701.	[A, 627-1801]
Xe IV	Tauheed, A., Joshi, Y. N., and and Pinnington, E. H. 1993, *Phys. Scripta*, **47**, 555.	[RA, 525-1232]
Cs IV	Tauheed, A., and Joshi, Y. N. 1994, *J. Phys. B*, **27**, 405.	[EA, 506-1069]
Ba IV	Sansonetti, C. J., Reader, J., Tauheed, A., and Joshi, Y. N. 1993, *JOSA B*, **10**, 7.	[RA, 463-924]
Ce V	Redfors, A., and Reader, J. 1991, *Phys. Rev. A*, **43**, 2367.	[EA, 365-2519]
Pr II	Ginibre, A. 1989, *Phys. Scripta*, **39**, 694.	[EA, 3587-3998 and W, 4548-6785]
Tb I	Childs, W. J. 1992, *JOSA B*, **9**, 191.	[CL, 5439-5443]
W III	Iglesias, L., Cabeza, M. I., Rico, F. R., Garcia-Riquelme, O., and Kaufman, V. 1989, *J. Res. NIST*, **94**, 221.	[A, 880-2678]
Pt I, II	Reader, J., Acquista, N., Sansonetti, C. J., and	[AW, I: 1738-4096, II: 1032-406]

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Pt II	Engleman, Jr., R. 1989, *ApJ*, **340**, 1140.	[IS, 1777-4515]
Pt III	Ryabtsev, A. N., Wyart, J. -F., Joshi, Y. N., Raassen, A. J. J., and Uylings, P. H. M. 1993, *Phys. Scripta*, **47**, 45.	[A, 738-2022]
Au II	Wyart, J. -F., Raassen, A. J. J., Joshi, Y. N., and Uylings, P. H. M. 1992, *J. Phys. II France*, **2**, 895.	[CL, 3653-6590]
Au IV	Joshi, Y. N., Raassen, A. J. J., and van der Valk, A. A. 1991, *JOSA B*, **8**, 1372.	[A, 563-850]
	Wyart, J. -F., Joshi, Y. N., Raassen, A. J. J., Uylings, P. H. M., and Tchang-Brillet, L. 1994, *Phys. Scripta*, **50**, 672.	[RA, 573-1917]
Hg III	Wyart, J. -F., Raassen, A. J. J., Joshi, Y. N.. and Uylings, P. H. M. 1992, *J. Phys. II France*, **2**, 895.	[CL, 1037-2009]
Hg IV	van der Valk, A. A., Raassen, A. J. J., and Joshi, Y. N. 1990, *JOSA B*, **7**, 1182.	[EA, 535-2008]
TI IV	Joshi, Y. N., Raassen, A. J. J., and van der Valk, A. A. 1990, *Canadian J. Phys.*, **68**, 284.	[EA, 531-1965]
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Bi I	Mathews, C. W., Ginter, M. L., Ginter. D. S., and Brown, C. M. 1989, *JOSA B*, **6**, 1627.	[EA, 1319-2022]

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