

ment with other experimental results could not be explained within the limits of the claimed errors.

TABLE 1

Multiplet	Wavelength (Å)	Transition	Griem (1964) (Å)	Roberts (1968) (Å)	Bengtson (1968) (Å)	Present experiment (Å)
2	8585	$4 s^4 P_{3/2} - 4 p^4 D_{5/2}^{\circ}$	0.36	—	—	$0.70 \pm 0.10$
2	8212	$4 s^4 P_{5/2} - 4 p^4 D_{5/2}^{\circ}$	0.33	1.73	$3.5 \pm 0.5$	—
14	8686	$4 s^2 P_{3/2} - 4 p^4 S_{3/2}^{\circ}$	0.38	1.61	$1.6 \pm 0.5$	$0.73 \pm 0.11$
4	7924	$4 s^4 P_{1/2} - 4 p^2 P_{3/2}^{\circ}$	0.34	—	—	$1.28 \pm 0.19$
5	7745	$4 s^4 P_{1/2} - 4 p^2 S_{3/2}^{\circ}$	0.27	1.65	$2.8 \pm 0.6$	$1.34 \pm 0.20$

### References

- 1) W. L. Wiese, in *Plasma Diagnostic Techniques*, R. H. Huddleston, and S. L., Leonard, Eds. New York, Academic Press (1965);
- 2) H. R. Griem, *Plasma Spectroscopy*, New York, McGraw-Hill (1964);
- 3) R. D. Bengtson, Session DJ 5, A. P. S. Meeting, Washington, D. C. (1968);
- 4) D. E. Roberts, *Phys. Letters* 27 A (1968) 716;
- 5) D. E. T. F. Ashby and D. F. Jephcott, *Appl. Phys. Lett.* 3 (1963) 13;
- 6) J. T. Davies and J. M. Vaughan, *Astrophys. J.* 137 (1963) 1302;
- 7) D. R. Bates and A. Damgaard, *Phil. Trans. Roy. Soc. A* 242 (1949) 101.

### 3.4 A comparison of calculated and observed transition probabilities of Cu and Ag

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### 3.5 A study of excitation in a free burning arc from 1 to 14 Å

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