

Carbon	Tin	Lead
2307.5 A.U.	1756.6 A.U.	2204.4 A.U.
1930.5 "		1821.7 "
1656.9 "		1796.5 "
1562.0 "		26.5 "
61.2 "		1682.5 "
60.5 "		71.6 "
1464.5 "		1555.8 "
		1434.0 "

The wave lengths of the lines and their relative intensities are given in Table 1, together with lines recorded by other observers in the region below  $\lambda=2026$  A.U. In reaching these values, a great many plates were taken and the best measured with a Hilger comparator.

#### SERIES RELATIONS

In the present investigation the series of single lines given by the formula  $\nu = (1.5, S) - (m, P)$ .

$m =$	2	3	4	5	6	7
$\lambda =$	2853.22	2025.08	1828.1	1748.09	1707.3	1683.64

has been verified for the values  $m = 3, 4, 5, 6$ .

Lorenser<sup>1</sup> has calculated the wavelengths of the different members of the series  $\nu = (1.5, S) - (m, p_s)$  to be

<sup>1</sup> Lorenser, Mang. Diss. Tübingen, 1913.