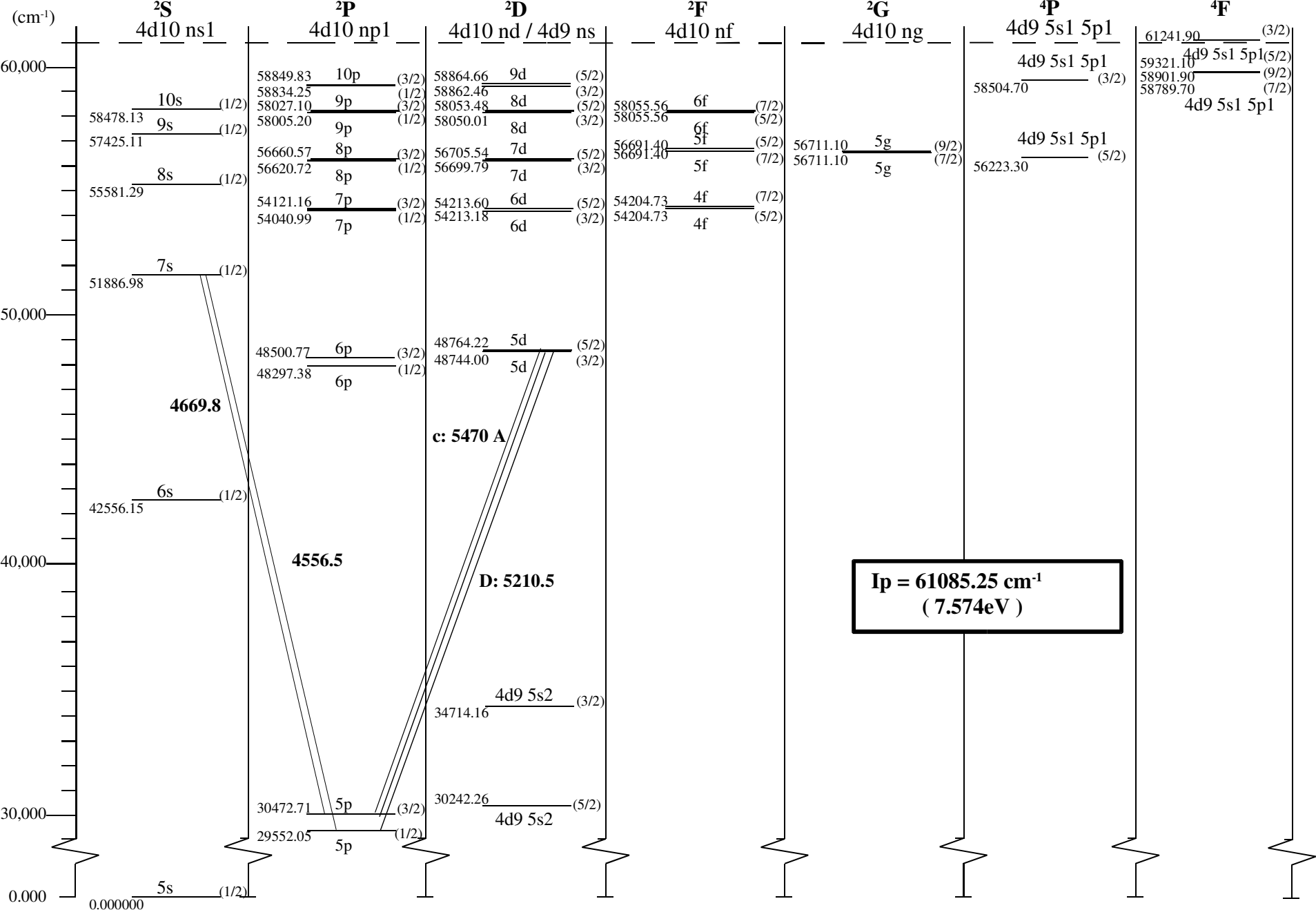
(cm-1)
2S
4d10 ns1
2P
4d10 np1
2D
4d10 nd / 4d9 ns
2F
4d10 nf
2G
4d10 ng
4P
4d9 5s1 5p1
4F
4d9 5s1 5p1
60,000
50,000
40,000
30,000
0.000
10s (1/2) 58478.13
9s (1/2) 57425.11
8s (1/2) 55581.29
7s (1/2) 51886.98
6s (1/2) 42556.15
5s (1/2) 0.000000
58849.83 10p (3/2)
58834.25 (1/2)
58027.10 9p (3/2)
58005.20 (1/2)
9p
56660.57 8p (3/2)
56620.72 (1/2)
8p
54121.16 7p (3/2)
54040.99 (1/2)
7p
48500.77 6p (3/2)
48297.38 (1/2)
6p
30472.71 5p (3/2)
29552.05 (1/2)
5p
58864.66 9d (5/2)
58862.46 (3/2)
58053.48 8d (5/2)
58050.01 (3/2)
8d
56705.54 7d (5/2)
56699.79 (3/2)
7d
54213.60 6d (5/2)
54213.18 (3/2)
6d
48764.22 5d (5/2)
48744.00 (3/2)
5d
34714.16 4d9 5s2 (3/2)
30242.26 (5/2)
4d9 5s2
58055.56 6f (7/2)
58055.56 (5/2)
6f
56691.40 5f (5/2)
56691.40 (7/2)
5f
54204.73 4f (7/2)
54204.73 (5/2)
4f
56711.10 5g (9/2)
56711.10 (7/2)
5g
4669.8
4556.5
c: 5470 A
D: 5210.5
Ip = 61085.25 cm-1
(7.574eV)
4d9 5s1 5p1
58504.70 (3/2)
4d9 5s1 5p1
56223.30 (5/2)
61241.90 (3/2)
4d9 5s1 5p1 (5/2)
59321.10
58901.90 (9/2)
58789.70 (7/2)
4d9 5s1 5p1