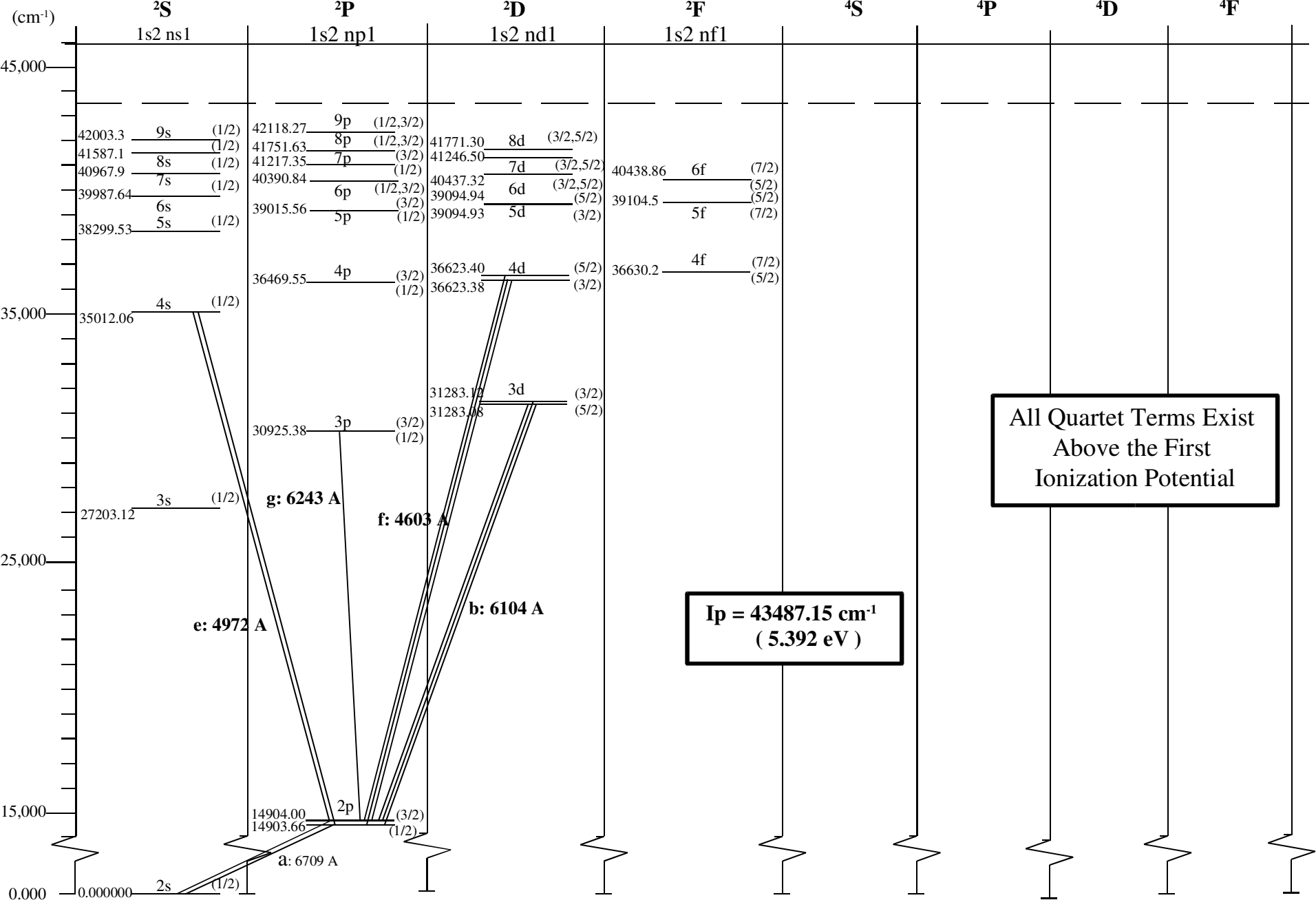
(cm-1)
2S
1s2 ns1
2P
1s2 np1
2D
1s2 nd1
2F
1s2 nf1
4S
4P
4D
4F
45,000
35,000
25,000
15,000
0.000
42003.3 9s (1/2)
41587.1 (1/2)
40967.9 8s (1/2)
39987.64 7s (1/2)
6s
38299.53 5s (1/2)
35012.06 4s (1/2)
27203.12 3s (1/2)
0.000000 2s (1/2)
42118.27 9p (1/2,3/2)
41751.63 8p (1/2,3/2)
41217.35 7p (3/2) (1/2)
40390.84 6p (1/2,3/2)
39015.56 5p (3/2) (1/2)
36469.55 4p (3/2) (1/2)
30925.38 3p (3/2) (1/2)
14904.00 2p (3/2)
14903.66 (1/2)
41771.30 8d (3/2,5/2)
41246.50 7d (3/2,5/2)
40437.32 6d (3/2,5/2)
39094.94 (5/2)
39094.93 5d (3/2)
36623.40 4d (5/2)
36623.38 (3/2)
31283.12 3d (3/2)
31283.08 (5/2)
40438.86 6f (7/2) (5/2)
39104.5 5f (5/2) (7/2)
36630.2 4f (7/2) (5/2)
a: 6709 A
b: 6104 A
e: 4972 A
f: 4603 A
g: 6243 A
Ip = 43487.15 cm-1
(5.392 eV)
All Quartet Terms Exist
Above the First
Ionization Potential