

- (a) C III : $1s^2 2s 2p \ ^3P_1^o \rightarrow 1s^2 2s^2 \ ^1S_0$ 1908.7 Å
- (b) O III : $1s^2 2s^2 2p^2 \ ^1D_2 \rightarrow 1s^2 2s^2 2p^2 \ ^3P_2$ 5008.2 Å
- (c) O III : $1s^2 2s^2 2p^2 \ ^1S_0 \rightarrow 1s^2 2s^2 2p^2 \ ^1D_2$ 4364.4 Å
- (d) O III : $1s^2 2s 2p^3 \ ^5S_2^o \rightarrow 1s^2 2s^2 2p^2 \ ^3P_1$ 1660.8 Å
- (e) O III : $1s^2 2s^2 2p^2 \ ^3P_1 \rightarrow 1s^2 2s^2 2p^2 \ ^3P_0$ 88.36 μm
- (f) C IV : $1s^2 2p \ ^2P_{3/2}^o \rightarrow 1s^2 2s \ ^2S_{1/2}$ 1550.8 Å
- (g) Ne II : $1s^2 2s^2 2p^5 \ ^2P_{1/2}^o \rightarrow 1s^2 2s^2 2p^5 \ ^2P_{3/2}^o$ 12.814 μm
- (h) O I : $1s^2 2s^2 2p^3 3s \ ^3S_1^o \rightarrow 1s^2 2s^2 2p^4 \ ^3P_2$ 1302.2 Å