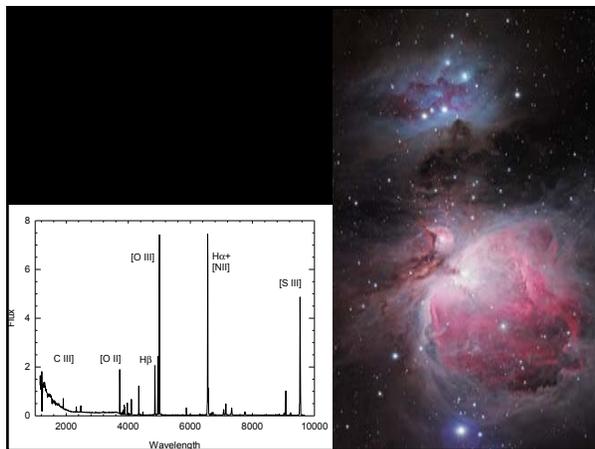


1

Vary Metals –temperature balance

- ◆ **Model varyZ.in**
 - Z varies by 3 dex
 - How does O/H and [O III]/H β vary with Z?
- ◆ **First try coronal equilibrium (constant temperature)**
- ◆ **Then with energy balance (thermal equilibrium)**

2



3

Thermostat effect AGN3 S9.5

- ◆ Vary metals with temperature balance
 - vary Z in
- ◆ Look at line ratios, temperature vs Z
- ◆ Cooling and heating vs Z
- ◆ Thermostat effect – line spectrum does not change dramatically when Z changes
 - Heating and cooling are equal
 - Cooling is mainly O III lines
 - So they are constant when they are the main coolant

4

Strong forbidden lines

- ◆ Measure SED, not O, N abundance

5

Strong forbidden lines

- ◆ Measure SED, not O, N abundance



6

Strong forbidden lines

◆ Measure SEL



When we meet
I will explain
what I had in
mind

7