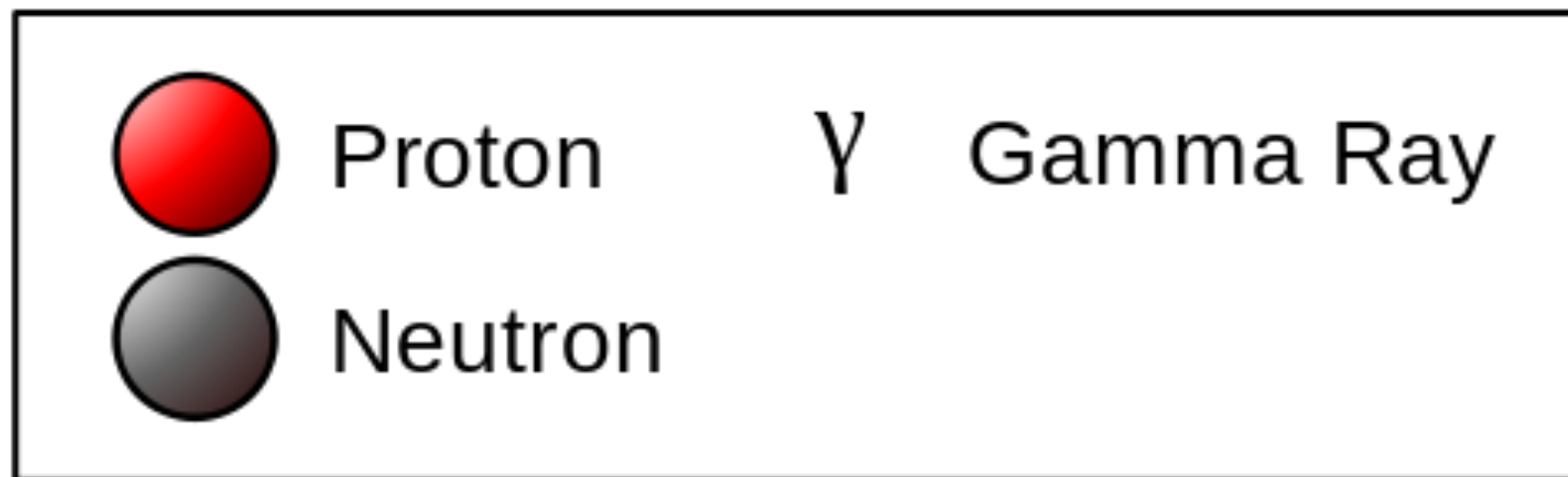
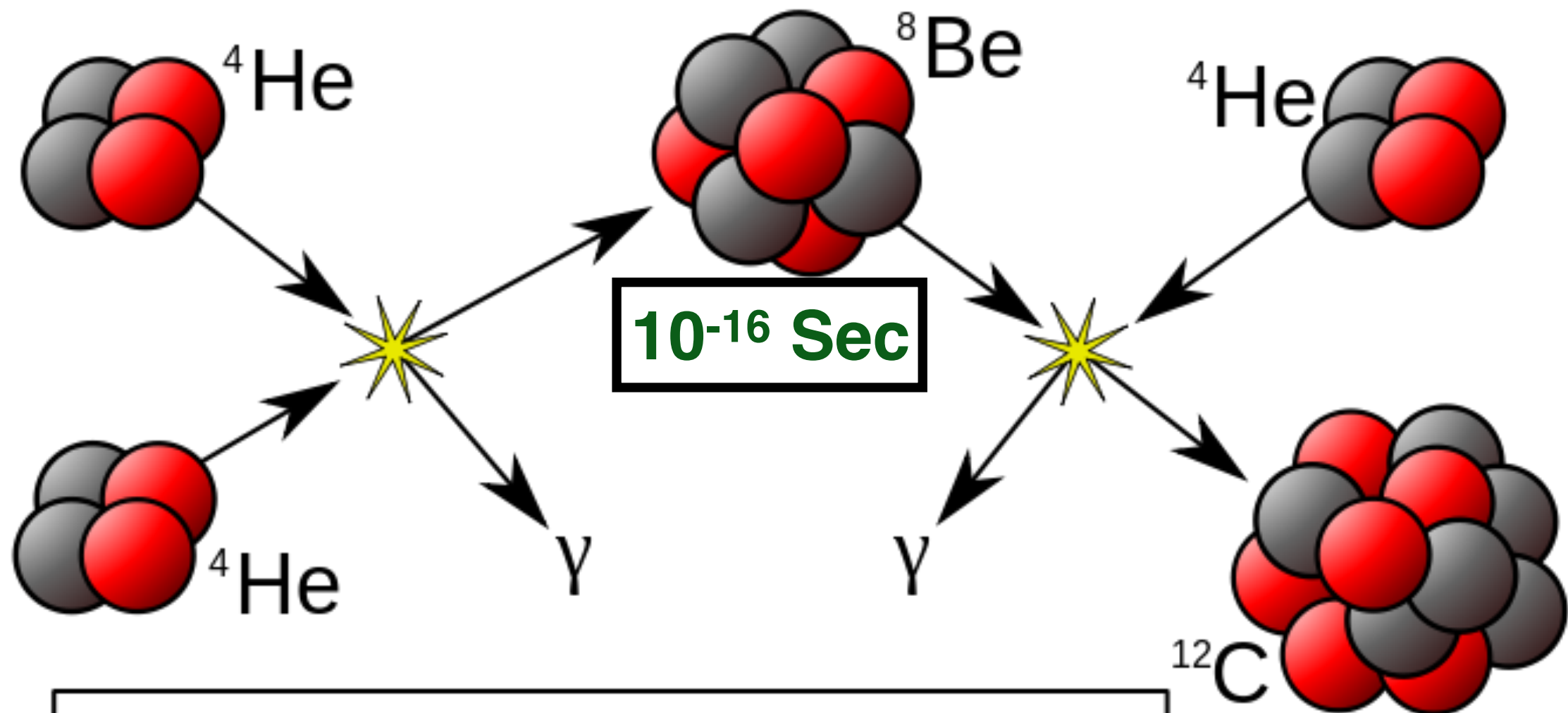
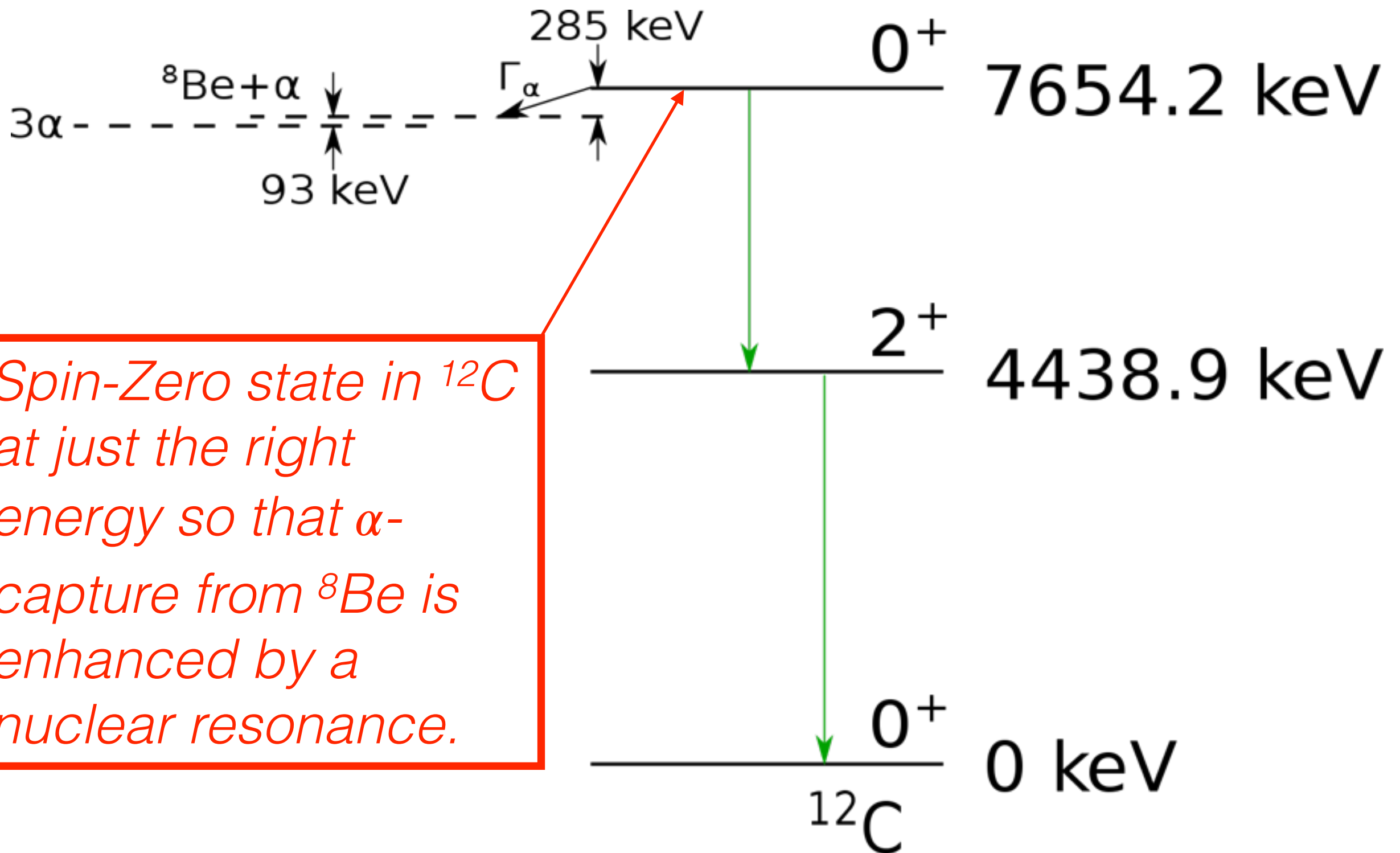


The “Triple Alpha” Process



The “Hoyle State”

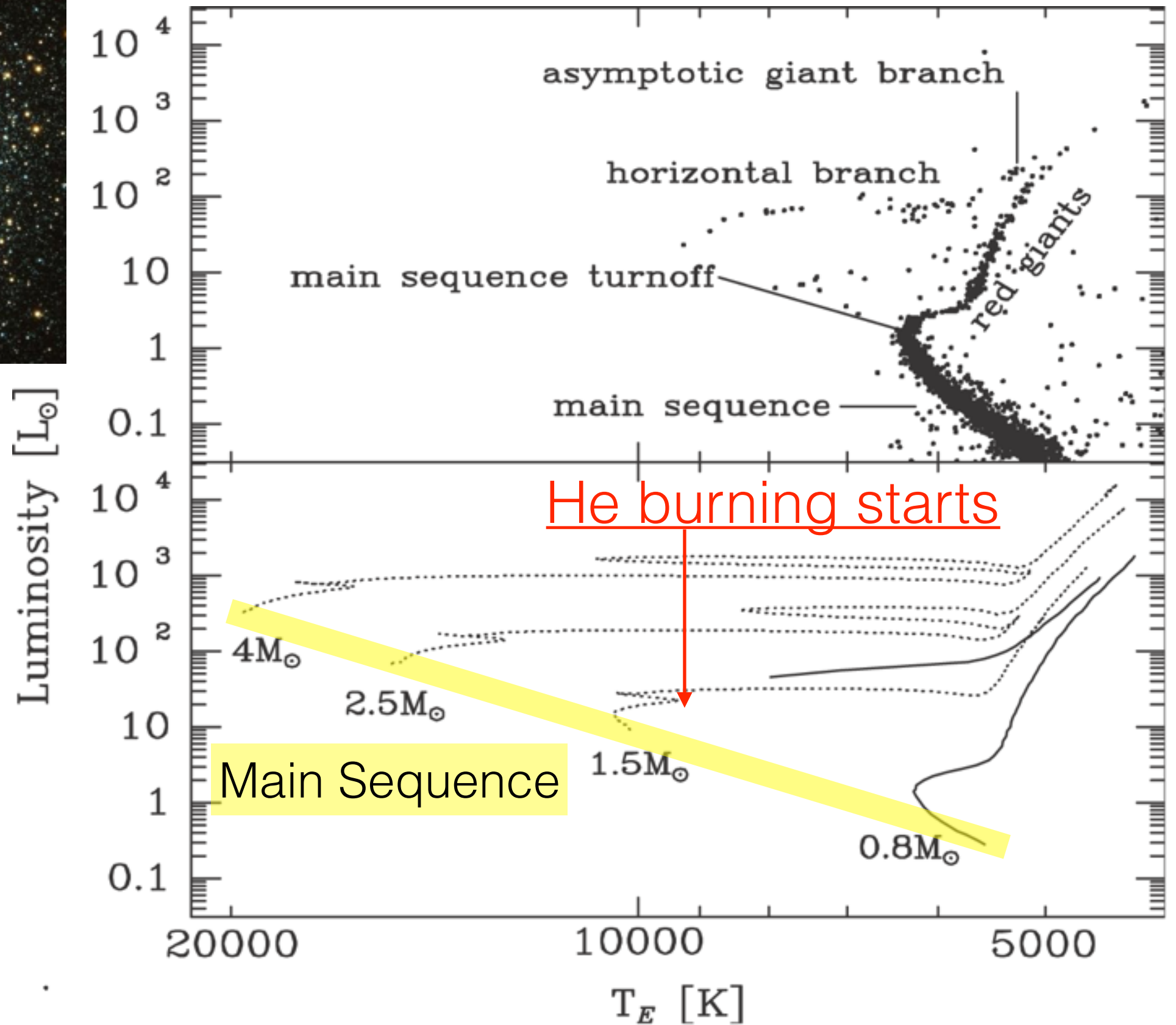


Spin-Zero state in ^{12}C at just the right energy so that α -capture from ^8Be is enhanced by a nuclear resonance.

Maoz Figure 4.1

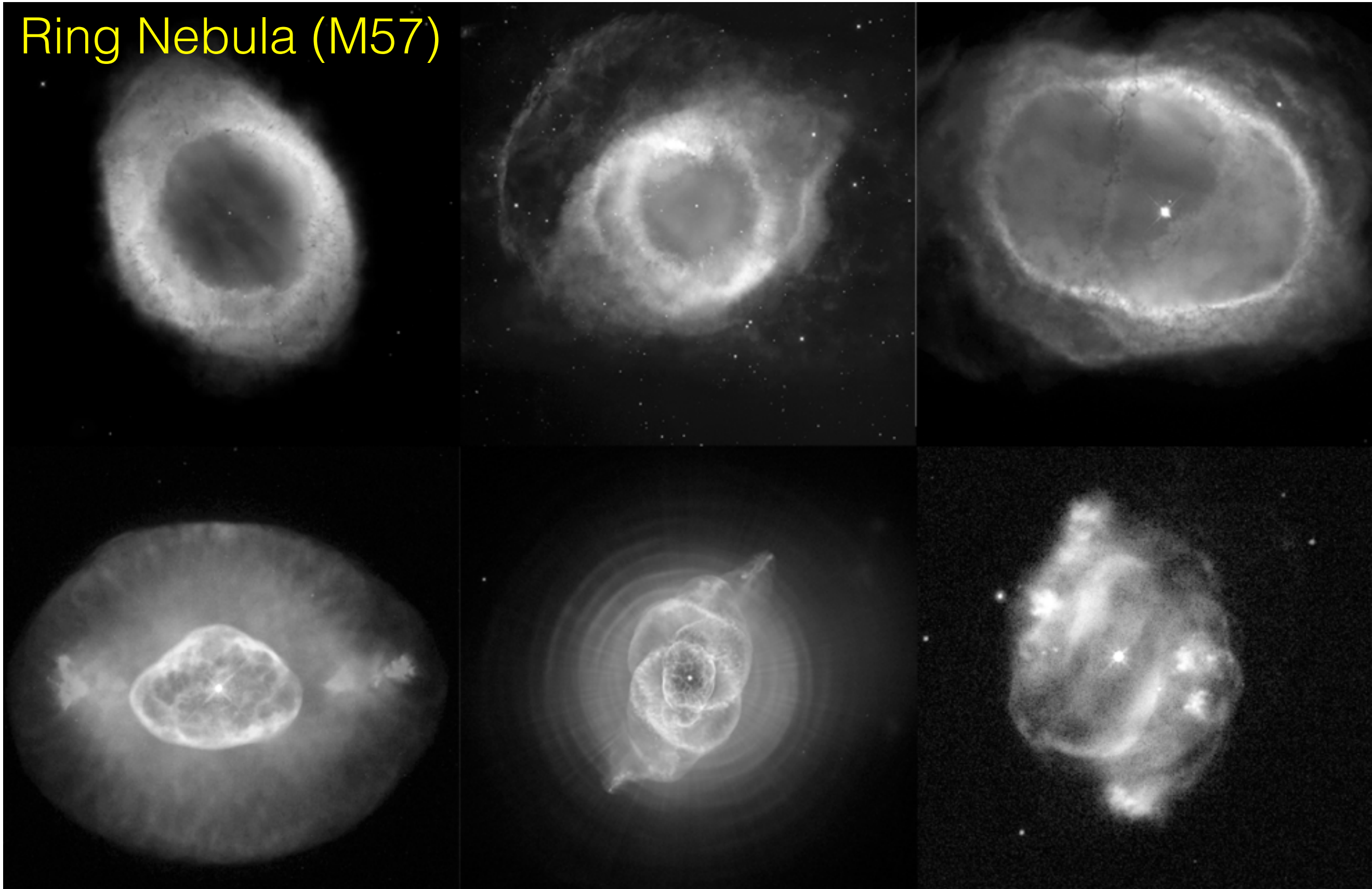


M3



Maoz Figure 4.2

Ring Nebula (M57)

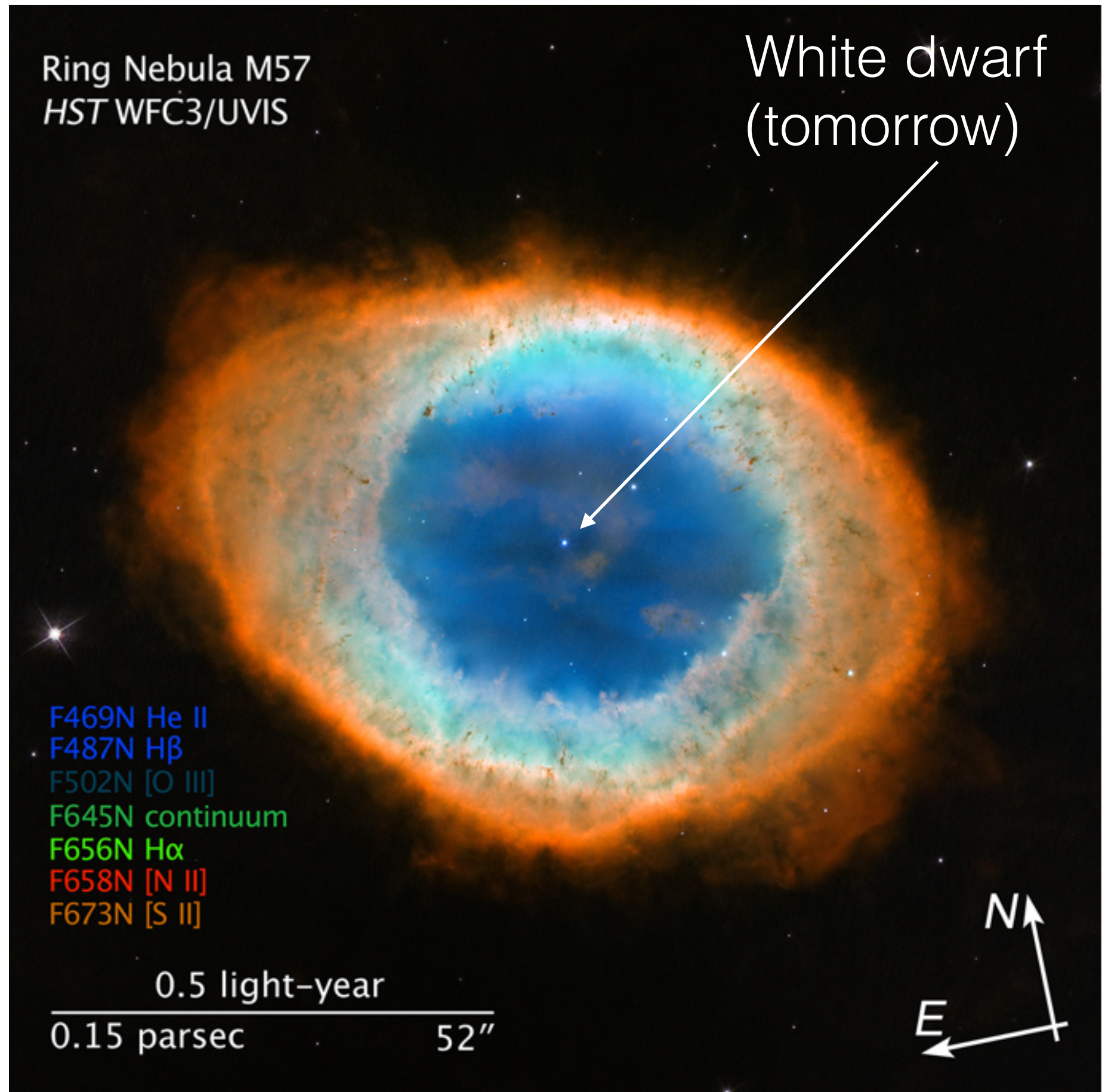


*Note the scale
for distance*

*See legend for
different kinds
of ionization for
some elements:*

*I means neutral
II means singly
ionized, etc.*

*H α and H β are
the standard
Balmer lines*



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