

# La vida de las estrellas

Juan Fabregat

Universidad de Valencia

“Estudiando el Sol para viajar al interior de las estrellas”

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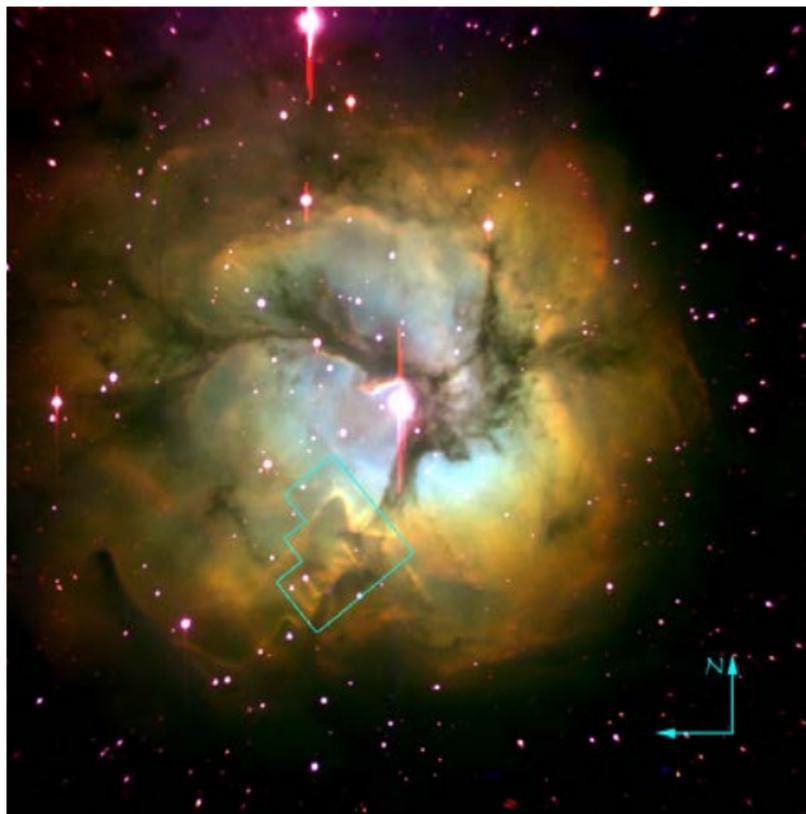






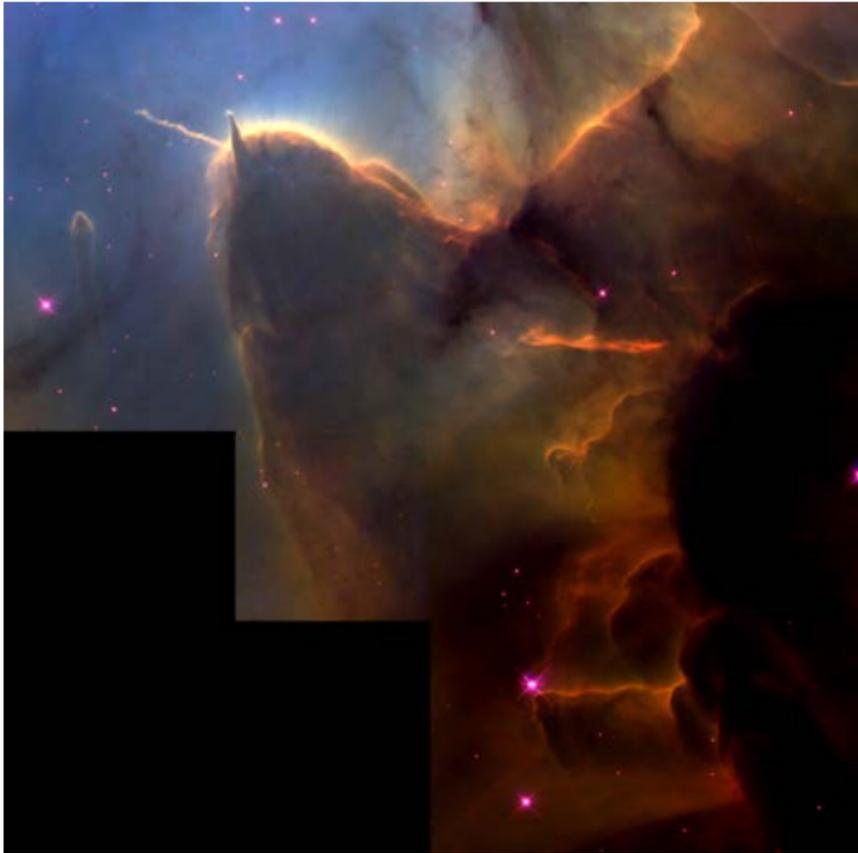


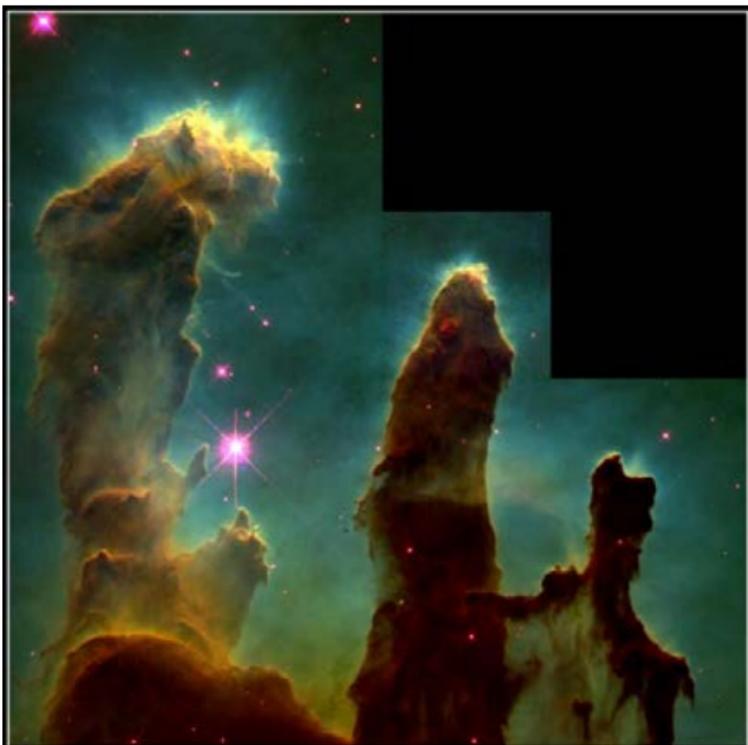
# Nebulosa Trífida



- $M_J \sim 3 \times 10^4 \sqrt{\frac{T^3}{n}} M_\odot$ 
  - En una nube interestelar típica:  
 $n = 10^6, T = 100K \rightarrow M_J = 30000M_\odot$
  - En las nubes oscuras más densas:  
 $n = 10^{12}, T = 10K \rightarrow M_J = 1M_\odot$

# Nebulosa Trífida





**Gaseous Pillars · M16**

**HST · WFPC2**

PRC95-44a · ST ScI OPO · November 2, 1995  
J. Hester and P. Scowen (AZ State Univ.), NASA



## Star-Birth Clouds - M16

HST - WFPC2

PRC95-44b - ST Sci OPO - November 2, 1995  
J. Hester and P. Scowen (AZ State Univ.), NASA





## Thackeray's Globules in IC 2944



Hubble  
Heritage

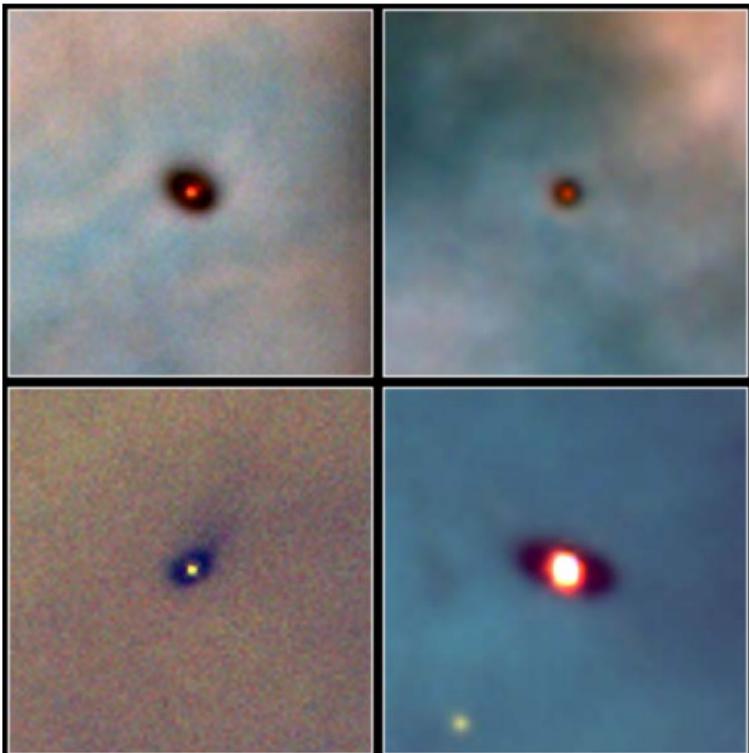
NASA and The Hubble Heritage Team (STScI/AURA) • Hubble Space Telescope/WFPC2 • STScI-PRC02-01











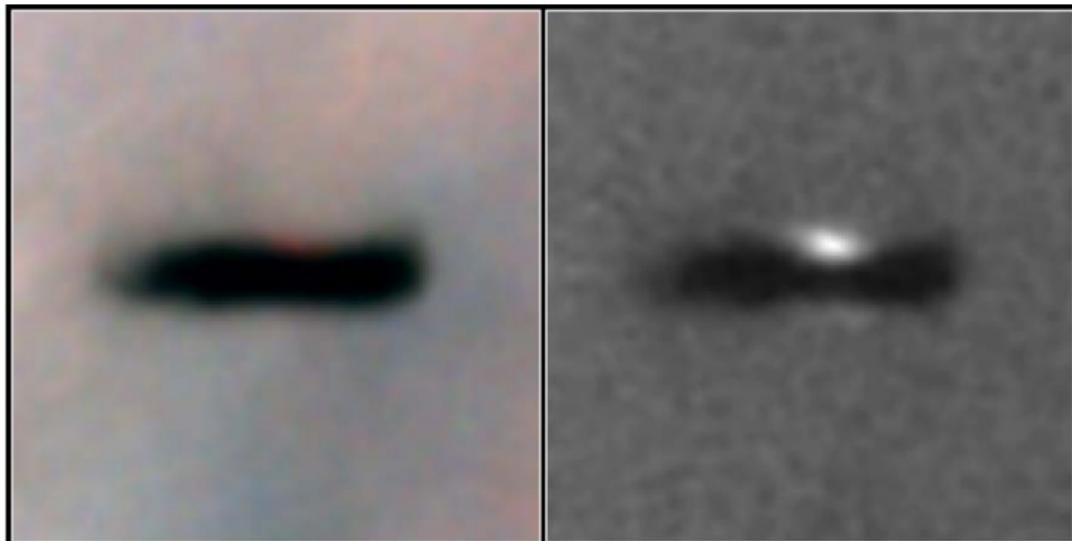
**Protoplanetary Disks  
Orion Nebula**

**HST · WFPC2**

PRC95-45b · ST ScI OPO · November 20, 1995

M. J. McCaughrean (MPIA), C. R. O'Dell (Rice University), NASA

# Discos protoplanetarios



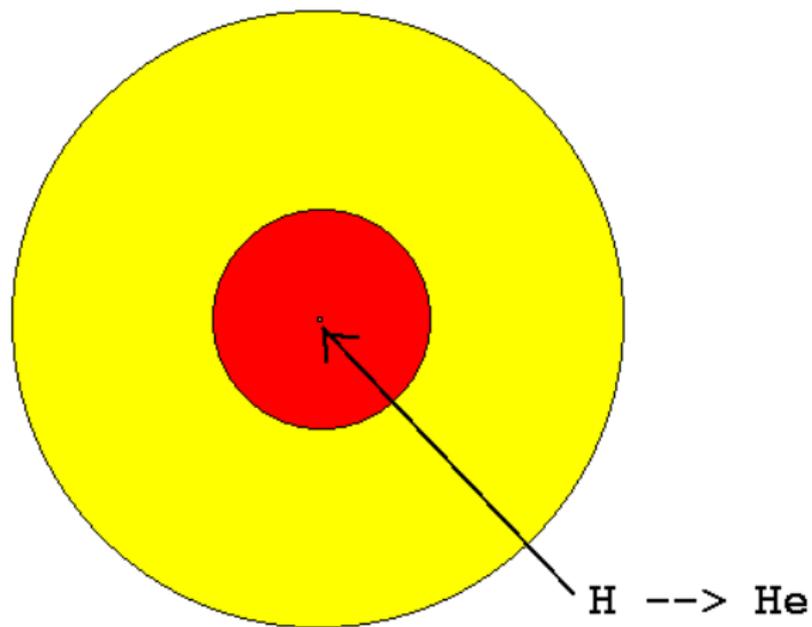
**Edge-On Protoplanetary Disk  
Orion Nebula**

HST · WFPC2

PRC95-45c · ST ScI OPO · November 20, 1995

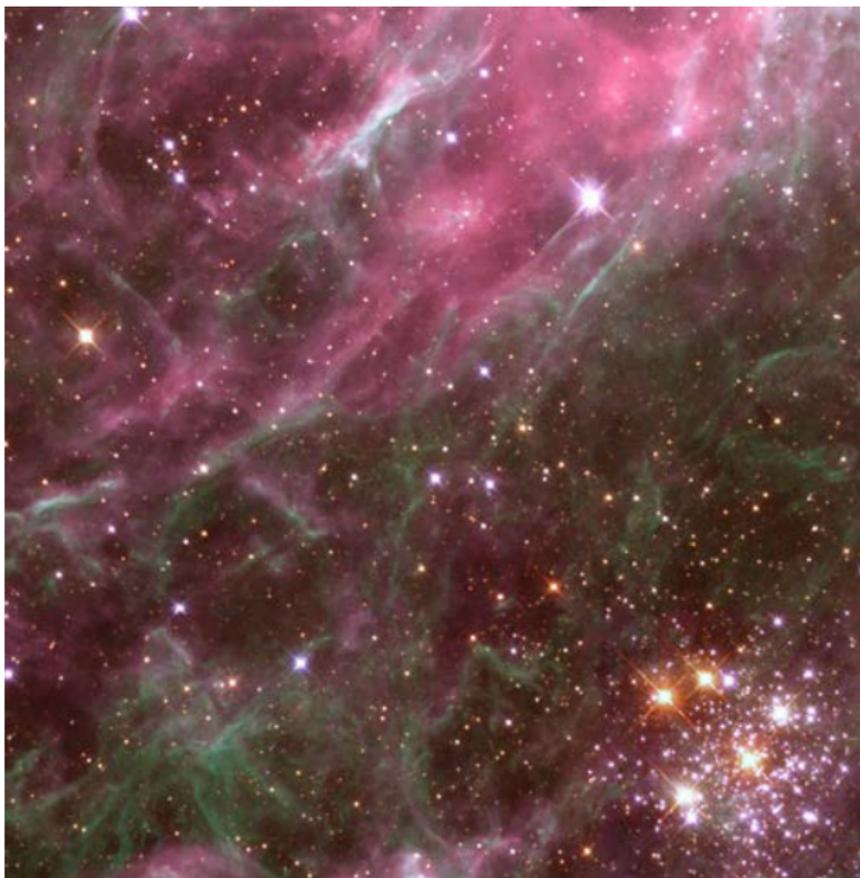
M. J. McCaughrean (MPIA), C. R. O'Dell (Rice University), NASA

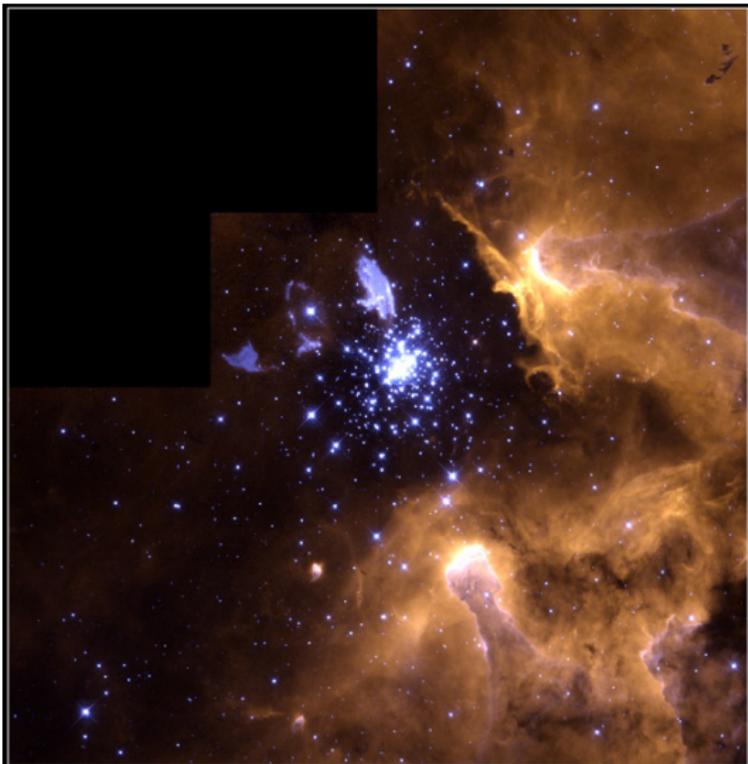
# Estrella de la secuencia principal



# El límite subestelar







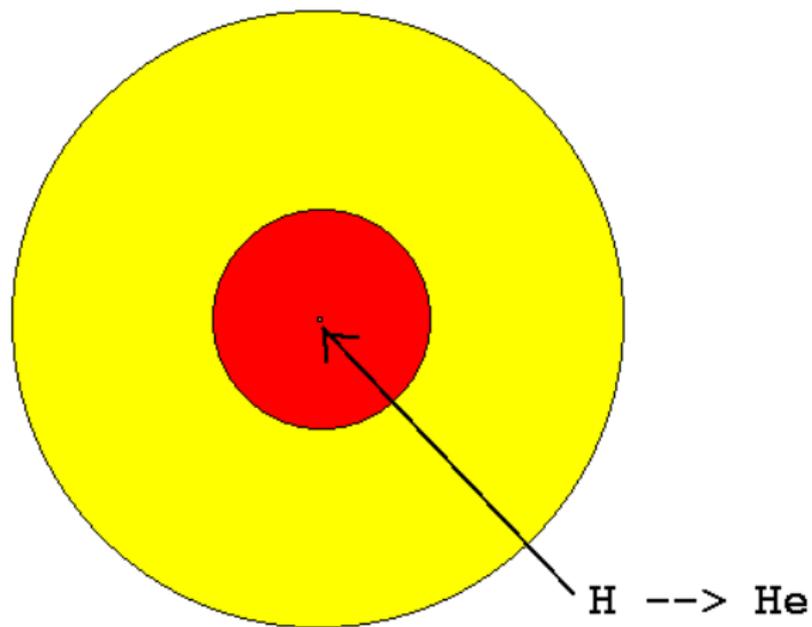
**NGC 3603**

**HST • WFPC2**

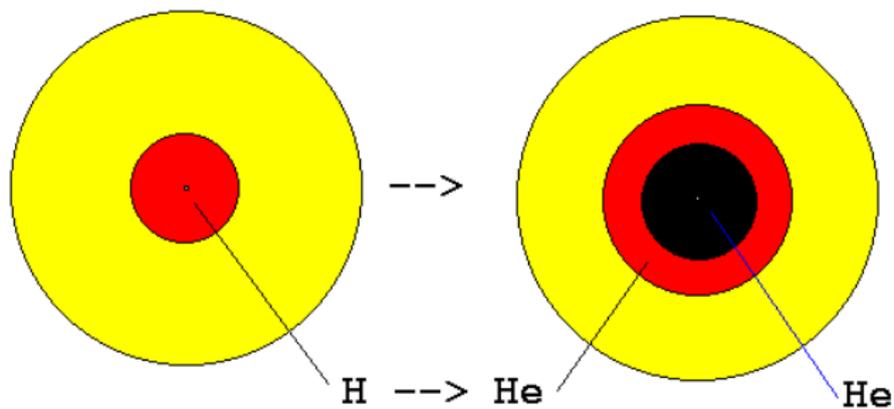
PRC99-20 • STScI OPO • June 1, 1999

Wolfgang Brandner (JPL/IPAC), Eva K. Grebel (Univ. Washington),  
You-Hua Chu (Univ. Illinois, Urbana-Champaign) and NASA

# Estrella de la secuencia principal

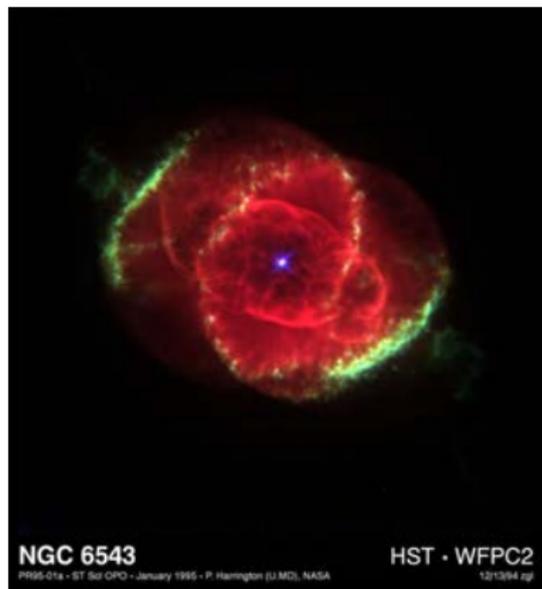


# Evolución en la secuencia principal

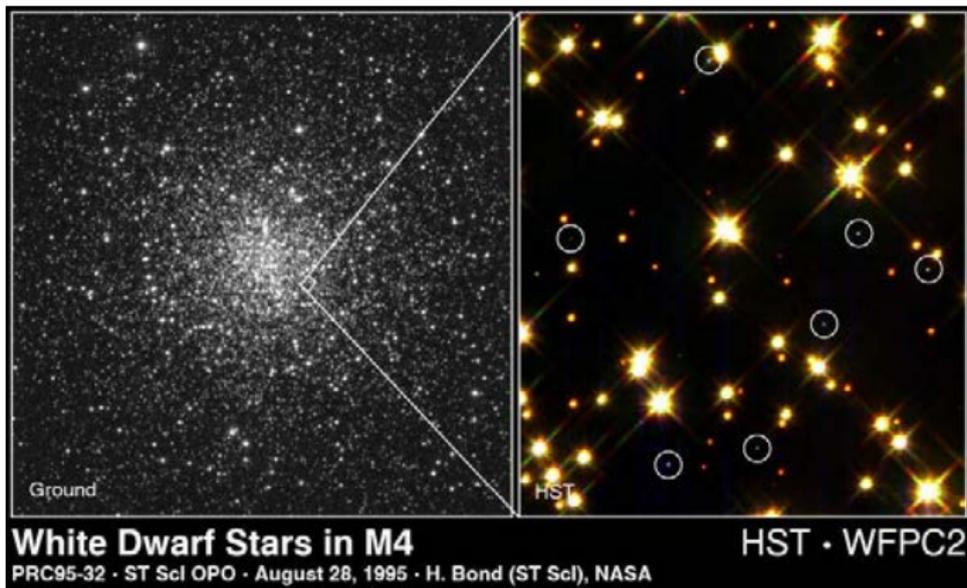




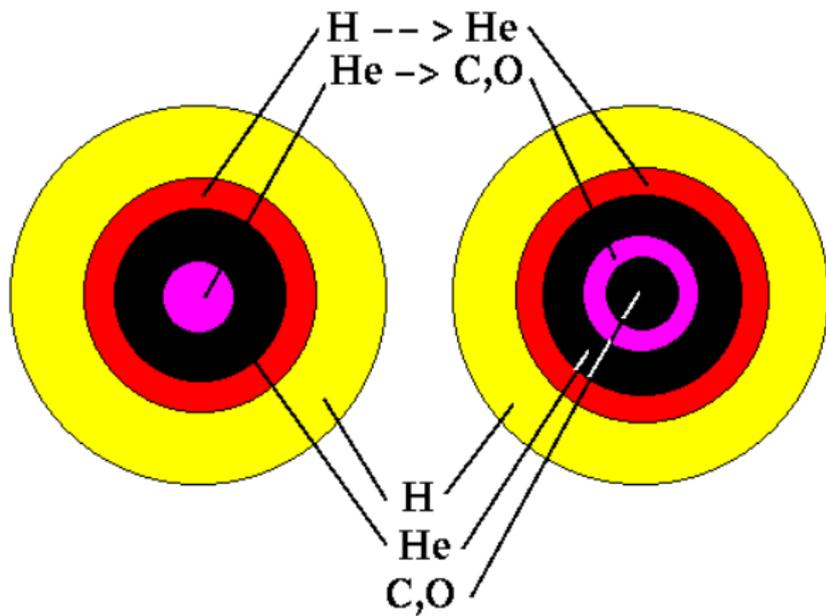
# Nebulosas planetarias



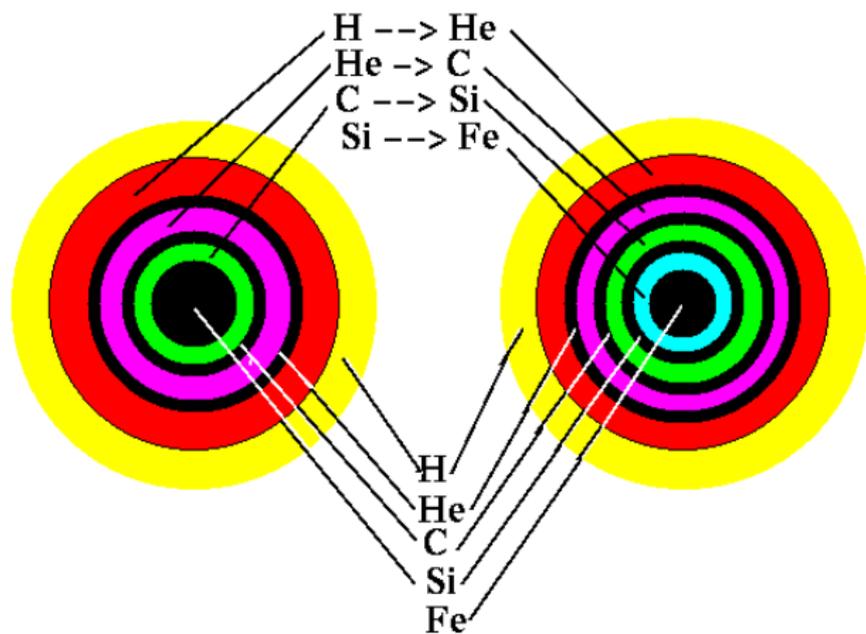
# Enanas blancas



# Fase de combustión del Helio



# Últimas fases de la evolución

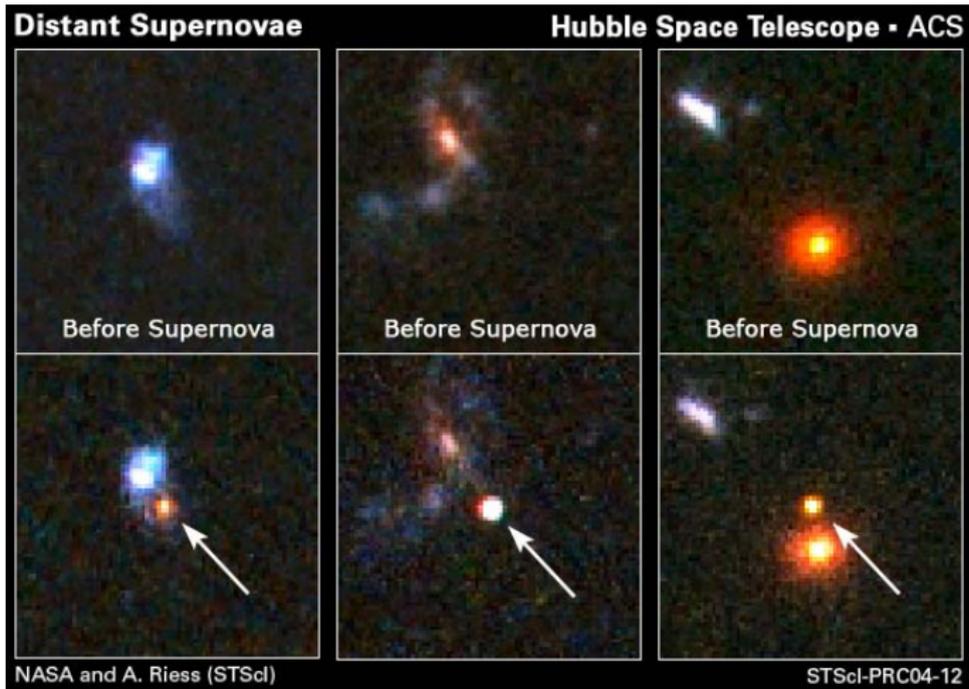




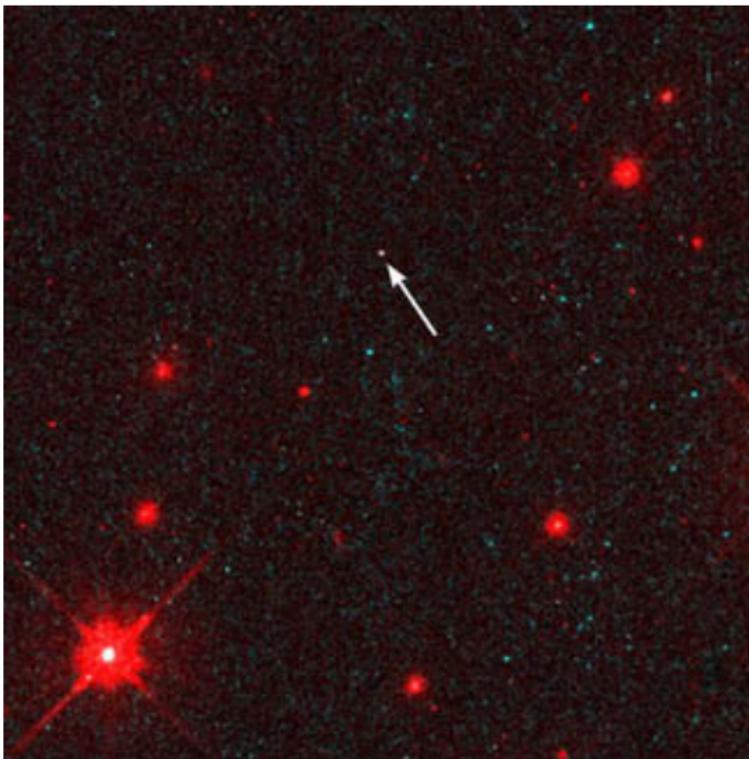
# Supernova



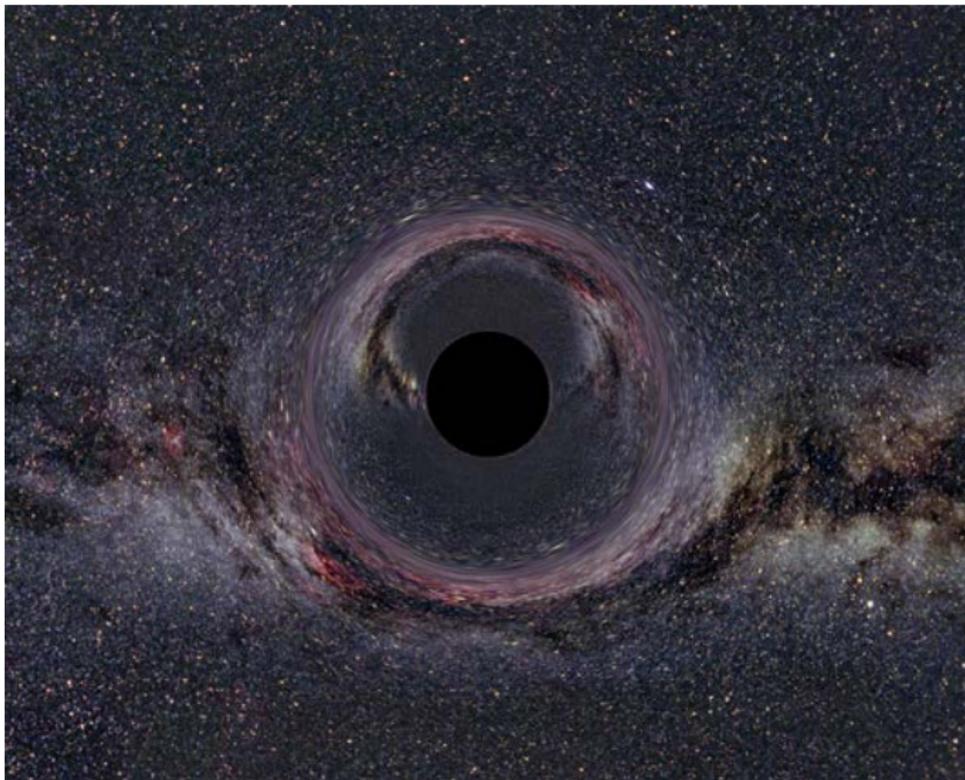
# Supernovas



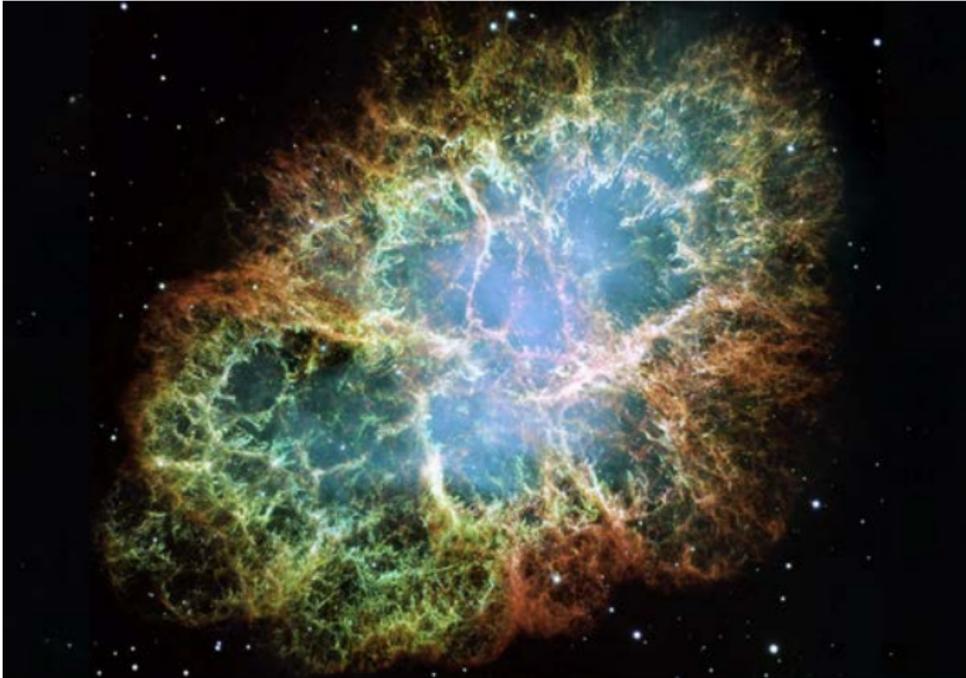
# Estrella de neutrones



# Agujero negro



# Resto de supernova



# Resto de supernova



# Resto de supernova



# Resto de supernova

