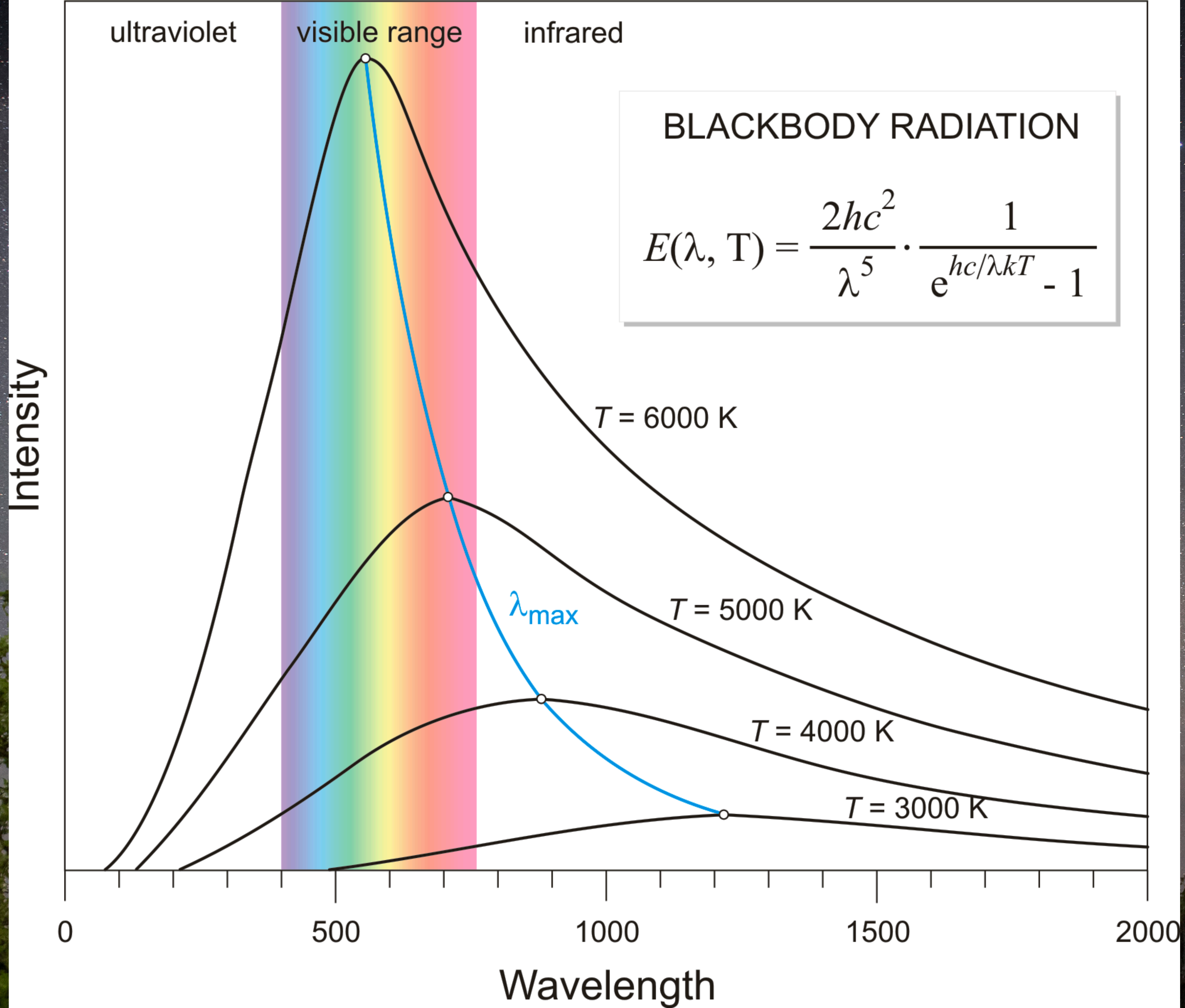


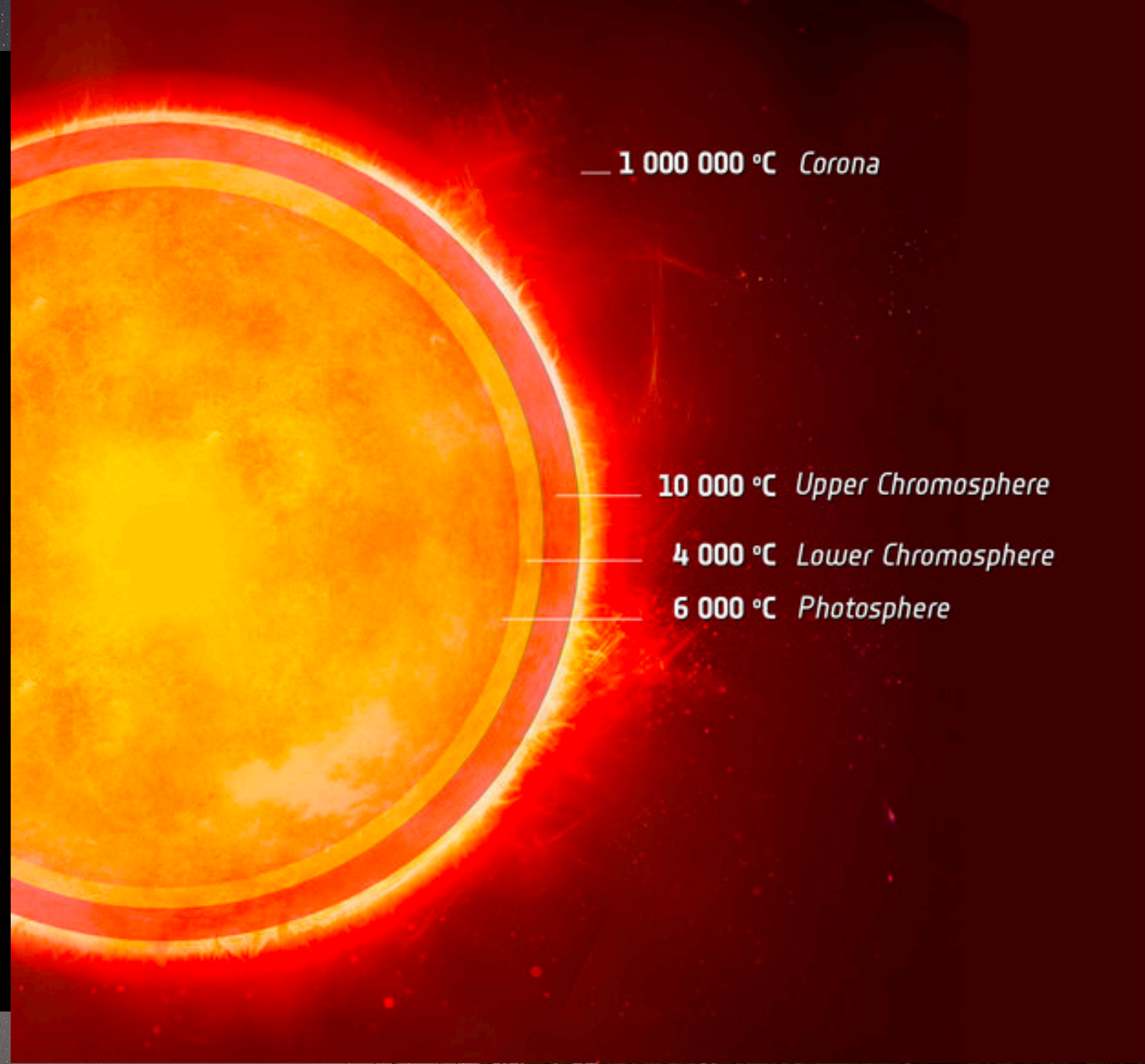
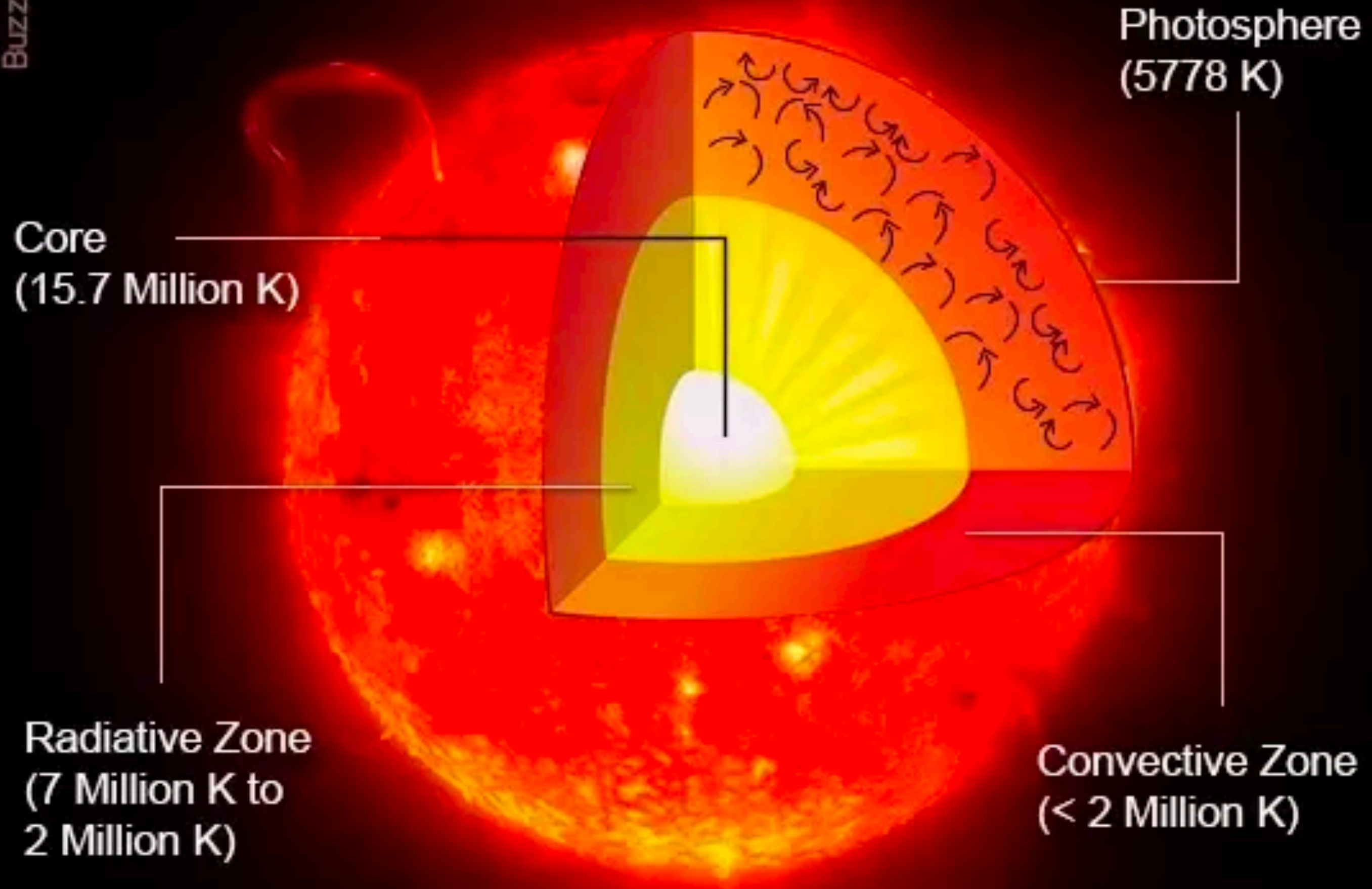
# Stellar evolution and HR diagrams

*L. Vacher -*





# The Solar Interior



Object	Apparent Visual Magnitude	Absolute Magnitude
The Sun	-26.8	4.8
100 Watt Bulb at 3 m	-17.1	66.3
Full Moon	-12.5	32
Venus (at brightest)	-4.4	28
Sirius (brightest star)	-1.5	1.4
Alpha Centauri (closest star)	-0.04	4.4
Andromeda Galaxy (farthest naked eye object)	3.5	-21
Faintest naked eye stars	6-7	-----
Faintest star visible from Earth telescopes	~25	-----

# SPECTRAL CLASS

**O**

**B**

**A**

**F**

**G**

**K**

**M**



# SURFACE TEMPERATURE

**O**

**B**

**A**

**F**

**G**

**K**

**M**



30,000

25,000

20,000

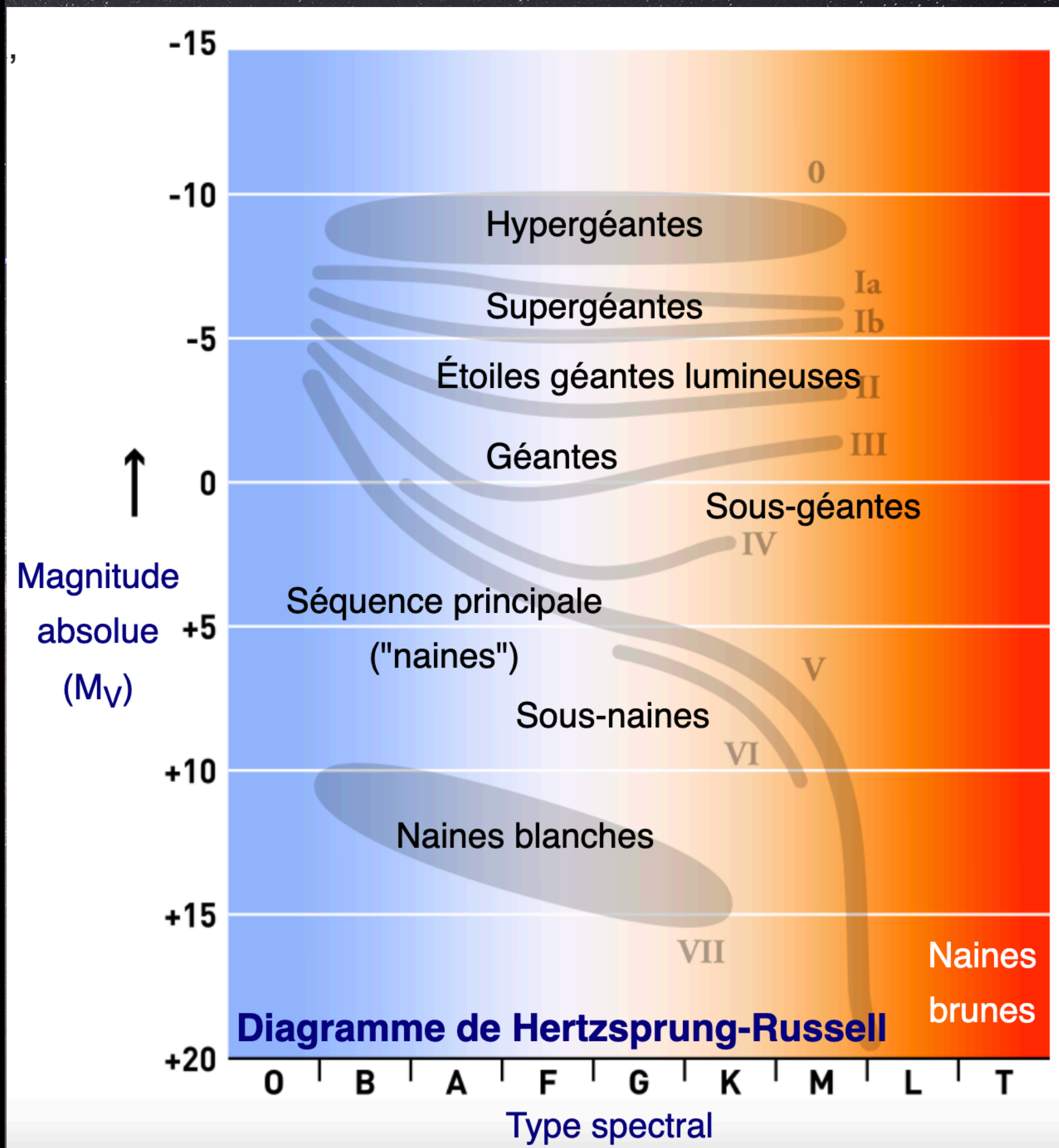
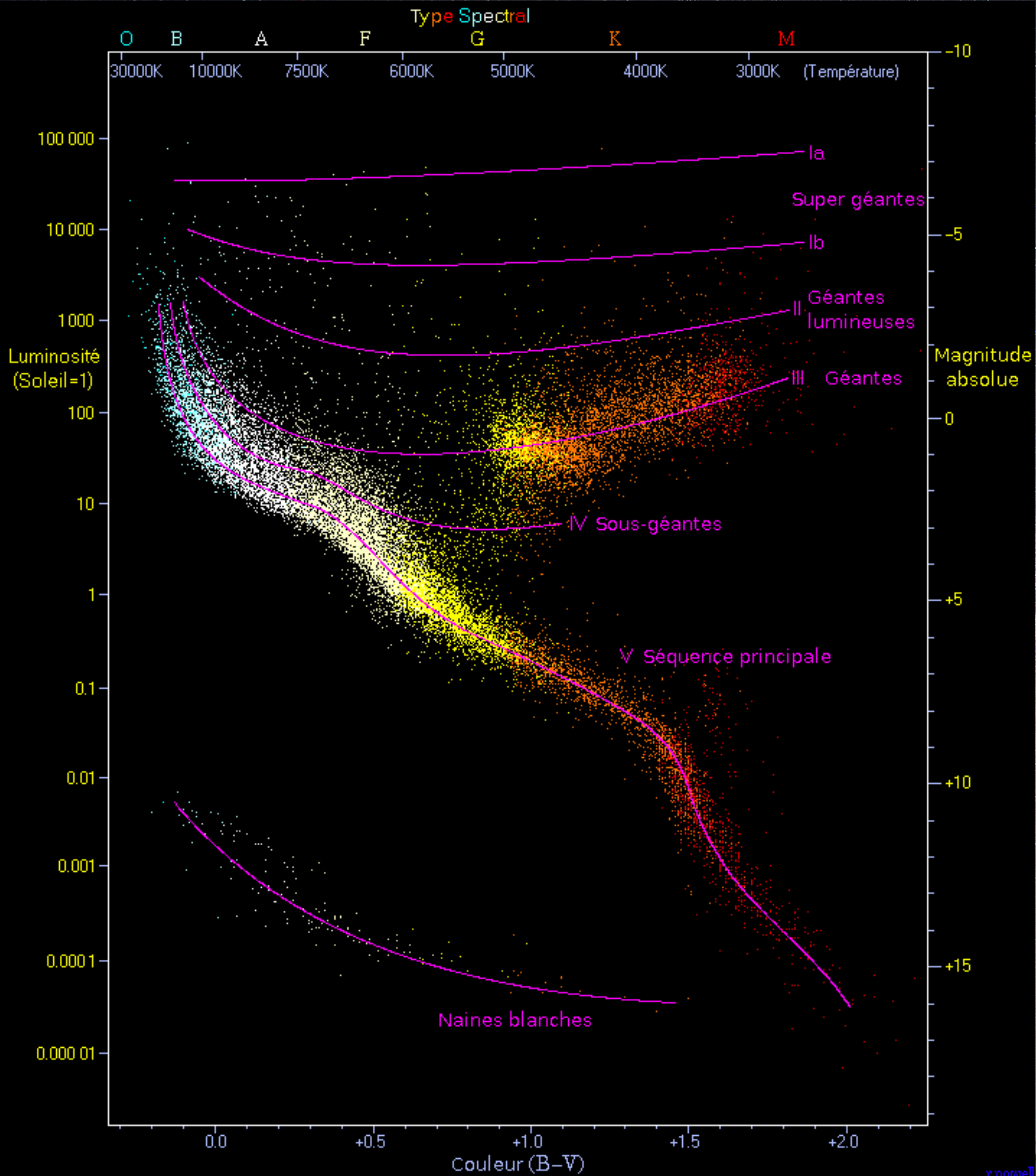
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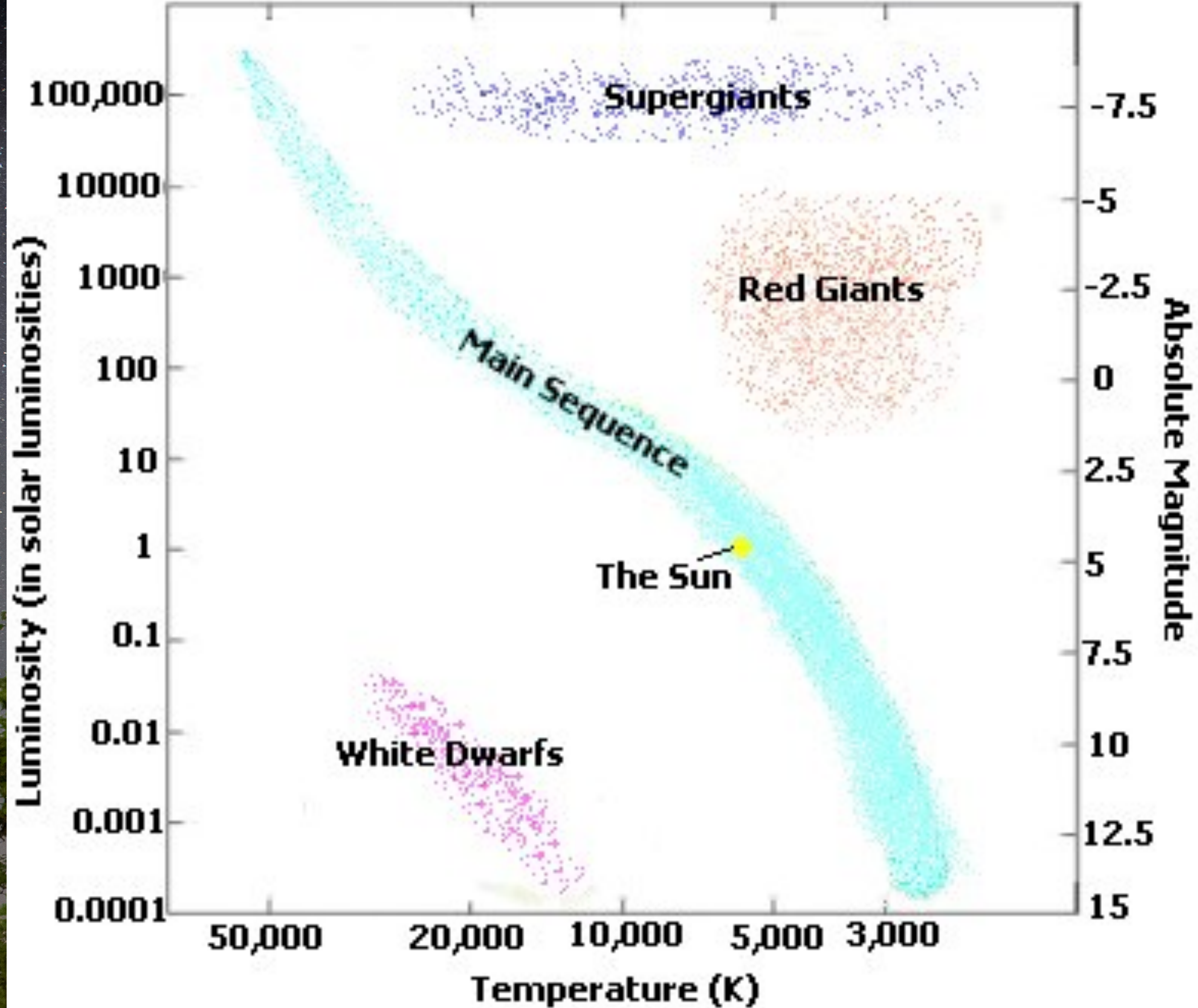
10,000

5,000

0

Kelvins



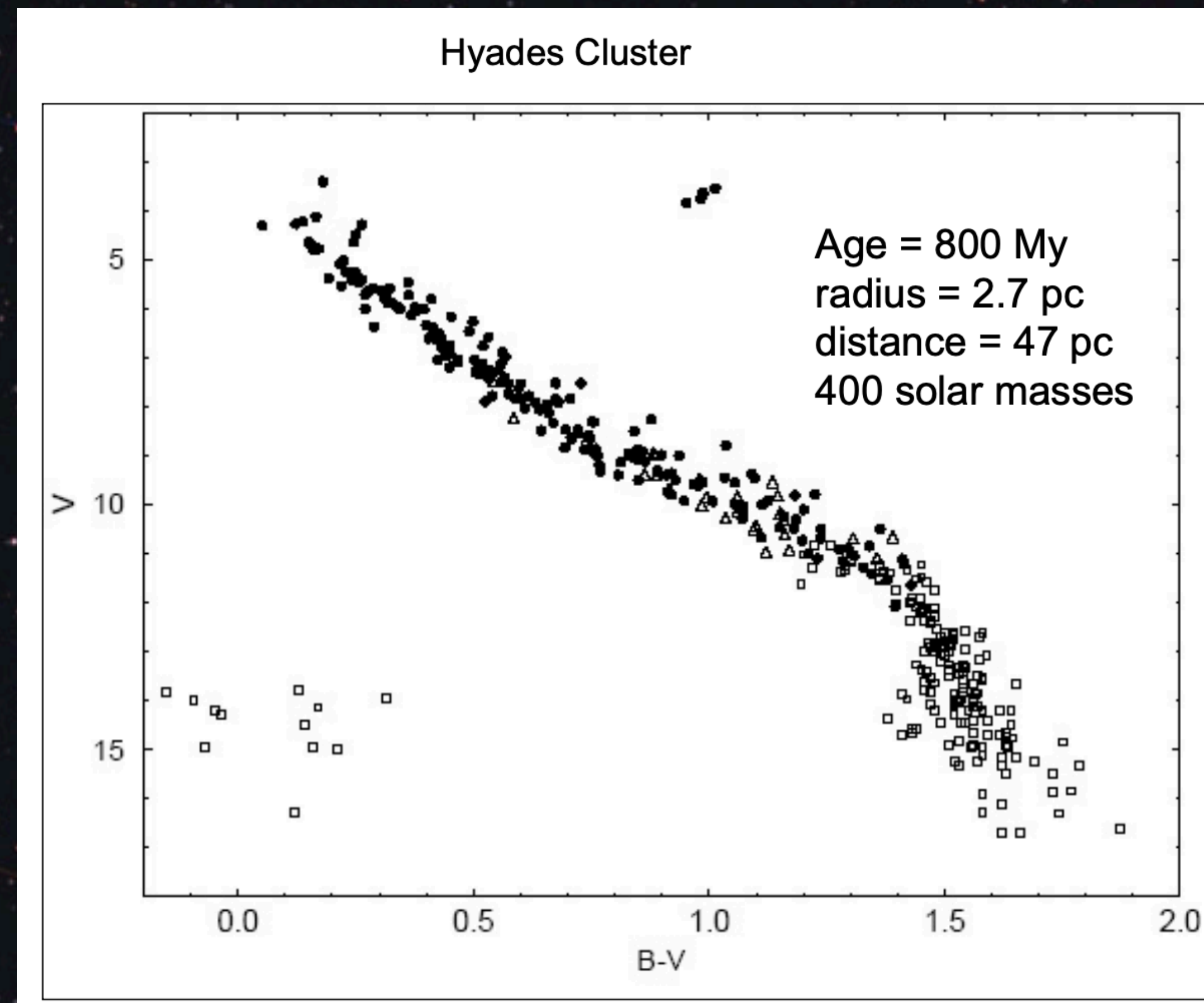
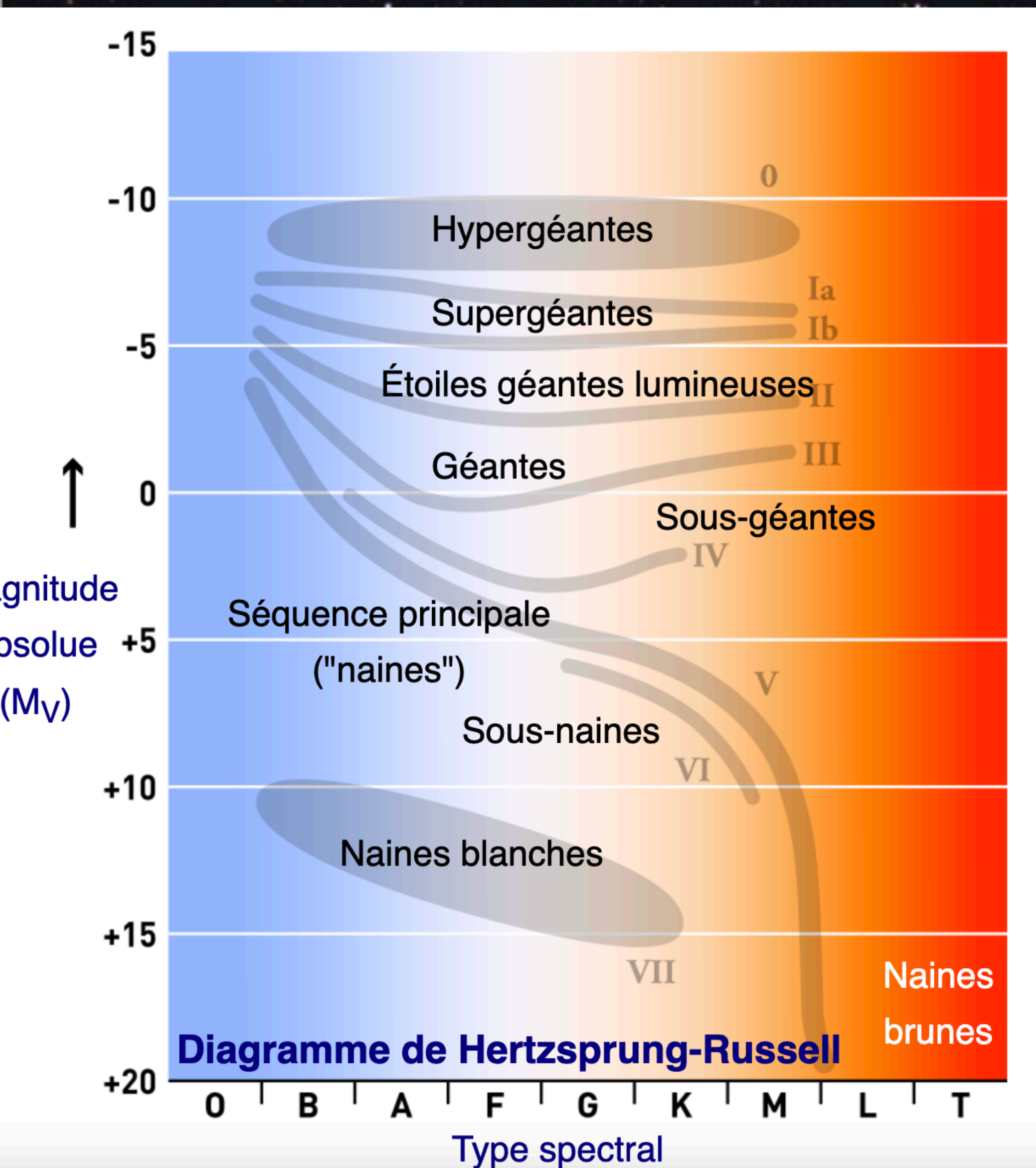




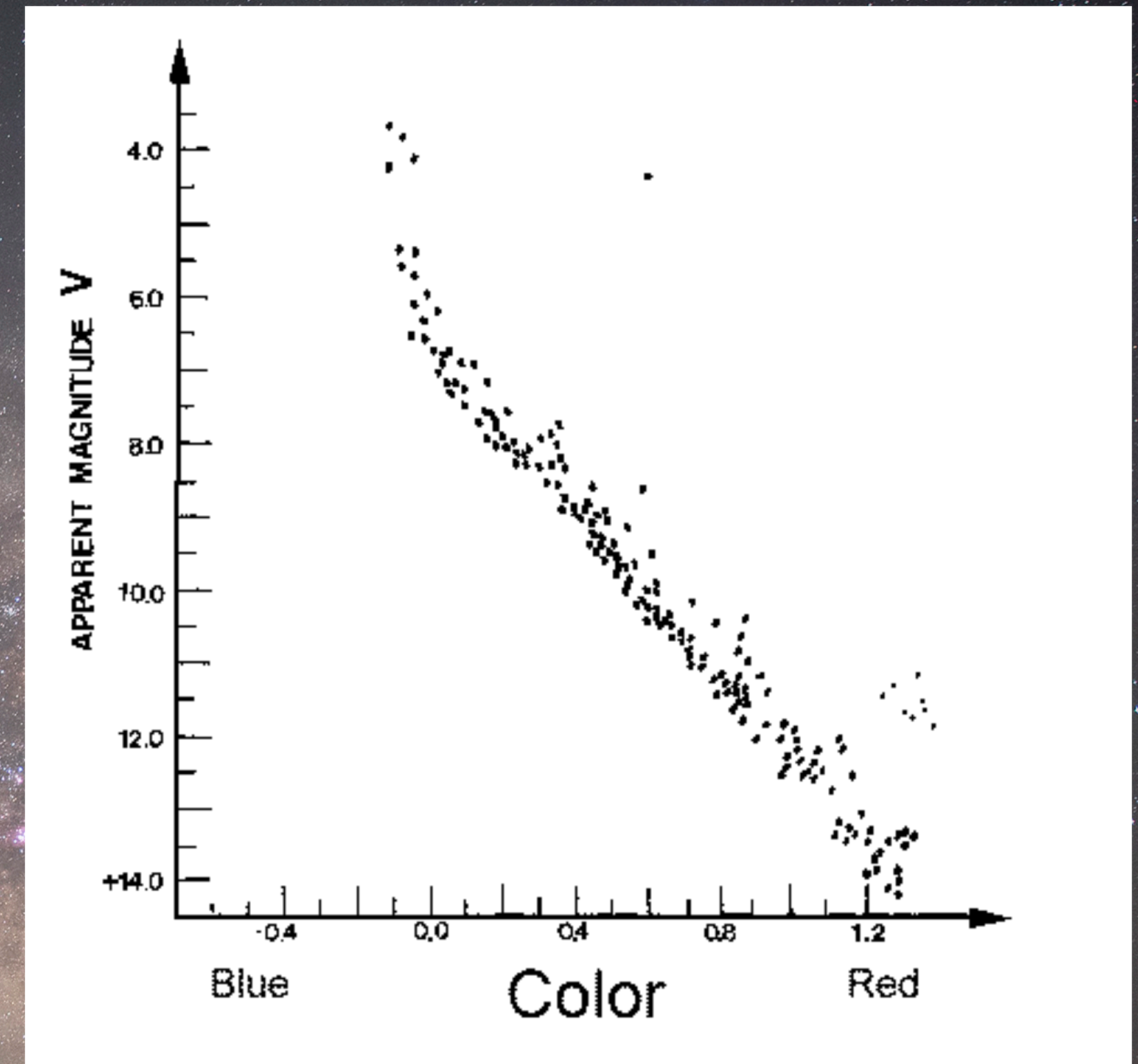
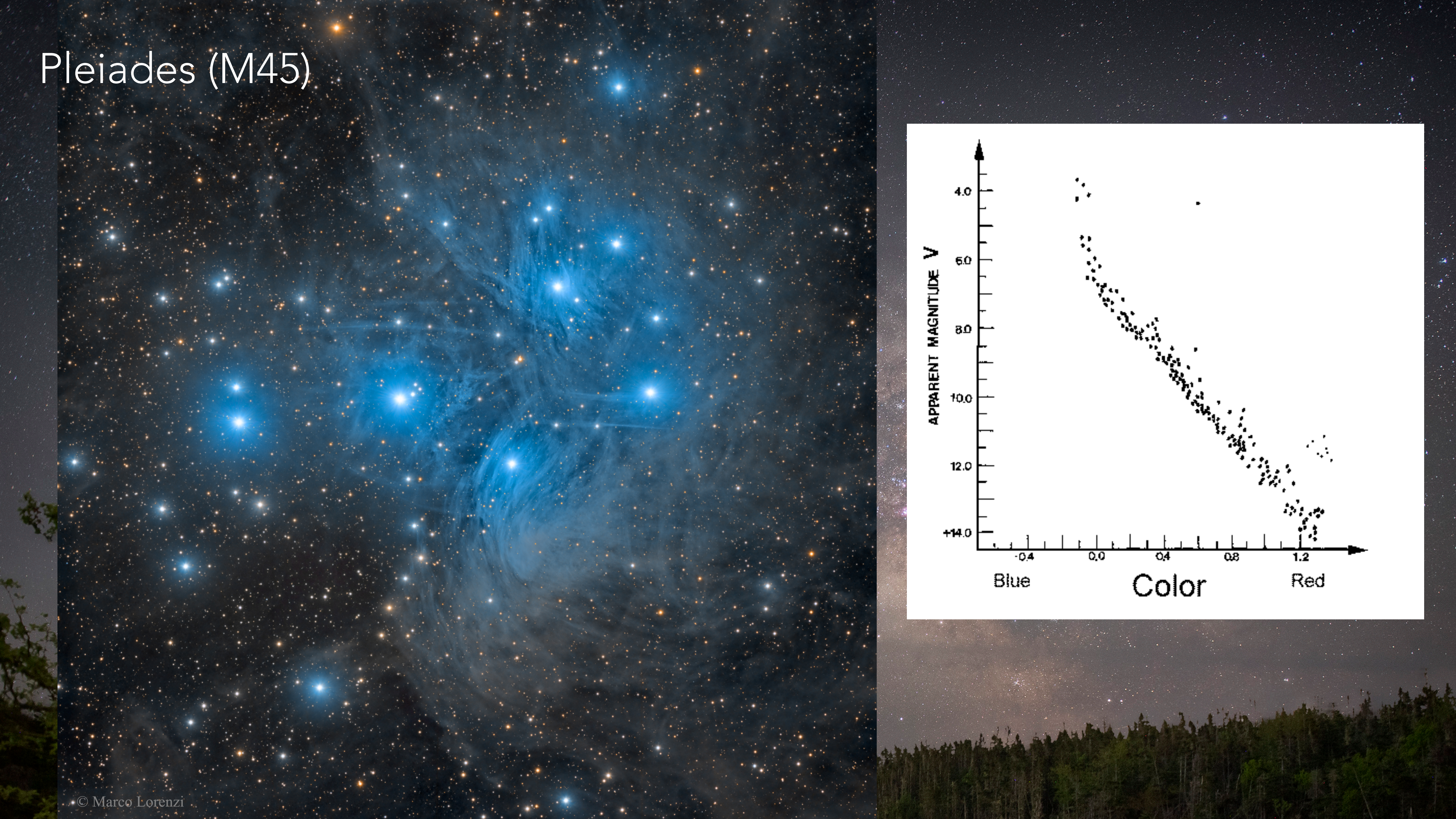
# Hyades



# Hyades

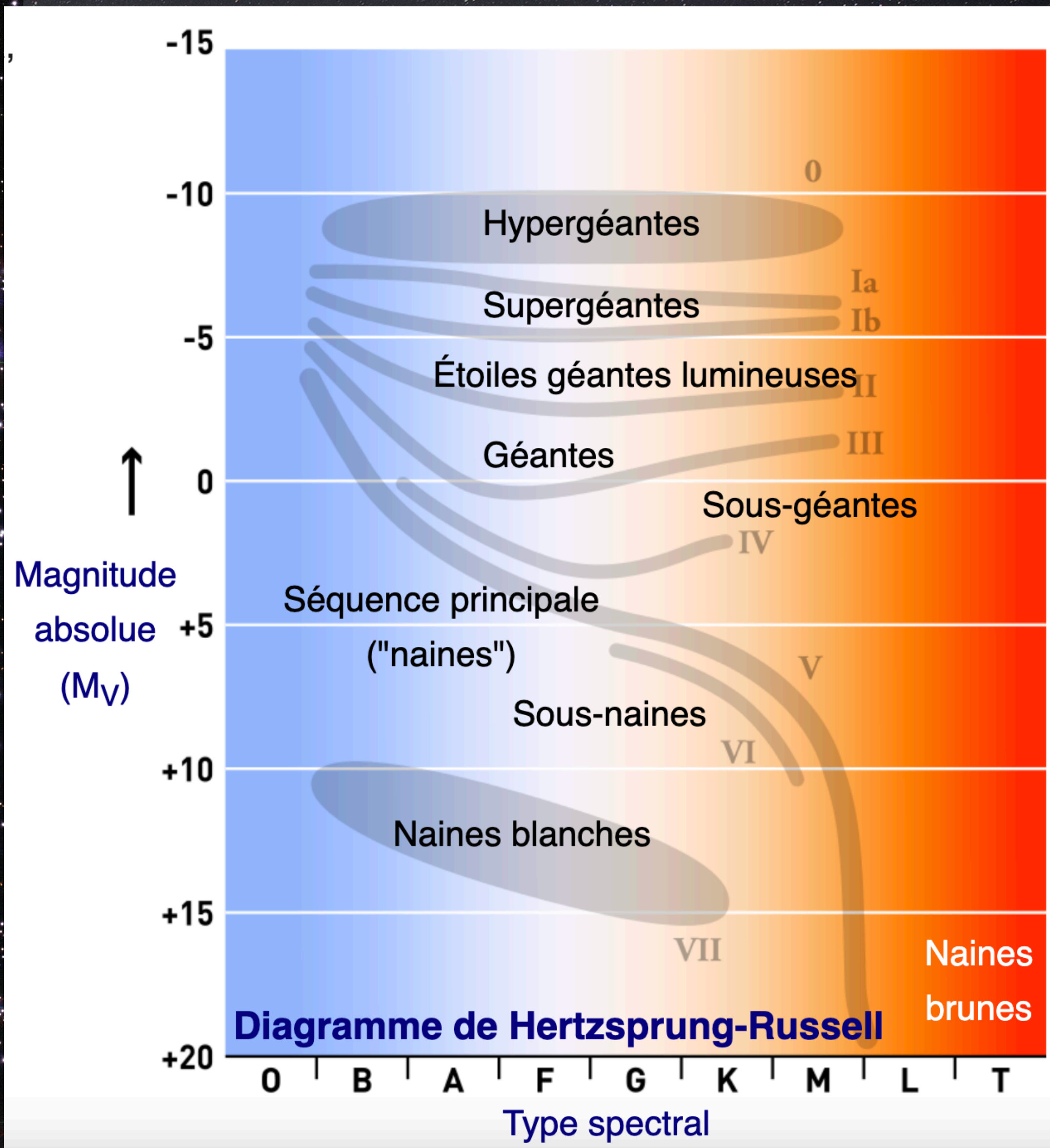
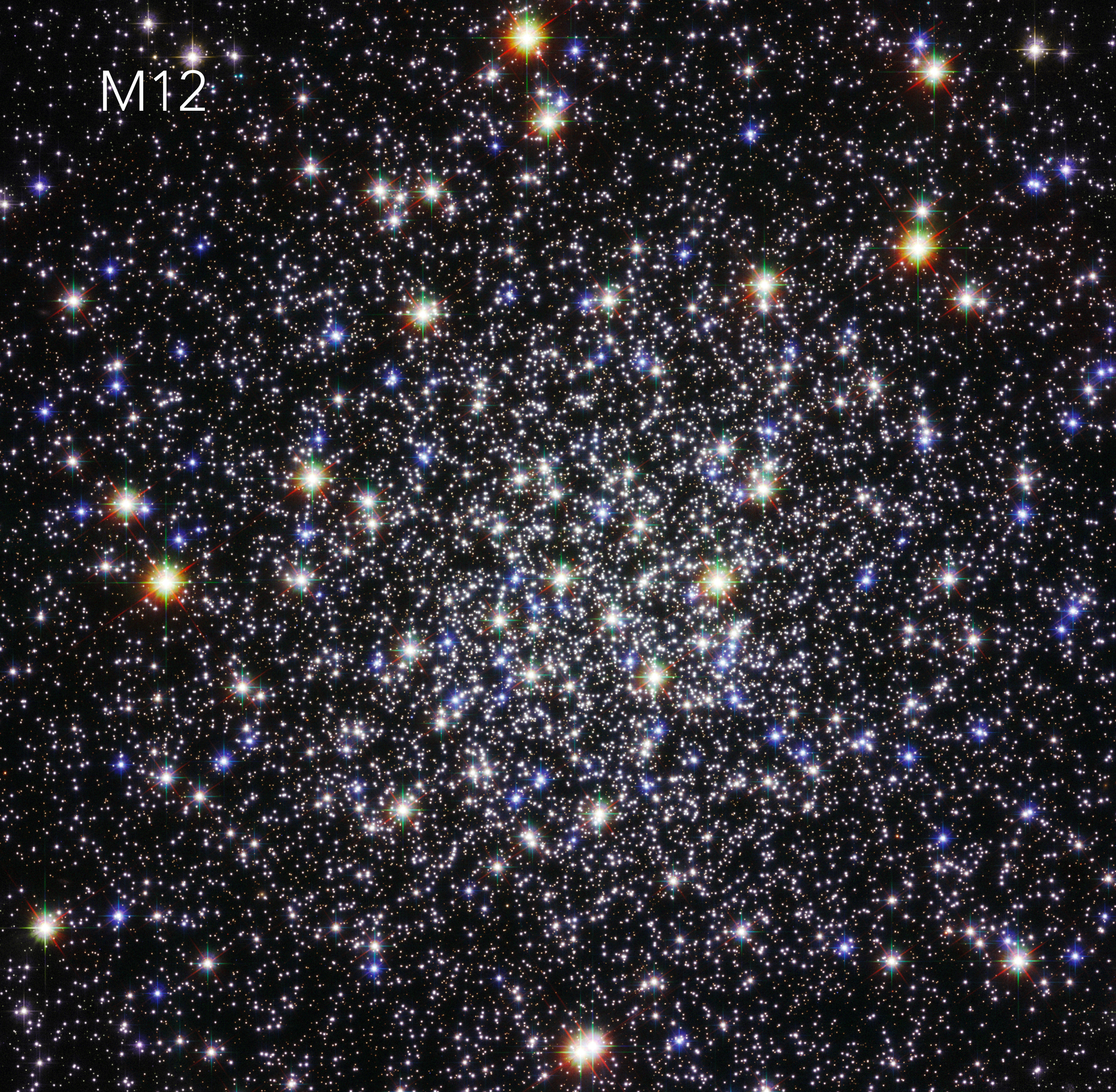


# Pleiades (M45)

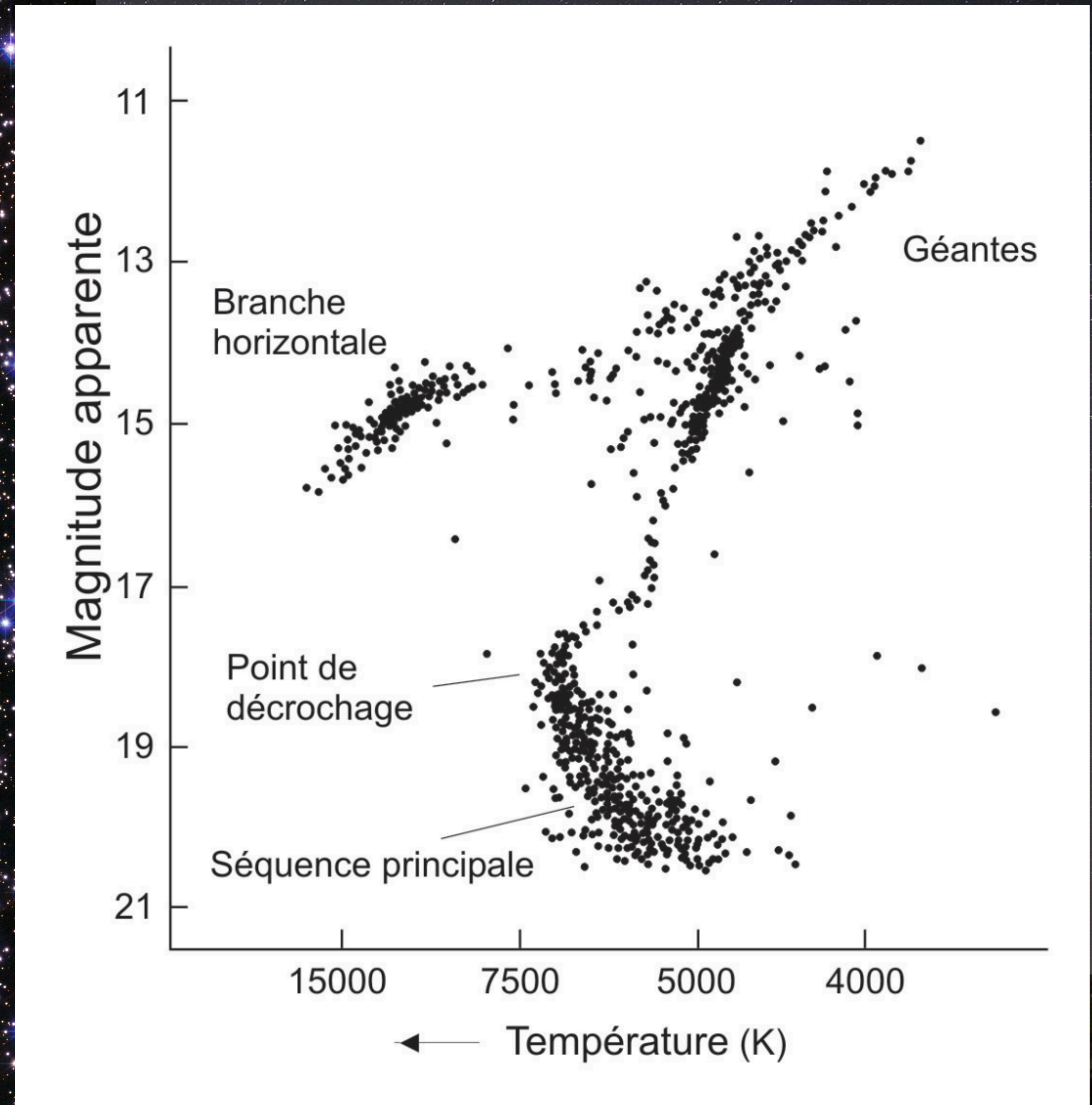
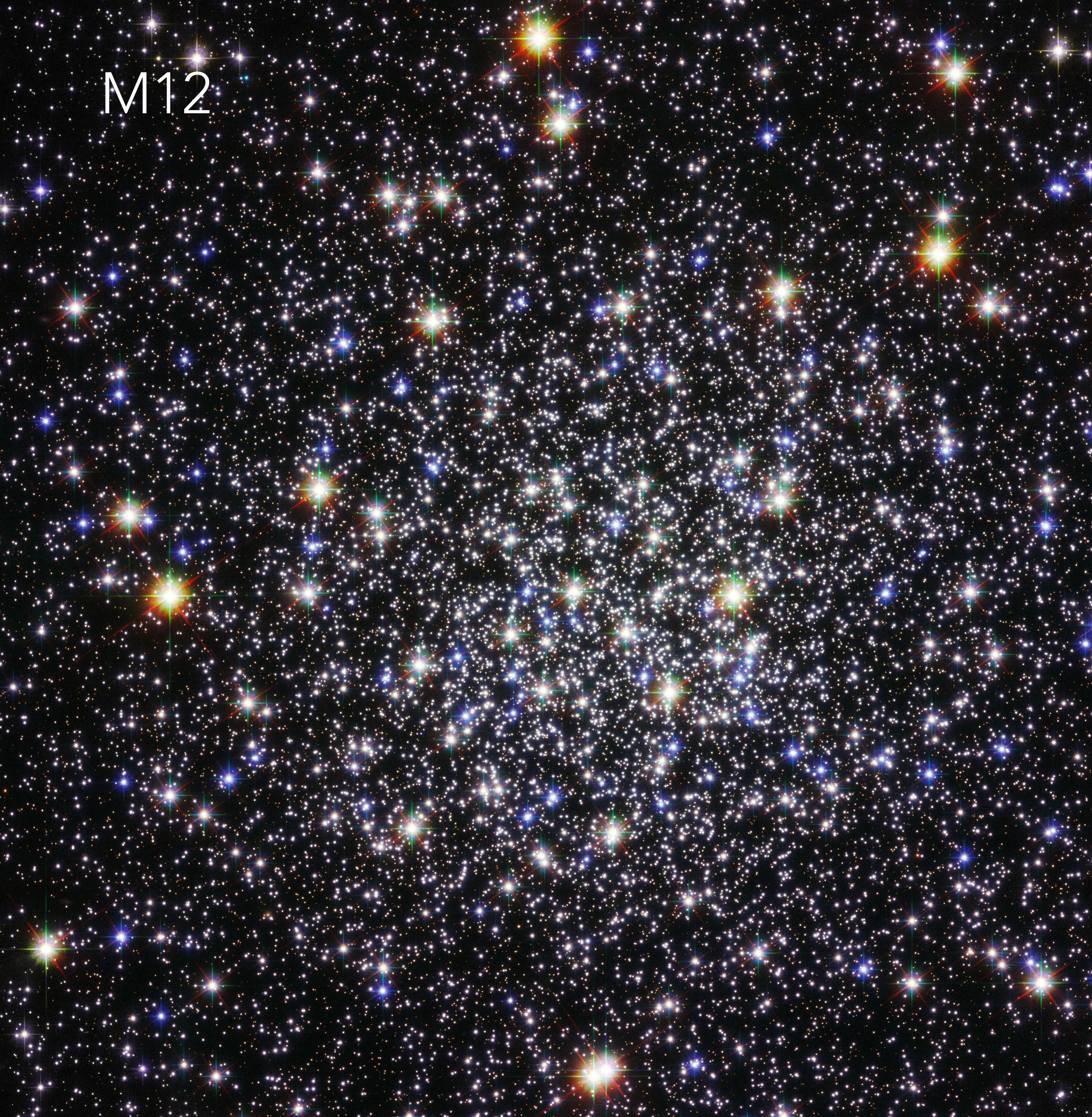


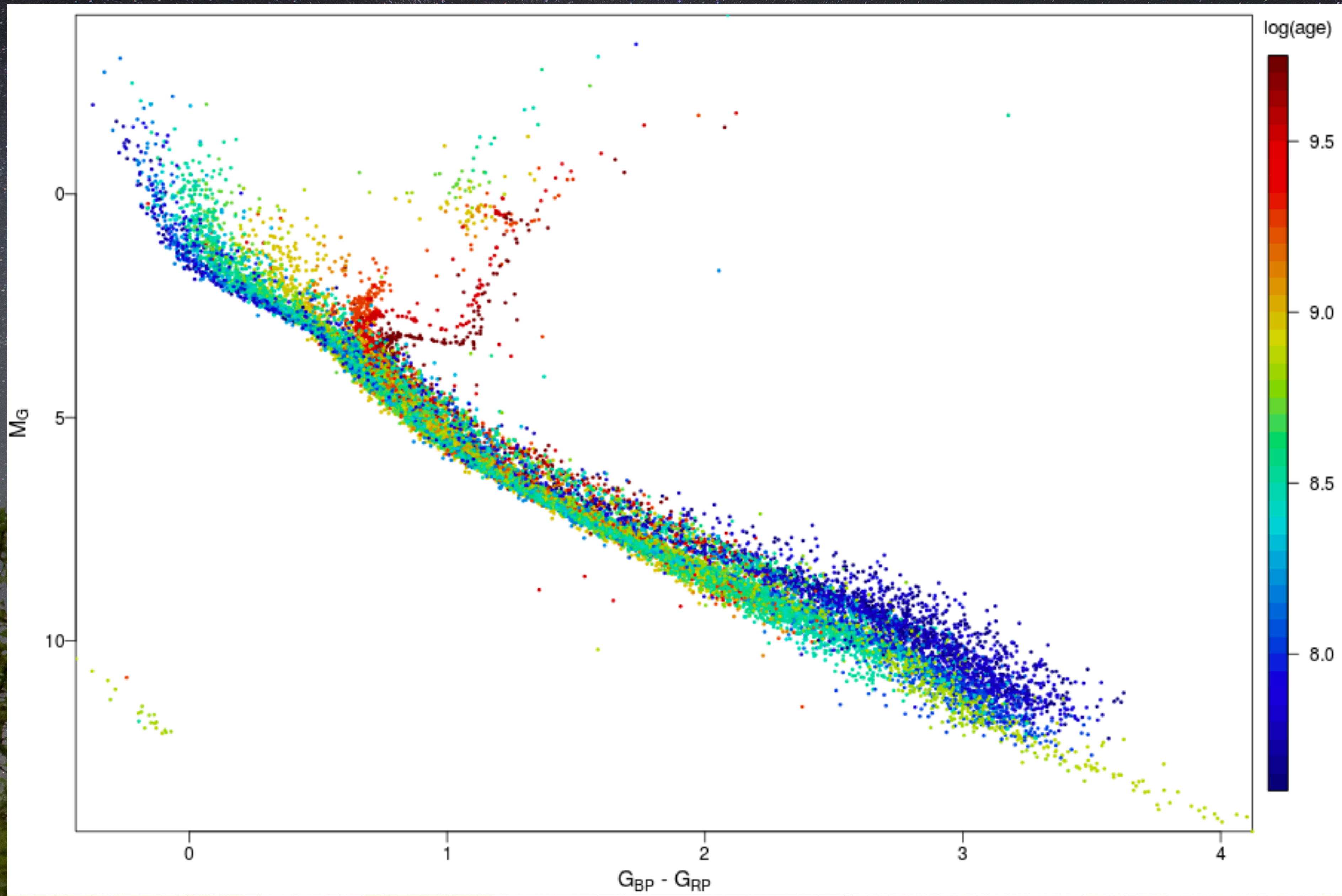


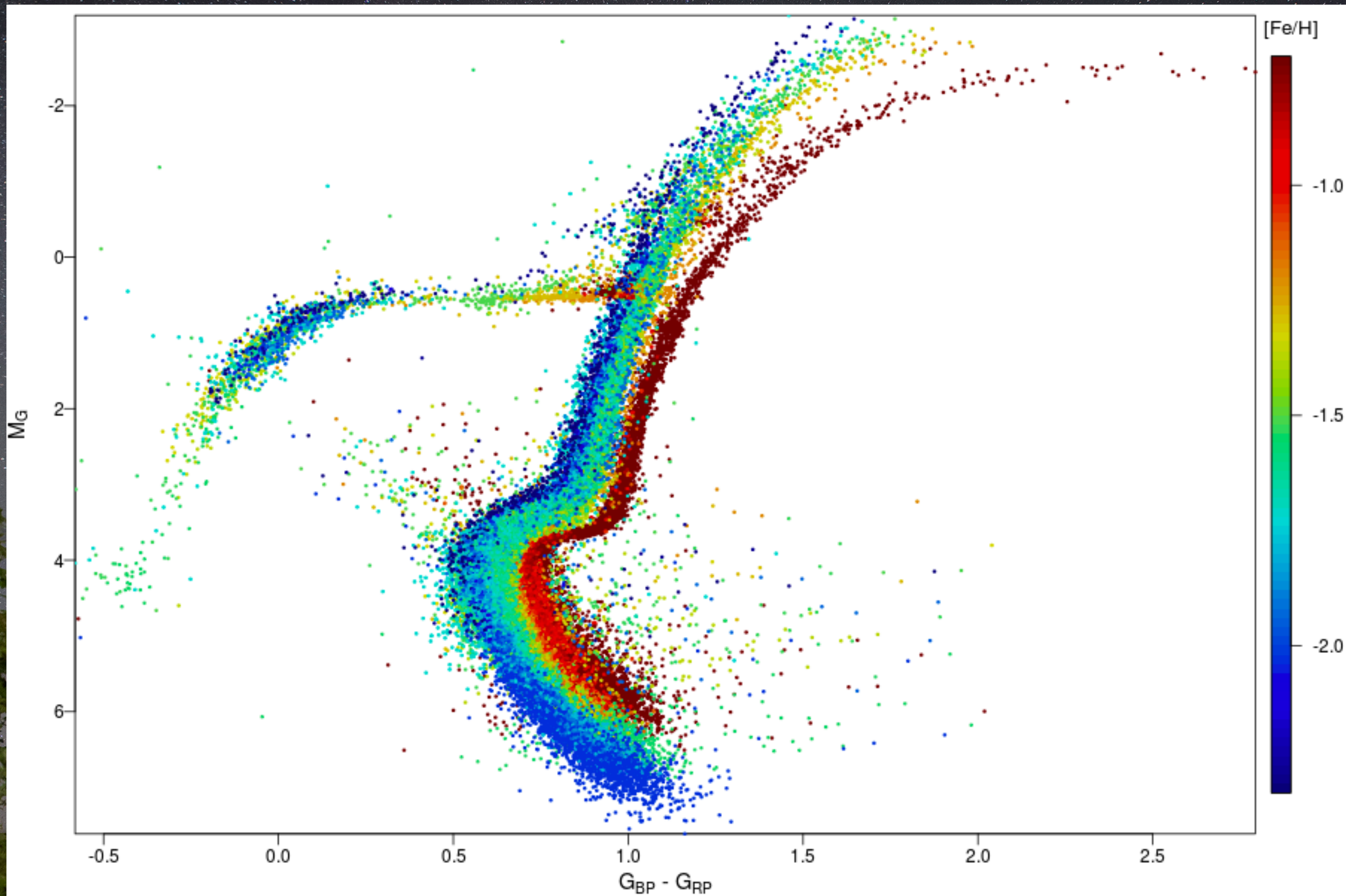
M12



M12

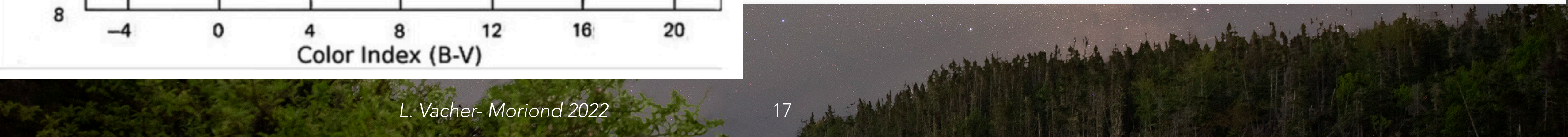
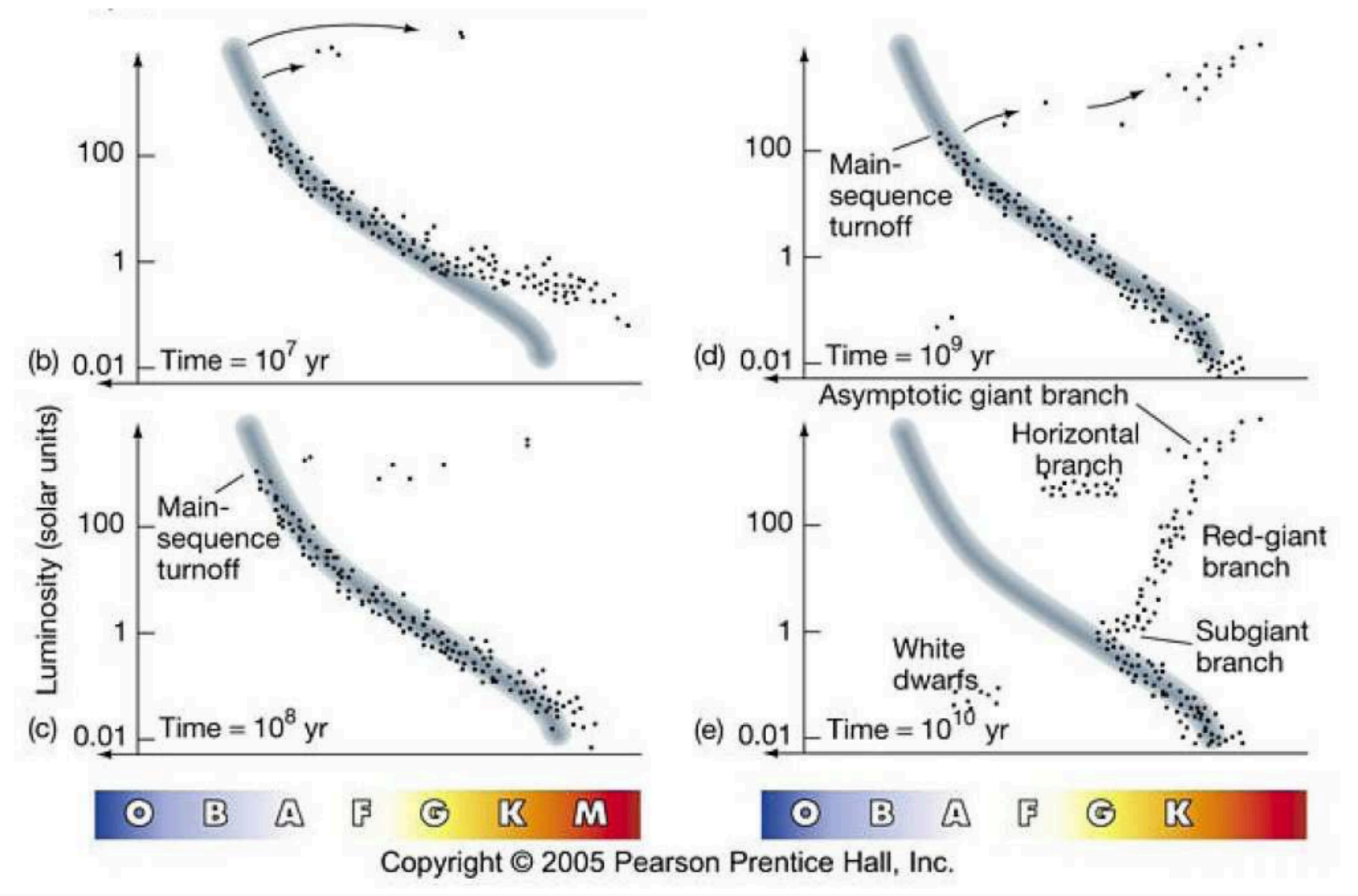
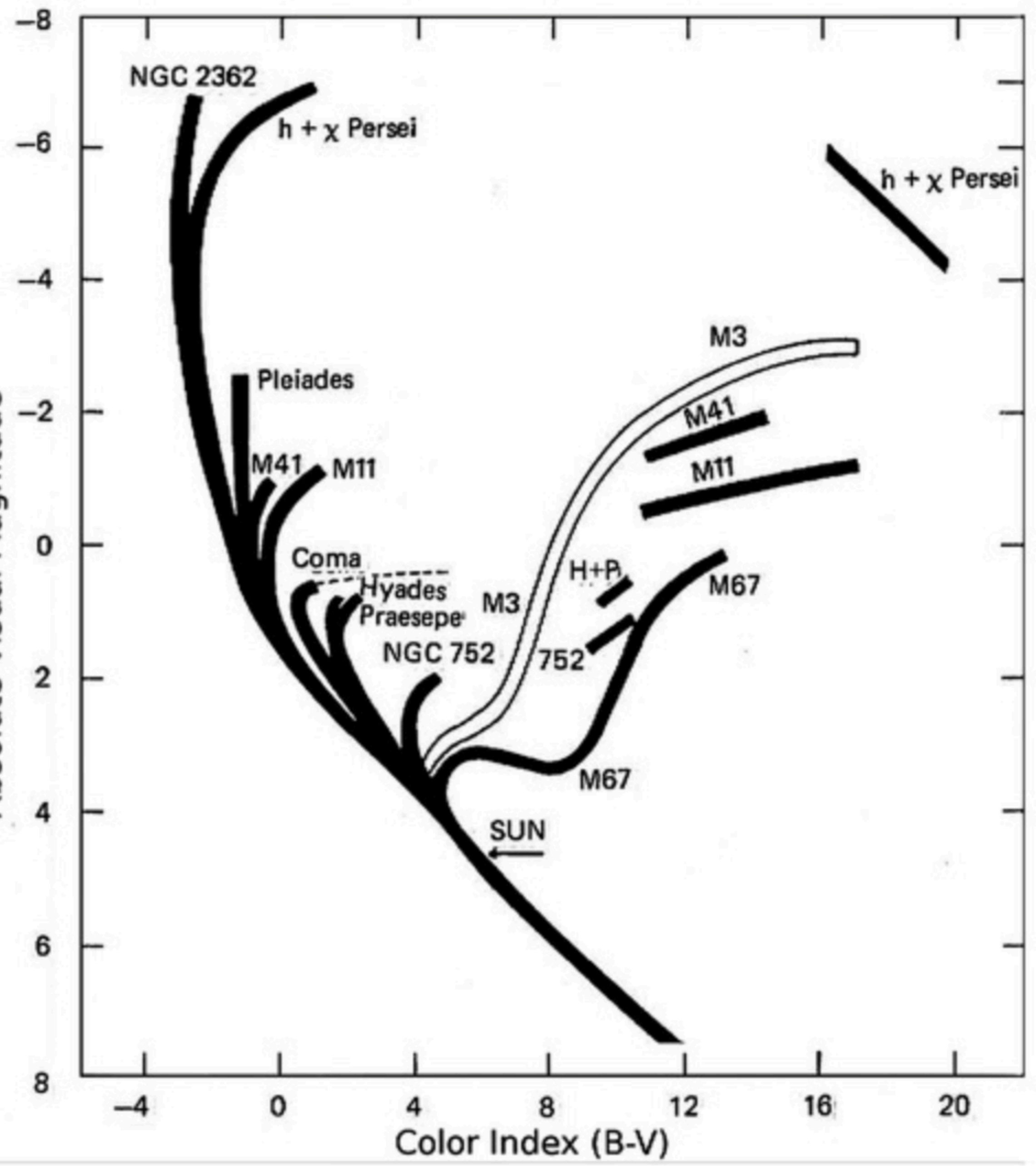








Absolute Visual Magnitude



M2



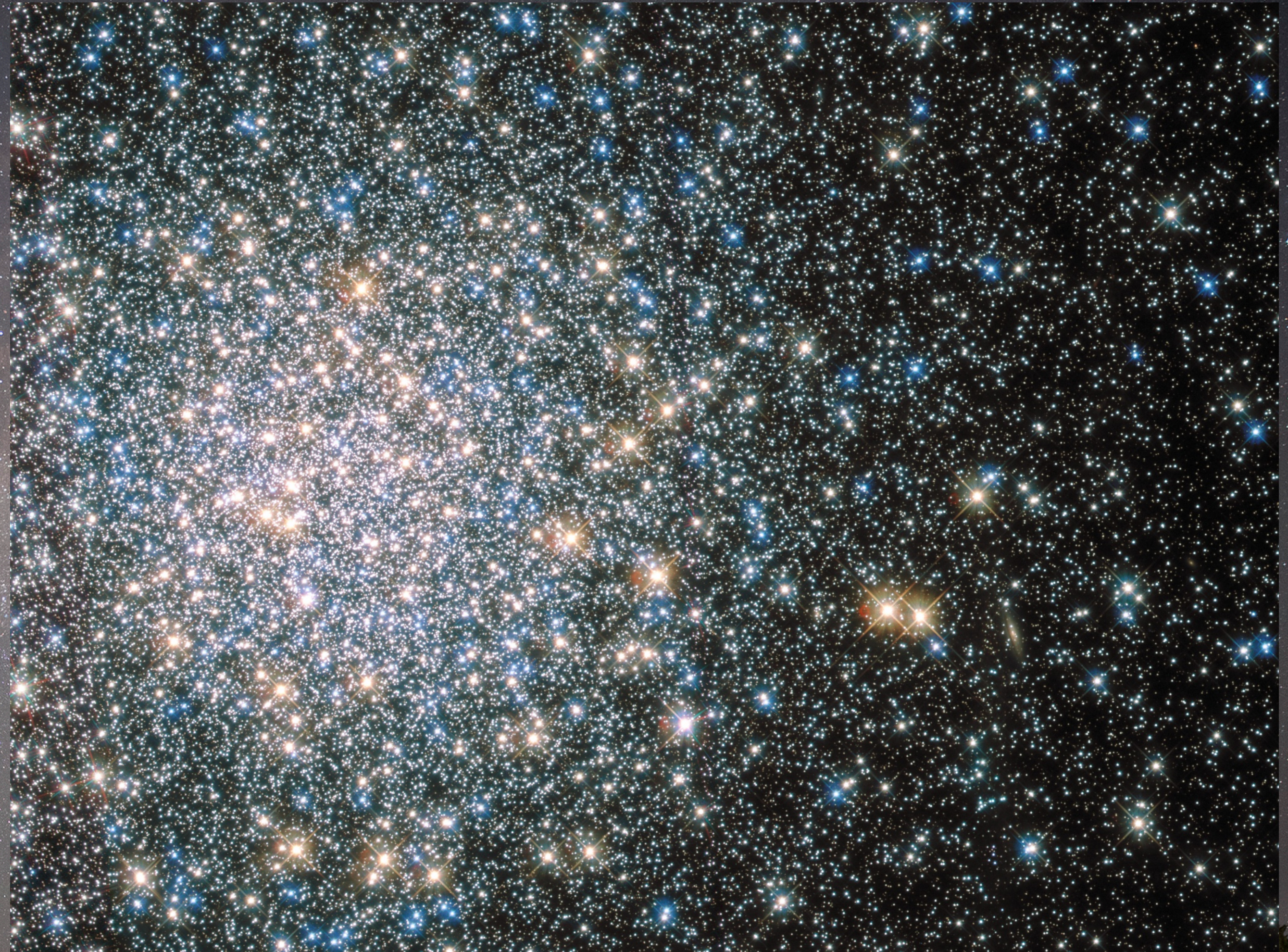
M13



M5



M5







# The 119 globular clusters within 50,000 LY of the galactic centre

Galactic centric (galactic longitude and latitude)

5,000 LY

