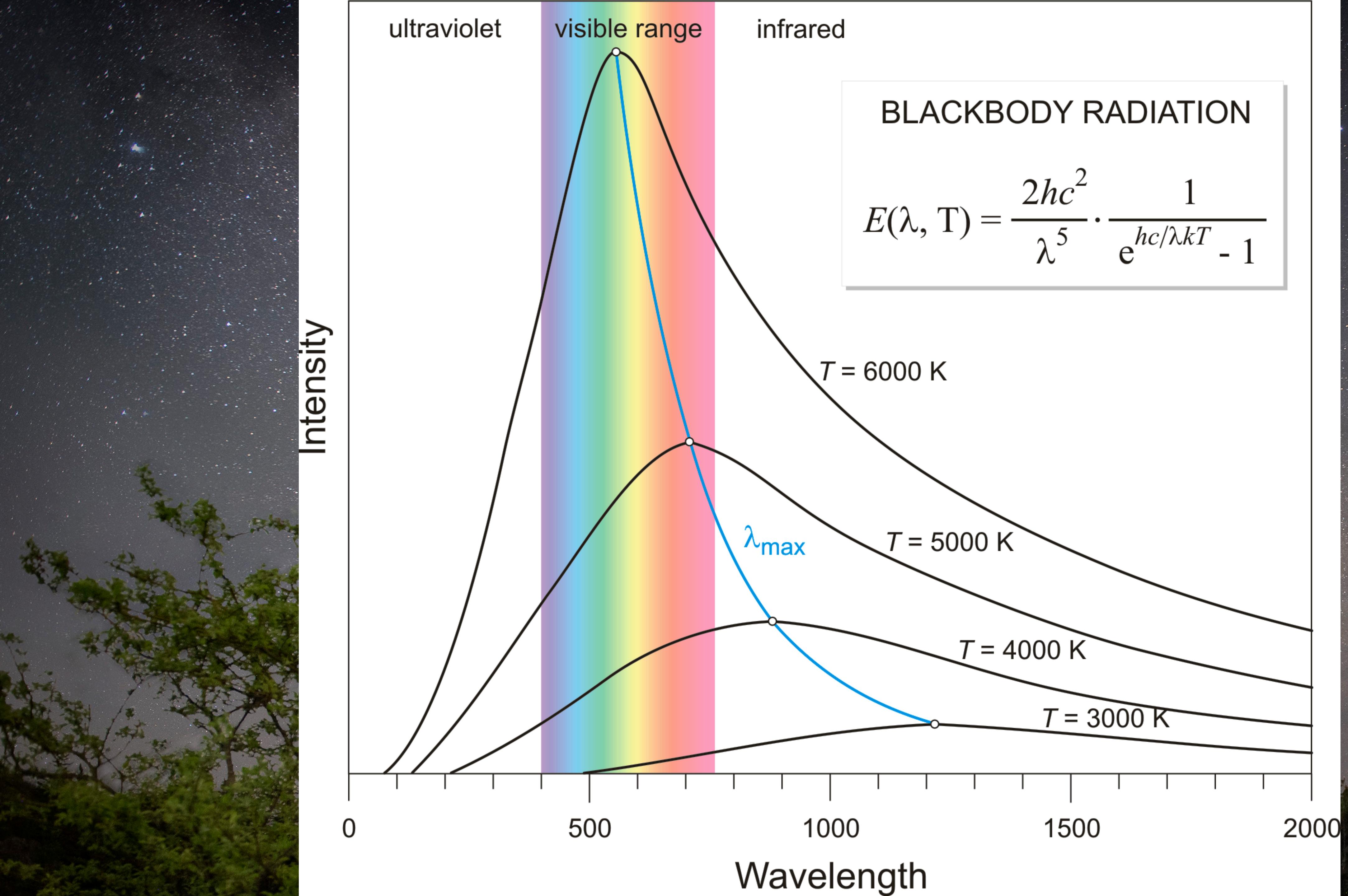


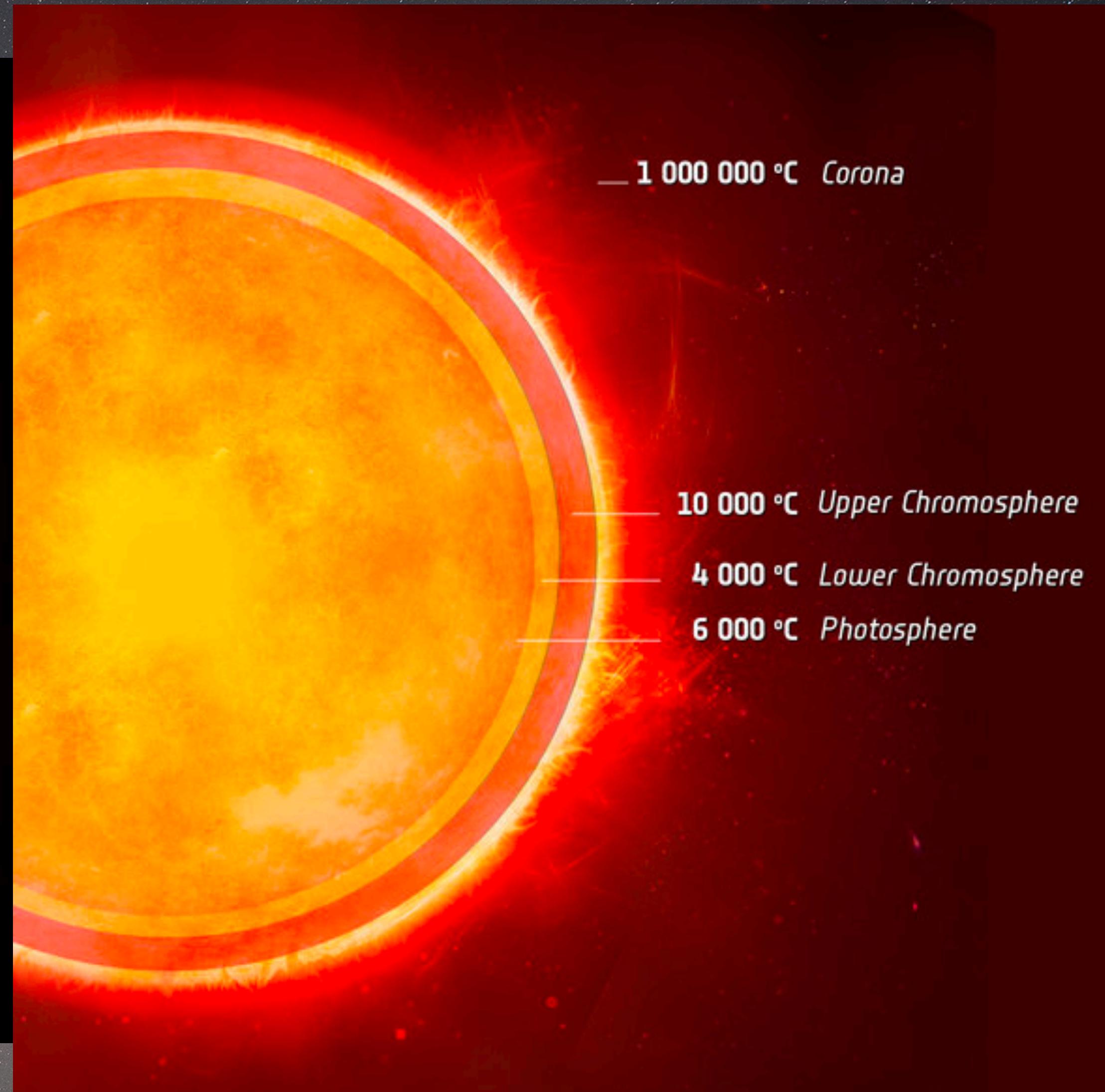
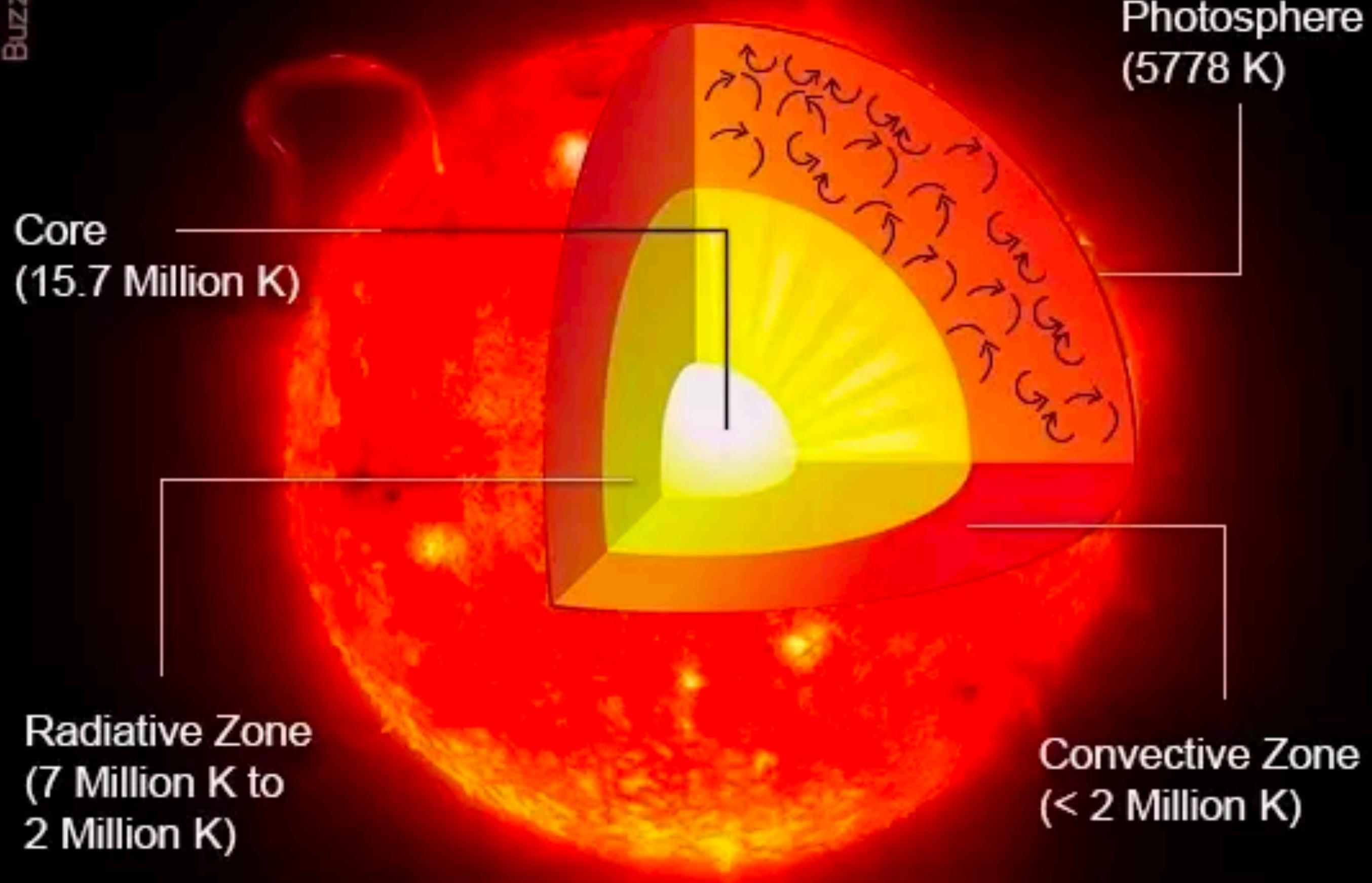
# Stellar evolution and HR diagrams

L. Vacher -

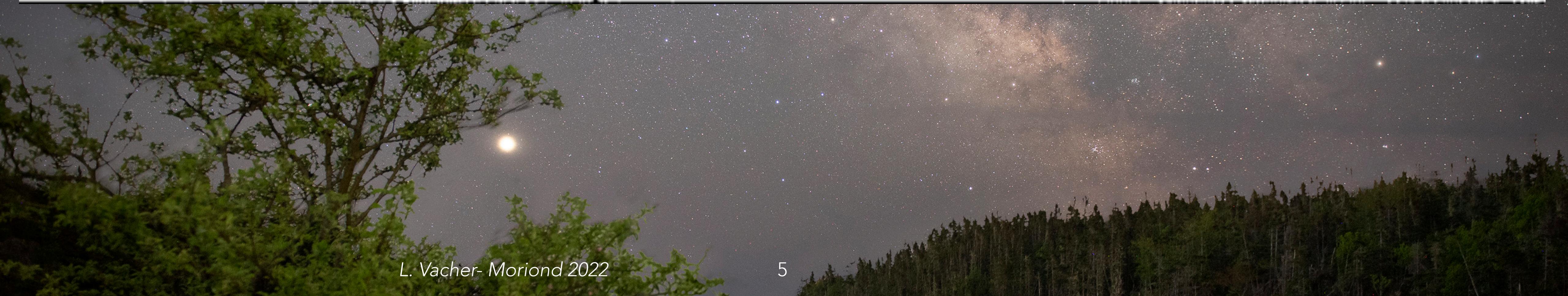




# The Solar Interior



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

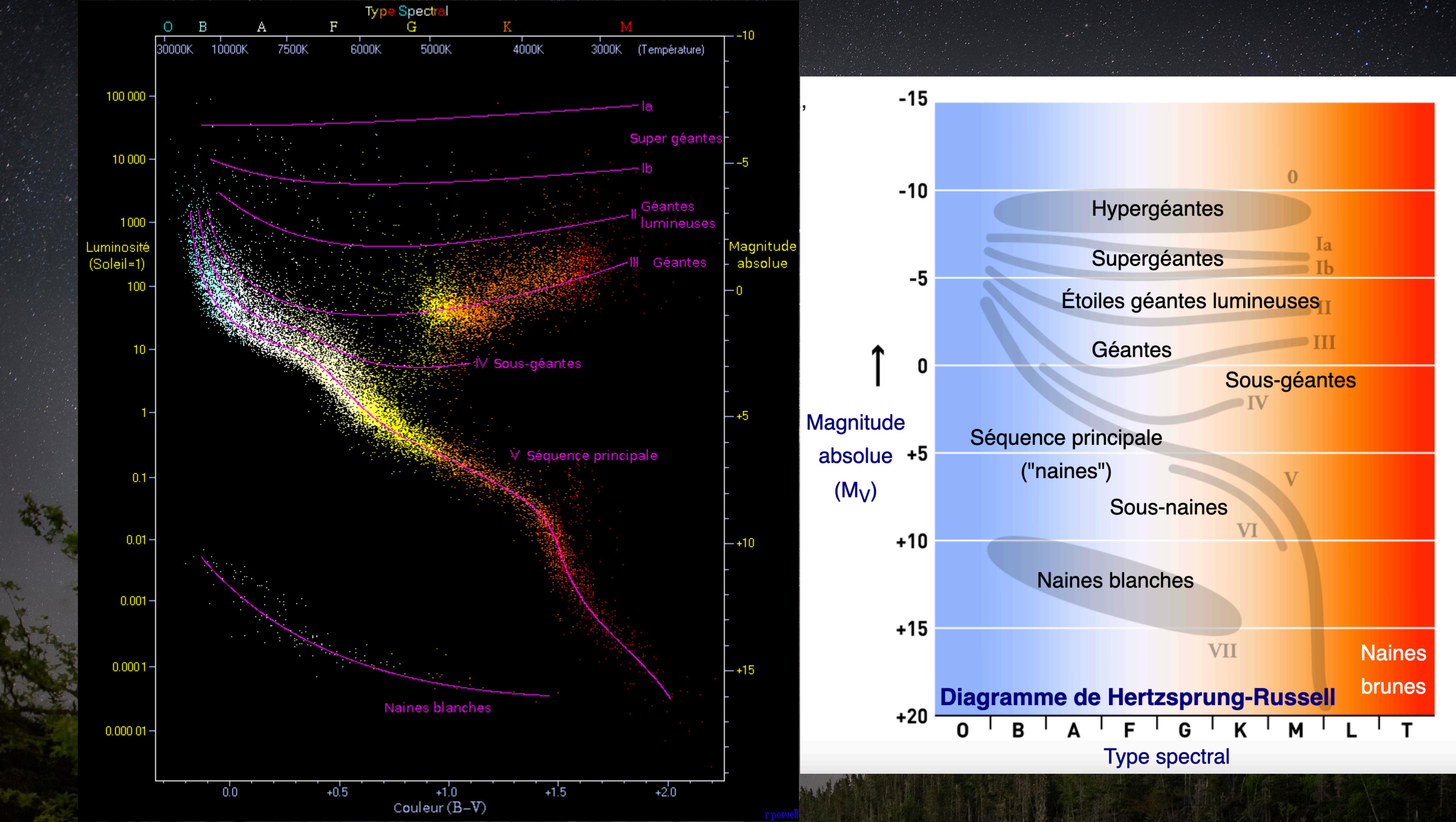
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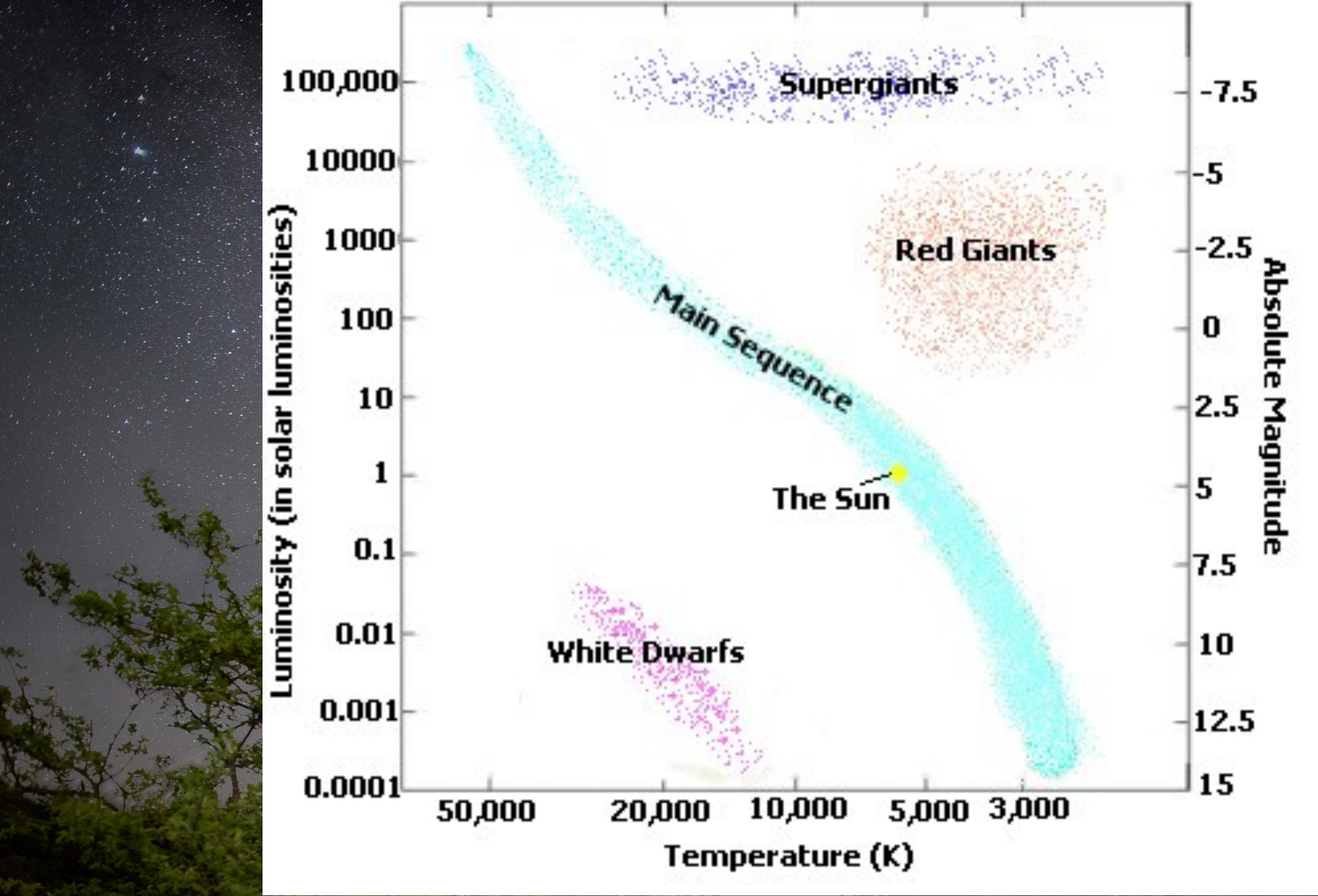
10,000

5,000

0

Kelvins



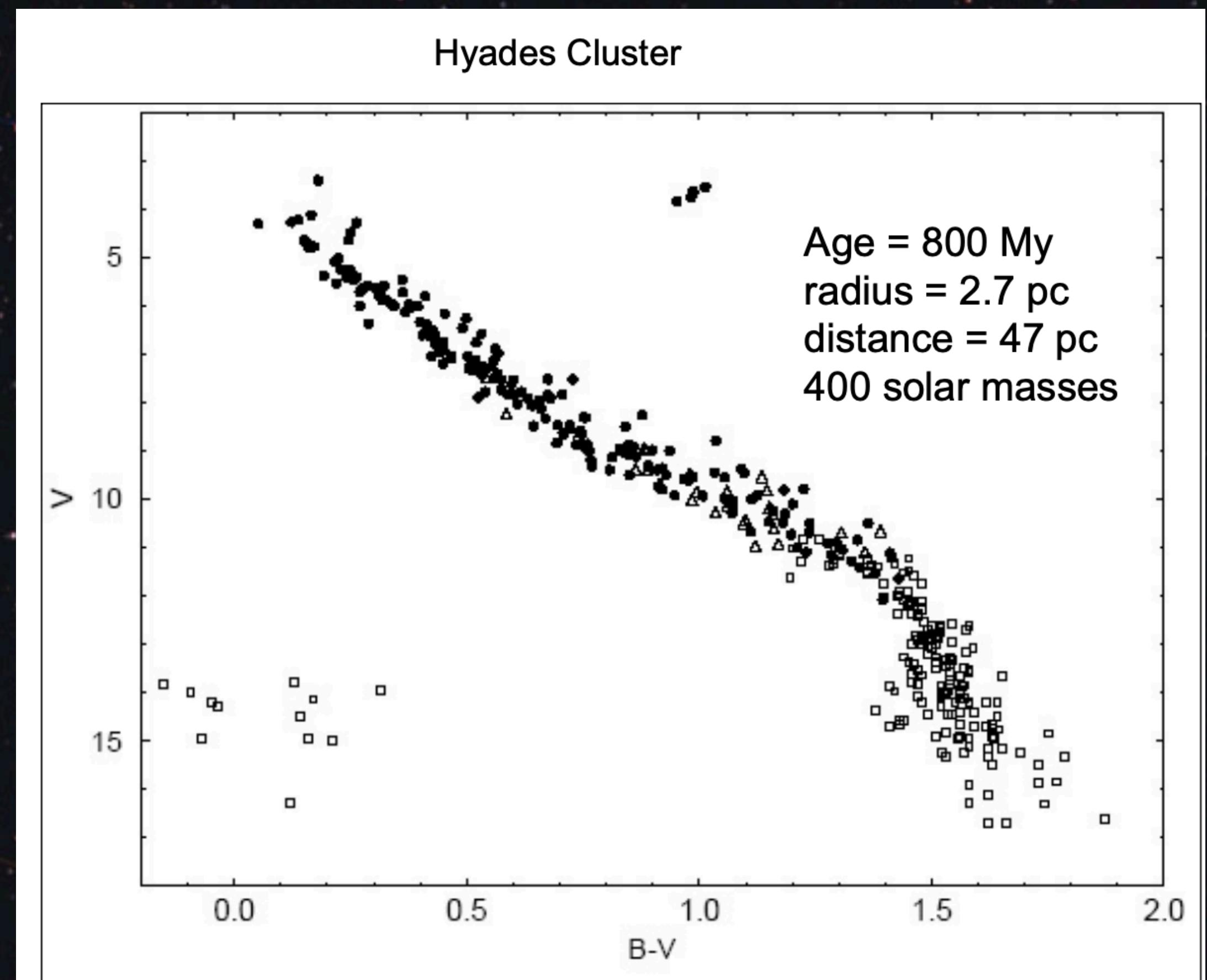
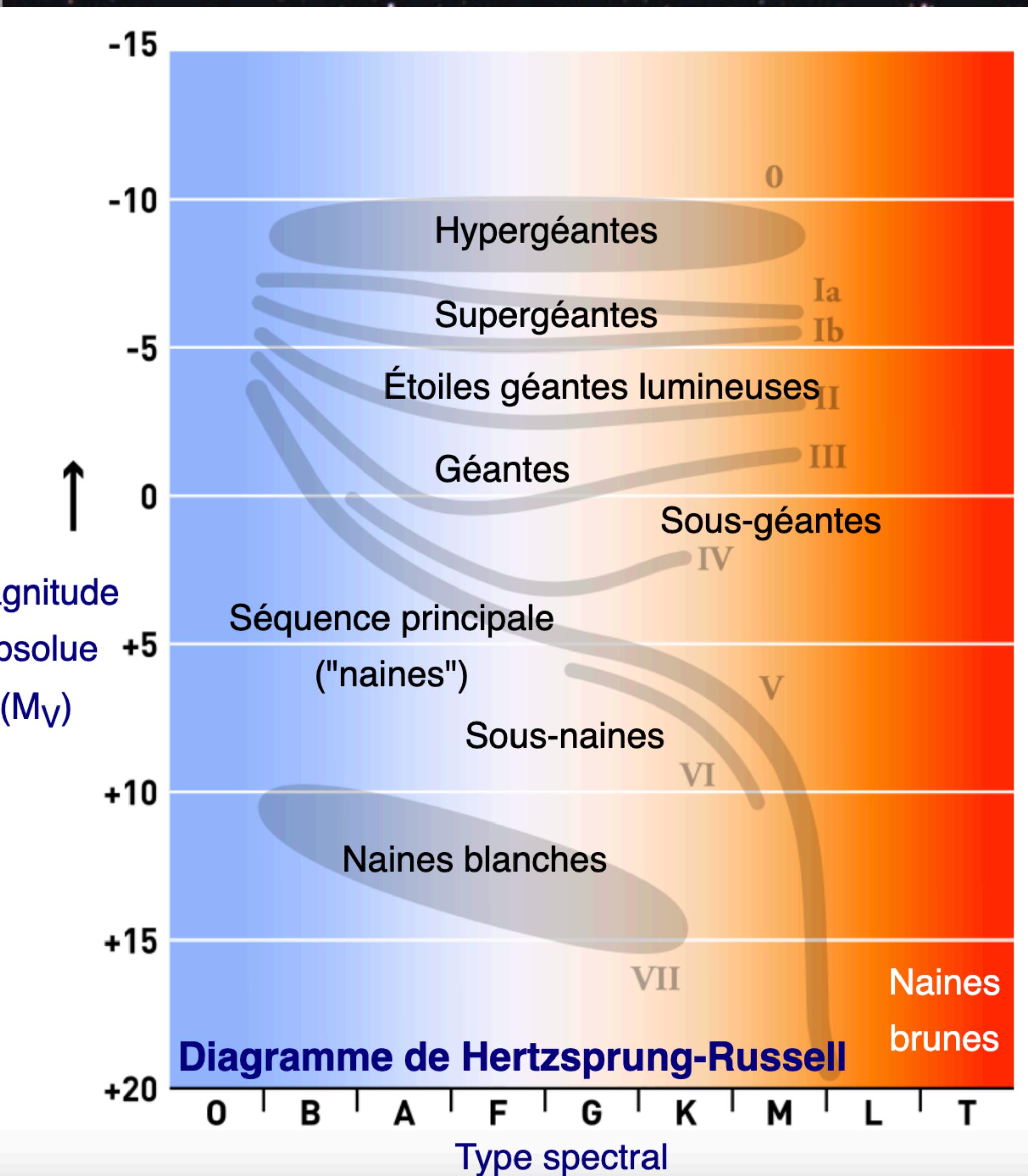


# Hyades

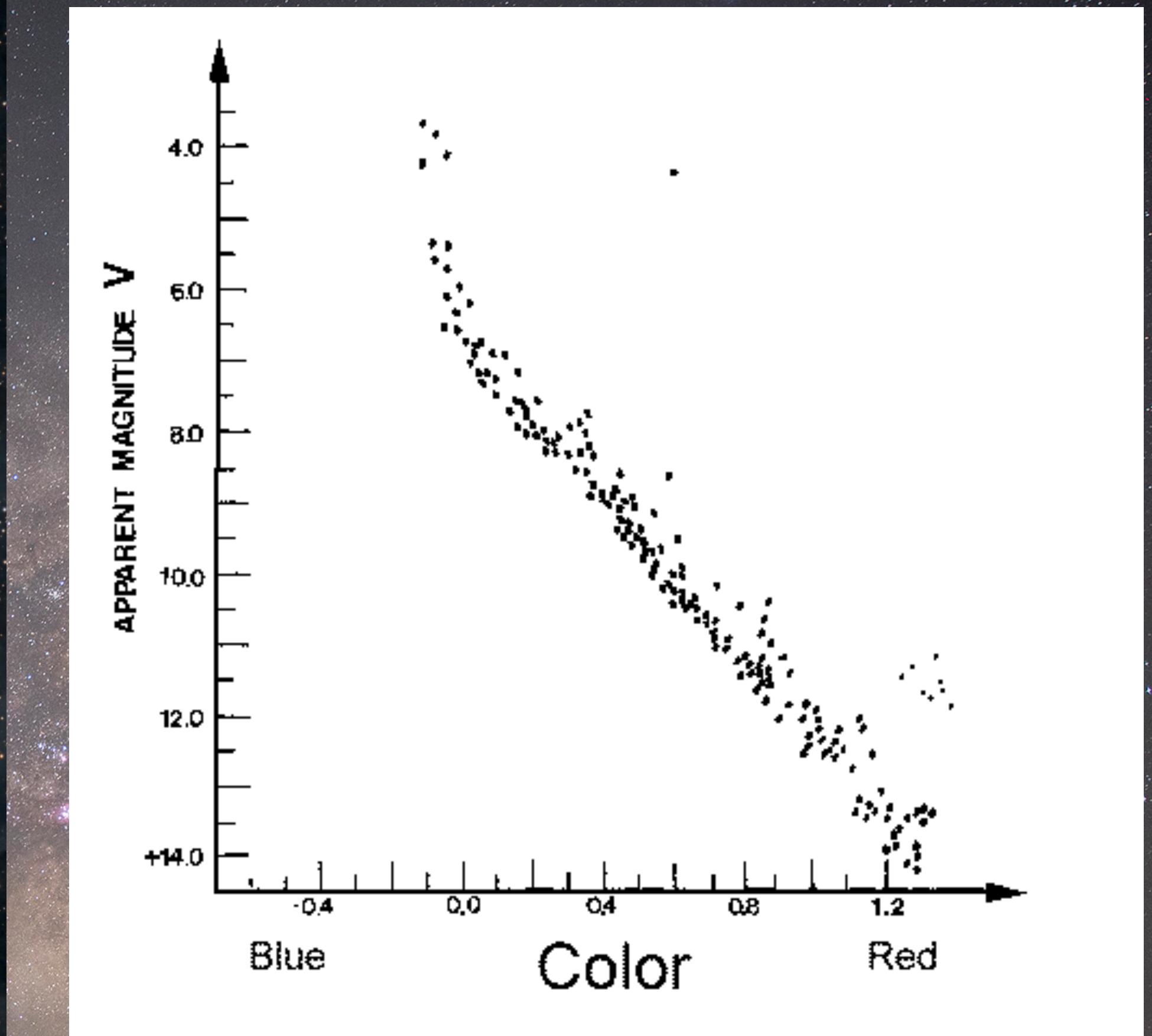


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# Hyades

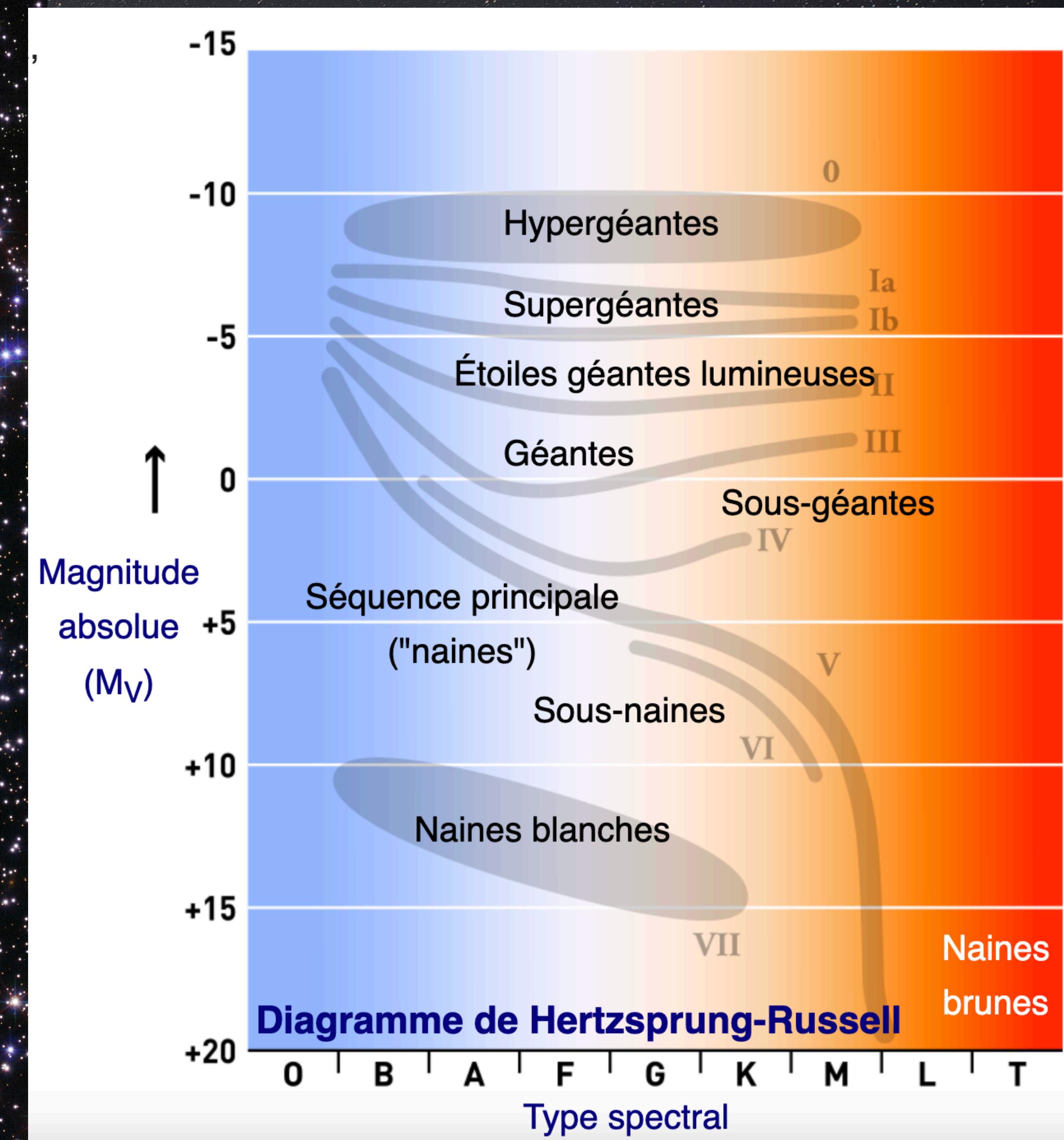
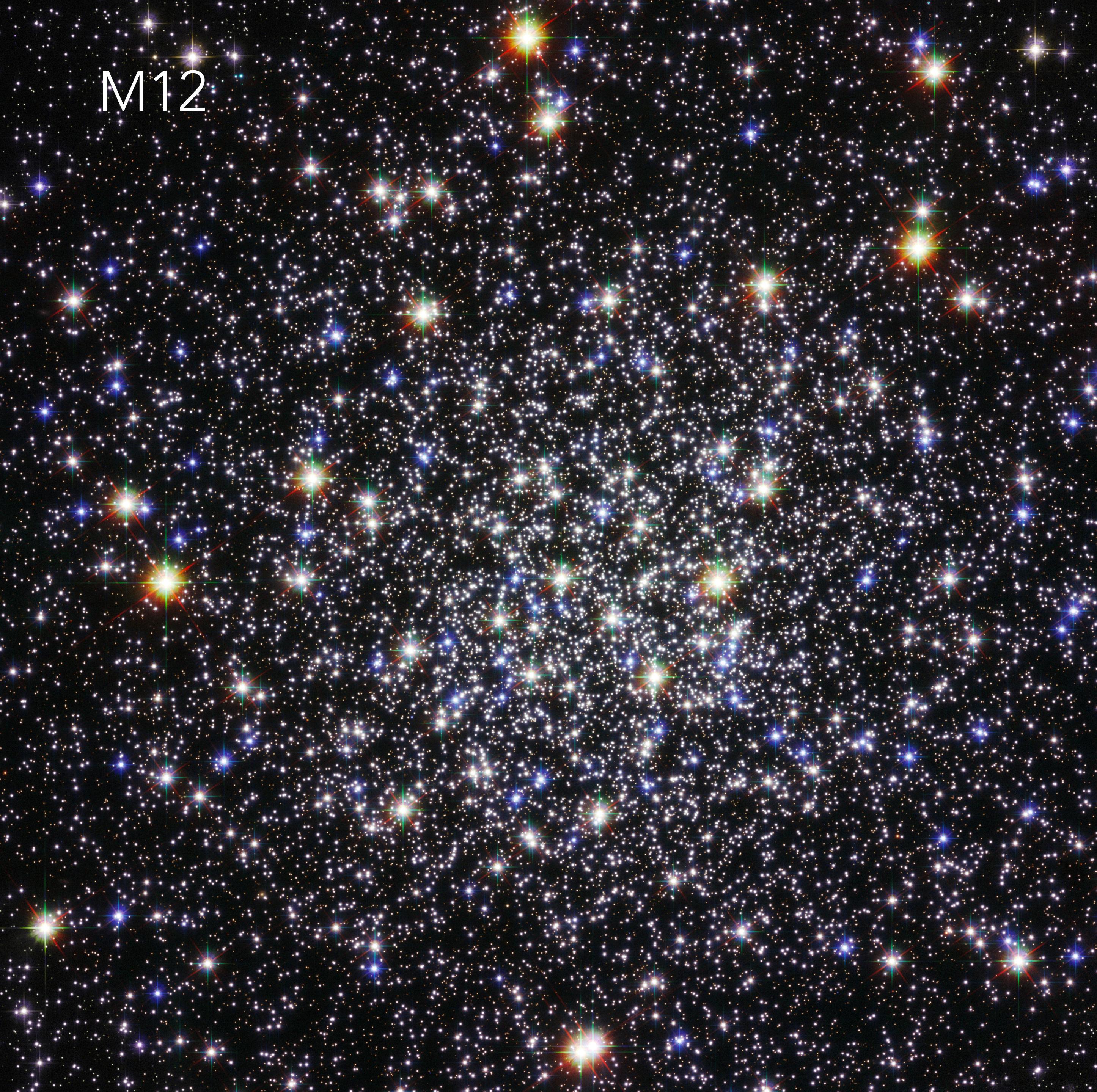


# Pleiades (M45)

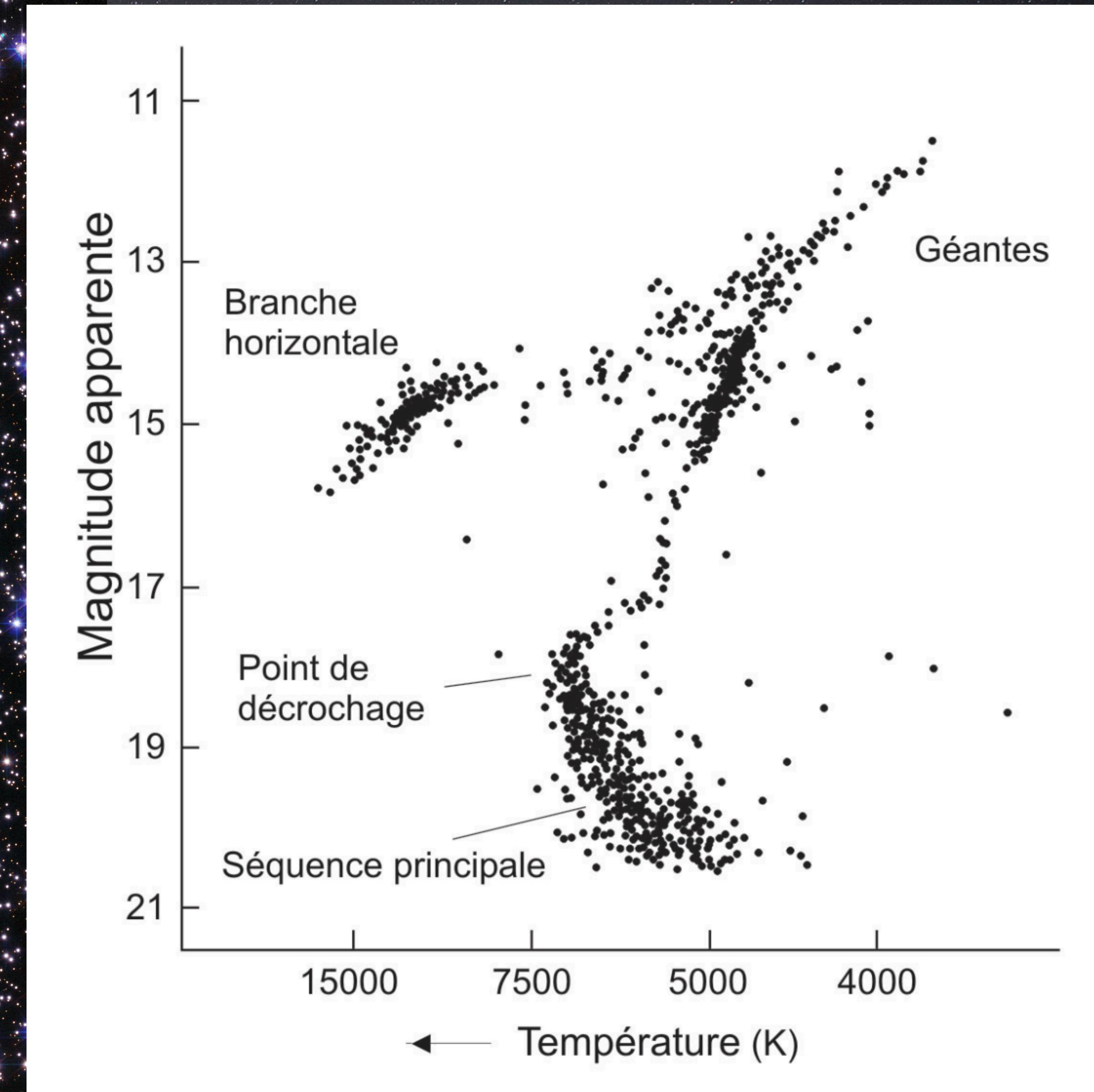


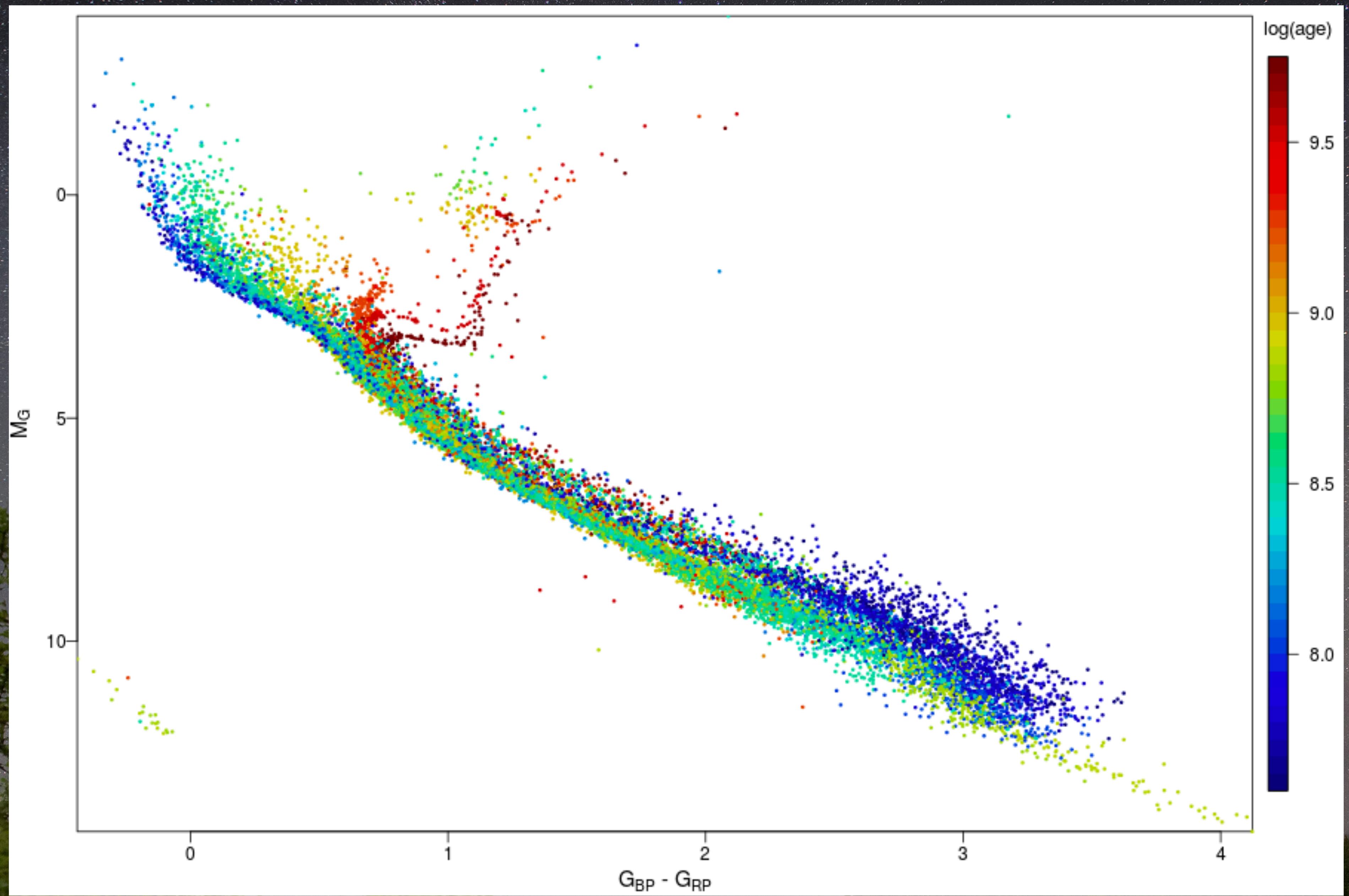


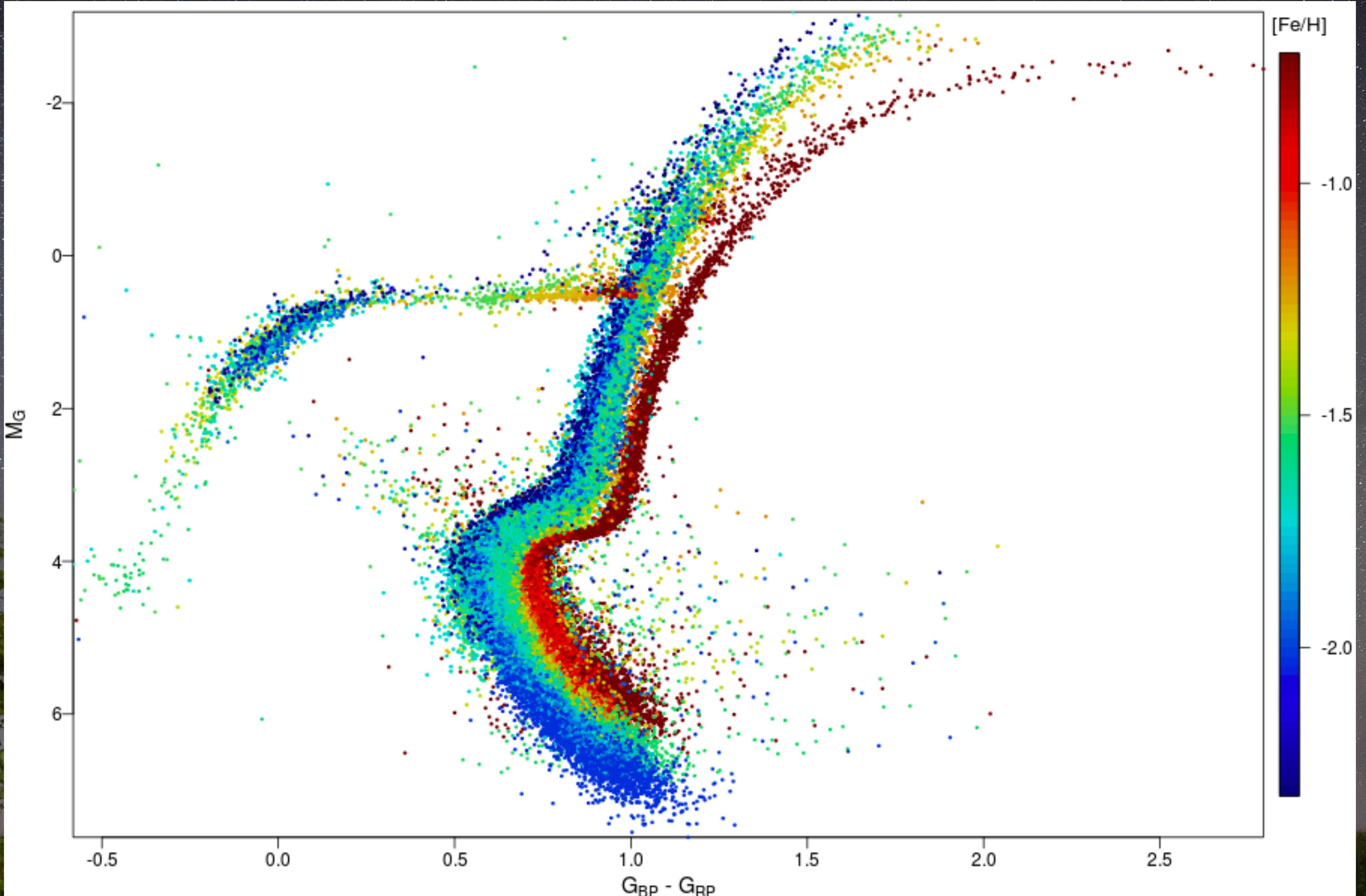
M12

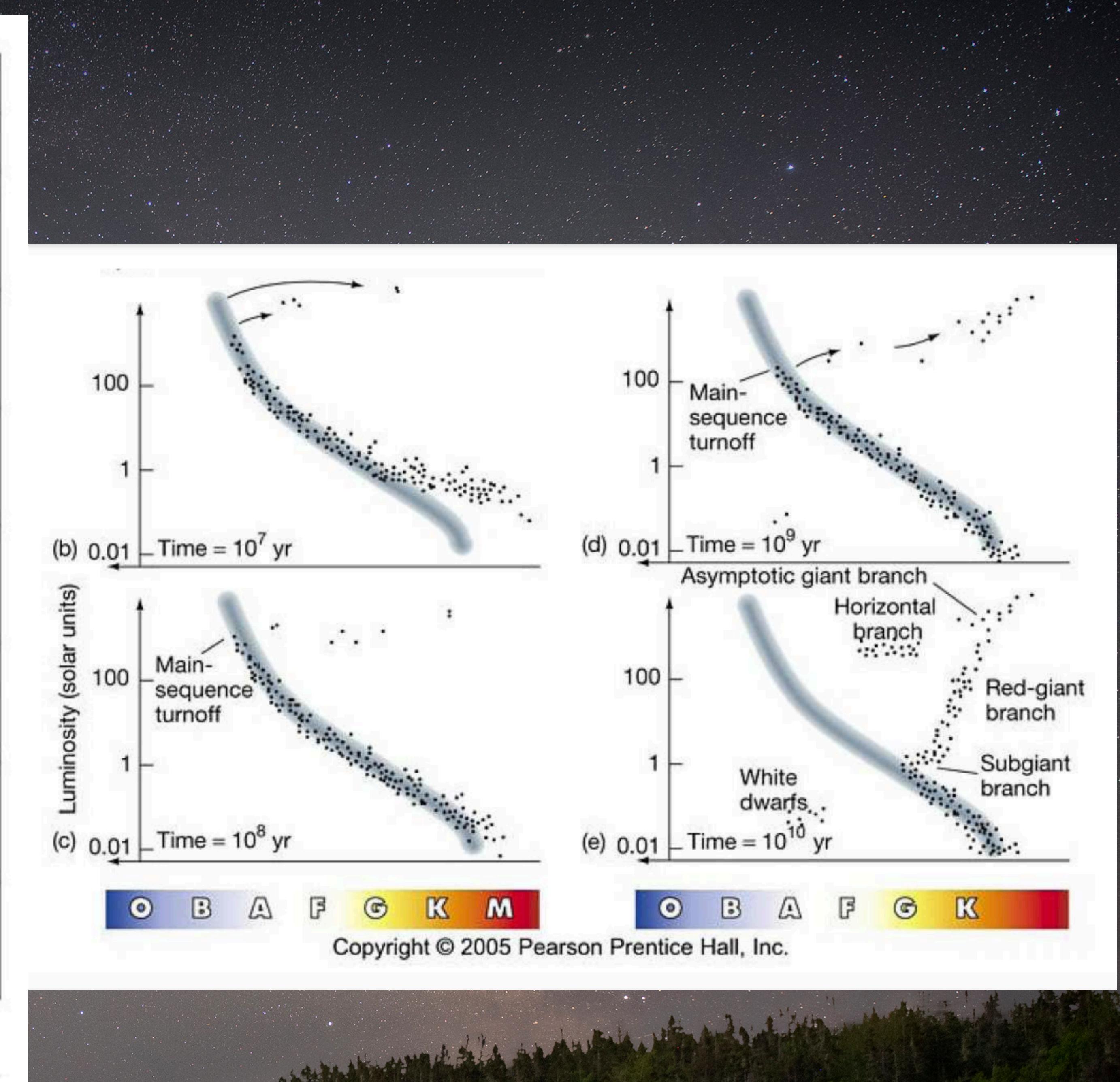
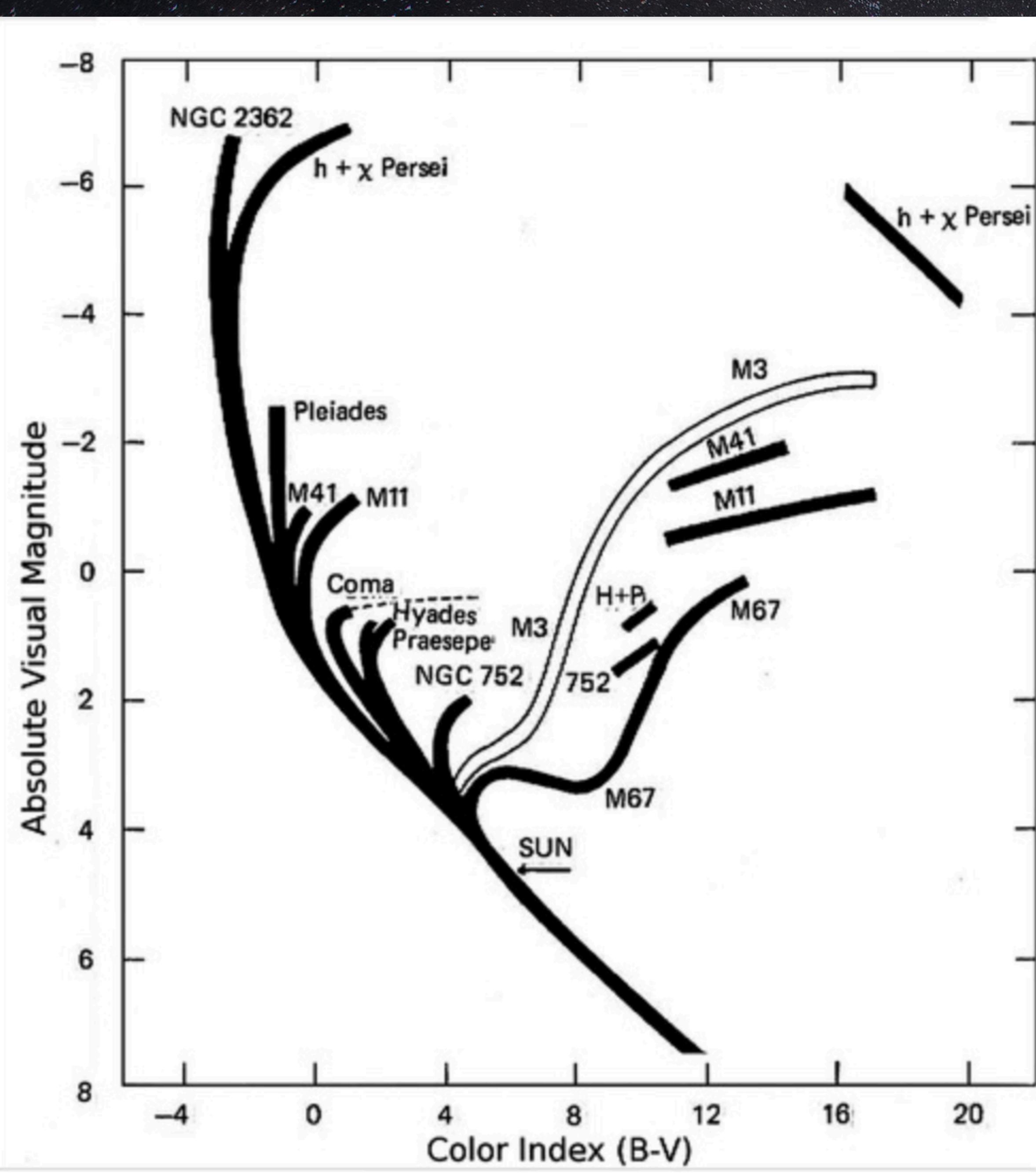


M12









M2



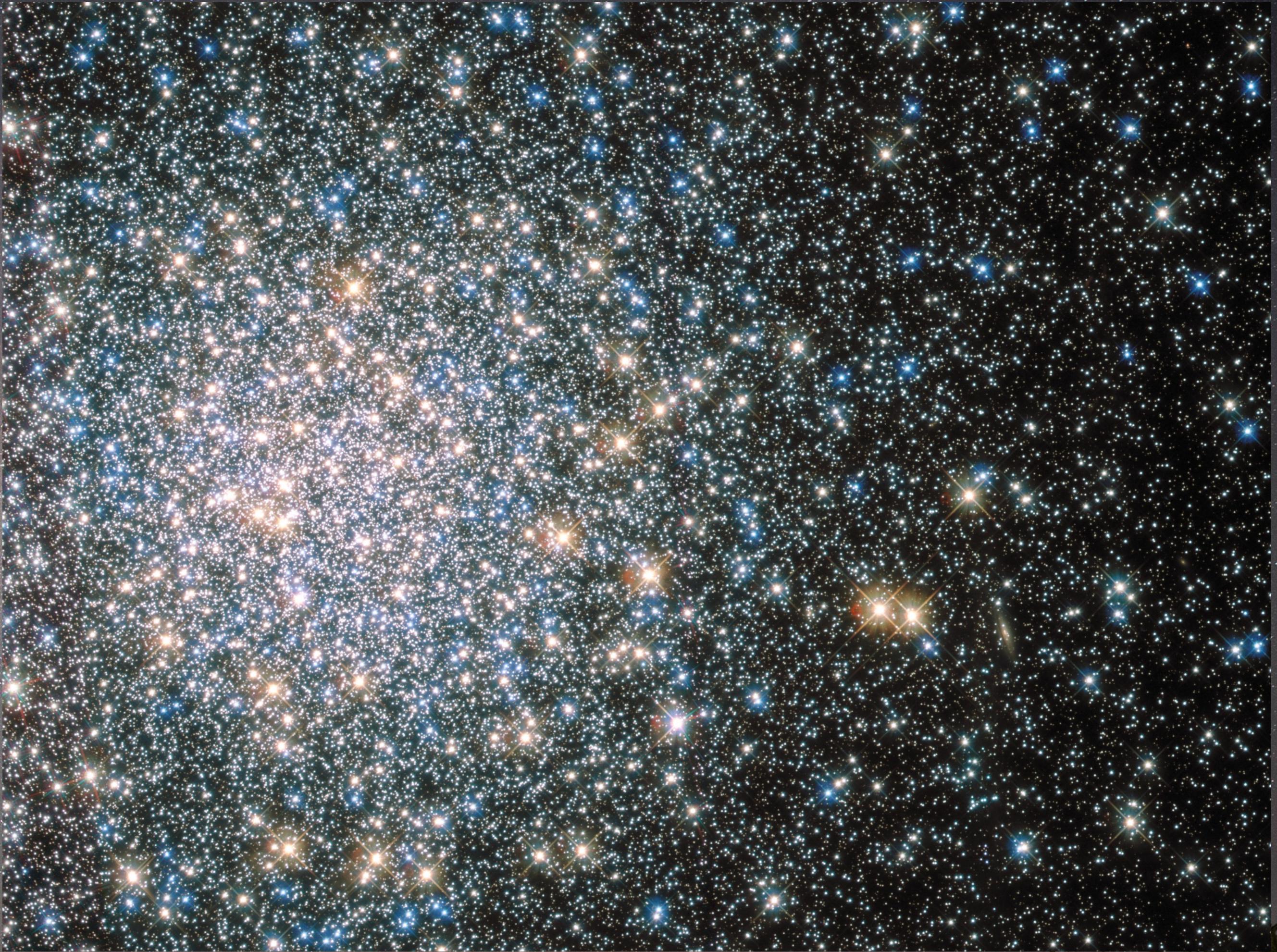
M13



M5



M5

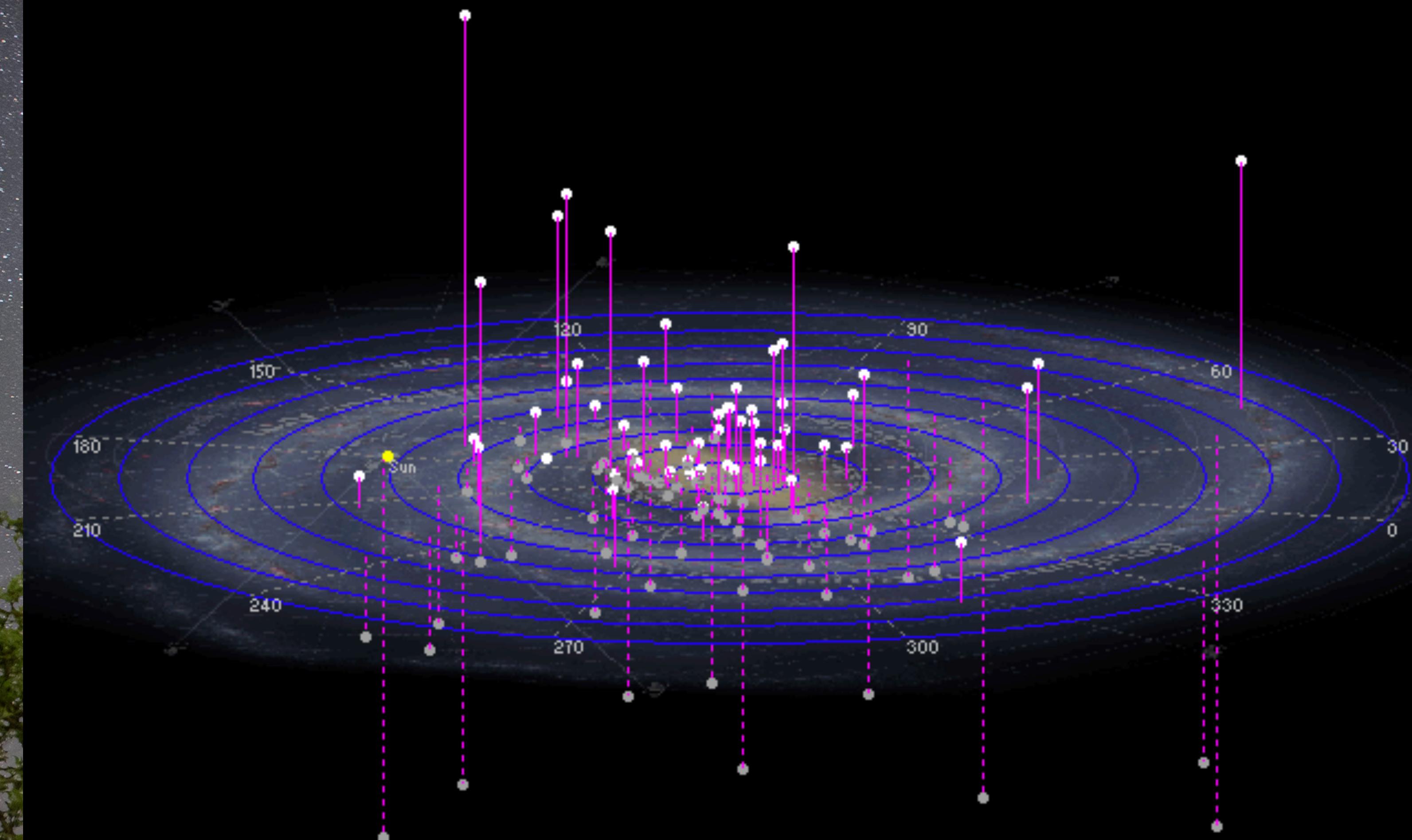


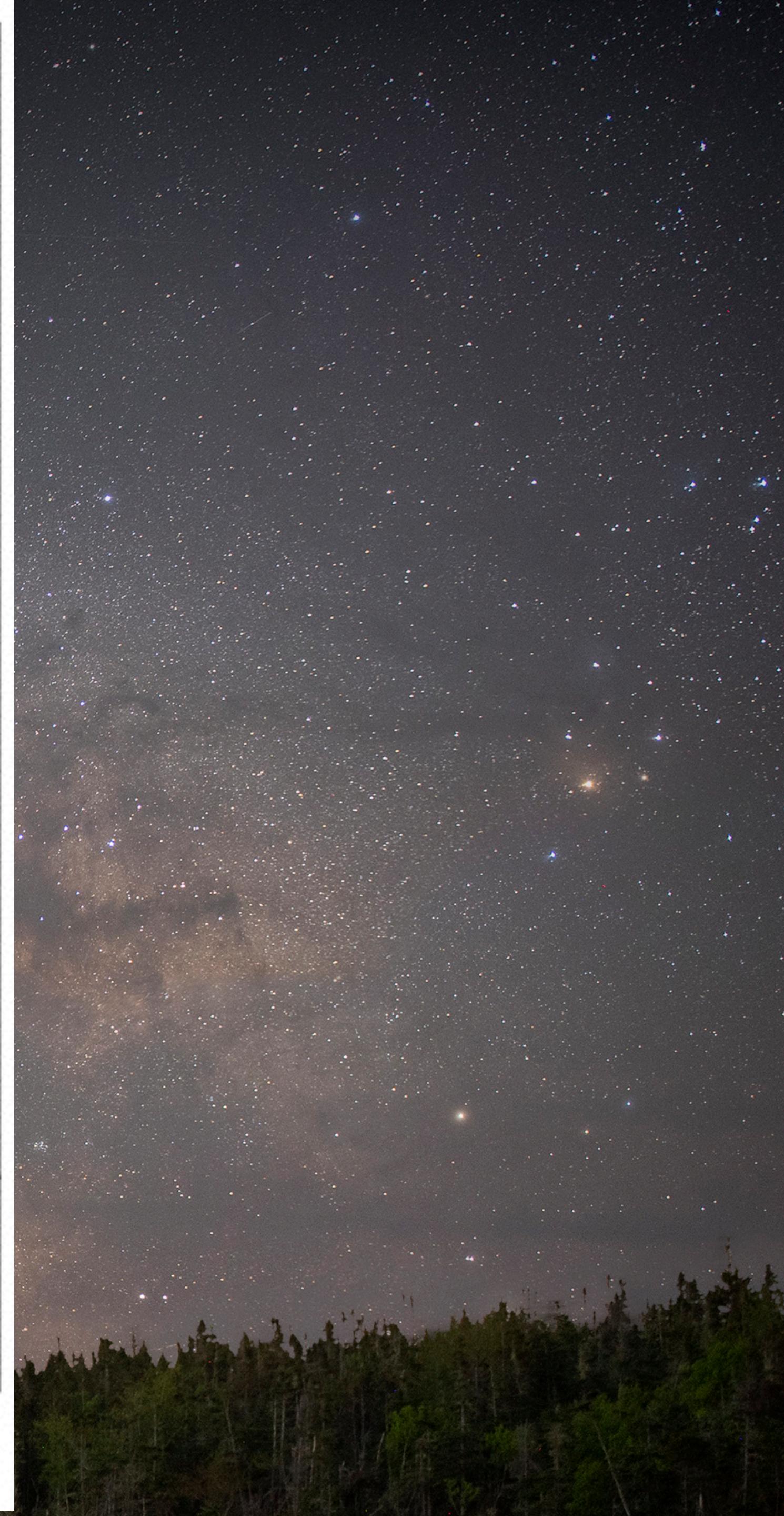
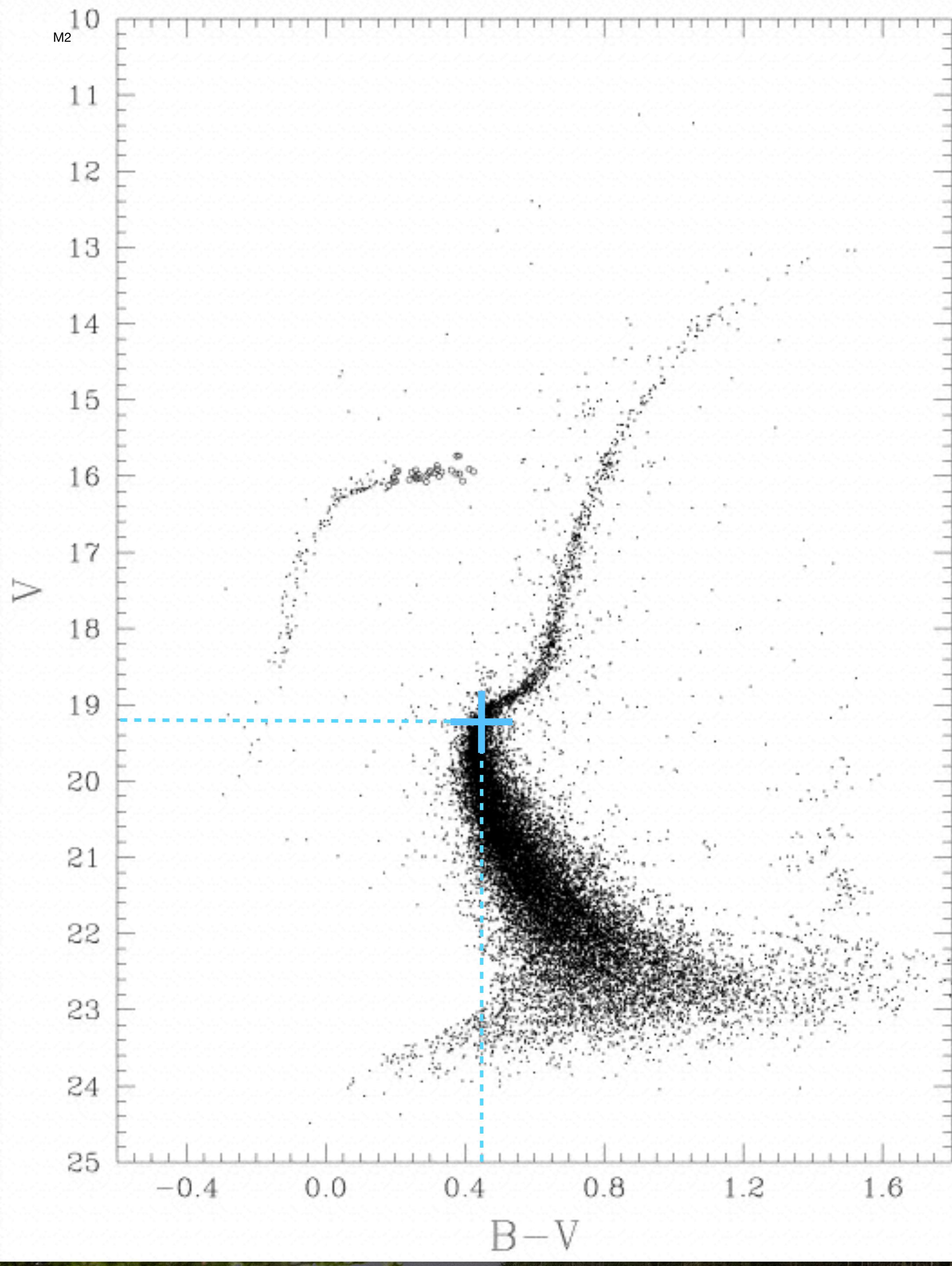




The 119 globular clusters within 50,000 LY of the galactic centre  
Galactic centric (galactic longitude and latitude)

5,000 LY





L. Vac