

# Astr 102

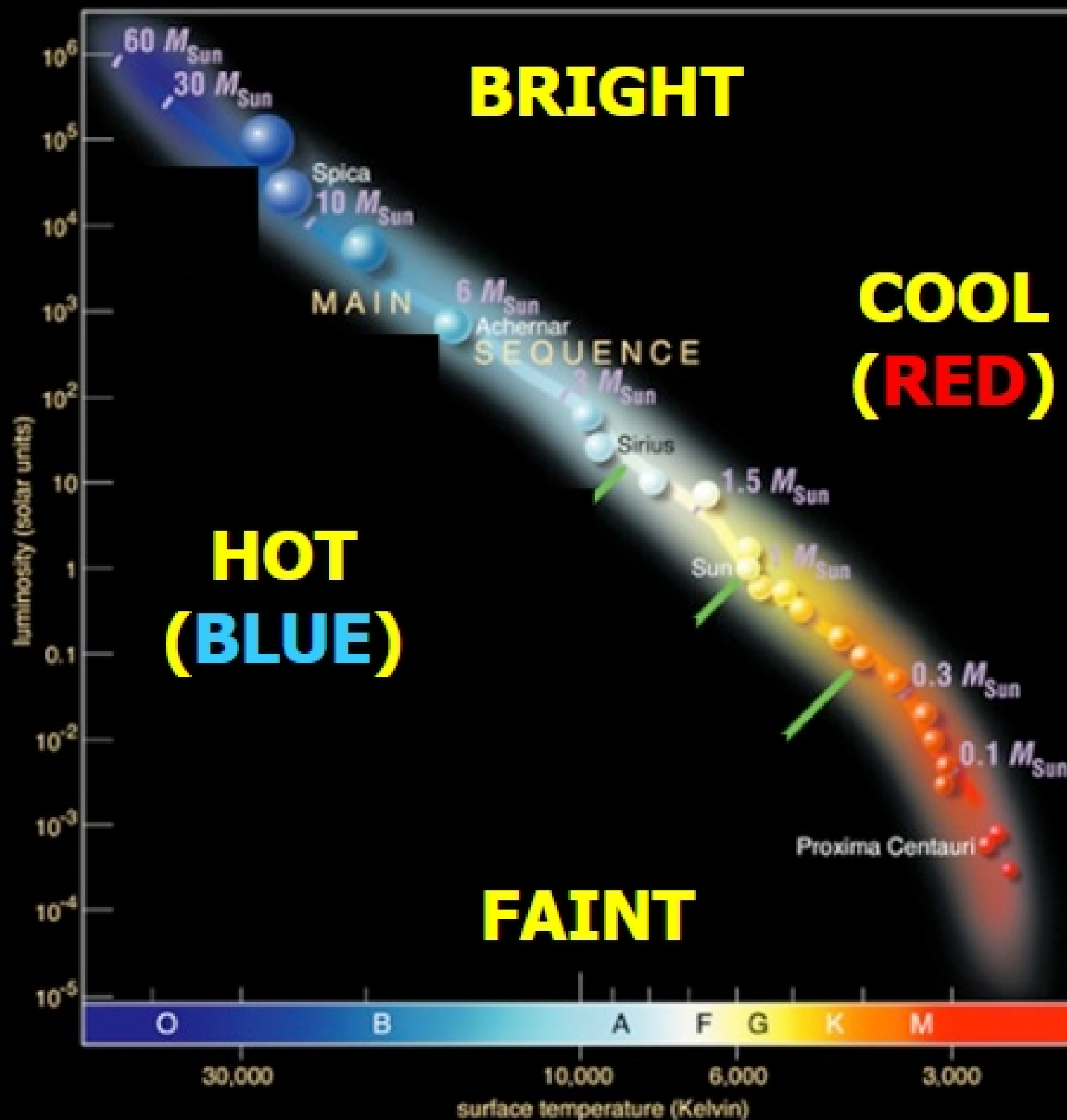
## Lec 8: Stellar Birth and Evolution

- What is main sequence and what determines the position of a star on it?
- Why smaller stars live longer than bigger stars?
- How are stars born?
- What are non-main-sequence stars?

# The Main Sequence

Stars can not have an arbitrary combination of luminosity and temperature (or radius)

Some physical laws must be responsible for this sequence!



# Stellar sizes on the HR diagram

