

Introduction to Astronomy

Summary Questions Week 7

18 November 2019

1. Explain what the Hertzsprung-Russell diagram is and why it is important.
2. Describe a star's evolution from initial cloud collapse to CO white-dwarf remnant by means of a Hertzsprung-Russell diagram.
3. Which three types of remnants may remain at the end of a star's life?
4. Give a rough estimate of the nuclear time scale for a solar-like star. Are the thermal and dynamical time scales shorter or longer?