

Balance of energy in the solar interior means that

Abstract. Neutrinos allow us to look into the interior of the Sun, in particular by observing the neutrino fluxes that come from the Sun's core, which yield stringent tests whether we understand the nuclear physics and calculate the correct temperatures and densities in solar or stellar cores.

Understand the energy balance of the Sun. Explain how energy moves outward through the Sun. Describe the structure of the solar interior. Fusion of protons can occur in the center of the Sun only if the temperature exceeds 12 million K. How do we know that the Sun is actually this hot?

Figure (PageIndex{6}): Interior Structure of the Sun. Energy is generated in the core by the fusion of hydrogen to form helium. This energy is transmitted outward by radiation--that is, by the absorption and reemission of photons. In the outermost layers, energy

Balance of energy in the solar interior means that. hydrogen fusion. The majority of the Sun's energy comes from. only in its core. The energy that fuels the Sun is generated. nuclear fusion. When two atomic nuclei come together to form a new species of atom, it is called. 10¹⁰ years.

The solar interior is separated into four regions by the different processes that occur there. Energy is generated in the core, the innermost 25%. This energy diffuses outward by radiation (mostly gamma-rays and x-rays) through the radiative zone and by convective fluid flows (boiling motion) through the convection zone, the ...

The outward flow of energy through a star robs it of its internal heat, and the star would cool down if that energy were not replaced. Similarly, a hot iron begins to cool as soon as it is unplugged from its source of electric energy.

State the energy balance of the Sun. Explain how energy moves outward through the Sun. Describe the structure of the solar interior. Fusion of protons can occur in the centre of the Sun only if the temperature exceeds 12 million K. How do we know that the Sun is actually this hot?

The balance of energy in the solar interior means that a. energy production rate in the core equals the rate of radiation escaping the Sun's surface. b. the source of energy in the core is stable and will sustain the Sun for millions of years.



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