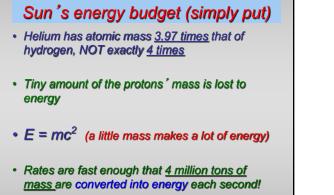
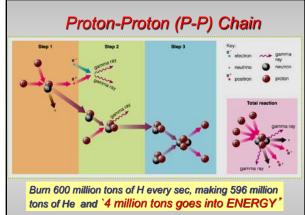


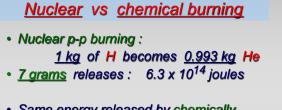
Clicker Question

The Sun is made up of (mostly) hydrogen. Yet the P-P chain starts with two protons. Why are they not with their electrons?

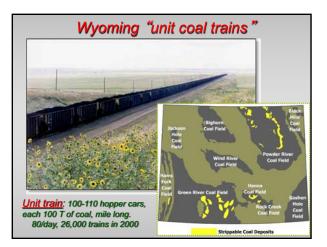
- A. The core is very hot so the electrons are all ionized.
- B. The electrons have all moved to the outer layers of the Sun.
- C. The Sun is electrically positive, so all that exists are hydrogen ions.
- D. Neutral hydrogen only consists of one proton and one neutron in the first place.

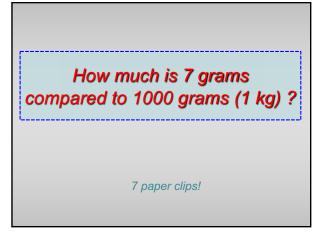


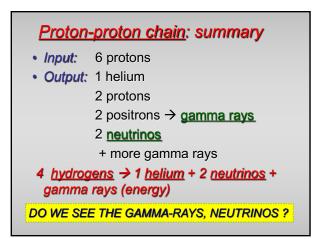




- Same energy released by chemically burning ~20,000 tons of coal !! (2 unit trains)
- Sun's luminosity : (vs 40 W lightbulb) L ~ 3.8 10²⁶ joules/sec (watts)







Now turn this Fiske Planetarium to

COLORADO SKIES

and the full-dome projection of significant star groupings, including near <u>Eta Carina</u> and especially the <u>Orion Nebula</u> in many different wavelength views Now let us turn to the full-dome Lucas production

"Solar Superstorms"