

Notes on Solar Physics

Takayuki Muranushi

July 6, 2014

The Sun is the central star of the Solar System. The mass of the Sun is 1.989×10^{30} kg. Hydrogen (H) and Helium (He) are two most abundant element in the Sun. Grevesse and Sauval [1998] estimates that the mass fraction of H and He are 0.75 and 0.25, respectively.

The Solar luminosity is 3.839×10^{26} W.

References

N. Grevesse and A. Sauval. *Space Science Reviews*, 85(1/2):161174, 1998. ISSN 0038-6308. doi: 10.1023/a:1005161325181. URL <http://dx.doi.org/10.1023/A:1005161325181>.