

# Notes on Solar Physics

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The Sun is the central star of the Solar System. The mass of the Sun is  $1.989 \times 10^{30}$  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  $3.839 \times 10^{26}$  (kg \* m<sup>2</sup>)/s<sup>3</sup>, or  $3.839 \times 10^{26}$  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>.