

IB Physics Topic E5 Fusion and Starts; SL & HL

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1 Fusion in Stars

Conditions for proton-proton cycle and thus fusion to occur:

- High temperature: to overcome the electrostatic repulsion between the nuclei
- High pressure: to overcome the gravitational attraction between the nuclei

2 Star Luminosity and Temperature

2.1 HR Diagrams

3 Stellar Evolution and Stellar Mass

3.1 Stellar Evolution of Low-Mass Stars

3.2 Stellar Evolution of Large-Mass Stars

4 Astronomical Distances and Measurement

5 Stellar Parallax