Description of laser fusion target process By Salamatin Dimitry AMP-28



What is fusion reaction?

Fusion reaction is a process of combination lighter atoms, such as hydrogen, together to form larger ones. Generally the reactions take place at such high temperatures that the atoms have been ionized, their electrons stripped off by the heat; thus, fusion is typically described in terms of "nuclei" instead of "atoms".



Process of fusion reaction



Physics describe of laser fusion target



1) Perfect uniform glass sphere





Variable wall thickness~300 Å



2) Laser radiation





LASER RADIATION

Laser radiation intensity is about 8600 (photons/µm²)



1) Extremely precise beam timing





• 4) High symmetry and high temperatures stability



Conclusion





Cryogenic substance

Circular compression of laser fusion target Short in 1995

