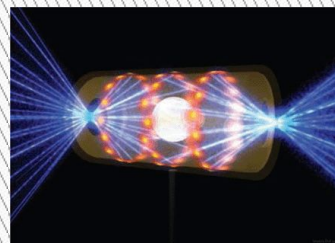


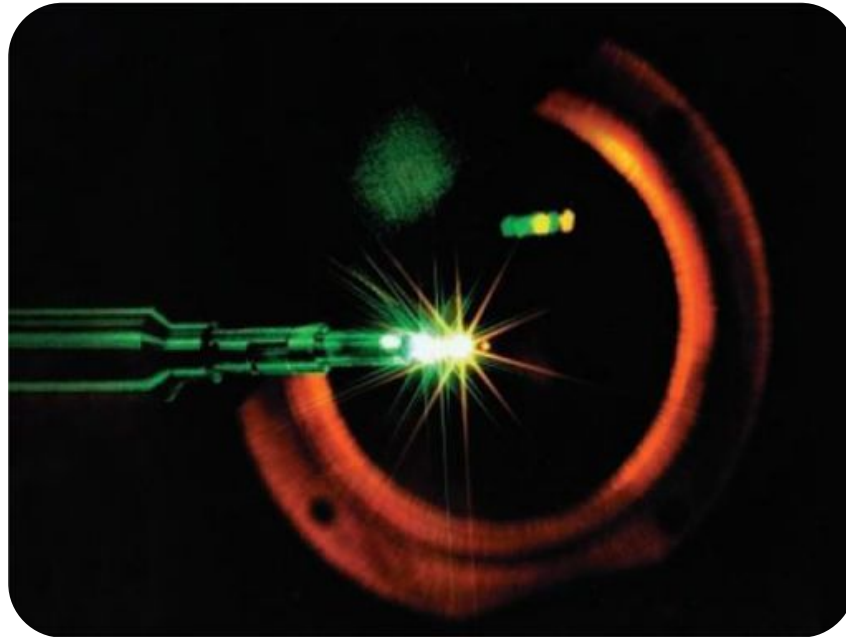
Description of laser fusion target process

By Salamatin Dimitry
AMP-28



What is fusion reaction?

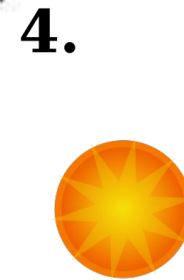
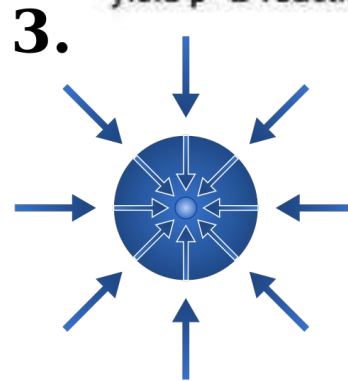
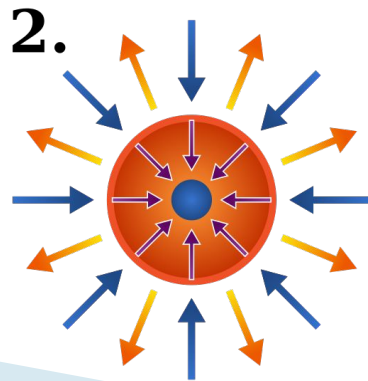
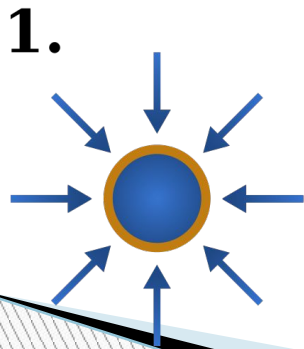
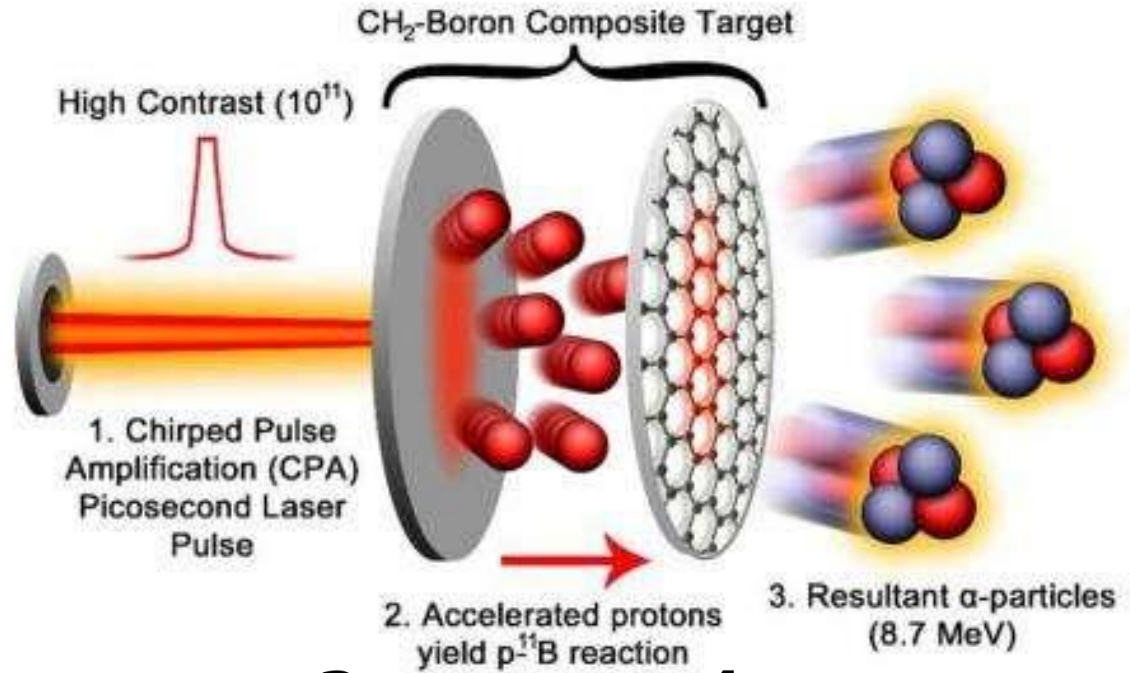
- ❑ Fusion reaction is a process of combination lighter atoms, such as hydrogen, together to form larger ones. Generally the reactions take place at such high temperatures that the atoms have been ionized, their electrons stripped off by the heat; thus, fusion is typically described in terms of "nuclei"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



Process of fusion reaction

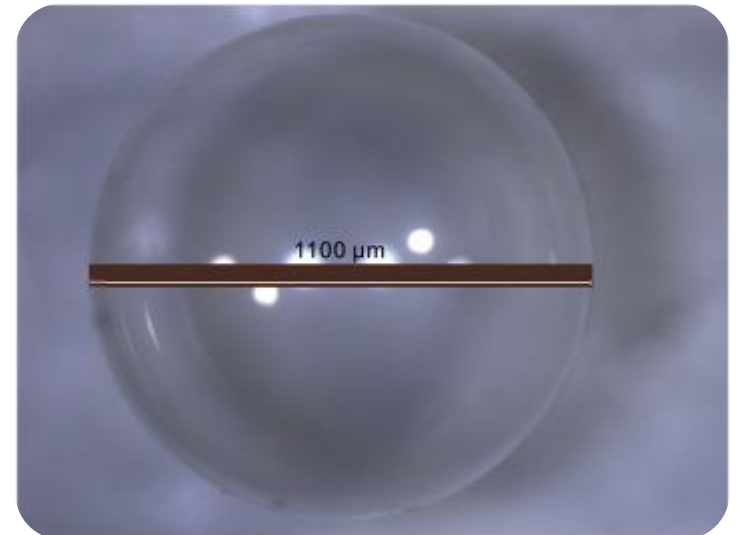
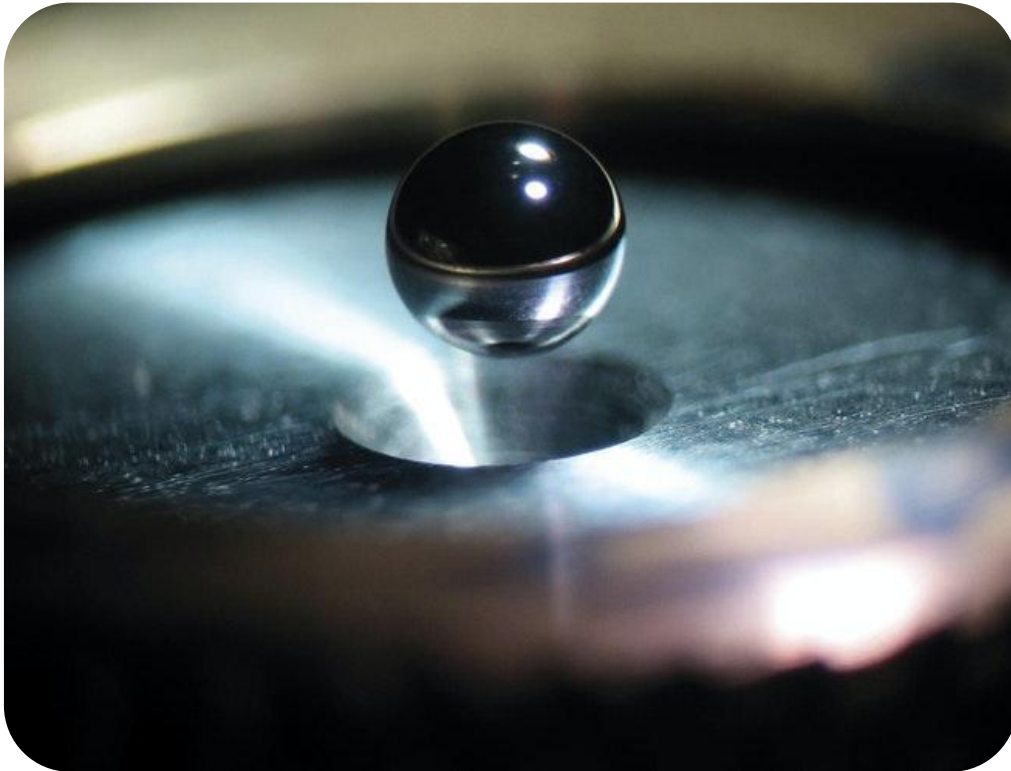


Physics describe of laser fusion target



Main conditions

- 1) Perfect uniform glass sphere



Variable wall
thickness~300 Å



Main conditions

□ 2) Laser radiation

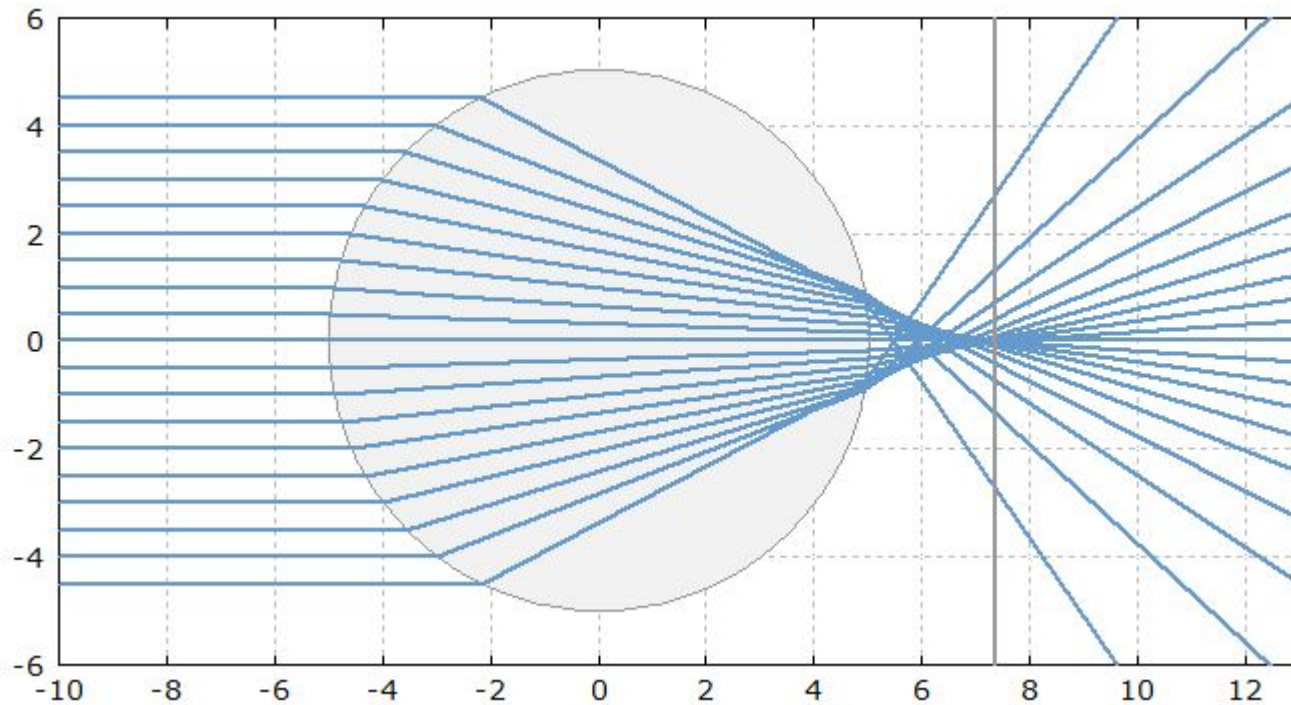


Laser radiation
intensity is about
8600 (photons/ μm^2)



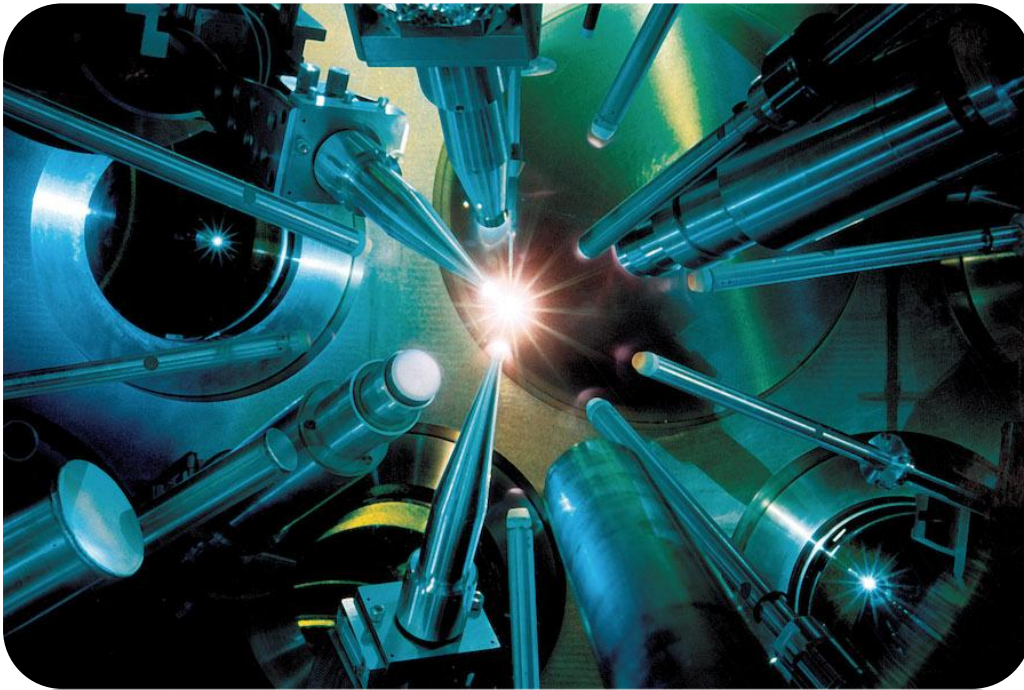
Main conditions

- 1) Extremely precise beam timing

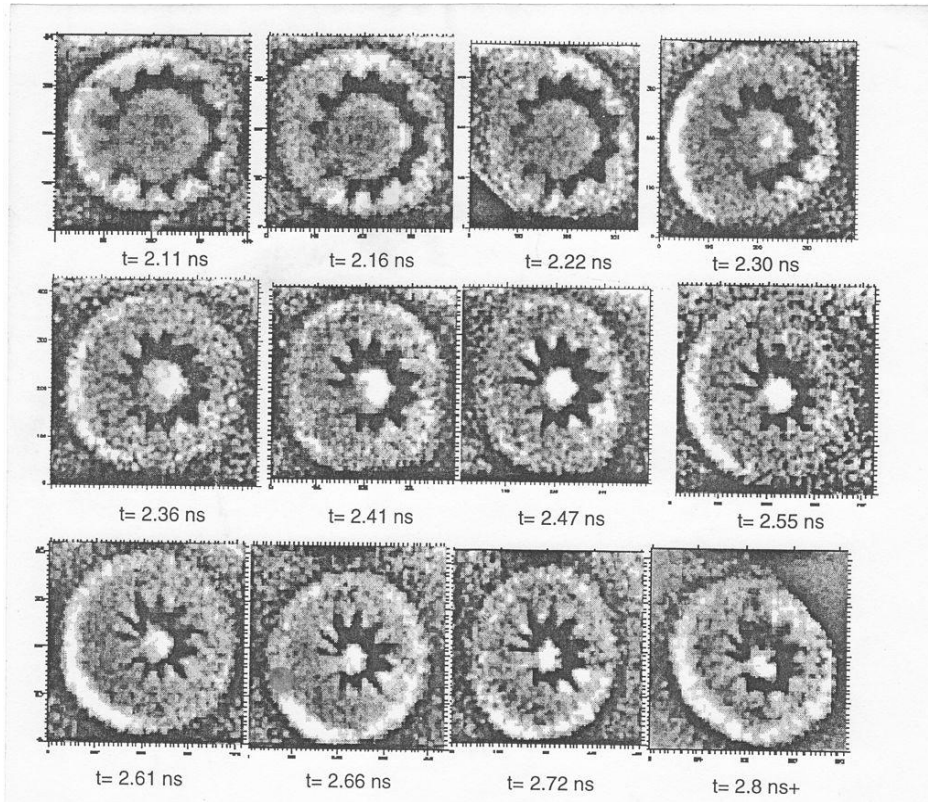


Main conditions

- 4) High symmetry and high temperatures stability



Conclusion



Cryogenic substance

Circular compression of laser
fusion target Short in 1995

