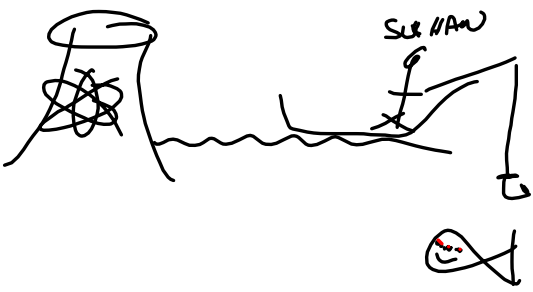


Nuclear Fission

Larger
Mass \rightarrow Smaller
Mass



$${}_{92}^{235}\text{U} + {}_0^1\text{n} \rightarrow$$

\swarrow
 \searrow

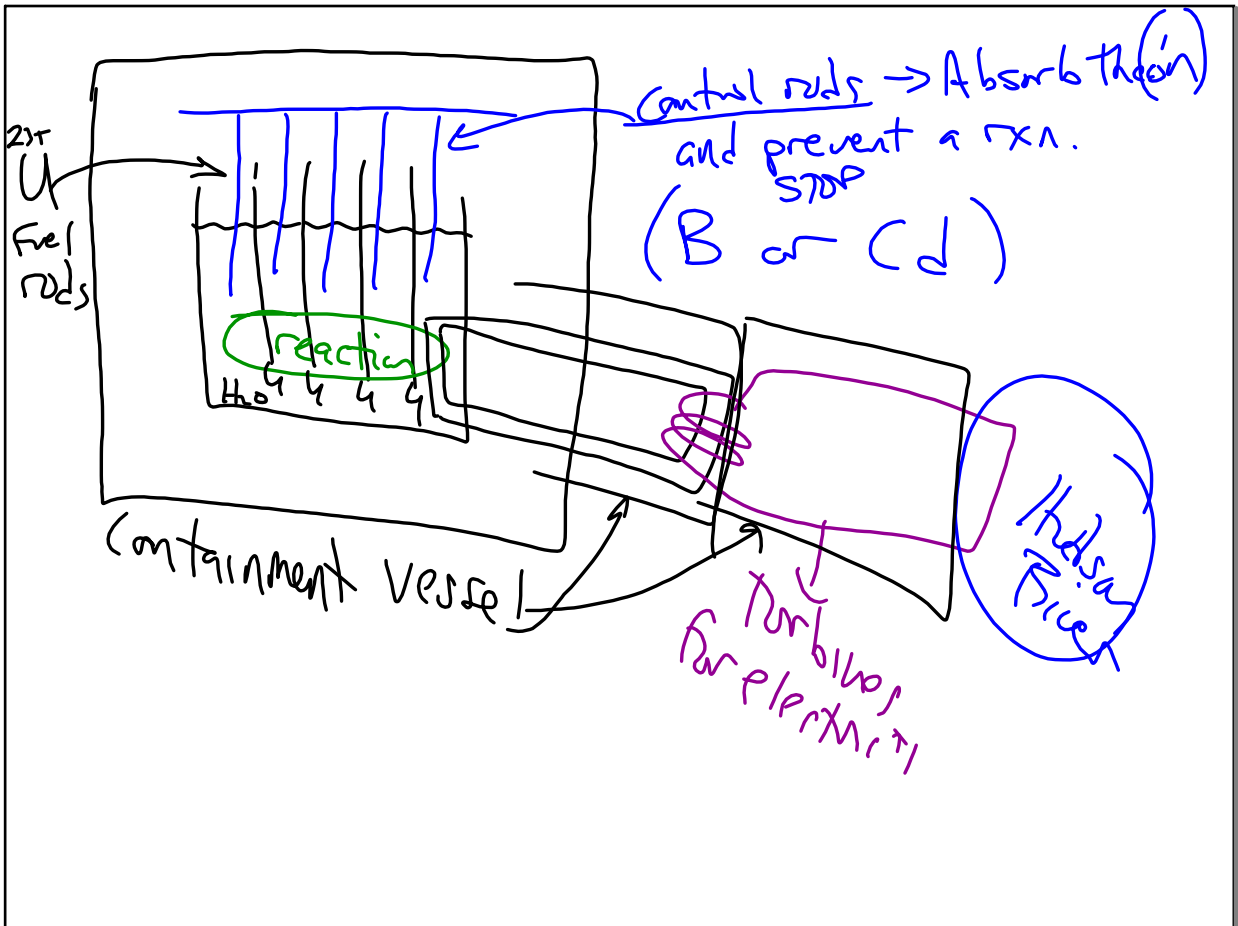
$${}_{52}^{137}\text{Te} + {}_{40}^{91}\text{Zr} + 2 {}_0^1\text{n}$$

$${}_{56}^{142}\text{Ba} + {}_{36}^{91}\text{Kr} + 3 {}_0^1\text{n}$$

+ Energy

+ Energy

Apr 12-8:28 AM



Apr 12-8:58 AM

Fuel rods ^{235}U

Control Rods Cd, B \rightarrow remove excess n

Moderator - slows n down.
 \rightarrow graphite, heavy water

Apr 12-9:08 AM

~~control rod.~~

BA BOOM

Uncontrolled chain rxn \Rightarrow melt down.

reactant n

same as

product $3 n$

Apr 12-9:09 AM

HW PS 21-1

Apr 12-9:16 AM