

- Draw the nuclear mass

$$M(Z, A) = Z \times M_p + (A - Z) \times M_n - A \times \text{Bind}$$

as a function of Z for $A=18$

and $A=208$ and compare with the
decay times chart

- Draw

- $Sp(Z)$ and $Sn(Z)$ for $N=9$

- $Sp(N)$ and $Sn(N)$ for $Z=33$

and understand the observed

patters