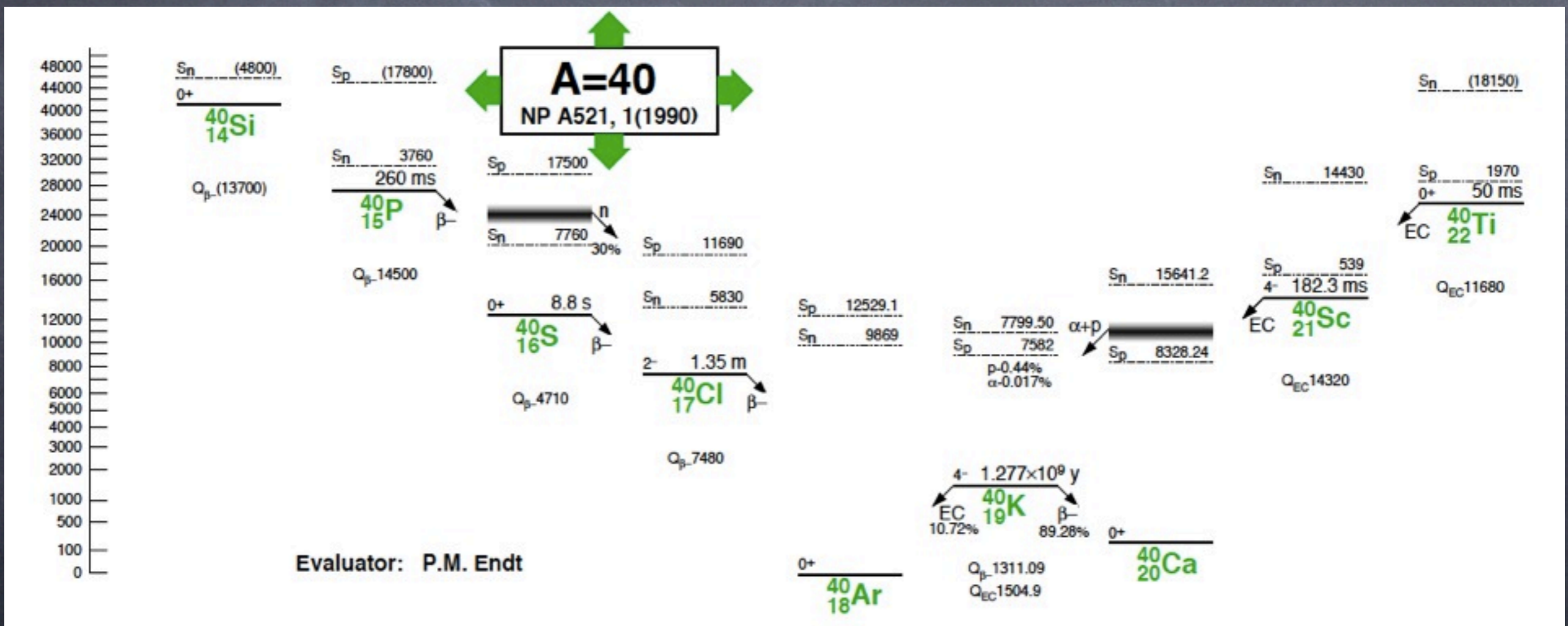
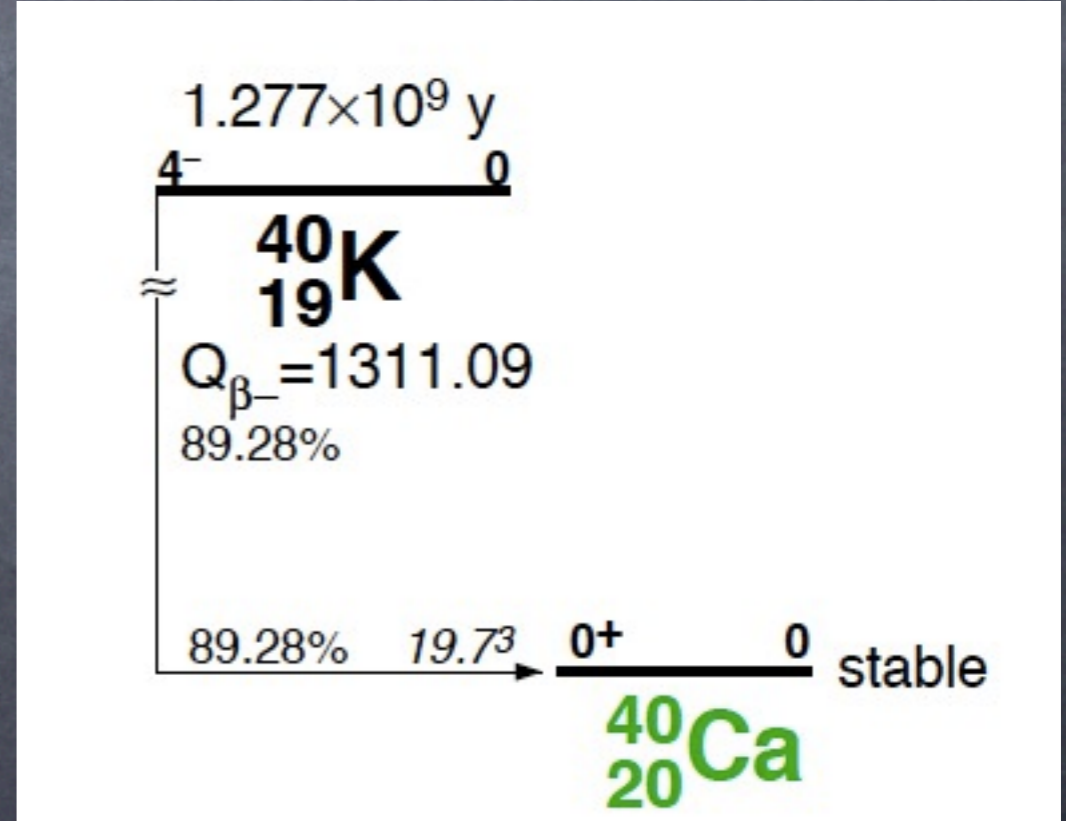
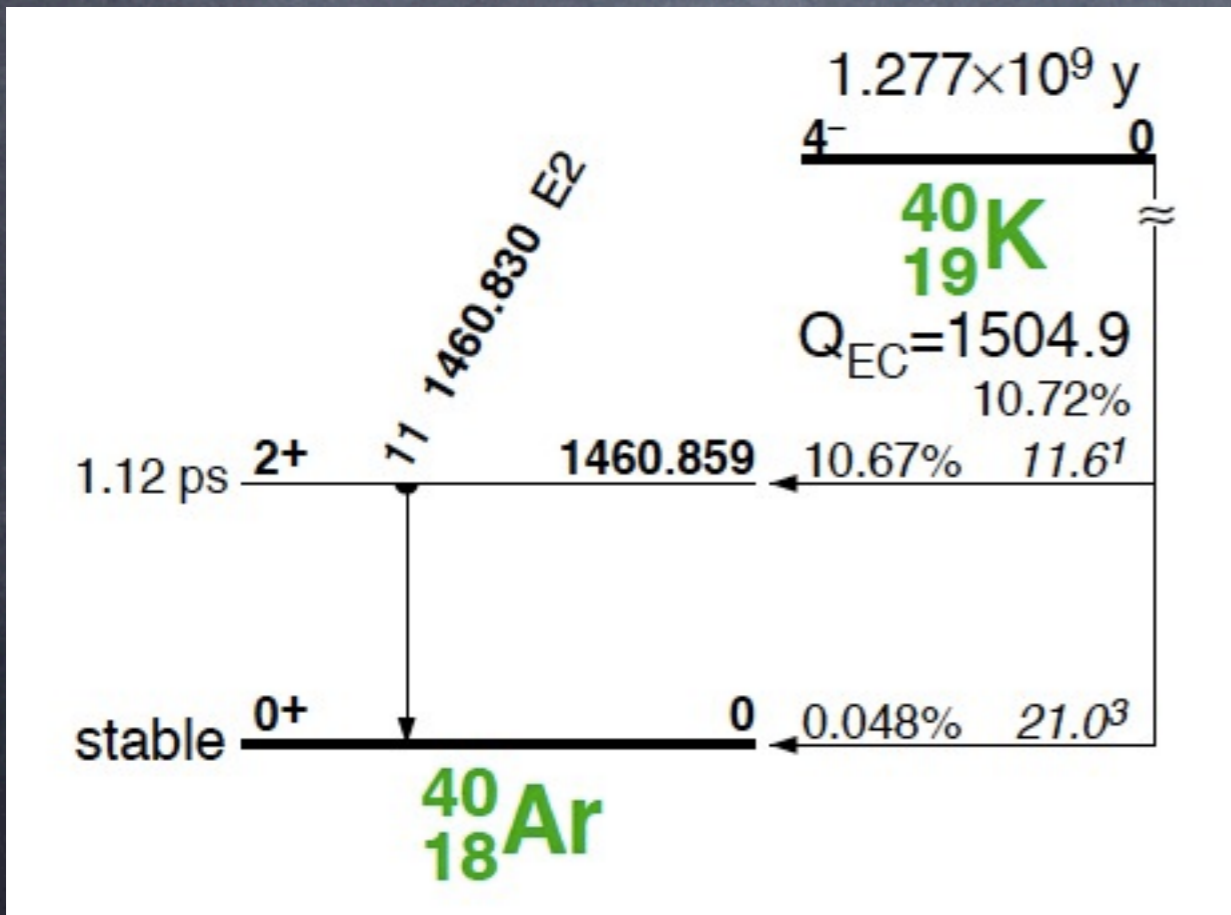
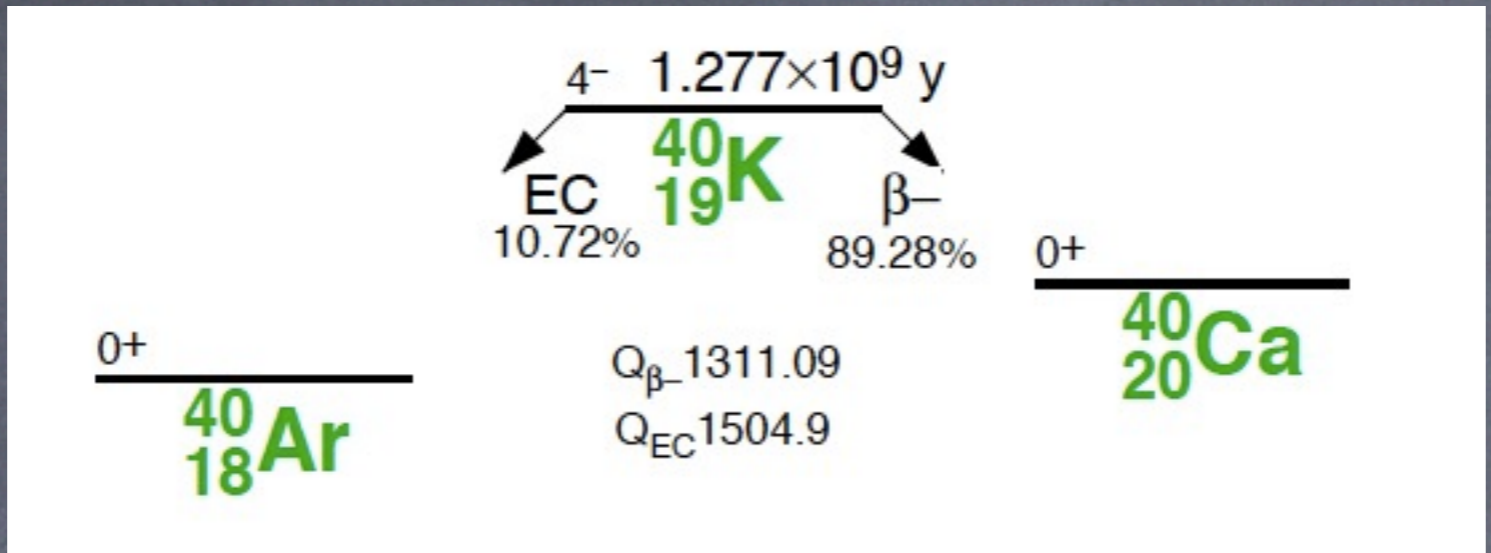


# A=40 Isobare





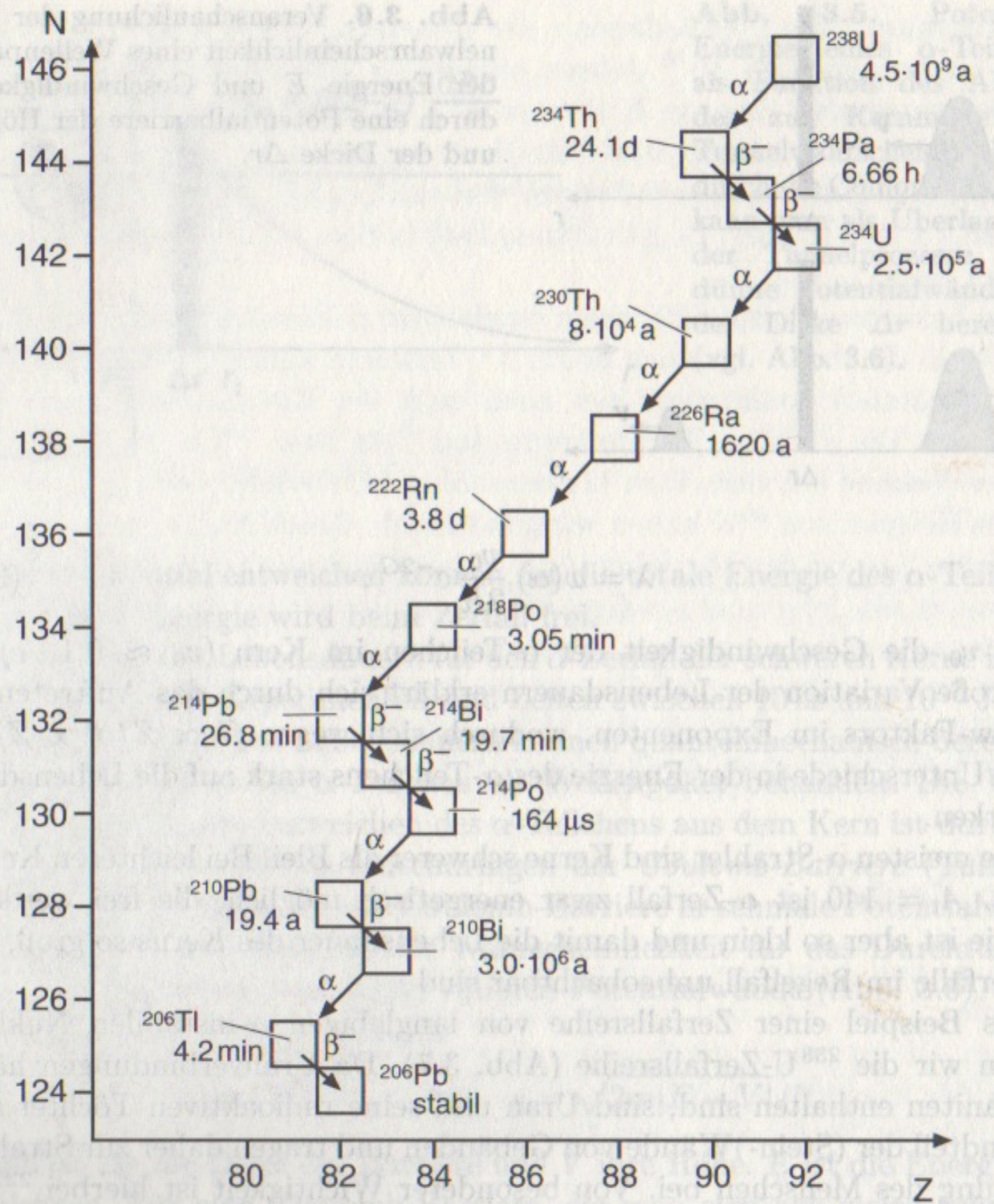
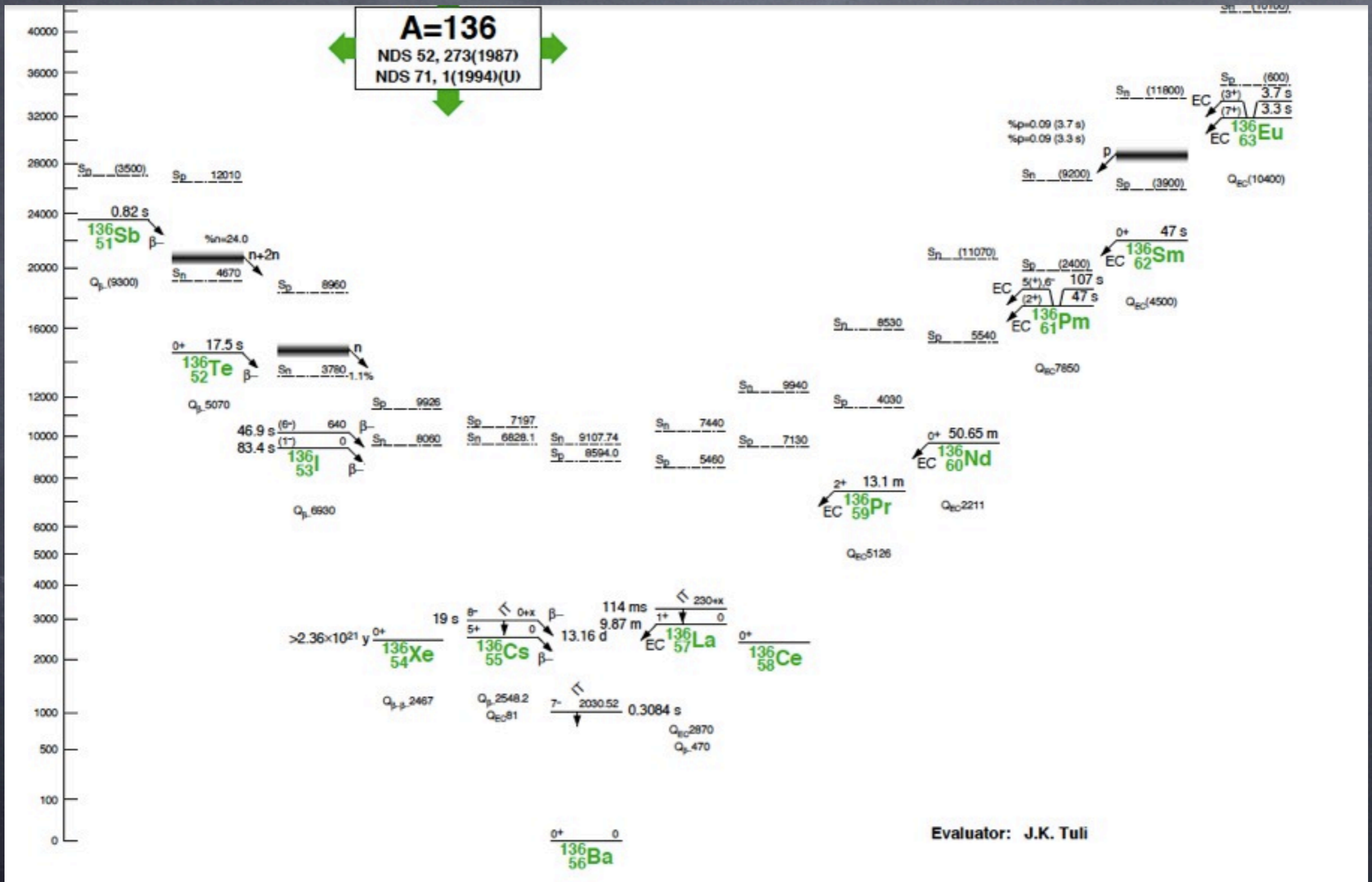
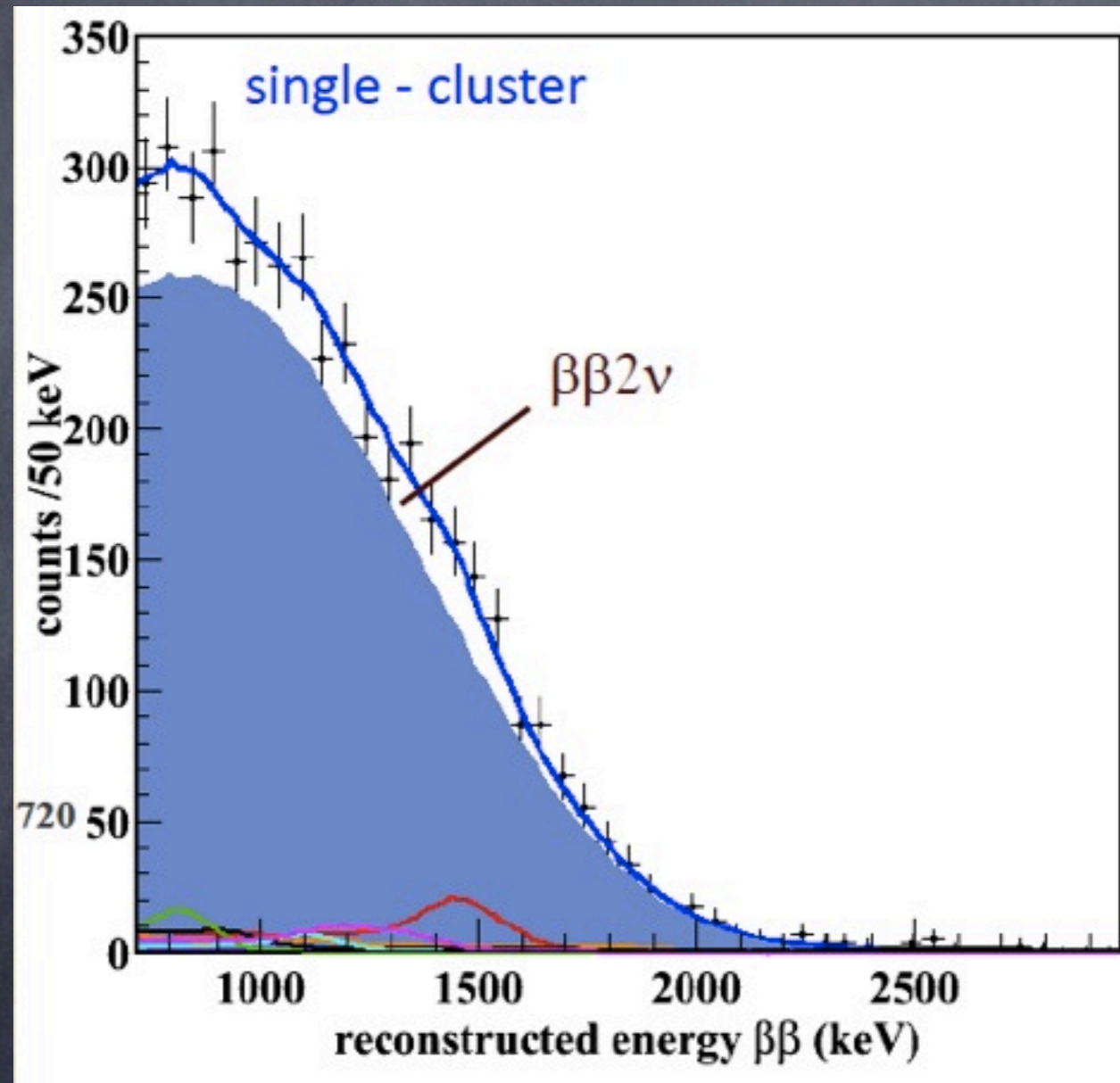


Abb. 3.7. Darstellung der  $^{238}\text{U}$ -Zerfallsreihe in der N-Z-Ebene. Neben der Zerfallsart ist auch die Halbwertszeit der einzelnen Nuklide angegeben.

# A=136 Isobare

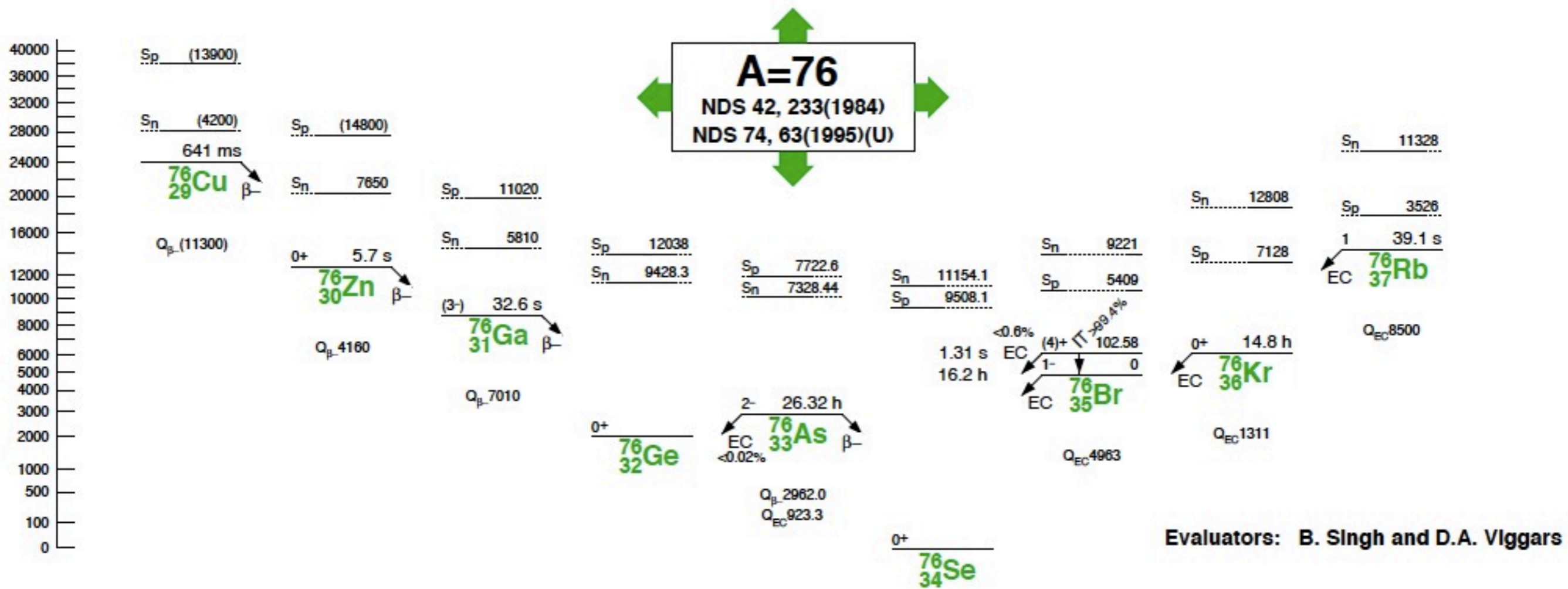


# First measurement of $^{136}\text{Xe}$ $2\nu\beta\beta$ decay by EXO



$T_{1/2} = 2.11 \cdot 10^{21} \text{ yr } (\pm 0.04 \text{ stat}) \text{ yr } (\pm 0.21 \text{ syst})$   
N. Ackerman *et al.*, PRL 107, 212501 (2011).

# A=76 isobare





# preliminary results

$2\nu\beta\beta$ -spectrum

