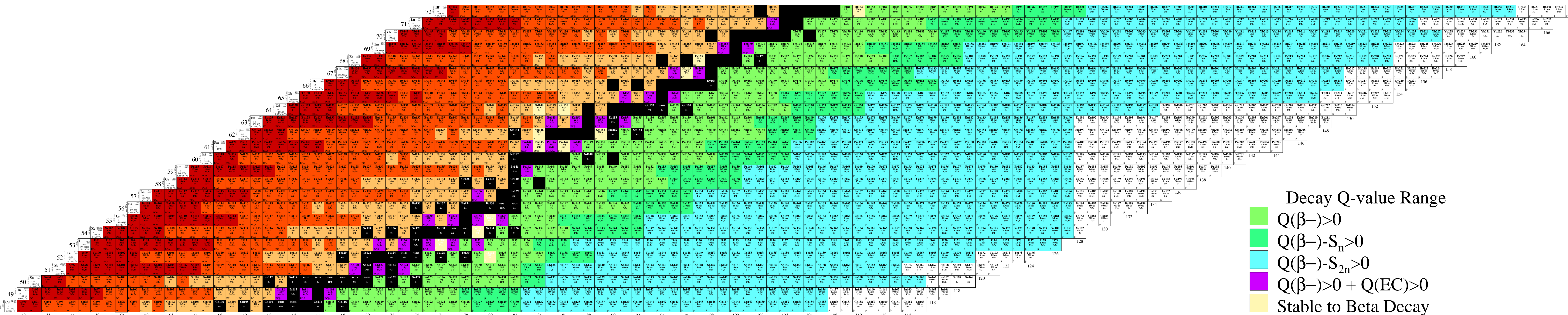


- ### Decay Q-value Range
- $Q(\beta^-) > 0$
  - $Q(\beta^-) - S_n > 0$
  - $Q(\beta^-) - S_{2n} > 0$
  - $Q(\beta^-) > 0 + Q(EC) > 0$
  - Stable to Beta Decay
  - $Q(EC) > 0$
  - $Q(EC) - S_p > 0$
  - $Q(p) > 0$
  - Naturally Abundant
  - $S_n < 0$

# Moller Theoretical Nuclear Chart (1997) Z=0-50

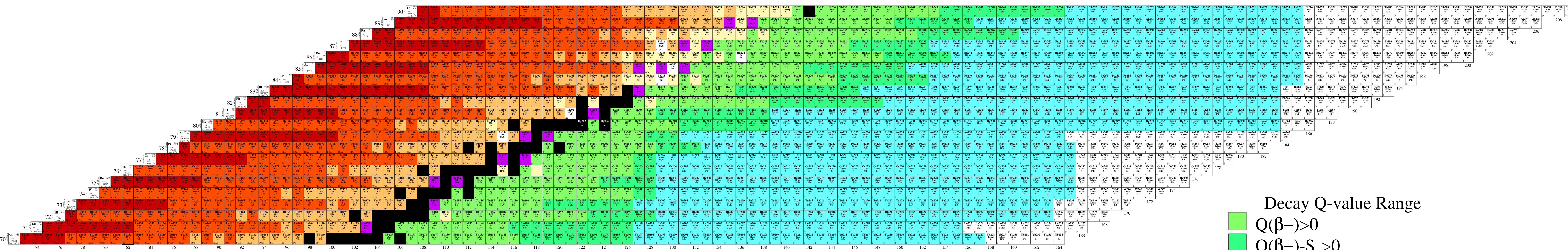




# Moller Theoretical Nuclear Chart (1997) Z=48-72

- Decay Q-value Range**
- $Q(\beta^-) > 0$
  - $Q(\beta^-) - S_n > 0$
  - $Q(\beta^-) - S_{2n} > 0$
  - $Q(\beta^-) > 0 + Q(EC) > 0$
  - Stable to Beta Decay
  - $Q(EC) > 0$
  - $Q(EC) - S_p > 0$
  - $Q(p) > 0$
  - Naturally Abundant
  - $S_n < 0$



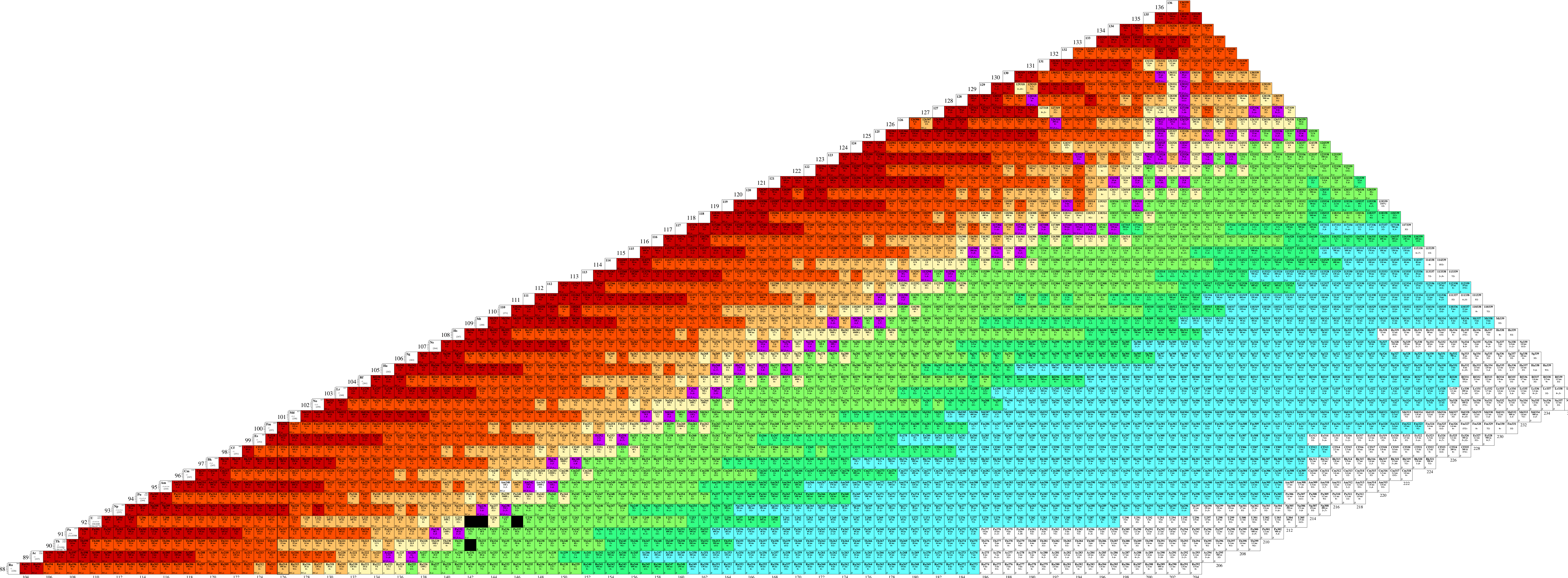


# Moller Theoretical Nuclear Chart (1997) Z=70-90

## Decay Q-value Range

- $Q(\beta^-) > 0$
- $Q(\beta^-) - S_n > 0$
- $Q(\beta^-) - S_{2n} > 0$
- $Q(\beta^-) > 0 + Q(EC) > 0$
- Stable to Beta Decay
- $Q(EC) > 0$
- $Q(EC) - S_p > 0$
- $Q(p) > 0$
- Naturally Abundant
- $S_n < 0$





# Moller Theoretical Nuclear Chart (1997) Z=88-136

- Decay Q-value Range
- $Q(\beta^-) > 0$
  - $Q(\beta^-) - S_n > 0$
  - $Q(\beta^-) - S_{2n} > 0$
  - $Q(\beta^-) > 0 + Q(EC) > 0$
  - Stable to Beta Decay
  - $Q(EC) > 0$
  - $Q(EC) - S_p > 0$
  - $Q(p) > 0$
  - Naturally Abundant
  - $S_n < 0$