

Table of Isotopes (1999)

Z=0-28 Part 1 of 2

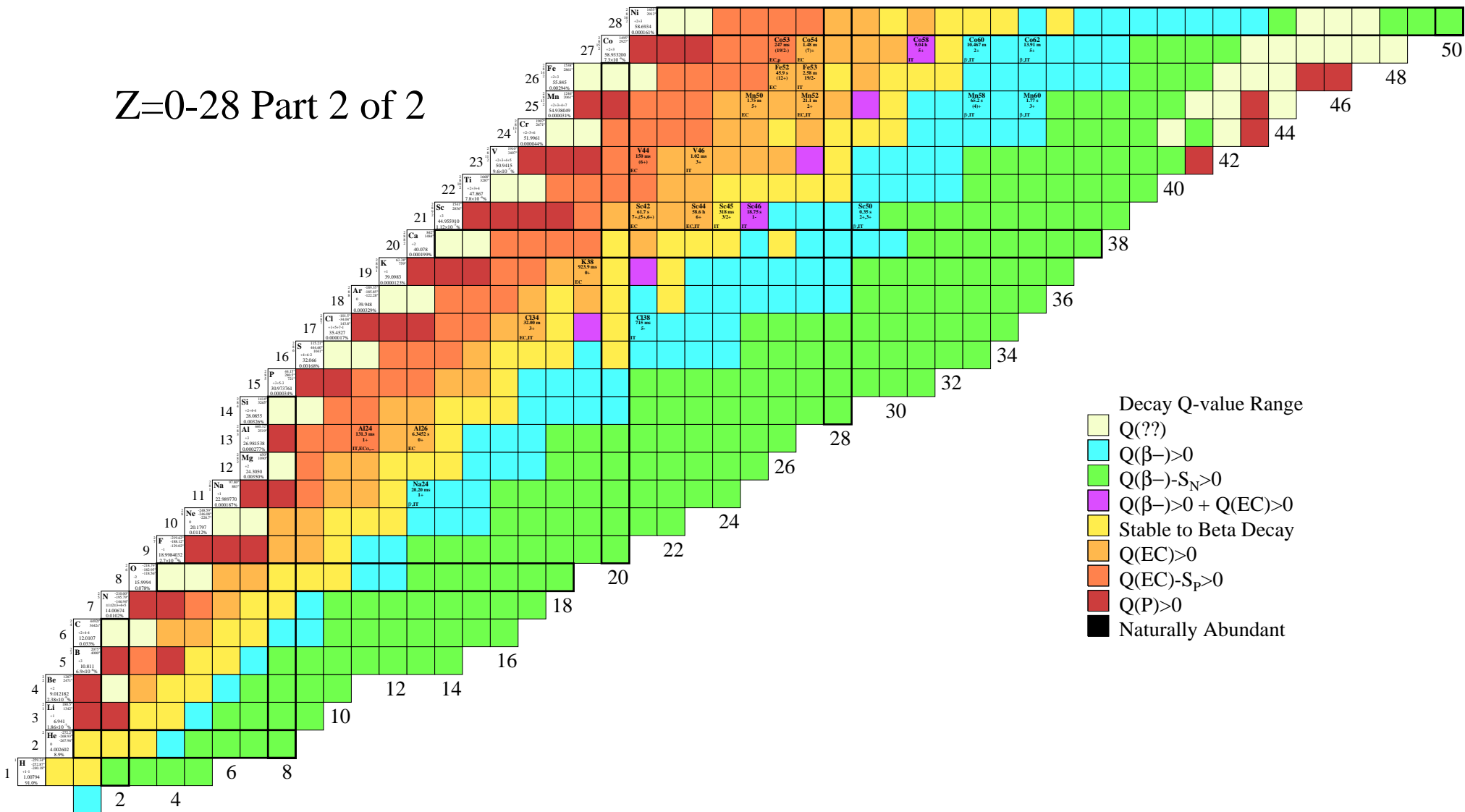
The table displays isotopes for elements with atomic number Z from 0 to 28. Each cell in the table contains the following information:

- Element Symbol:** Located at the top of the cell.
- Atomic Number (Z):** Located at the top left of the cell.
- Mass Number (A):** Located at the top right of the cell.
- Decay Mode:** Located at the bottom of the cell, represented by a small icon (e.g., alpha, beta, gamma, EC, P, S, N).
- Half-life (T_{1/2}):** Located in the middle of the cell, often with a superscript indicating units (e.g., s, min, hr, yr).
- Decay Q-value:** Located at the bottom of the cell, often with a superscript indicating units (e.g., MeV, keV).

Legend: Decay Q-value Range

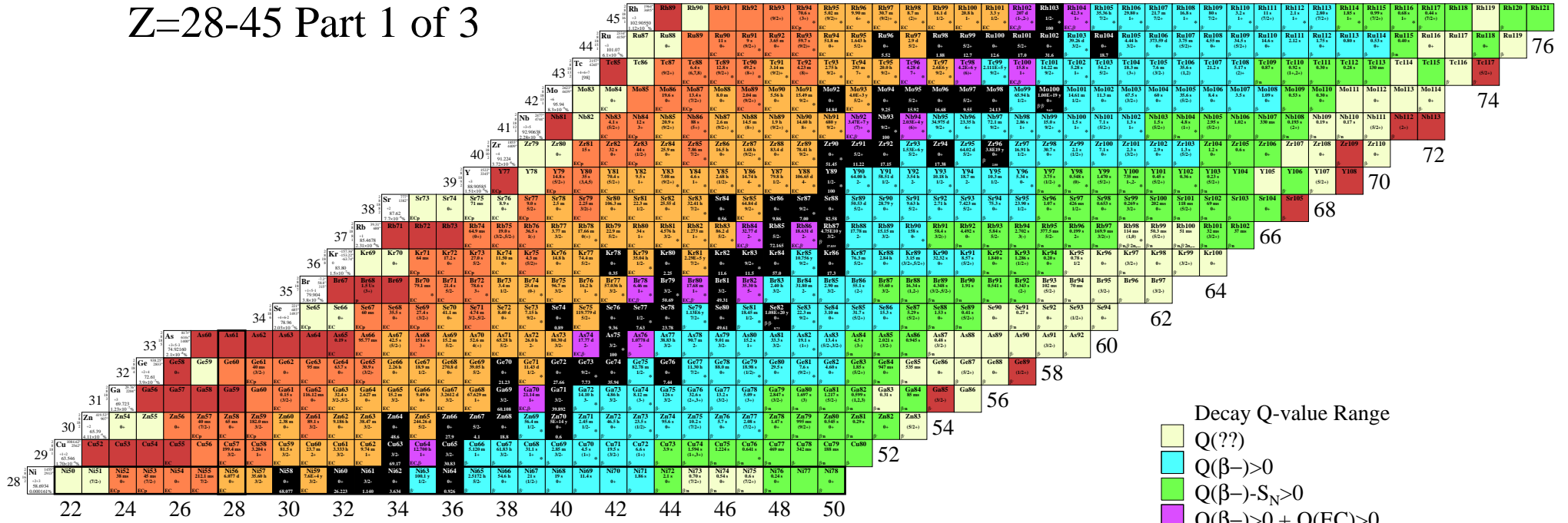
- Q(??)
- Q(β^-) > 0
- Q(β^-) - S_N > 0
- Q(β^-) > 0 + Q(EC) > 0
- Stable to Beta Decay
- Q(EC) > 0
- Q(EC) - S_p > 0
- Q(P) > 0
- Naturally Abundant

Z=0-28 Part 2 of 2



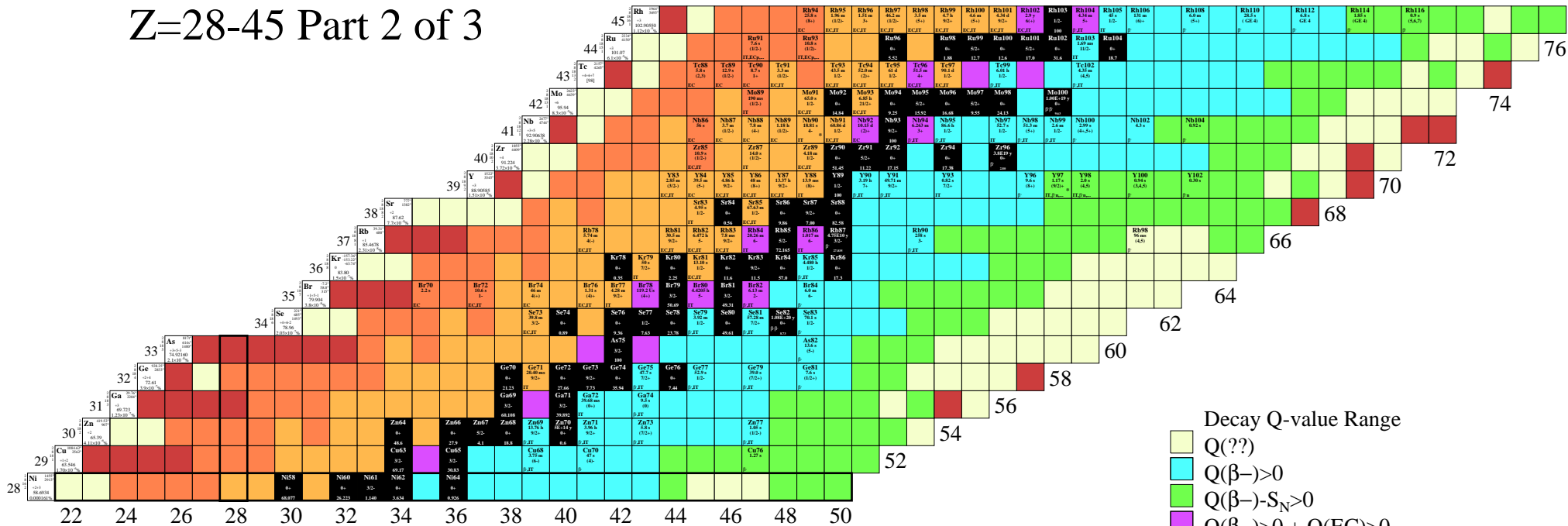
- Decay Q-value Range
- Q(??)
 - $Q(\beta^-) > 0$
 - $Q(\beta^-) - S_N > 0$
 - $Q(\beta^-) > 0 + Q(\text{EC}) > 0$
 - Stable to Beta Decay
 - $Q(\text{EC}) > 0$
 - $Q(\text{EC}) - S_p > 0$
 - $Q(\text{P}) > 0$
 - Naturally Abundant

Z=28-45 Part 1 of 3



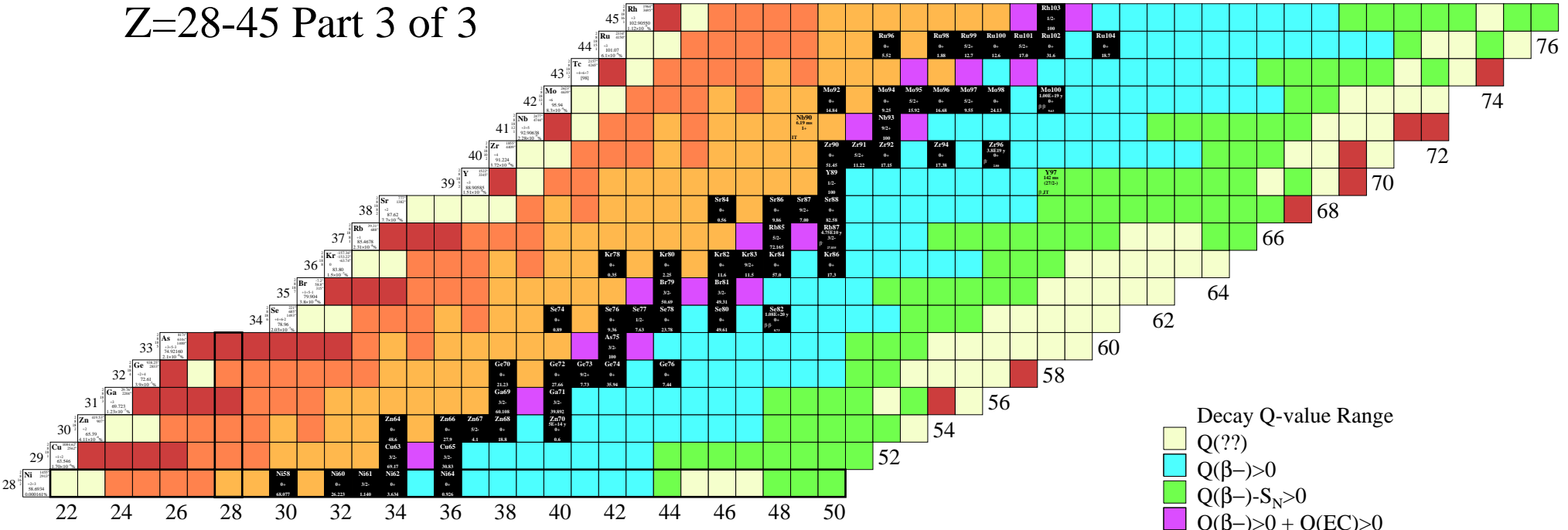
- Decay Q-value Range
- Q(?)
 - $Q(\beta^-) > 0$
 - $Q(\beta^-) - S_N > 0$
 - $Q(\beta^-) > 0 + Q(EC) > 0$
 - Stable to Beta Decay
 - $Q(EC) > 0$
 - $Q(EC) - S_p > 0$
 - $Q(P) > 0$
 - Naturally Abundant

Z=28-45 Part 2 of 3



- Decay Q-value Range
- Q(??)
 - $Q(\beta^-) > 0$
 - $Q(\beta^-) - S_N > 0$
 - $Q(\beta^-) > 0 + Q(EC) > 0$
 - Stable to Beta Decay
 - $Q(EC) > 0$
 - $Q(EC) - S_p > 0$
 - $Q(P) > 0$
 - Naturally Abundant

Z=28-45 Part 3 of 3



- Decay Q-value Range
- Q(??)
 - $Q(\beta^-) > 0$
 - $Q(\beta^-) - S_N > 0$
 - $Q(\beta^-) > 0 + Q(EC) > 0$
 - Stable to Beta Decay
 - $Q(EC) > 0$
 - $Q(EC) - S_p > 0$
 - $Q(P) > 0$
 - Naturally Abundant