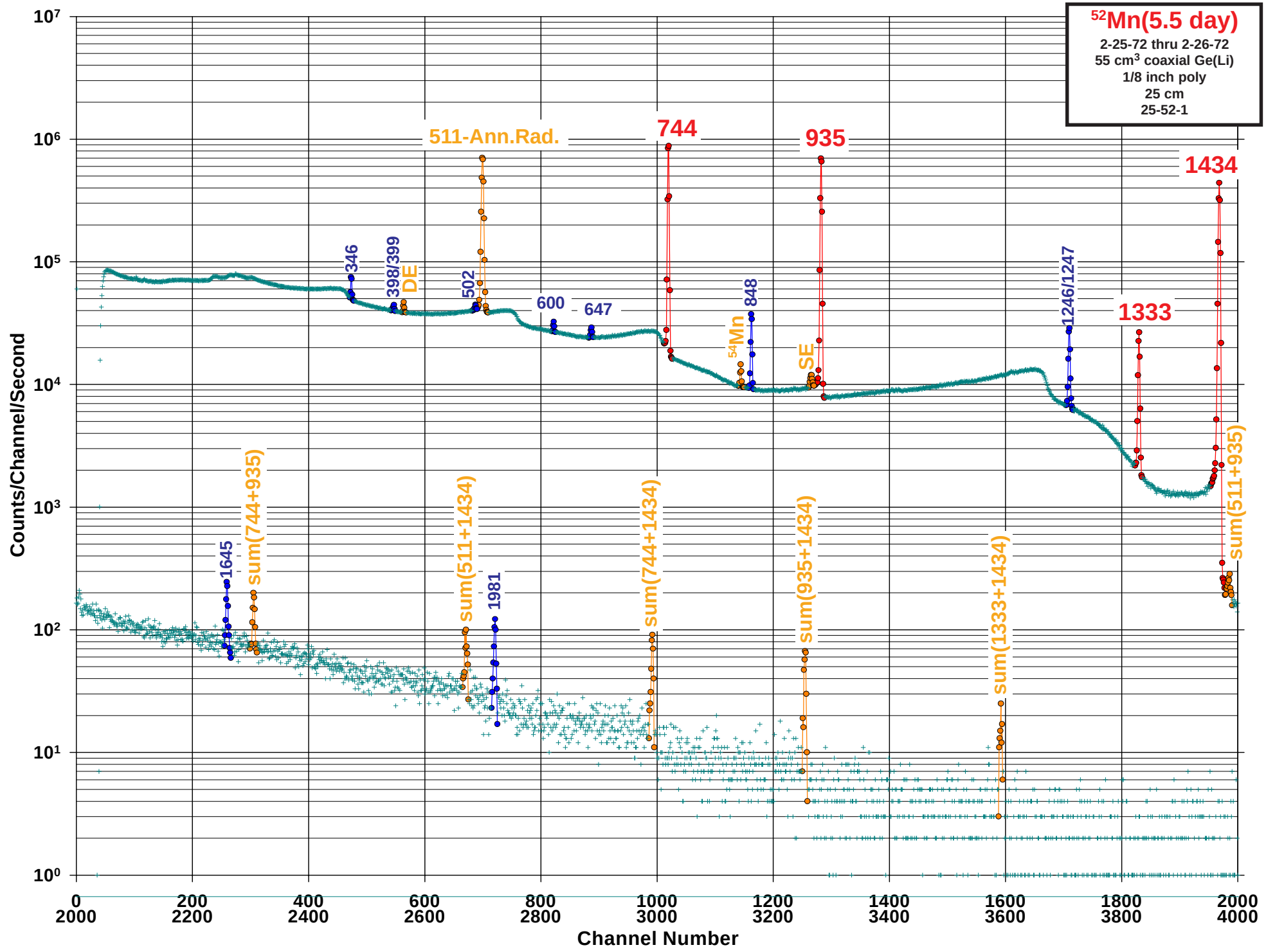


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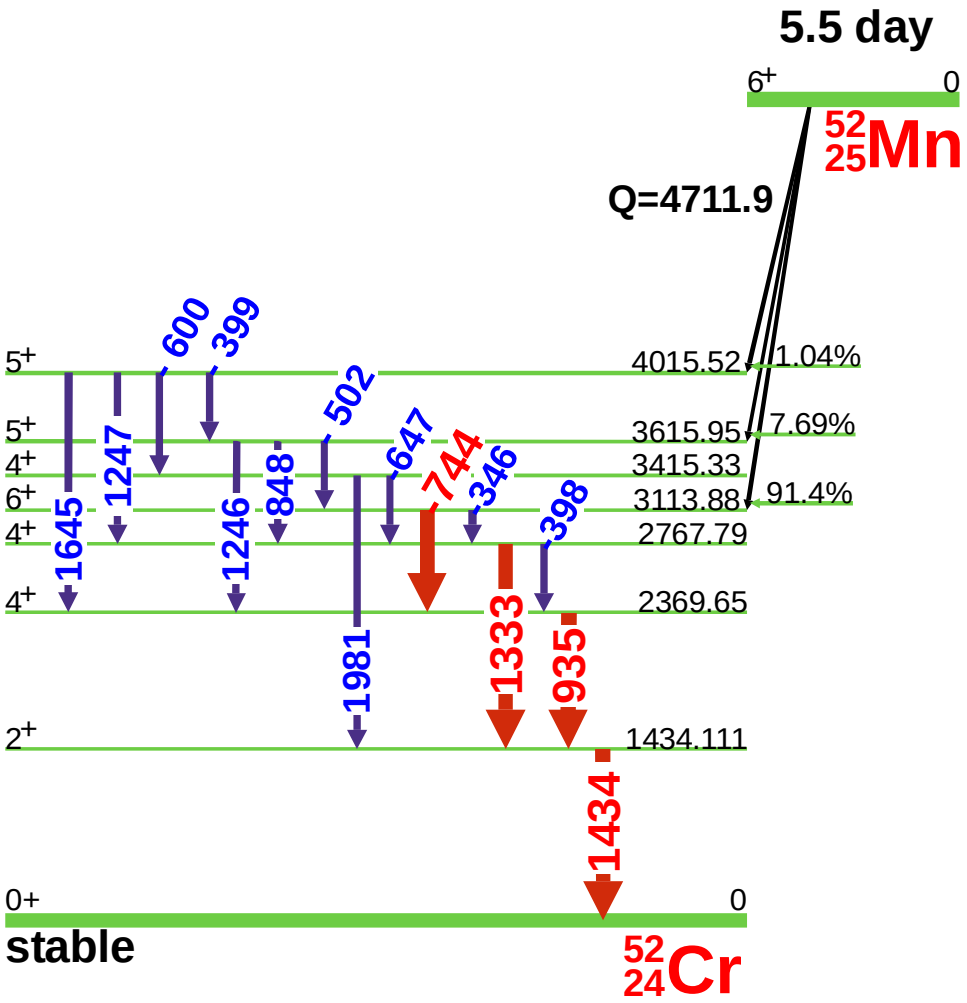
# $^{52}$Mn(5.5 day) Decay Scheme




## GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: $^{52}$Mn — Half Life: 5.591(3) day

Detector: 55 cm$^3$ coaxial Ge (Li) — Method of Production: $^{52}$Cr(p,xn)

| | $E_\gamma$ (keV) | σ $E_\gamma$ | $I_\gamma$ (rel) | $I_\gamma$ (%) | σ $I_\gamma$ | S |
|---|---|---|---|---|---|---|
| | 200.58 | 0.04 | | 0.0760 | 0.0020 | 4 |
| | 346.02 | 0.04 | 1.2 | 0.980 | 0.010 | 4 |
| D | 398.09 | 0.09 | 0.36 | 0.089 | 0.007 | 4 |
| | 399.57 | 0.05 | | 0.183 | 0.007 | |
| | 502.06 | 0.05 | 0.14 | 0.210 | 0.020 | 4 |
| Ann. | 511.006 | | | 58.6 | 0.8 | 1 |
| | 600.16 | 0.05 | 0.53 | 0.390 | 0.010 | 4 |
| | 647.47 | 0.06 | 0.40 | 0.400 | 0.020 | 4 |
| | 744.233 | 0.013 | 88.2 | 90.0 | 0.8 | 1 |
| | 848.18 | 0.05 | 3.4 | 3.32 | 0.03 | 3 |
| | 901.89 | 0.18 | | 0.044 | 0.004 | 4 |
| | 935.544 | 0.012 | 95.0 | 94.5 | 0.9 | 1 |
| | 1045.75 | 0.08 | | 0.070 | 0.020 | 4 |
| D | 1246.278 | 0.015 | 4.8 | 4.21 | 0.06 | 2 |
| | 1247.88 | 0.09 | | 0.38 | 0.04 | |
| | 1333.649 | 0.017 | 5.3 | 5.07 | 0.05 | 1 |
| | 1434.092 | 0.017 | 100 | 100.0 | 0.6 | 1 |
| | 1441.0 | 1.0 | | 0.0030 | 0.0020 | 4 |
| | 1645.82 | 0.04 | 0.055 | 0.047 | 0.003 | 3 |
| | 1839.14 | 0.17 | | 0.0050 | 0.0010 | 4 |
| | 1981.12 | 0.04 | 0.039 | 0.034 | 0.003 | 3 |
| | 2257.42 | 0.19 | | 0.0027 | 0.0006 | 4 |

$E_\gamma$, σ$E_\gamma$, $I_\gamma$, σ$I_\gamma$ - 1998 ENSDF Data