## $^{48}$Fe $\beta^+$p decay 1996Fa09

| History | | | |
|---|---|---|---|
| Type | Author | Citation | Literature Cutoff Date |
| Full Evaluation | T. W. Burrows | NDS 108, 923 (2007) | 20-Feb-2007 |

Parent: $^{48}$Fe: E=0.0; $J^\pi=0^+$; $T_{1/2}$=44 ms *7*; Q($\beta^+$p)=9.11×10$^3$ *SY*; %$\beta^+$p decay>2.5

$^{48}$Fe-E,$J^\pi$,$T_{1/2}$: From the Adopted Levels In 2006Bu08.

$^{48}$Fe-Q($\beta^+$p): From 2003Au03. Estimated uncertainty=0.07 MeV.

$^9$Be($^{58}$Ni,X) E=650 MeV/nucleon. Measured projectile-like fragments At 0°, fragment recoil separator; mag spect, ΔE/E counter telescope (Si), tof.

### $^{47}$Cr Levels

All data are from the Adopted Levels.

| E(level) | $J^\pi$ | $T_{1/2}$ | Comments |
|---|---|---|---|
| 0.0 | 3/2$^-$ | 500 ms *15* | %ε+%$\beta^+$=100 |

### Delayed Protons ($^{47}$Cr)

| E(p) | E($^{47}$Cr) | I(p)† | E($^{48}$Mn) | Comments |
|---|---|---|---|---|
| 959 *33* | 0.0 | 3.6 *11* | 3.10×10$^3$ | E($^{48}$Mn): calculated by the evaluator from S(p)($^{48}$Mn)=2054 keV *113* (2003Au03) and E(p)=959 *33*. |

† For absolute intensity per 100 decays, multiply by >0.025.

## $^{48}$Fe $\beta^+$p decay 1996Fa09

### Decay Scheme

I(p) Intensities: Relative I(p)