

${}^{62}\text{Mn}$   $\beta^-$  decay (92 ms)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Alan L. Nichols, Balraj Singh, Jagdish K. Tuli		NDS 113, 973 (2012)	15-Apr-2012

Parent:  ${}^{62}\text{Mn}$ :  $E=0+x$ ;  $J^\pi=(1^+)$ ;  $T_{1/2}=92$  ms 13;  $Q(\beta^-)=10697.1$  38;  $\% \beta^-$  decay=100.0

${}^{62}\text{Mn}$ -E,  $T_{1/2}$ ,  $J^\pi$ : From Adopted Levels.

${}^{62}\text{Mn}$ - $Q(\beta^-)$ : From [2011AuZZ](#). [2003Au03](#) list 10860 220.

The decay scheme is from D. Pauwels et al. (U. Leuven), priv. comm. received by the evaluators on March 29, 2012. Experiments performed at CERN-ISOLDE facility using RILIS ion source. An 815-keV  $\gamma$  is seen clearly in coincidence with the 877-keV  $\gamma$  ray. These data are still undergoing analysis, however, the 1692 level is firmly assigned.

The decay scheme is incomplete.

 ${}^{62}\text{Fe}$  Levels

E(level)	$J^\pi$ <sup>†</sup>
0.0	$0^+$
877.3 1	$2^+$
1692.3 2	$(0^+)$

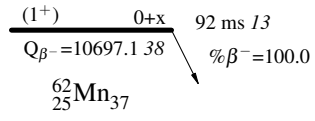
<sup>†</sup> From Adopted Levels.

 $\gamma({}^{62}\text{Fe})$ 

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Comments
815 2	1692.3	$(0^+)$	877.3	$2^+$	$E_\gamma$ : from <a href="#">2005Ga01</a> who reported this $\gamma$ ray from the decay of a short-lived activity in ${}^{62}\text{Mn}$ .
877.3 1	877.3	$2^+$	0.0	$0^+$	$E_\gamma$ : from Adopted Gammas.

${}^{62}\text{Mn} \beta^{-}$  decay (92 ms)Decay Scheme

## Legend



• Coincidence

