$\underline{^{114}\text{Cd } 2\beta^- \text{ decay}}$     **2008Be22**

| Type | Author | History Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | Jean Blachot | NDS 113, 515 (2012) | 1-Jan-2012 |

Parent: $^{114}$Cd: E=0; $J^\pi$=0$^+$; $T_{1/2}$>2.1×10$^{18}$ y; Q(2$\beta^-$)=541 $1$; %2$\beta^-$ decay=100.0

$^{114}$Cd-Q(2$\beta^-$): from 2011AuZZ.

$^{114}$Cd-$T_{1/2}$: from 2008Be22 for 2$\nu$2$\beta$ mode (67% confidence limit); ≥1.3×10$^{18}$ y (90% confidence limit).

$^{114}$Cd-$T_{1/2}$: for 0$\nu$2$\beta$ mode: ≥1.1×10$^{21}$ y (90% confidence limit), ≥2.5×10$^{21}$ y (67% confidence limit) (2008Be22).

Search for double $\beta$ decay detected in CdWO$_4$ crystal scintillator at Gran Sasso National lab of the infn.

Limits of half-lives of $^{114}$Cd for different double beta decay modes measured.

$\underline{^{114}\text{Sn Levels}}$

| E(level) | $J^\pi$ |
|---|---|
| 0 | 0$^+$ |