## $^{255}$Cf $\beta^-$ decay

History

| Type | Author | Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | E. Browne, J. K. Tuli | NDS 114, 1041 (2013) | 1-Nov-2011 |

Parent: $^{255}$Cf: E=0; $J^\pi=(7/2^+)$; $T_{1/2}$=85 min *18*; Q($\beta^-$)=720 *SY*; %$\beta^-$ decay=100.0

$^{255}$Es Q($\beta^-$)=720 *200* (systematics,2011AuZZ).

If $J^\pi(^{255}Cf)=7/2^+[613]$, then the expected main $\beta^-$ feeding will be to the $7/2^+$ and $9/2^+$ levels of the 7/2[633] g.s. band in $^{255}$Es. 1992So06 suggest that allowed, hindered transitions in this region have 6.0<log *ft*≤7.5. With 100% decay going to the $7/2^+$[633] g.s., log *ft*=5.7 *5*.

### $^{255}$Es Levels

| E(level) | $J^\pi$ |
|---|---|
| 0 | $(7/2^+)$ |

### $\beta^-$ radiations

| E(decay) | E(level) | I$\beta^-$ [†] | Log *ft* | Comments |
|---|---|---|---|---|
| (720 *SY*) | 0 | <100 | ≥5.7 | av E$\beta$=218 syst |

[†] Absolute intensity per 100 decays.