

^{20}F β^- decay 1987Aj02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. R. Tilley, C. Cheves, J. Kelley, S. Raman, H. Weller		NP A636, 249 (1998)	21-Apr-1997

Parent: ^{20}F : $E=0$; $J^\pi=2^+$; $T_{1/2}=11.163$ s 8; $Q(\beta^-)=7024.53$ 8; $\% \beta^-$ decay=100.0

E_γ values are from recoil-corrected $E(\text{level})$ differences, and the I_γ are deduced from the β feedings and γ branching ratios given in 1987Aj02 (M.J. MARTIN).

 ^{20}Ne Levels

<u>E(level)</u>	<u>J^π</u>
0	0^+
1633.674 15	2^+
4966.51 20	2^-

 β^- radiations

<u>E(decay)</u>	<u>E(level)</u>	<u>$I\beta^{-\dagger}$</u>	<u>Log ft</u>	<u>Comments</u>
(2058.02 22)	4966.51	0.0082 6	7.20 4	av $E\beta=866.8$ 10
(5390.86 8)	1633.674	99.9913 8	4.9697 11	av $E\beta=2481.5$ 10
(7024.53 8)	0	<0.001	>10.5	av $E\beta=3286.2$ 10

\dagger Absolute intensity per 100 decays.

 $\gamma(^{20}\text{Ne})$

<u>E_γ</u>	<u>I_γ^\dagger</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.</u>	<u>Comments</u>
1633.602 15	99.9995	1633.674	2^+	0	0^+	[E2]	
3332.54 20	0.0082 6	4966.51	2^-	1633.674	2^+	[E1+M2+E3]	δ : $\delta(M2/E1)=0.076$ 11, $\delta(E3/E1)=0.043$ 16.
4965.85 20	0.00005 2	4966.51	2^-	0	0^+	[M2]	

\dagger Absolute intensity per 100 decays.

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Decay Scheme

Intensities: I_γ per 100 parent decays

Legend

