

${}^{22}\text{Si}$ ϵp decay 1997Cz02

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	R. B. Firestone	NDS 127, 1 (2015)	15-Jan-2015

Parent: ${}^{22}\text{Si}$: $E=0$; $J^\pi=0^+$; $T_{1/2}=29$ ms 2; $Q(\epsilon\text{p})=15140$ SY; $\% \epsilon\text{p}$ decay=32 4

Produced by ${}^{58}\text{Ni}({}^{36}\text{Ar},\text{X}) E({}^{36}\text{Ar})=95$ MeV/nucleon. LISE2 at GANIL. Tof mass identification, Si particle telescope. Proton groups at 1.63-, 1.99-, and 2.17-MeV are attributed to 1^+ levels in ${}^{22}\text{Si}$ populated by Gamow Teller transitions. Protons are seen up to 6 MeV, can belong to 2p emission ($E_{\text{p}} < 5.6$ MeV) or 3p emission ($E_{\text{p}} < 3.4$ MeV), mainly from the IAS.

Delayed Protons (${}^{21}\text{Mg}$)

<u>E(p)</u>	<u>I(p)</u>
1560 50	6 2
1900 50	20 2
2000 50	4 2
2070 50	2 1