

^{213}Ra ε decay (2.73 min) 1984Gu29

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 181, 475 (2022)	1-Jan-2022

Parent: ^{213}Ra : $E=0.0$; $J^\pi=1/2^-$; $T_{1/2}=2.73$ min 5; $Q(\varepsilon)=3900$ II; $\% \varepsilon + \% \beta^+$ decay=14 2

^{213}Ra was produced from $^{204}\text{Pb}(^{12}\text{C},4n)$ reaction, reaction products recoiled out of the thin target and were stopped in 500 $\mu\text{g}/\text{cm}^2$ carbon foils. The foils were transported by a belt into the spectrometer for the measurements. A Si(Li) detector for electrons on the long side and a gamma-x-ray counter for γ -rays about 3 cm from the foils on the short side were used. The e^- -x-ray coincidences occur predominantly with the x-ray emitted as a consequence of a K-converted transition. Measured K-conversion lines. No E_γ , I_γ , I_e are reported.

 $\gamma(^{213}\text{Fr})$ E_γ^\dagger

x175
 x195
 x208
 x218
 $^x227^\ddagger$
 $^x317^\ddagger$
 x339
 x400
 x475
 x498

† From Fig. 11 in 1984Gu29. E_γ are labeled for corresponding K-conversion electrons lines.

‡ Comparable E_γ is only available in the adopted gammas from (HI,Xny) studies.

x γ ray not placed in level scheme.