## <sup>85</sup>Nb ε decay (3.3 s):? 2005Ka39

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Parent: <sup>85</sup>Nb: E=69+y;  $J^{\pi}=(1/2^-,3/2^-)$ ;  $T_{1/2}=3.3$  s 9;  $Q(\varepsilon)=6894$  8;  $\%\varepsilon+\%\beta^+$  decay<100.0

 $^{85}$ Nb-J<sup> $\pi$ </sup>,T<sub>1/2</sub>: From  $^{85}$ Nb Adopted Levels.

<sup>85</sup>Nb-Q( $\varepsilon$ ): From 2012Wa38.

<sup>85</sup>Nb- $\%\varepsilon+\%\beta^+$  decay: 69 $\gamma$  is interpreted as isomeric transition, but its branching is unknown.

2005Ka39 (also 2005Ka46): Isomer in  $^{85}$ Nb identified in Ni( $^{32}$ S,X) reaction at 150-170 MeV. Measured  $\gamma$ , ce, ce( $\gamma$ ) coin, half-life. ISOL technique at IGISOL facility at Jyvaskyla and at ISOLDE/CERN.

## 85Zr Levels

E(level) 
$$J^{\pi \dagger}$$
  $T_{1/2}^{\dagger}$   $0$   $(7/2^+)$   $7.86 \text{ min } 4$   $292.2$   $(1/2^-)$   $10.9 \text{ s } 3$ 

† From Adopted Levels.

$$\gamma$$
(85Zr)

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## Decay Scheme

<sup>&</sup>lt;sup>†</sup> Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on  $\gamma$ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.