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 $^{134}\text{Cs}$   $\varepsilon$  decay (2.0652 y) [1975Va12](#)

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| Type            | Author         | History<br>Citation | Literature Cutoff Date |
|-----------------|----------------|---------------------|------------------------|
| Full Evaluation | A. A. Sonzogni | NDS 103, 1 (2004)   | 31-Jul-2004            |

Parent:  $^{134}\text{Cs}$ :  $E=0.0$ ;  $J^\pi=4^+$ ;  $T_{1/2}=2.0652$  y 4;  $Q(\varepsilon)=1233.3$  8;  $\% \varepsilon + \% \beta^+$  decay= $3 \times 10^{-4}$  1

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 $^{134}\text{Xe}$  Levels

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| <u>E(level)</u> | <u><math>J^\pi</math><sup>†</sup></u> |
|-----------------|---------------------------------------|
| 0.0             | $0^+$                                 |
| 847.0 2         | $2^+$                                 |

<sup>†</sup> From Adopted Levels.

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 $\varepsilon, \beta^+$  radiations

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| <u>E(decay)</u> | <u>E(level)</u> | <u><math>I\varepsilon</math><sup>†</sup></u> | <u>Log <math>ft</math></u> | <u><math>I(\varepsilon + \beta^+)</math><sup>†</sup></u> | <u>Comments</u>                                                                |
|-----------------|-----------------|----------------------------------------------|----------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------|
| (386.3 8)       | 847.0           | 0.00030 12                                   | 13.04 23                   | 0.00030 12                                               | $\varepsilon K=0.8360$ ; $\varepsilon L=0.12841$ 4; $\varepsilon M+=0.03557$ 2 |

<sup>†</sup> Absolute intensity per 100 decays.

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 $\gamma(^{134}\text{Xe})$ 

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| <u><math>E_\gamma</math></u> | <u><math>I_\gamma</math><sup>†</sup></u> | <u><math>E_i(\text{level})</math></u> | <u><math>J_i^\pi</math></u> | <u><math>E_f</math></u> | <u><math>J_f^\pi</math></u> | <u>Mult.</u> | <u><math>\alpha^\ddagger</math></u> | <u>Comments</u>                                                                                                                                                |
|------------------------------|------------------------------------------|---------------------------------------|-----------------------------|-------------------------|-----------------------------|--------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 847.0 2                      | 0.0003 1                                 | 847.0                                 | $2^+$                       | 0.0                     | $0^+$                       | E2           | 0.00237                             | $\alpha(K)=0.00202$ ; $\alpha(L)=0.00026$<br>$I_\gamma$ : relative to $I(604.7\gamma, ^{134}\text{Ba})=97.56$ 32 and to $I(1167.9, ^{134}\text{Ba})=1.805$ 26. |

<sup>†</sup> Absolute intensity per 100 decays.

<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.

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Decay SchemeIntensities:  $I_{(\gamma+ce)}$  per 100 parent decays