## $^{104}$Ru(t,p$\gamma$) 1987Es01

History

| Type | Author | Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | D. De Frenne and A. Negret | NDS 109, 943 (2008) | 1-May-2007 |

E(t)=16 MeV; measured: E$\gamma$, I$\gamma$, Ice, tp$\gamma$, tpce. Deduced: $^{106}$Ru levels, B(E0)/B(E2).Conversion electrons measured with a lens-type superconducting solenoid spectrometer. Gammas with high-purity Ge.

### $^{106}$Ru Levels

| E(level)† | J$^\pi$‡ | Comments |
|---|---|---|
| 0.0 | $0^+$ | |
| 270.07 *4* | $2^+$ | |
| 990.62 *5* | $0^+$ | B(E0; 990 ($0^+$) to g.s.($0^+$))/B(E2; 990 ($0^+$) to 270($2^+$))=3.7×10$^{-3}$ 15. |

† Level energies and uncertainties from Adopted Levels.
‡ From Adopted Levels.

### $\gamma$($^{106}$Ru)

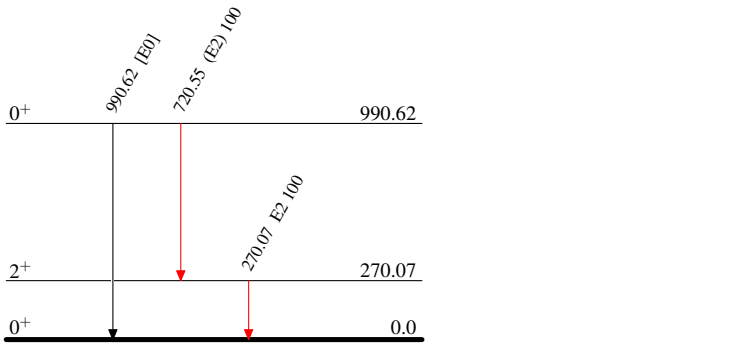
| E$_\gamma$† | I$_\gamma$ | E$_i$(level) | J$_i^\pi$ | E$_f$ | J$_f^\pi$ | Mult. | I$_{(\gamma+ce)}$ | Comments |
|---|---|---|---|---|---|---|---|---|
| 270.07 *5* | 100 | 270.07 | $2^+$ | 0.0 | $0^+$ | E2 | | |
| 720.55 *5* | 100 | 990.62 | $0^+$ | 270.07 | $2^+$ | (E2) | | |
| 990.62 *5* | | 990.62 | $0^+$ | 0.0 | $0^+$ | [E0] | 30×10$^{-4}$ *12* | I$_{(\gamma+ce)}$: from I(ce(K))/I(720$\gamma$)=30×10$^{-6}$ *12*. |

† From Adopted Levels.

**$^{104}$Ru(t,p$\gamma$) 1987Es01**

Level Scheme

Intensities: Type not specified




$^{106}_{44}Ru_{62}$