

$^{235}\text{U}(\text{n},\text{F}\gamma)$  2009Ur02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, G. Mukherjee, A. A. Sonzogni		NDS 111, 2555 (2010)	30-Jun-2009

**2009Ur02:**  $^{235}\text{U}(\text{n},\text{F}\gamma)$ , E-thermal; measured  $\gamma$  rays using detection system consisting of an ion chamber, three Ge detectors, two clover detectors, and a 60% Gamma-X detector at LOHENGRIN fission-fragment separator at ill, Grenoble; measured  $T_{1/2}$  using digital electronics with a 40 MHz clock.

**1969Wa29:**  $^{235}\text{U}, ^{239}\text{Pu}$ ; fast neutrons. Measured delayed  $\gamma$ 's; NaI(Tl) detectors.

**1976MoZJ, 1976SeZN:**  $^{235}\text{U}$ ; thermal neutrons. Measured delayed fragment- $\gamma$ (t); Ge(Li), as reported in **1983Lu03**.

**1982Pr01:**  $E_{\gamma}=50$  MeV, bremsstrahlung. Measured  $\gamma$ (t); rotating target, Ge(Li).

 $^{95}\text{Y}$  Levels

E(level) <sup>†</sup>	$J^{\pi}$ <sup>‡</sup>	$T_{1/2}$	Comments
0.0	1/2 <sup>-</sup>		
685.7 2	3/2 <sup>-</sup>		E(level): observed only in <b>2009Ur02</b> .
826.8 2	5/2 <sup>-</sup>		
1087.5 3	9/2 <sup>+</sup>	52.6 $\mu\text{s}$ 12	$T_{1/2}$ : weighted average of 51.2 $\mu\text{s}$ 9 ( <b>2009Ur02</b> ), 58 $\mu\text{s}$ 8 ( <b>1982Pr01</b> ), 56.8 $\mu\text{s}$ 20 ( <b>1976SeZN</b> ), 60 $\mu\text{s}$ 5 ( <b>1976MoZJ</b> ), and 54.0 $\mu\text{s}$ 25 ( <b>1969Wa29</b> ), from $\gamma$ (t).

<sup>†</sup> From least-squares fit to  $E_{\gamma}$ 's assuming 0.3 keV uncertainty for each  $\gamma$ .

<sup>‡</sup> From the Adopted Levels.

 $\gamma(^{95}\text{Y})$ 

$E_{\gamma}$ <sup>†</sup>	$I_{\gamma}$ <sup>†</sup>	$E_i(\text{level})$	$J_i^{\pi}$	$E_f$	$J_f^{\pi}$
141.0	0.5 1	826.8	5/2 <sup>-</sup>	685.7	3/2 <sup>-</sup>
260.7	100 3	1087.5	9/2 <sup>+</sup>	826.8	5/2 <sup>-</sup>
401.8	1.1 1	1087.5	9/2 <sup>+</sup>	685.7	3/2 <sup>-</sup>
685.7	1.5 2	685.7	3/2 <sup>-</sup>	0.0	1/2 <sup>-</sup>
826.8	98 3	826.8	5/2 <sup>-</sup>	0.0	1/2 <sup>-</sup>

<sup>†</sup> From **2009Ur02**.

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## Level Scheme

Intensities: Relative  $I_\gamma$ 

## Legend

- $\blackrightarrow$   $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
- $\color{blue}\blackrightarrow$   $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
- $\color{red}\blackrightarrow$   $I_\gamma > 10\% \times I_\gamma^{\text{max}}$

