

$^{235}\text{U}(\text{n},\text{n}'\gamma)$ **1986Ke09**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 122, 205 (2014)	1-Feb-2014

E(n)=100 to 500 keV, pulsed beam; γ rays: Ge(Li). Detected 129-keV γ ray (de-exciting the 129-keV ($J^\pi=5/2^+$) level in ^{235}U),

measured excitation function. Deduced cross section was corrected for fission neutrons (1986Ke09).

E(n)= 3 MeV, preliminary report on 90 γ rays possibly from $^{235}\text{U}(\text{n},\text{n}'\gamma)$; Most of the Iy data are inconsistent with well established portions of the ^{235}U decay scheme (1984BIZS). Therefore, the evaluator has considered unreliable these γ rays.

 ^{235}U Levels

$E(\text{level})^\dagger$	J^π	$E(\text{level})^\dagger$	J^π	$E(\text{level})^\dagger$	J^π	$E(\text{level})^\dagger$	J^π
0	$7/2^-$	225.41	$9/2^+$	658.93	$1/2^-$	1057.4	$(7/2)$
46.20	$9/2^-$	393.2	$3/2^+$	670.98	$(7/2)^-$	1116.21	$(5/2^-)$
129.29	$5/2^+$	445.7	$7/2^+$	701.01	$(7/2)^-$		

[†] From Adopted Levels.

 $\gamma(^{235}\text{U})$

E_γ^\dagger	$E_i(\text{level})$	J_i^π	E_f	J_f^π
129	129.29	$5/2^+$	0	$7/2^-$
392.94	393.2	$3/2^+$	0	$7/2^-$
400.2	445.7	$7/2^+$	46.20	$9/2^-$
445.7	445.7	$7/2^+$	0	$7/2^-$
625.2	670.98	$(7/2)^-$	46.20	$9/2^-$
654.6	701.01	$(7/2)^-$	46.20	$9/2^-$
658.7	658.93	$1/2^-$	0	$7/2^-$
831.8	1057.4	$(7/2)$	225.41	$9/2^+$
987.4	1116.21	$(5/2^-)$	129.29	$5/2^+$

[†] From 1984BIZS.

$^{235}_{92}\text{U}(\text{n},\text{n}'\gamma)$ 1986Ke09Level Scheme