²³²Th(n,5nγ) **2008KeZX**

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Full Evaluation Khalifeh Abusaleem NDS 116, 163 (2014) 31-Dec-2012

 $E_n=$ white. Measured $E\gamma$ and $d\sigma/d\Omega$. HPGe detectors to measure $E\gamma$ and TOF technique to determine E_n . $^7Li(p,nx)$ at $E_p=$ 32, 36.5, 38, 40 and 44 MeV to produce the neutron beam.

²²⁸Th Levels

The authors see transitions from the known $4^+,6^+$ and 8^+ members of the $K^{\pi}=0^+$ g.s. band.

E(level) [†]	$J^{\pi \dagger}$	Comments
57.8	2+	Additional information 1.
186.8 <i>10</i>	4+	
378.1 <i>15</i>	6+	
622.4 18	8+	

[†] From Adopted Levels.

$$\underline{\gamma(^{228}Th)}$$

Authors give only E γ . They give the values of 129.065, 191.349, and 244.3 for the measured γ -rays. In figure 3 of 2008KeZX these are rounded to the first digit which is more appropriate. The evaluator adopts the values from the figure. Multipolarity of γ -rays in the ground-state band are assumed E2.

Εγ	$E_i(level)$	\mathbf{J}_i^{π}	$\mathbf{E}_f \mathbf{J}_f^{\pi}$	Mult
129.0	186.8	4+	57.8 2+	[E2]
191.3	378.1	6+	186.8 4 ⁺	[E2]
244.3	622.4	8+	378.1 6 ⁺	[E2]

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Level Scheme

