

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov, A. A. Rodionov and S. Sakharov, Balraj Singh		NDS 104, 497 (2005)	1-Jul-2022

$Q(\beta^-) = -1.29 \times 10^4$  SY;  $S(n) = 1.30 \times 10^4$  SY;  $S(p) = 2.7 \times 10^3$  SY;  $Q(\alpha) = 3.0 \times 10^3$  SY 2021Wa16

Isotopic identification by 1989Wa21, 1989McZU, 1988IsZU.

1989McZU: Recoil separator, measured  $\gamma(t)$ ,  $x(t)$ . Measured half-life of  $^{132}\text{Sm}$ .

 $^{132}\text{Sm}$  LevelsCross Reference (XREF) Flags

A  $^{96}\text{Ru}(^{40}\text{Ca}, 2p2n\gamma)$

E(level) <sup>†</sup>	J <sup>π</sup> <sup>‡</sup>	T <sub>1/2</sub>	XREF	Comments
0.0 <sup>#</sup>	0 <sup>+</sup>	4.0 s 3	A	%ε+%β <sup>+</sup> =100; %εp=? T <sub>1/2</sub> : from 1989McZU.
131 <sup>#</sup> 1	(2 <sup>+</sup> )		A	
417 <sup>#</sup> 2	(4 <sup>+</sup> )		A	
833 <sup>#</sup> 2	(6 <sup>+</sup> )		A	
1354 <sup>#</sup> 2	(8 <sup>+</sup> )		A	
1962 <sup>#</sup> 2	(10 <sup>+</sup> )		A	
2647 <sup>#</sup> 3	(12 <sup>+</sup> )		A	
3408 <sup>#</sup> 3	(14 <sup>+</sup> )		A	
4245 <sup>#</sup> 3	(16 <sup>+</sup> )		A	

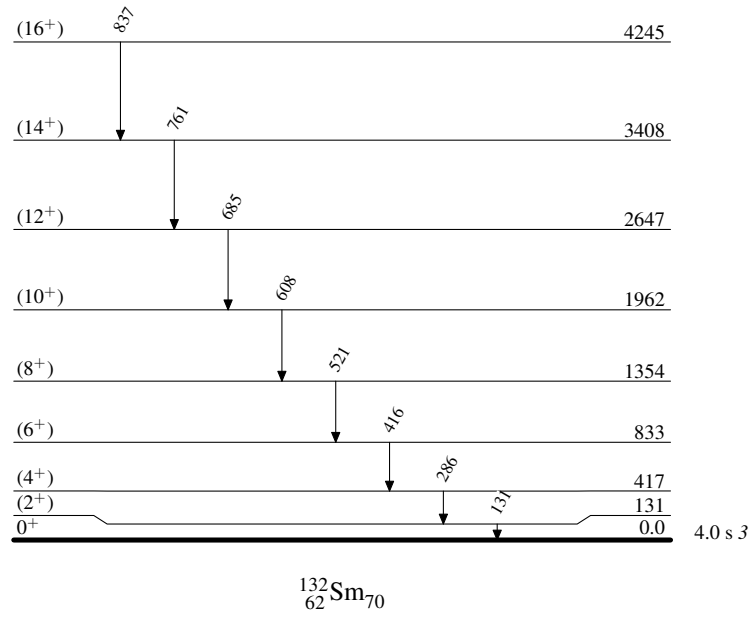
<sup>†</sup> Δ(E<sub>γ</sub>) assumed as 1 keV for each  $\gamma$  (evaluators).

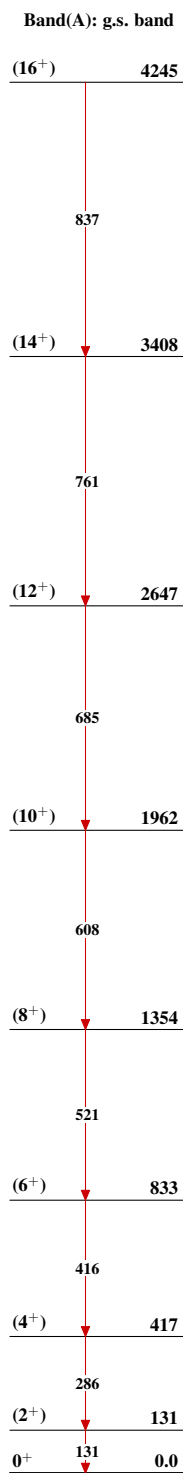
<sup>‡</sup> From expected band structure.

<sup>#</sup> Band(A): g.s. band.

 $\gamma(^{132}\text{Sm})$ 

E <sub>i</sub> (level)	J <sub>i</sub> <sup>π</sup>	E <sub>γ</sub>	E <sub>f</sub>	J <sub>f</sub> <sup>π</sup>
131	(2 <sup>+</sup> )	131	0.0	0 <sup>+</sup>
417	(4 <sup>+</sup> )	286	131	(2 <sup>+</sup> )
833	(6 <sup>+</sup> )	416	417	(4 <sup>+</sup> )
1354	(8 <sup>+</sup> )	521	833	(6 <sup>+</sup> )
1962	(10 <sup>+</sup> )	608	1354	(8 <sup>+</sup> )
2647	(12 <sup>+</sup> )	685	1962	(10 <sup>+</sup> )
3408	(14 <sup>+</sup> )	761	2647	(12 <sup>+</sup> )
4245	(16 <sup>+</sup> )	837	3408	(14 <sup>+</sup> )

**Adopted Levels, Gammas**Level Scheme

**Adopted Levels, Gammas** $^{132}_{62}\text{Sm}_{70}$