$^{238}U(^{76}Ge,X\gamma)$ 2015Sa09

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja	NDS 207,1 (2026)	1-Apr-2023

No changes from XUNDL compiled dataset by J. Chen (NSCL, MSU), March 4, 2015.

2015Sa09: Neutron-rich Cu isotopes were populated via multinucleon transfer reactions using a E=577 MeV ^{76}Ge beam from the Tandem-XTU and the ALPI superconducting LINAC accelerators at Laboratori Nazionali di Legnaro (LNL), bombarding a thin, metallic ^{238}U target of 1.5 mg/cm^2 thickness evaporated onto a ^{181}Ta backing of 1.4 mg/cm^2 thickness. Reaction products were separated according to the measured ΔE-E matrix by the PRISMA magnetic spectrometer. γ rays were detected by the AGATA Demonstrator array of four triple clusters, each consisting of three 36-fold segmented HPGe detector. Measured Eγ, Iγ, particle-γ(t). Deduced lifetime of 1711 level using the differential recoil-distance Doppler-shift method (RDDS), transition probabilities. Compared with shell-model calculations.

^{69}Cu Levels

E(level)	J^π‡	$T_{1/2}$†
0	$3/2^-$	
1711	$7/2^-$	26 ps *11*

† From 2015Sa09 using the differential recoil distance Doppler-shift method (RDDS).
‡ From 2015Sa09.

$\gamma(^{69}Cu)$

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.†
1711	1711	$7/2^-$	0	$3/2^-$	E2

† From Adopted Gammas.

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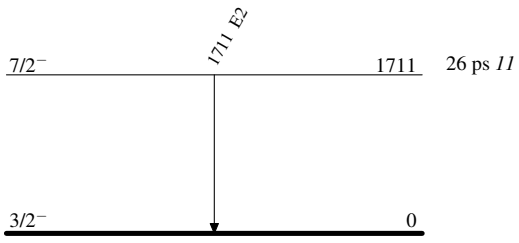
Level Scheme



$^{69}_{29}Cu_{40}$