^{198}Pt(^{48}Ca,Xγ) 2004IsZX

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 179, 1 (2022)	30-Nov-2021

2004IsZX: E=8.5 MeV/nucleon ^{48}Ca beam was produced from the JAERI tandem-booster facility. γ rays from the isomer were detected with Ge detectors of an isomer-scope detecting projectile-like fragments in Si ΔE-E detectors and absorbing prompt γ rays in a tungsten γ-ray shield. Measured Eγ, $\gamma\gamma$-coin, fragment-γ(t), γ(asymmetry). Deduced levels, isomer $T_{1/2}$.

2004IsZX propose a level scheme based on a 1^- level with unknown E=x separate from the g.s., which however has been resolved to be the g.s. by 2011Kr12 in ^{238}U(^{48}Ca,Xγ).

^{48}K Levels

E(level)	J^π †	$T_{1/2}$	Comments
0.0	1^-		2004IsZX propose this 1^- level at E=x, on which all higher levels are based, while it has been resolved to be the g.s. by 2011Kr12.
279	2^-		
728	3^-		
2177	5^+	13 ns *2*	$T_{1/2}$: from fragment-γ(t) (2004IsZX).

† As proposed by 2004IsZX, except as noted; no details given.

γ(^{48}K)

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.†
279	279	2^-	0.0	1^-	D
449	728	3^-	279	2^-	D
1449	2177	5^+	728	3^-	M2

† From W(in plane)/W(out of plane) (2004IsZX).

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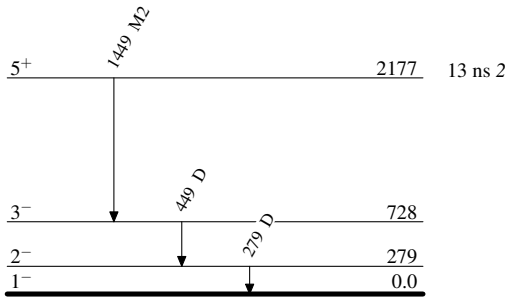
Level Scheme



$^{48}_{19}K_{29}$