

$^9\text{Be}(^{208}\text{Pb},\text{X}\gamma)$:isomer 2009A130

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, ¹ and Jun Chen ²		NDS 169, 1 (2020)	15-Oct-2020

2009A130: projectile fragmentation of ^{208}Pb beam at 1 GeV/nucleon with ^9Be target at GSI facility. Fragment Recoil separator (FRS) used to separate and identify ^{190}Ta nuclide. The secondary ions were implanted into the RISING active stopper consisting of double-sided silicon strip detectors. Measured E_γ , I_γ , $\gamma\gamma$, $\gamma\gamma(t)$, implant-decay correlations, and isomer half-life using RISING array of 15 seven-element Ge cluster detectors for γ rays, two multi-wire proportional counters for position measurements, two scintillation detectors providing time-of-flight and position information, and two scintillators and an ionization chamber (MUSIC) for energy loss measurements.

 ^{190}Ta Levels

E(level)	$T_{1/2}$	Comments
0+x		
175+x	42 ns 7	$T_{1/2}$: from $\gamma(t)$ (2009A130).

 $\gamma(^{190}\text{Ta})$

E_γ	$E_i(\text{level})$	E_f
175	175+x	0+x

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