175

175+x

0+x

## <sup>9</sup>Be(<sup>208</sup>Pb,Xγ):isomer **2009Al30**

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

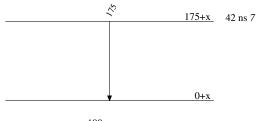
2009A130: projectile fragmentation of <sup>208</sup>Pb beam at 1 GeV/nucleon with <sup>9</sup>Be target at GSI facility. Fragment Recoil separator (FRS) used to separate and identify <sup>190</sup>Ta nuclide. The secondary ions were implanted into the RISING active stopper consisting of double-sided silicon strip detectors. Measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ ,  $\gamma\gamma(t)$ , implant-decay correlations, and isomer half-life using RISING array of 15 seven-element Ge cluster detectors for  $\gamma$  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	Та	Levels	

E(level) T <sub>1/2</sub>		Comments		
0+x 175+x	42 ns 7	T <sub>1/2</sub> : from $\gamma(t)$ (2009Al30).		
			<u> γ(<sup>190</sup>Ta)</u>	
E <sub>n</sub> E <sub>i</sub>	(level) I	2 f		

<sup>9</sup>Be(<sup>208</sup>Pb,Xγ):isomer 2009Al30

Level Scheme



<sup>190</sup><sub>73</sub>Ta<sub>117</sub>