⁹Be(⁵⁴Ni,Xγ) **2013Da08**

History							
Type	Author	Citation	Literature Cutoff Date				
Full Evaluation	Yang Dong, Huo Junde	NDS 128, 185 (2015)	10-Jul-2015				

Beams of ⁵⁴Ni at E=87 MeV/nucleon were produced from fragmentation of ⁵⁸Ni primary beam at 160 MeV/nucleon on a ⁹Be primary target. A1900 fragment separator, ⁵²Ni beams were identified from energy loss in the S800 ionization chamber, time-of-flight measurement, *γ* rays were measured using SeGA array, Shell-model calculations.

⁵²Ni Levels

E(level)	$J^{\pi \dagger}$		
0	0+		
1397 6	2+		
2385 10	4+		
3247 <i>17</i>	6+		

 † Based on the intensity profile of the γ -rays and mirror-symmetry arguments, i.e., through comparison with the spectrum of 52 Cr.

$$\gamma$$
(52Ni)

E_{γ}	I_{γ}	$E_i(level)$	\mathbf{J}_i^{π}	\mathbf{E}_f	\mathbf{J}_f^{π}
862 <i>1</i> -	4 27 11	3247	6+	2385	4+
988 8	44 10	2385	4+	1397	2+
1397 6	100 <i>13</i>	1397	2+	0	0_{+}

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