## <sup>9</sup>Be(<sup>112</sup>Sn,Xγ) 2012Lo08

History					
Туре	Author	Citation	Literature Cutoff Date		
Full Evaluation	Coral M. Baglin	NDS 114, 1293 (2013)	1-Sep-2013		

<sup>91</sup>Rh produced from fragmentation of a <sup>112</sup>Sn beam at E=120 MeV/nucleon on a 195 mg/cm<sup>2</sup> <sup>9</sup>Be target at the National Superconducting Cyclotron Laboratory (NSCL); fragments separated by the A1900 Fragment Separator and the Radio Frequency Fragment Separator (RFFS), then implanted in a double-sided silicon strip detector (DSSD); NSCL Beta Counting System used in conjunction with the SeGA Array of 16 HPGe detectors; measured  $E\gamma$ ,  $I\gamma$ ,  $\beta$  spectra, E(p), I(p),  $\beta\gamma$ -coin,  $\beta$ p-coin,  $\gamma\beta$ p-coin, half-life,  $\beta$ -delayed proton emission probability.

A total of 12  $\beta$ p coin events were identified.

<sup>91</sup>Rh Levels

E(level)	$\mathbf{J}^{\pi}$	T <sub>1/2</sub>	Comments	
0	(9/2+)	1.60 s <i>15</i>	<ul> <li>%β<sup>+</sup>p=1.3 5 (2012L008)</li> <li>T<sub>1/2</sub>: listed by 2012L008 as weighted average of 1.47 s 22 (2004De40) and 1.7 s 2 (2001Ki13).</li> <li>J<sup>π</sup>: from Adopted Levels. From systematics, 2012Au07 suggest 7/2<sup>+</sup>.</li> <li>%β<sup>+</sup>p: measured by 2012L008 assuming the half-life value 1.60 s 15 and based on observation of 12 βp coincidence events.</li> </ul>	