

$^7\text{Li}(^{98}\text{Rb},t2n\gamma)$  2015Bo11

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen		NDS 172, 1 (2021)	31-Jan-2021

**2015Bo11:**  $E(^{98}\text{Rb})=2.85$  MeV/nucleon incident on a  $1.5$  mg/cm<sup>2</sup> LiF target enriched in  $^7\text{Li}$ . Incident beam contained strong isobaric  $^{98}\text{Sr}$  component. Measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin and (particle) $\gamma\gamma$ -coin using the MINIBALL array consisting of 24 six-fold segmented HPGe crystals and the T-REX system consisting of a Si detector with two layers to act as a  $\Delta E$ -E detector, placed at forward angles. Discussed reaction mechanism in terms of transfer of cluster-like particle within the distorted-wave Born approximation framework.

 $^{100}\text{Y}$  Levels

<u>E(level)</u>	<u><math>J^\pi</math></u>
0	(1) <sup>-</sup>
11 <sup>†</sup>	1 <sup>+</sup>
75	(2) <sup>+</sup>
171	(3) <sup>+</sup>

<sup>†</sup> From the Adopted Levels. Energy is rounded value.

 $\gamma(^{100}\text{Y})$ 

**2015Bo11** report observation of transitions of 64 and 96 keV, assigned  $^{100}\text{Y}$ , and populated through (t,2n) reaction channel. Placement of these transitions is based on the Adopted Levels, Gammas dataset.

<u><math>E_\gamma</math></u>	<u><math>E_i(\text{level})</math></u>	<u><math>J_i^\pi</math></u>	<u><math>E_f</math></u>	<u><math>J_f^\pi</math></u>
64	75	(2) <sup>+</sup>	11	1 <sup>+</sup>
96	171	(3) <sup>+</sup>	75	(2) <sup>+</sup>

$^7\text{Li}(^{98}\text{Rb},t2n\gamma)$  2015Bo11Level Scheme