^{7}Li(^{98}Rb,5nγ),(^{98}Sr,t2nγ) 2015Bo11

History

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

2015Bo11: E(^{98}Rb)=2.85 MeV/nucleon incident on a 1.5 mg/cm^2 LiF target enriched in ^{7}Li. Measured Eγ, Iγ, $\gamma\gamma$-coin and (particle)γ-coin using the MINIBALL array consisting of 24 sixfold segmented HPGe crystals and the T-REX system consisting of Si detector system with two layers to act as a ΔE-E detector, placed at forward angles. Discussed reaction mechanism discussed in terms of transfer of cluster-like particle within the framework of distorted-wave Born approximation (DWBA). Also 2014Bo09 conference report from the same group.

^{100}Zr Levels

E(level)[†]	J$^\pi$[‡]
0	0^+
212	2^+
563	4^+
1060	6^+
1685	8^+

[†] From Eγ data.
[‡] From the Adopted Levels.

γ(^{100}Zr)

E$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
212[†]	212	2^+	0	0^+
351[†]	563	4^+	212	2^+
497	1060	6^+	563	4^+
625	1685	8^+	1060	6^+

[†] Observed in coincidence with tritons.

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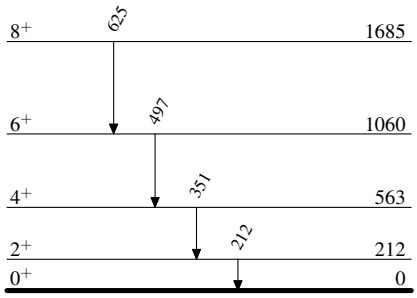
Level Scheme



$^{100}_{40}Zr_{60}$