^{7}Li(^{98}Rb,α2nγ) 2015Bo11

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 145, 25 (2017)	1-Jul-2017

Additional information 1.

Based on XUNDL. Compiled by E.A. McCutchan (NNDC,BNL), October 7, 2015.

E(^{98}Rb)=2.85 MeV/nucleon incident on a 1.5 mg/cm^2 LiF target enriched in ^{7}Li. A strong ^{98}Sr isobaric contaminant was also present in the beam. Measured Eγ, Iγ, $\gamma\gamma$ and particle γ coincidences using the MINIBALL array consisting of 24 sixfold segmented HPGe crystals and the T-REX system consisting of a Si Cd detector with two layers to act as a ΔE-E detector, placed at forward angles. Reaction mechanism discussed in terms of transfer of a cluster-like particle within a distorted-wave Born approximation framework.

^{99}Sr Levels

E(level)†	J$^\pi$†
0.0	3/2$^+$
90.8	(5/2$^+$)

† From Adopted Levels, Gammas. Other: 2014Bo09.

γ(^{99}Sr)

E$_\gamma$†	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Comments
91	90.8	(5/2$^+$)	0.0	3/2$^+$	Placement of γ-ray transition in level scheme is by evaluators.

† 2015Bo11 report observation of a 91-keV transition in coincidence with α particles.

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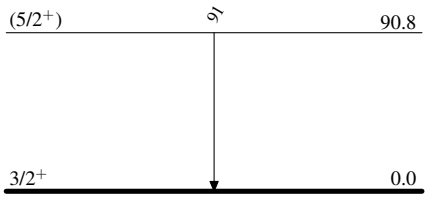
Level Scheme



$^{99}_{38}Sr_{61}$