	⁶ Li(π ⁻ , p) 199	0Am04			
History					
Туре	Author	Citation	Literature Cutoff Date		
Full Evaluation	J. E. Purcell, C. G. Sheu	ENSDF	28-Feb-2019		

1981SeZR: The missing mass spectrum resulting from stopped pions in the ${}^{6}\text{Li}(\pi^{-},p)$ reaction was analyzed at $\theta=20^{\circ}$ at the LAMPF/EPICS facility. The authors suggest a $\text{E}_{res}\approx11.0$ MeV *15* resonance with $\Gamma\approx14$ MeV. A later comment on this work, titled "*Was* ⁵*H Observed in the Reaction* ${}^{6}\text{Li}(\pi,p)$?" (1987Ko47), suggests other final state interactions involving *n*+*n* and ⁴H influence the observation. In (1991Se06), a final report on the (1981SeZR) data is given where evidence of involvement of dineutron emission is suggested to explain the details of the missing mass spectrum.

1990Am04: The experiments were conducted at Leningrad Institute of Nuclear Physics using pion beams stopped by 6,7 Li targets. Observing the p spectrum from 6 Li led to a 5 H state with energy E_{res}=11.8 MeV 7 and width Γ =5.6 MeV 9.

⁵H Levels

E(level) [†]	Г	$E_{res}(^{3}H+2n)(MeV)$
9.4×10 ³ 8	5.6 MeV 9	11.8 7

[†] From E_{res} - $E_{g.s.}$ = E_{res} -2.4 MeV 3.