5	н	
1	11 ₄	

⁷ Li(π^- ,d)	1990Am04
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History					
Туре	Author	Citation	Literature Cutoff Date		
Full Evaluation	J. E. Purcell, C. G. Sheu	ENSDF	28-Feb-2019		

Cohen, et al., Phys. Lett 14 (1965) 242. The energy spectrum of deuterium products was measured following $^{7}\text{Li}(\pi^{-},d)$ reactions on ^{7}Li . No indication of ^{5}H resonances was observed in the data.

1969Mi10: A 100 MeV π^- beam from the NASA Space Radiation Effects Laboratory was degraded and stopped in a natural Li target. The opening angles of resulting d+t pairs were analyzed in search of ⁵H resonances. Upper limits were placed on ⁵H production.

1990Am04: The experiments were conducted at Leningrad Institute of Nuclear Physics using pion beams stopped by 6,7 Li targets. Observing the d spectrum from ⁷Li led to a ⁵H state with energy E_{res}=9.1 MeV 7 and width Γ =7.4 MeV 6.

See theoretical analysis in (1969Ko15).

⁵H Levels

E(level) [†]	Г	$E_{res}(^{3}H+2n)(MeV)$
6.7×10 ³ 8	7.4 MeV 6	9.1 7

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