^{226}Ra(p,t) 1974Fr01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Sukhjeet Singh	ENSDF	08-Mar-2022

1974Fr01: E(p)=16.5 MeV. Measured triton spectra and $\sigma(\theta)$ using Enge split-pole magnetic spectrograph at FN-tandem-ANL facility. Target= 25 μg/cm^2 on 30-40 μg/cm^2 carbon layer. DWBA analysis.

^{224}Ra Levels

E(level)	L[†]	dσ/dΩ μb/sr[#]	Comments
0	0	198 *26*	Reduced dσ/dΩ=155 μb/sr *25* at 60°. σ(exp)/σ(DWBA)=0.85.
84 *2*	(2)[‡]	31 *4*	
251 *3*	(4)[‡]	19 *3*	
477 *2*		6 *1*	
918 *3*	0	16 *3*	Reduced dσ/dΩ=8 μb/sr *2* at 60°. σ(exp)/σ(DWBA)=0.07.
1223 *4*	0[‡]	12	Reduced dσ/dΩ=13 μb/sr *2* at 60°. σ(exp)/σ(DWBA)=0.14.
1627 *3*		13 *3*	
1761 *4*		8 *1*	
1949 *4*		2 *1*	

[†] Authors state that only the L=0 angular distributions are reliable. L=2 and L=4 are listed for the 84 and 251 levels based probably on the assumed J^π values.

[‡] The $\sigma(\theta)$ distribution curves not shown by 1974Fr01. Authors state that while L=0 assignments are unambiguous, this is not the case for L=2 and 4 transitions. For this reason, L=2 and 4 are listed here in parentheses.

[#] Values at 15°.