

${}^{60}\text{Ni}({}^{16}\text{O}, {}^{16}\text{O}'), ({}^6\text{Li}, {}^6\text{Li}')$ 1983Ha08

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 114, 1849 (2013)	31-Dec-2012

Includes (${}^{14}\text{C}, {}^{14}\text{C}'$), (${}^{17}\text{O}, {}^{17}\text{O}'$), (${}^{18}\text{O}, {}^{18}\text{O}$), (${}^{28}\text{Si}, {}^{28}\text{Si}'$).

(${}^{16}\text{O}, {}^{16}\text{O}'$): E=114 MeV. Measured $\sigma(\theta)$, Q3D spectrograph, FWHM=100-120 keV, enriched target (1983Ha08).

For theoretical analysis of (${}^{16}\text{O}, {}^{16}\text{O}$) reaction, see 1985Fu12, 1986Da17, 1986Ch20, and 1986Ch38.

Others: For 1330, 2510 and 4050 levels; (${}^{28}\text{Si}, {}^{28}\text{Si}'$) (1983Ch20)
 For 1330 level; (${}^6\text{Li}, {}^6\text{Li}'$) (1981Fu04, 1994Sa33)
 (${}^{14}\text{C}, {}^{14}\text{C}'$) (1981Ha23)
 (${}^{16}\text{O}, {}^{16}\text{O}'$) (1975Re17, 1977We05, 1978Sa06)
 (${}^{17}\text{O}, {}^{17}\text{O}'$) (1979Es04)
 (${}^{18}\text{O}, {}^{18}\text{O}'$) (1975Re17)
 (${}^{28}\text{Si}, {}^{28}\text{Si}'$) (1982Bo25)

 ${}^{60}\text{Ni}$ Levels

E(level)	L^{\ddagger}	β_{LR}	Comments
0			
1330	2	1.13	$\beta_2 = 0.21$ 3 (1994Sa33).
2180	2	(0.11)	
2510	4	0.35	$\beta_{LR} = 0.39$ (1983Ch20).
3120	4	0.25	
3340 [†]			
3690	4	0.17	
4050	3	0.76	$\beta_{LR} = 0.59$ (1983Ch20).
4320	4	0.24	
4540 [†]	4	(0.19)	
4860			
5090 [†]	(5)	0.41	
5680	(3)	(0.33)	

[†] Multiplet.

[‡] From comparison with DWBA.