

$^{63}\text{Cu}(^3\text{He},\alpha)$ 1973Da28

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Alan L. Nichols, Balraj Singh, Jagdish K. Tuli		NDS 113, 973 (2012)	15-Apr-2012

E=18 MeV, spectrograph, FWHM=15 keV.

E(level): 1973Da28 quote single set of excitation energies for their (d, α), ($^3\text{He},\alpha$) and (d,t) studies.

$J^\pi(^{63}\text{Cu})=3/2^-$.

 ^{62}Cu Levels

E(level)	$d\sigma/d\Omega^\#$	E(level)	$d\sigma/d\Omega^\#$	E(level)	$d\sigma/d\Omega^\#$	E(level)	$d\sigma/d\Omega^\#$
0	62	1145 3	≈ 8	1823 6	4	2506 8	3
41.0 15	51	1247 4	20	1918 6	18	2520 8	≈ 8
243.0 15	59	1285 4	≈ 10	1985 6	≈ 5	2547 8	≈ 8
286.0 15	23	1395 8	≈ 5	2022 6	≈ 4	2610 [†] 8	≈ 11
390.0 15	120	1409 8		2067 6	≈ 7	2640 [†] 8	≈ 16
426.0 15	66	1433 4	≈ 15	2107 [†] 6	≈ 10	2704 8	≈ 10
548.0 16	13	1491 5	≈ 11	2159 7	≈ 30	2725 8	≈ 7
638.0 19	26	1510 5	≈ 13	2176 7	≈ 3	2835 [‡] 9	16
674.0 20	55	1530 8	16	2243 7	8	2860 9	16
699.0 21	≤ 15	1680 5	11	2296 7	≈ 24	2920 9	≈ 6
728.0 22	21	1712 5	≈ 10	2360 7	15	2944 [†] 9	≈ 41
916 3	≈ 10	1746 5	≈ 14 [@]	2422 7	≈ 4	2993 9	25
984 3	≈ 3	1753 5	≈ 14 [@]	2446 7	≈ 20		
1077 3	9	1775 5	≈ 2	2486 7	≈ 6		

[†] Unresolved doublet.

[‡] Possible doublet.

[#] Values are from 1973Da28 at 30° in arbitrary units.

[@] Combined for 1746+1753 doublet.