^{207}Pb(d,d′) 1970Mo21,1971Un01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev, S. Lalkovski	NDS 112, 707 (2011)	1-Aug-2010

1970Mo21: Facility: Univ. Pittsburgh Van de Graaff; Beam: E(d)= 17 MeV; Target: 400 μg/cm^2 enriched to 92.4% in ^{208}Pb and evaporated on a 30 μg/cm^2 carbon foil; Detectors: Enge split-pole spectrograph and photo emulsion detectors; FWHM=10 keV; Measured: E, dσ/d$\Omega(\theta)$. Data were taken only at three angles 60, 75 and 90°. Deduced: level energies.
1971Un01: E=13.1 MeV, FWHM=3-10 keV.

^{207}Pb Levels

E(level)[†]	E(level)[†]	E(level)[†]	E(level)[†]
0	3478 *14*	4433? *18*	5092 *20*
572 *2*	3512 *14*	4493? *18*	5135 *21*
899 *4*	3585[&] *14*	4535? *18*	5144 *21*
1632 *7*	3624 *15*	4544? *18*	5183? *21*
2339[#]	3640 *15*	4566 *18*	5189 *21*
2368? *9*	3654 *15*	4604 *18*	5215? *21*
2622 *10*	3671? *15*	4616 *19*	5227? *21*
2657 *11*	3682 *15*	4628? *19*	5246? *21*
2705 *11*	3777 *15*	4636 *19*	5279 *21*
2727 *11*	3803 *15*	4680? *19*	5305 *21*
2902 *12*	3831 *15*	4697? *19*	5325 *21*
2909? *12*	3865? *16*	4714? *19*	5332 *21*
3004? *12*	3873 *16*	4726? *19*	5349? *21*
3057[@] *12*	3907 *16*	4752? *19*	5363 *22*
3188[‡]	3948 *16*	4769? *19*	5379 *22*
3203[&] *13*	4005? *16*	4796 *19*	5413? *22*
3227? *13*	4028 *16*	4813? *19*	5440 *22*
3267 *13*	4050? *16*	4840? *19*	5447? *22*
3311 *13*	4109 *16*	4854? *19*	5454 *22*
3319? *13*	4145[a] *17*	4880 *20*	5505 *22*
3335 *13*	4193 *17*	4897 *20*	5514 *22*
3344 *13*	4222 *17*	4930 *20*	5526 *22*
3388 *14*	4323 *17*	4965 *20*	5588 *22*
3402[‡]	4370 *18*	4991 *20*	
3418 *14*	4398 *18*	5027? *20*	
3427[&] *14*	4409 *18*	5060 *20*	

[†] From 1970Mo21, unless stated otherwise. Authors quote an uncertainty of 0.4%. Above 3000 keV, the energies lie consistently higher than the (p,p′) energies, although the difference is within the uncertainties quoted for the (d,d′) values. Authors assume that some of the lines may originate from impurities.
[‡] From 1971Un01.
[#] Used for calibration in 1970Mo21.
[@] Probable doublet.
[&] Reported as tentative by 1970Mo21, but also seen by 1971Un01.
[a] Configuration=((208πB2$^+$)(ν 3p$_{1/2}$)$^{-1}$).