^{208}Pb(^{9}Be,^{8}Be) 1977St20

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. Chen [#] and F. G. Kondev	NDS 126, 373 (2015)	30-Sep-2013

1977St20: E=50 MeV ^{9}Be beam was produced from the Lawrence Berkeley Laboratory 88-inch cyclotron. ^{8}Be particles were identified by detecting their decay α-particles using phosphorus-diffused silicon twin transmission detectors and a surface-barrier silicon PSD, FWHM=450 keV. Measured $\sigma(\theta)$. Deduced levels, spectroscopic factors from DWBA analysis.

^{209}Pb Levels

E(level)[†]	S[‡]
0	1
779	1.50
1423[&]	1.19[#]
1567	1.19[#]
2032[b]	0.88
2491[a]	1.06[@]
2538	1.06[@]

[†] Rounded-off values from Adopted Levels.
[‡] Relative values normalized to S(g.s.)=1. Authors also give absolute values (S(g.s.)=0.16) extracted using S(^{9}Be)=0.58, a theoretical value. The configurations are taken as known.
[#] 1.19 for the 1423+1567 keV levels.
[@] 1.06 for the 2491+2538 keV levels.
[&] Not resolved from strong 1567 keV level.
[a] Not resolved from strong 2538 keV level.
[b] Not resolved from strong 1567 and 2538 keV levels.