^{207}Pb(^{18}O,^{19}N),^{208}Pb(^{18}O,^{19}N) 1979Ba31

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	G. C. Sheu, J. H. Kelley	ENSDF	06-Nov-2018

1979Ba31: A beam of 93 MeV ^{18}O ions impinged on either a ^{208}Pb (98.2% enriched) or a ^{207}Pb (92.4% enriched) lead target (each was ≈250 μg/cm^2 on 5 μg/cm^2 carbon foil backings). Reaction products were detected at θ=80° and θ=85° using the Chalk River QD^3 spectrometer focal plane with energy resolutions that were typically ΔE≈260 keV. The Q(β^-)value =−18.44 MeV *15* was deduced for the reaction on ^{208}Pb, which corresponds to ΔM(^{19}N)=15.96 MeV *15*.

^{19}N Levels

E(level)	Comments
0	ΔM(^{19}N)=15.96 MeV *15* was deduced.