

$^{208}\text{Pb}(^{20}\text{Ne}, ^{21}\text{Ne})$ 1990Fo04

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

Facility: K500 at MSU; Beam: $E(^{20}\text{Ne})=500$ and 600 MeV; Target: 3.0 mg/cm² enriched to 99.9% in ^{208}Pb ; Detectors: S320 broad range magnetic spectrograph, two resistive wire position-sensitive chambers, two ionization chambers, plastic scintillator, thin film detector; Measured: Time-of-flight, E, $d\sigma/d\Omega$.

Other neutron-pick up reactions: $^{208}\text{Pb}(^{58}\text{Ni}, ^{59}\text{Ni})$ in 1987Be03; $^{208}\text{Pb}(^7\text{Li}, ^8\text{Li})$ in 1982Le14; rms radius of $\nu 1h_{9/2}$ deduced to be 5.97 fm //; $^{208}\text{Pb}(^{13}\text{C}, ^{14}\text{C})$, $^{208}\text{Pb}(^{12}\text{C}, ^{13}\text{C})$, $^{208}\text{Pb}(^{17}\text{O}, ^{18}\text{O})$, and $^{208}\text{Pb}(^{18}\text{O}, ^{19}\text{O})$ in 1979Fr07; $^{208}\text{Pb}(^{16}\text{O}, ^{17}\text{O})$ in 1979Fr07, 1978Pi09, and 1971Ba84; $^{208}\text{Pb}(^{40}\text{Ca}, ^{41}\text{Ca})$ in 2004Sz05, 2003SzZZ.

 ^{207}Pb Levels

E(level) [†]	J^π [‡]	C^2S [†]	Comments
0.0	$1/2^-$	2.00	configuration: $\nu(3p_{1/2})^{-1}$.
570	$5/2^-$	6.20	configuration: $\nu(2f_{5/2})^{-1}$.
900	$3/2^-$	4.00	configuration: $\nu(3p_{3/2})^{-1}$.
1630	$13/2^+$	12.0	configuration: $\nu(1i_{13/2})^{-1}$.
2330	$7/2^-$	7.30	configuration: $\nu(2f_{7/2})^{-1}$.
3410	$9/2^-$	6.90	configuration: $\nu(1h_{9/2})^{-1}$.

[†] From 1990Fo04.

[‡] Based on DWBA in 1990Fo04.