

$^{208}\text{Pb}(^{22}\text{Ne}, ^{23}\text{Ne}\gamma)$ 2012Bo09

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia [#] , A. Chakraborty ^{##}		NDS 171, 1 (2021)	1-Jun-2020

Based on XUNDL: Compiled by E. Thiagalingam and B. Singh (McMaster), July 17, 2012.

^{22}Ne beam at E=128 MeV, ^{208}Pb target (thickness 300 $\mu\text{g}/\text{cm}^2$). ^{208}Pb was sandwiched between two ^{12}C layers. The PRISMA magnetic spectrometer along with the γ -array CLARA consisting of 21 HPGe clover detectors were used for the experiment at the Legnaro National Laboratories of INFN. Identification of the reaction products was carried out from the event by event analysis of energy loss, time-of-flight and ion-trajectories. Measured particle- γ coincidences, E_γ .

 ^{23}Ne Levels

E(level)	J^π [†]
0.0	$5/2^+$
1017	$1/2^+$

[†] From Adopted Levels.

 $\gamma(^{23}\text{Ne})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
1017	1017	$1/2^+$	0.0	$5/2^+$

 $^{208}\text{Pb}(^{22}\text{Ne}, ^{23}\text{Ne}\gamma)$ 2012Bo09Level Scheme