^{20}Ne(^{12}C,p) 1980La12

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh	NDS 184, 29 (2022)	24-Jun-2022

1980La12: E(c.m.)=6.9-16.8 MeV ^{12}C from the EN tandem accelerator at the University of Montreal. Target was natural and enriched Ne gas (99.95% ^{20}Ne). Double Si surface barrier detector for ΔE-E reaction product determination. FWHM=175 keV. Measured excitation function (175 keV steps at θ_{lab}=2.82° (average)) with clear signals for the ground, first and second excited states but were only able to resolve groups of states between energies of 3.134-3.506 MeV, 4.191-4.783 MeV and 5.014-5.344 MeV.

^{31}P Levels

E(level)†
0
1266
2234

† From 1980La12.