^{208}Pb(^{19}C,^{19}C) 1999Na27

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, G. C. Sheu	ENSDF	23-March-2017

1999Na27: The Coulomb dissociation of 67 MeV/nucleon ^{19}C on ^{208}Pb was measured in a study of the low-lying E1 strength distribution at the RIKEN/RIPS facility. Complete kinematics of the ^{18}C+n dissociation products were measured and analyzed. The Coulomb dissociation cross section 1.19 b *11* was deduced after subtraction the nuclear component (obtained from a ^{12}C target) from the total cross section obtained with the Pb target. This corresponds to an E1 atrength of 0.71 e^2fm^2. Analysis of the ^{18}C+n distributions indicates S_n=530 keV *130*, and gives a clear indication of $J^\pi=1/2^+$ for the ground state (compared to $5/2^+$ suggested in other analyses).

See also analysis in (2000Ba24, 2004Su23, 2004Ta31, 2005Na09).

^{19}C Levels

E(level)	J^π
0	$1/2^+$