^{208}Pb(^{11}Be,^{11}Be′) 1997Fa11,1997Na08

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu	NP A880, 88 (2012)	1-Jan-2011

1995An20: Pb(^{11}Be,^{11}Be′), E=30-46 MeV/nucleon; measured E_γ, I_γ following projectile Coulomb excitation. ^{11}Be level deduced γ-transition associated σ.

1997Fa11: ^{197}Au,^{208}Pb(^{11}Be,^{11}Be′), E=57-60 MeV/nucleon; measured E_γ, I_γ, $\gamma(^{11}$Be)-coin following projectile Coulomb excitation. ^{11}Be deduced level B(E1), nuclear contributions to excitation σ.

1997Na08: ^{208}Pb(^{11}Be,^{11}Be′), E=64 MeV/nucleon; measured E_γ, I_γ following Coulomb excitation, $\sigma(\theta)$; deduced σ. ^{11}Be level deduced electric dipole strength, B(E1).

1998VaZU: ^{208}Pb(^{11}Be,^{11}Be′), E=77 MeV/nucleon; measured E_γ, I_γ following projectile Coulomb excitation. ^{11}Be deduced E1 strength distribution.

2007Su18: ^{208}Pb(^{11}Be,^{11}Be′), E=38.6 MeV/nucleon; measured Coulomb excitation σ. ^{11}Be deduced B(E1) strengths; calculated σ.

^{11}Be Levels

E(level)
0
0.32×10^3

$\gamma(^{11}$Be)

E_γ	E_i(level)	E_f	Comments
0.32×10^3	0.32×10^3	0	B(E1)↓: E(^{11}Be)=43 MeV/A yields B(E1)=0.06 e^2fm^2 1 (1995An20). E(^{11}Be)=64 MeV/A yields B(E1)=0.099 e^2fm^2 10 (1997Na08). E(^{11}Be)=57-60 MeV/A yields B(E1)=0.094 e^2fm^2 11 (1997Fa11). These compare with B(E1)=0.116 e^2fm^2 12 deduced from lifetime measurements (1983Mi08).

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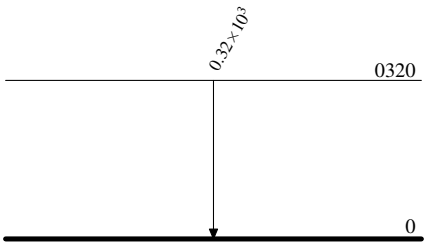
Level Scheme



$^{11}_{4}Be_{7}$