^{208}Pb(γ,p),(e,e′p) IAR 1975Sh12,1975Sh13

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Full Evaluation	M. J. Martin	NDS 108,1583 (2007)	1-Jun-2007

E=19.2-29.0 MeV (1975Sh13); 25.0, 40.0 MeV (1975Sh12).

Others: 1971Da04, 1970Do03.

Proton groups with energies 11 and 15.3 MeV are observed for bombarding energies >25.2 MeV; p(θ) for these groups is isotropic (1975Sh12) which suggests that they are emitted through an isobaric analog resonance. For the background continuum p(θ) is strongly asymmetric. The authors conclude that 11.0- and 13.5-MeV proton groups are emitted from the 25-MeV IAR and interpret these resonances As IAR of possible 1^- and 2^+ levels predicted In ^{208}Tl At 1500(1^-), 2100(1^-), and 2800(2^+) (1970Do03).

^{208}Pb Levels

E(level)
24400[†]
25000[‡]
27200[‡]

[†] Resonances At 24400 and 25000 were unresolved In the (γ,p) cross section. E=25000 (1975Sh13), 24900 *300* (1971Da04) for the combined resonances. 1975Sh13 deduce Γ_γ=530 eV *80* if Γ(P)/Γ=1.0, and 700 eV *100* if Γ(P)/Γ=0.75 for J=1.

[‡] 1975Sh13 deduce Γ_γ=150 eV *50* if Γ(P)/Γ=1.0 and J=2. The authors point out that the value for Γ_γ May Be about half that given here if possible contributions from virtual photons are included.