## $He(^{33}Al,^{33}Al\gamma)$ **2006FuZX**

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2006FuZX: E=40 MeV/nucleon  $^{33}$ Mg beam was produced by fragmentation of 63 MeV/nucleon  $^{40}$ Ar primary beam from the RIKEN accelerator on a carbon or beryllium target. Fragments were separated by the RIPS fragment separator. The secondary target was liquid helium. Reaction products and scattered particles were detected and identified by a parallel-plate avalanche counter (PPAC) and a silicon detector telescope;  $\gamma$  rays were detected with an array of NaI(Tl) detectors surrounding the target. Report  $\gamma$ -ray peaks at 747.5 10 and 1838.6 17.

<sup>33</sup>Al Levels

E(level)<sup>†</sup>
0.0
747.5 10
1838.6 17

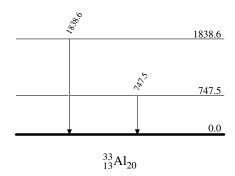
 $\dagger$  From Ey data, based on placements in the Adopted Levels, Gammas.

 $\gamma$ (33Al)

 $\frac{E_{\gamma}^{\dagger}}{747.5 \ 10}$   $\frac{E_{i}(\text{level})}{747.5}$   $\frac{E_{f}}{0.0}$   $\frac{E_{f}}{1838.6}$   $\frac{17}{1838.6}$   $\frac{1838.6}{0.0}$ 

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## Level Scheme



<sup>†</sup> From 2006FuZX. Those transitions are not placed in 2006FuZX and their placements here are from the Adopted Levels, Gammas.