## <sup>4</sup>He(<sup>32</sup>Al,<sup>32</sup>Al'X) **2006FuZX**

History

Type Author Citation Literature Cutoff Date
Full Evaluation Christian Ouellet, Balraj Singh NDS 112, 2199 (2011) 24-Aug-2011

2006FuZX:  $^{32}$ Al particles produced by fragmentation of  $^{40}$ Ar beam at 63 MeV/nucleon impinging carbon or beryllium target. The fragments were separated by RIPS fragment separator. The secondary beam of  $^{32}$ Al at 40 MeV/nucleon bombarded liquid helium target. The reaction products and scattered particles were detected and identified by a parallel-plate avalanche counter (PPAC) and a silicon detector telescope. Time-of-flight method used for atomic charge selection. The  $\gamma$  rays measured with an array of NaI(Tl) and Ge detectors surrounding the target.

The gamma-ray data are stated by 2006FuZX as preliminary. The level scheme is proposed by the evaluators based on Adopted Levels.

32Al Levels

 $\gamma(^{32}Al)$ 

$E_{\gamma}$	$E_i(level)$	$E_f$
219.4 <sup>†</sup> 5	954.9	735.5
219.4 <sup>†</sup> 5	1177	954.9
<sup>x</sup> 280.4 8		
<sup>x</sup> 530.2 11		
566	1743	1177
735.5 6	735.5	0
786	1743	954.9

 $<sup>^{\</sup>dagger}$  Multiply placed with undivided intensity.

 $<sup>^{</sup>x}$   $\gamma$  ray not placed in level scheme.

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## Level Scheme

