## <sup>4</sup>He(<sup>32</sup>Mg,<sup>32</sup>Mg' $\gamma$ ) 2006FuZX

		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 201,1 (2025)	31-Oct-2024

Alpha inelastic scattering.

2006FuZX (also 2006FuZY): E=42 MeV <sup>32</sup>Mg secondary beam was produced by fragmentation of 63 MeV/nucleon <sup>40</sup>Ar primary beam on 1-mm thick carbon and beryllium target and separated by the RIKEN Projectile-fragment Separator (RIPS). The reaction target is liquid helium of about 150 mg/cm<sup>2</sup> thick.  $\gamma$  rays were detected with the GRAPE Ge detector array. Measured E $\gamma$ , particle- $\gamma$ -coin. Deduced levels.

<sup>32</sup>Mg Levels

 $\frac{E(level)^{\dagger}}{0}$ 883.9 *3* 2318.8 13

<sup>†</sup> From  $E\gamma$  data.

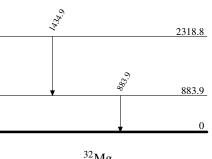
## $\gamma(^{32}Mg)$

$E_{\gamma}^{\dagger}$	$E_i(level)$	$E_f$
883.9 <i>3</i>	883.9	0
1434.9 <i>13</i>	2318.8	883.9

<sup>†</sup> From 2006FuZX.

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## Level Scheme



 $^{32}_{12}Mg_{20}$