

$^4\text{He}(^{32}\text{Mg}, ^{32}\text{Mg}'\gamma)$ 2006FuZX

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

Alpha inelastic scattering.

2006FuZX (also 2006FuZY): E=42 MeV ^{32}Mg secondary beam was produced by fragmentation of 63 MeV/nucleon ^{40}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/cm² thick. γ rays were detected with the GRAPE Ge detector array. Measured E_γ , particle- γ -coin. Deduced levels.

 ^{32}Mg Levels

<u>E(level)[†]</u>
0
883.9 3
2318.8 13

[†] From E_γ data.

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

<u>E_γ[†]</u>	<u>$E_i(\text{level})$</u>	<u>E_f</u>
883.9 3	883.9	0
1434.9 13	2318.8	883.9

[†] From 2006FuZX.

 $^4\text{He}(^{32}\text{Mg}, ^{32}\text{Mg}'\gamma)$ 2006FuZXLevel Scheme