34 Mg(p,p' γ) **2006El03**

Type Author Citation Literature Cutoff Date

Full Evaluation Ninel Nica, Balraj Singh NDS 113, 1563 (2012) 28-May-2012

Beam=³⁴Mg, target=liquid hydrogen.

³⁴Mg particles produced by fragmentation of ⁴⁰Ar beam at 94 MeV/nucleon hitting a ¹⁸¹Ta target. The fragments were separated by RIPS fragment separator. The secondary beam of ³⁴Mg at 50 MeV/nucleon hit a liquid hydrogen 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 γ rays measured with an array of 146 NaI(Tl) detectors surrounding the target. Deduced mass deformation and neutron deformation parameters.

³⁴Mg Levels

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Level Scheme

