

$^{56}\text{Ni}(d,d')$:giant res **2008Mo02**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huo Junde, Huo Su, Yang Dong		NDS 112, 1513 (2011)	29-Oct-2009

First identification of giant resonances in ^{56}Ni .

$E(^{56}\text{Ni})=50$ MeV/nucleon secondary beam provided by GANIL facility and produced in fragmentation of ^{58}Ni beam at $E=75$ MeV/nucleon with a carbon target, and purified with an aluminum degrader. The secondary beam of ^{56}Ni ions passed through Maya target (filled with deuterium gas). Measured charged particles using Maya detector and Si detectors, SPEG spectrometer. Angular distributions measured from 3° to 7° . DWBA and RPA analyses.

 ^{56}Ni Levels

E(level)	L	%EWSR [†]	Comments
16.2×10^3 5	2	76 13	E(level): Giant quadrupole resonance (GQR).
19.3×10^3 5	0	136 27	E(level): Giant monopole resonance (GMR).

[†] EWSR=energy weighted sum rule.