$Si(^{34}Si,^{34}Si'\gamma)$ 2002Mi44

Type Author Citation Literature Cutoff Date
Full Evaluation Ninel Nica, Balraj Singh NDS 113, 1563 (2012) 28-May-2012

Inelastic scattering. Search for first excited 0⁺ state in ³⁴Si.

2002Mi44 (also 2002Mi48): E=55 MeV/nucleon ³⁴Si beam was obtained from fragmentation of ³⁶S beam at GANIL facility,

SPEG spectrometer. Measured (fragment)γ coincidence spectra using an array of 74 BaF₂ detectors.

No evidence was found for an excited 0^+ state below the first 2^+ state.

³⁴Si Levels

E(level)	J^{π}	Comments
0	0^{+}	
3330 <i>50</i>	2+	An upper limit of 1% was set for an hypothetical transition from 3330, 2 ⁺ to a first excited 0 ⁺ at 2133 keV
4280 70	3-	proposed in 2002En02.

$$\gamma$$
(34Si)

$Si(^{34}Si,^{34}Si'\gamma)$ 2002Mi44



