

Coulomb excitation 2005Di05

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yang Dong, Huo Junde		NDS 128, 185 (2015)	10-Jul-2015

Studied ^{52}Ti with intermediate-energy Coulomb excitation, ^{52}Ti produced $^9\text{Be}(^{76}\text{Ge}, X\gamma)$, $E(^{76}\text{Ge})=130$ MeV/nucleon, $^{197}\text{Au}(^{52}\text{Ti}, ^{52}\text{Ti}')$, $E(^{52}\text{Ti})=79.1$ and 82.4 MeV/nucleon, Au targets: 256 MG/CM² and 518 MG/CM², respectively, measured E_γ , I_γ , (particle) γ -coin using an array of fifteen 32-fold segmented, germanium detectors arranged in two rings with central angles of 90° and 37° relative to the beam axis.

 ^{52}Ti Levels

E(level)	J^π [†]	$T_{1/2}$	Comments
0	0^+		
1050	2^+	3.9 ps 4	$B(E2)\uparrow=0.0567$ 51 $T_{1/2}$: deduced from $B(E2)$ by evaluators.
2264	2^+		

[†] From Adopted Levels.

 $\gamma(^{52}\text{Ti})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
1050	1050	2^+	0	0^+
1214	2264	2^+	1050	2^+

Coulomb excitation 2005Di05Level Scheme