History				
Туре	Author	Citation	Literature Cutoff Date	
Full Evaluation	Jun Chen and Balraj Singh	NDS 190,1 (2023)	20-Jun-2023	

Dataset adapted from compiled dataset by E.A. McCutchan (NNDC, BNL), Oct 06, 2020, available in the XUNDL database. 2019Ba45:  $E(^{40}Ca)=180$  MeV from GANIL facility. Scattered alpha particles measured using two 1-mm thick double-sided silicon strip detectors. Search for  $\alpha$ -clustered states from resonant scattering.

## <sup>44</sup>Ti Levels

E(level)	$J^{\pi \dagger}$	Comments
≈11.19×10 <sup>3</sup>	$0^{+}$	
$\approx 11.75 \times 10^{3}$	1-	
$\approx 12.37 \times 10^{3}$	$2^{+}$	
$\approx 12.94 \times 10^{3}$	3-	
$\approx 13.36 \times 10^{3}$	4+	
$\approx 14.33 \times 10^{3}$	$0^{+}$	
$\approx 14.8 \times 10^3$	5-	
$\approx 15.81 \times 10^{3}$	6+	
$\approx 16.57 \times 10^3$	2+	$J^{\pi}$ : proposed to be based on the 0 <sup>+</sup> state at 14.33 MeV, as the level could not be assigned to a previously known or calculated state (2019Ba45).

<sup>†</sup> Based on comparison to known  $\alpha$ -clustered states (2019Ba45).