^{154}Eu(t,p) 1984La06

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. W. Reich	NDS 113, 2537 (2012)	1-Mar-2012

$J^{\pi}(^{154}Eu)=3^-$. Conf=π5/2[413]-ν11/2[505].

Additional information 1.

^{154}Eu(t,p)^{156}Eu, E(t)=17 MeV. ^{154}Eu target has $T_{1/2}$=8.59 y. The emitted protons momentum analyzed in a Q3d magnetic spectrograph and detected in a 1-m helix detector. Measured p(θ) at selected angles between θ=15° and 65°. FWHM not given. Two levels reported, with a third level possible.

^{156}Eu Levels

E(level)	J^{π}†	L	Comments
448‡ *15*	3^-	0	E(level): Value derived from the measured reaction Q value for this state and the tabulated Q(β^-)value for the g.s. The adopted value is 434 keV.
524‡ *15*	(4^-)		
675? *16*			

† From the adopted values.

‡ Band(A): $K^{\pi}=3^-$ band. configuration=π5/2[413]-ν11/2[505].

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Band(A): $K^{\pi}=3^{-}$ band

(4^{-})	**524**

3^{-}	**448**

$^{156}_{63}Eu_{93}$