## <sup>103</sup>In IT decay 1997Sz04

History									
Туре	Author	Citation	Literature Cutoff Date						
Full Evaluation	D. De Frenne	NDS 110, 2081 (2009)	1-Mar-2009						

Parent: <sup>103</sup>In: E=631.7;  $J^{\pi}=(1/2^{-})$ ;  $T_{1/2}=34$  s 2; %IT decay=33.0 Source: <sup>50</sup>Cr(<sup>58</sup>Ni,3p2n) E(<sup>58</sup>Ni)=5.9 MeV/U mass separated source, enriched target.

## <sup>103</sup>In Levels

E(level)	$J^{\pi}$	T <sub>1/2</sub>	Comments	
0.0 631.7	(9/2 <sup>+</sup> ) (1/2 <sup>-</sup> )		T <sub>1/2</sub> : 34 s 2 (1997Sz04) γ-decay curve. J <sup><math>\pi</math></sup> : From systematics in heavier In isotopes.	

<sup>†</sup> From Adopted Levels.

## $\gamma(^{103}\text{In})$

I $\gamma$  normalization: %IT=33: value mentioned by 1997Sz04 from an unpublished thesis of Decrock of IKS Leuven (Belgium). This result was obtained by performing a time analysis of Cd K-X rays which resulted in a  $\beta$  branch for <sup>103m</sup>In of 67% leaving 33% for the IT. That experiment was not repeated afterwards.

Eγ	$E_i$ (level)	$\mathbf{J}_i^{\pi}$	$\mathbf{E}_f = \mathbf{J}_f^{\pi}$	Mult.	$\alpha^{\dagger}$	Comments
631.7 1	631.7	(1/2 <sup>-</sup> )	0.0 (9/2+)	(M4)	0.0774 11	B(M4)(W.u.)=11.2 8 Mult.: suggested from comparable situation in <sup>105,107,109,111</sup> In and similar B(M4)(W.u.) values, e.g. 11.4 for <sup>107</sup> In and 10.0 for <sup>109</sup> In where M4 character of this transition is well established.

<sup>†</sup> Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on  $\gamma$ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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